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As experienced experts we support our customers and partners around the world with products, solutions and services in the industrial environment of power, signal and data. We are at home in their industries and markets and know the technological challenges of tomorrow. We are therefore continuously developing innovative, sustainable and useful solutions for their individual needs. Together we set standards in Industrial Connectivity.

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Order number: 1381510000/01/2013/SMDM

OMNIMATE – device connectivity

Catalogue 2013

Weidmüller

PCB terminal blocks, PCB connectors, panel feedthrough terminal blocks and electronics housings Catalogue 2013

Let’s connect.

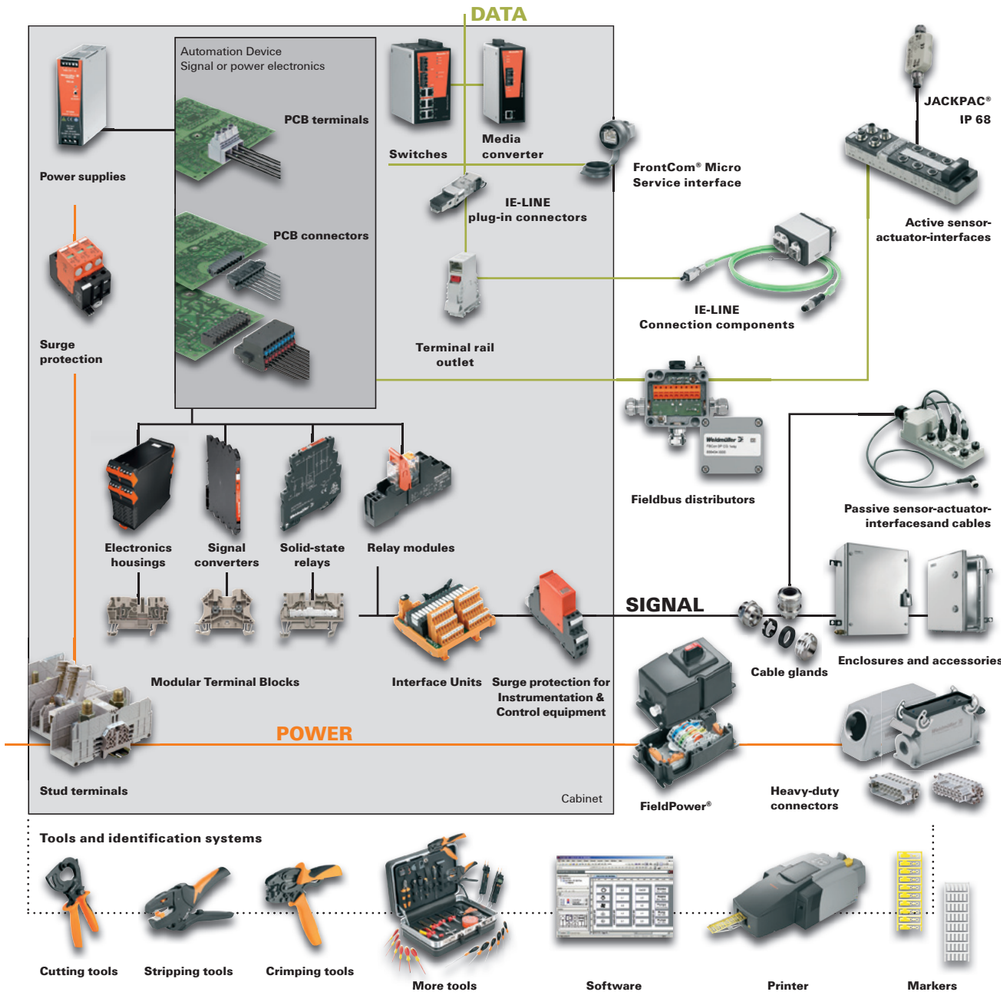
OMNIMATE – device connectivity



Weidmüller

The World of Industrial Connectivity

As experienced experts we support our customers and partners around the world with products, solutions and services in the industrial environment of power, signal and data. Immerse yourself in our world of Industrial Connectivity.
Let's connect.



Dear Customers,

The PDF versions of our catalogues offer practical additional functions, helping you to find your way around our product range and simplifying the ordering process.

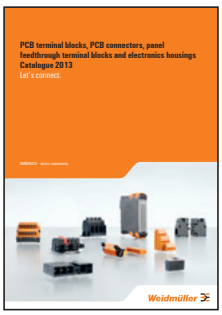
In addition to the catalogue, the PDF also contains:

- Internal page links
- Links to the online catalogue

Try it out for yourself. Click the order number to obtain more detailed information and close-up images via you web browser. The links in the PDF file also enable you to go directly to the next desired catalogue page.

Further Weidmüller product catalogues can be accessed by clicking the following:



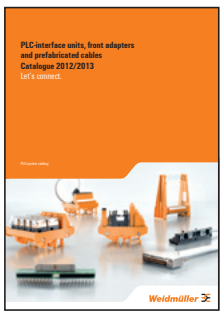


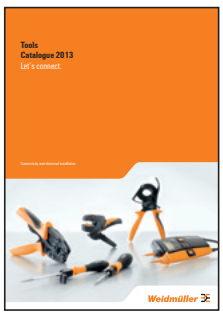




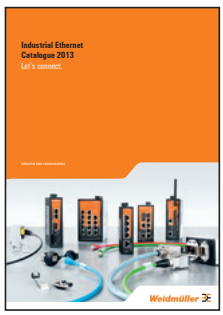












PCB terminal blocks, PCB connectors, panel feedthrough terminal blocks and electronics housings
Catalogue 2

PCB terminal blocks, PCB connectors, panel feedthrough terminal blocks and electronics housings

Introduction

OMNIMATE Signal
- PCB terminals
- PCB connectors
- Accessories

OMNIMATE Power
- PCB terminals
- PCB connectors
- Through-Panel Terminals
- Accessories

OMNIMATE Housing
- Housings for electronics
- Accessories

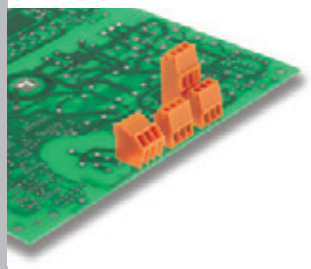
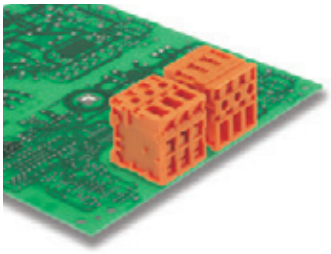
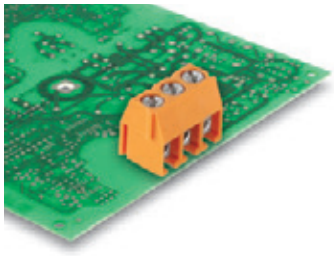
Appendix

Technical appendix

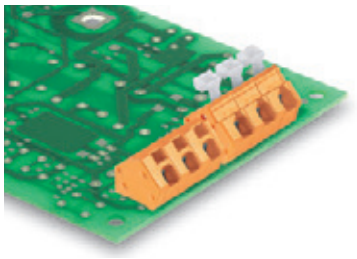
Index
- Search according to type or order number, Addresses worldwide

OMNIMATE Signal – Overview

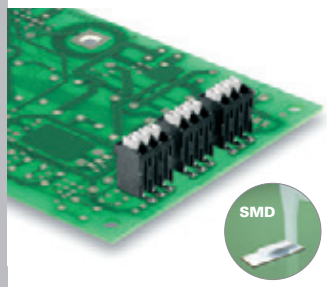
PCB terminals

Chapter B	Clamping yoke screw connection LS, LM, LP and LL	TOP screw connection TOP1.5 and TOP4GS	Leaf spring screw connection PS and PM
			
Explanation	B.2	B.2	B.2
Quick selection	B.8	B.8	B.8
Technical data	B.10	B.46	B.54

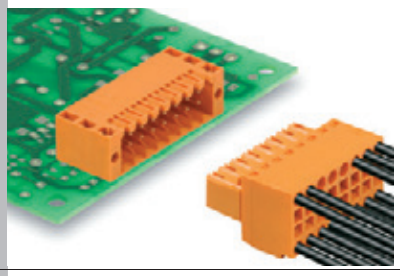
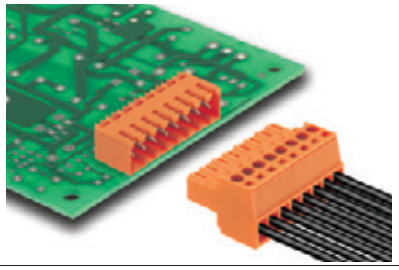
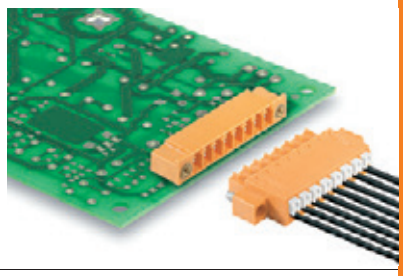
PCB terminals

Chapter B	PUSH IN-spring connection LSF-SMT	Tension clamp connection LMZF and LMZF multi-level
		
Explanation	B.4	B.2
Quick selection	B.8	B.8
Technical data	B.58	B.96

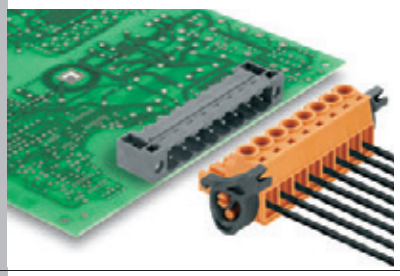
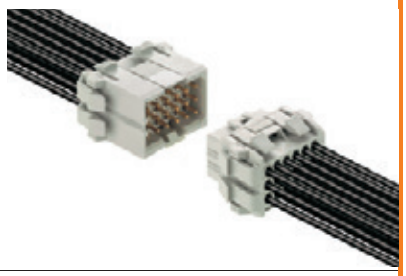
PCB terminals

Chapter B	PUSH IN-spring connection LSF-SMD
	
Explanation	B.6
Quick selection	B.8
Technical data	B.58

PCB connectors

Chapter C	2-row, Pitch 3.50 mm Series B2C / S2C 3.50	Pitch 3.50 mm Series BL / SL 3.50	Pitch 3.81 mm Series BC / SC 3.81
			
Connection	up to 1.00 mm² / AWG 16	up to 1.50 mm² / AWG 14	up to 1.50 mm² / AWG 16
Explanation	C.2	C.20	C.60
Quick selection	C.4	C.24	C.64
Technical data	C.6	C.26	C.66

PCB connectors

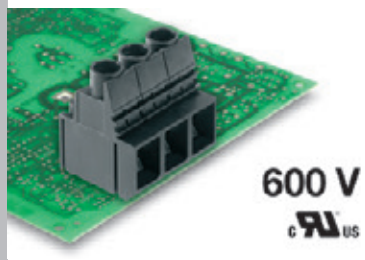
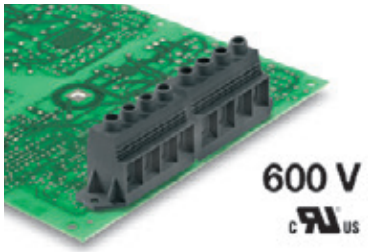
Chapter C	Pitch 5.00 mm Series BL / SL 5.00	Pitch 5.08 mm Series BL / SL 5.08	Pitch 5.00 mm Series RSV
			
Connection	up to 4.00 mm² / AWG 12	up to 4.00 mm² / AWG 12	up to 2.50 mm² / AWG 12
Explanation	C.120	C.120	C.250
Quick selection	C.132	C.162	C.252
Technical data	C.134	C.168	C.254

OMNIMATE Signal – Accessories

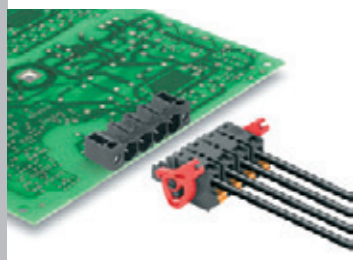
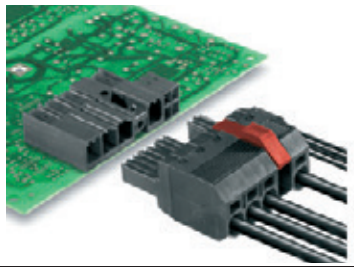
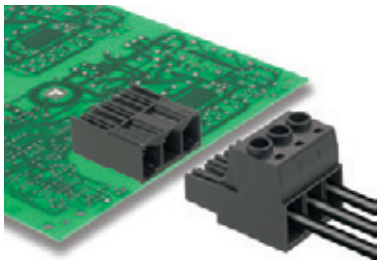
Chapter D	Accessories		
			
Technical data	from D.2		

OMNIMATE Power – Overview

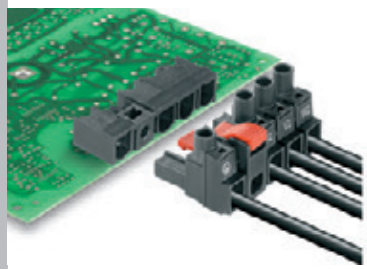
PCB terminals

Chapter E	Pitch 10.16 – 12.7 mm Series LU / LUP	Pitch 15.00 mm Series LX	Pitch 15.00 mm Series LXXX
			
Connection	16 mm²	25 mm²	up to 50 mm² / AWG 1
Explanation	E.2	E.2	E.2
Quick selection	E.4	E.4	E.4
Technical data	E.6	E.10	E.12

PCB connectors

Chapter F	Pitch 7.62 mm Series BL / SL HP	Pitch 7.62 mm Series BV / SV HP	Pitch 10.16 mm Series BU /SU HP
			
Connection	up to 4.00 mm² / AWG 12	up to 6.00 mm² / AWG 10	up to 16.00 mm² / AWG 6
Explanation	F.4	F.24	F.76
Quick selection	F.6	F.26	F.78
Technical data	F.8	F.28	F.80

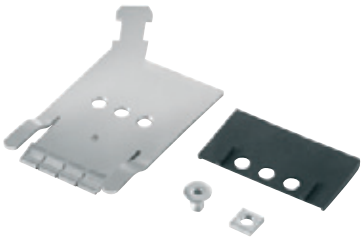
PCB connectors

Chapter F	Pitch 7.62 - 10.16 mm Series IT
	
Connection	up to 16.00 mm² / AWG 6
Explanation	F.92
Quick selection	F.94
Technical data	F.96

Through-Panel Terminals

Chapter G	Series WGK
	
Explanation	up to 95 mm² / AWG 4/0
Quick selection	G.2
Technical data	G.4

OMNIMATE Power – Accessories

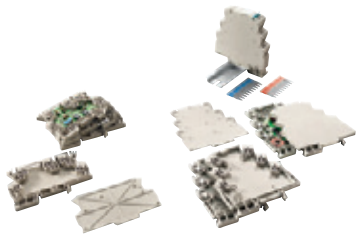
Chapter H	Accessories
	  
Technical data	from H.2

OMNIMATE Housing – Overview

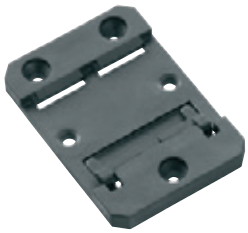
Housings for electronics

Chapter I	OMNIMATE Housing 	Component housing CH20M 
Explanation	I.2	I.6
Orientation guide	I.4	I.15
Technical data		I.16

Housings for electronics

Chapter I	Terminal housing MHS, MHZ and MCZ 	Profile housing RS 
Explanation	I.36	I.40
Orientation guide		I.43
Technical data	I.38	I.44

OMNIMATE Housing – Accessories

Chapter J	Accessories 		
Technical data	from J.2		

Introduction

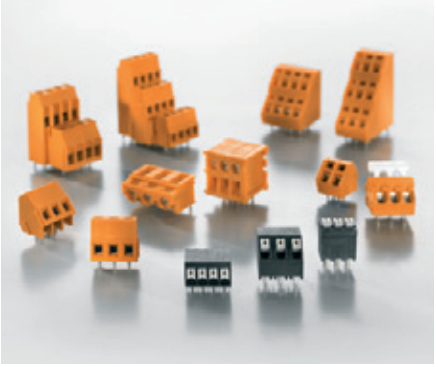
Introduction	OMNIMATE – Device connectivity and electronics housings Products, service and support	A.2

Introduction and overview of our basic portfolio

OMNIMATE – device connectivity and electronics housings from Weidmüller – take advantage of quality, efficiency and expertise for reliability and added value over the entire product lifespan.

Our wide, applications-based product line includes PCB terminals and connectors, feedthrough terminals, and electronics housings for industrial applications with an emphases on signal processing and power electronics.

As a pioneering and leading provider of device connectivity, Weidmüller supports the entire design-in process with deep-rooted application expertise and proven know-how in finding solutions. Our global design-in support provides the perfect connection between products and services.



OMNIMATE Signal – PCB terminals

A simple and direct terminal connection to the circuit board: the terminal provides a high-density component assembly with good usability despite the compact dimensions. Typical applications are sensor-actuator interfaces and power supplies for the control and building industries. The main advantages:

- All standard connection systems, from clamping yoke to PUSH IN
- All-purpose usage with pitches from 3.50 to 10.00 mm
- Wide variety of reflow-compatible products
- Compact, multi-level construction



OMNIMATE Signal – PCB connectors

This convenient wire-insert method is the established standard in process and manufacturing automation as well as the measurement and control industries. The wide OMNIMATE line, with its six product series, provides design flexibility, efficient processing, and safe, intuitive handling. Additional advantages:

- Wire connections to meet market requirements: including a 0.5 mm² IDC bus, 1.5 mm² spring connection, and 4 mm² clamping yoke for two wires.
- A connection to the PCB that complies with SMT and wave soldering process.
- Compact, strong, all-purpose: 36 connections in 3.5 pitch; highest load capacity in 3.81 pitch; widest usage range in 5.08 pitch.



OMNIMATE Power – PCB terminals

The sturdy, direct connection for extreme current and voltage requirements in power electronics such as solar inverters, frequency converters and high-performance power supplies.

- High power: 150 A / 1000 V / 50 mm² (IEC) and 600 V / 127 A / AWG 1 (UL)
- Simple UL approval of the device up to 600 V
- Zero-maintenance steel clamp for screw connections that are resistant to vibration



OMNIMATE Power – PCB connectors

The pluggable connection method for modern drive systems and high-power electronics such as motor starters, inverters, servo drives and frequency converters. OMNIMATE Power sets the new standard – with increased safety and innovative solutions such as the pluggable shield, integrated signal contacts and one-handed operation.

- Applications-based scalability: ranging from the compact 4 mm² connection for 29 A, to the sturdy 16 mm² connection for 50 kVA (IEC).
- Unlimited usage up to 600 V (UL) or 1000 V (IEC))



OMNIMATE Power – WGK through panel terminals

The logical expansion of the portfolio to include direct through panel connectors for device panels. Excellent for applications such as EMC filters, discrete-built inverters for drive systems and encapsulated devices. A wide variety of applications made possible with:

- Wide power range for currents from 32 to 232 A and wire cross-sections from 4 to 95 mm² (AWG 4/0)
- Various types of connections: solder connection, cable-lug-stud connection, and clamping yoke screw connection.
- Options for accommodating horizontal or vertical wire outlets



OMNIMATE Housing – Electronics housings

The perfect platform for form and function: Weidmüller's electronics housings provide a state-of-the-art platform for applications such as I/O sliced-design terminals, interface units, signal conditioners and power supplies. The portfolio covers all applications in the electrical cabinet, for example

- Component housing like the modular CH20M system for an individual design, efficient SMT processing and innovative use - scalable from 6 to 67 mm
- Profile cases for special designs and small batches with 6 widths in variable or modular configurations.

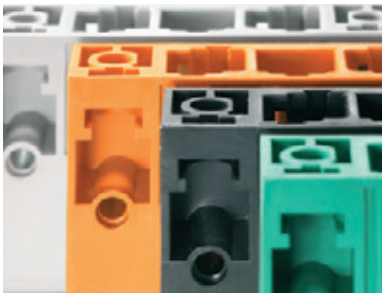


Individual services

The services described here are a perfect supplement to the basic portfolio – simple and quick to configure and tailor-made for your individual requirements. You can benefit from our decades of experience and innovative technologies.

In detail: your service portfolio

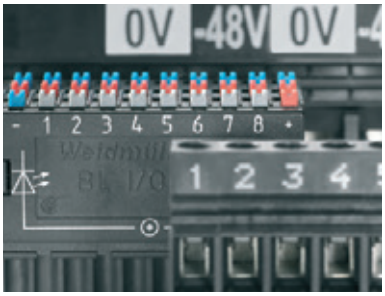
Customised colouring



Colour is a simple yet influential element of design. You can structure, integrate, design or label the connection area. With a wide selection of different colour schemes, customise our components to your application:

- Standard colours: black, orange, grey, green
- Signal and functional colours: blue, yellow, red

Clear labeling

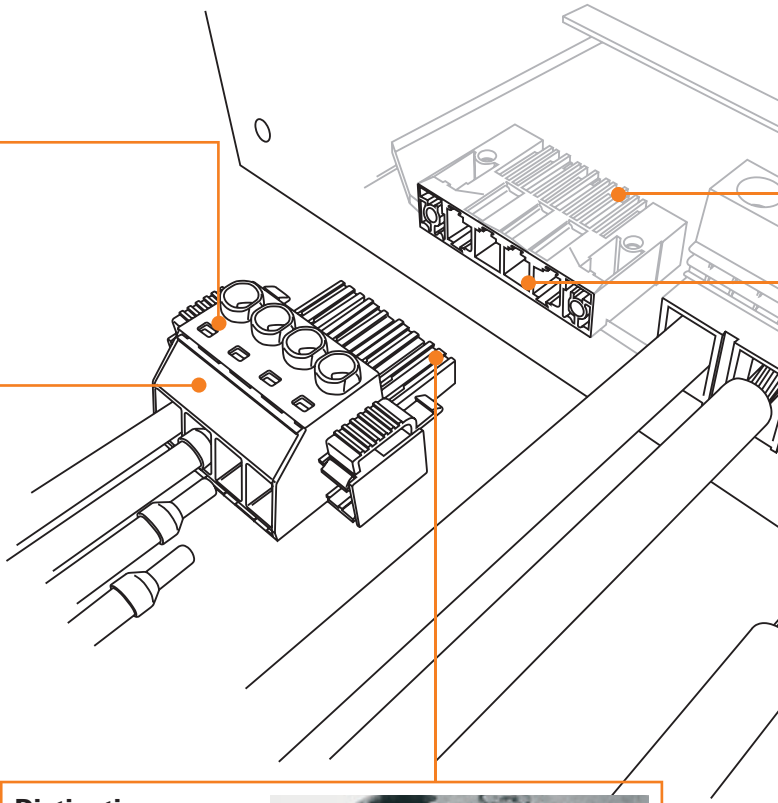


Providing for smooth installation and quick repairs:

- A flexible layout for application-specific marking
- Including sharp-contoured special characters and symbols
- 4 methods: pad printing, laser printing, inkjet labels and adhesive systems

The aim: your tailored solution

Weidmüller's products and services are designed with one goal in mind: optimisation. No more, and no less than this.



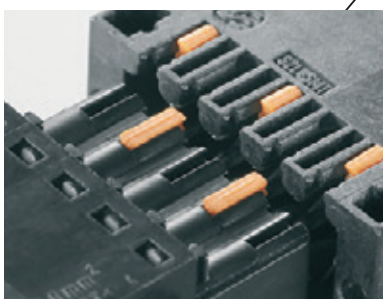
Process-compatible packaging



The proper packaging for your manufacturing process raises efficiency. You can choose between:

- Box (standard): space saving and environmentally friendly
- Tape on reel: A specific roll for each feeder from 24 mm
- Tube: can be automatically assembled, even without a feeder
- Tray: even large components can be quickly reached

Distinctive coding



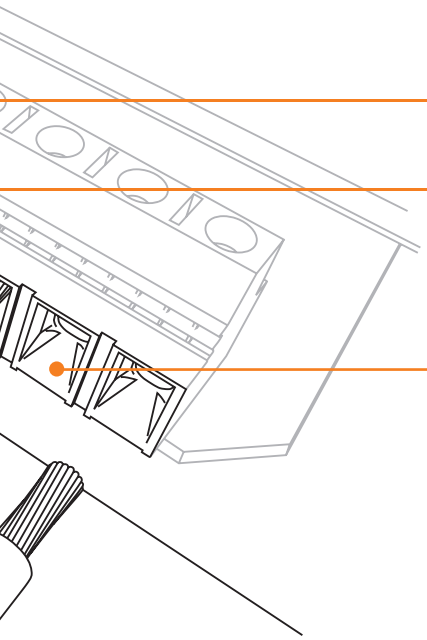
So that only those components which belong together fit together. Take advantage of our systematic connector or PCB coding systems:

- Versatile: individual manual coding in the process or on-site
- Practical: pre-assembled coding from the factory, per your requirements
- Efficient: pre-formed coding with large quantities

Weidmüller's design-in partnership – more than just contacts.

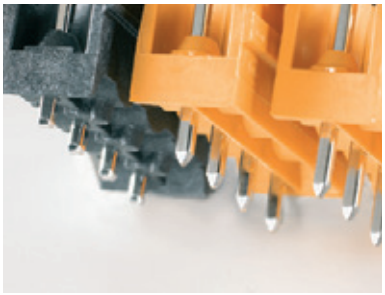
- More design freedom, clearer differentiation, greater degree of innovation
- Less overhead, less compromises, a shorter time to market
- Consistently reliable, maintenance-free, secure connections

The result: satisfied customers, greater success.



http://galaxy.weidmueller.com

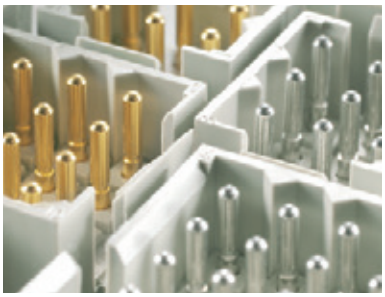
Pin lengths optimised for the process



Choose the ideal pin length based on engineering requirements and process parameters, including:

- Circuit board construction: thickness, assembly type
- Assembly process: manual or automatic
- Soldering process: wave or reflow soldering

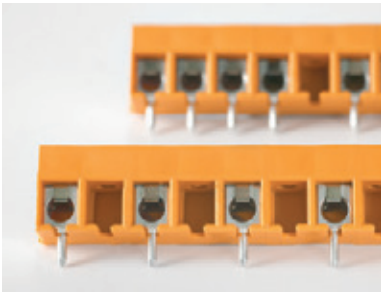
Application-oriented contact platings



Specify the proper contact platings – based on the electrical parameters and dependent on:

- Environmental conditions such as moisture level
- Mechanical factors such as vibration
- Application characteristics such as the number of plugging cycles
- Thermal influences such as temperature values and cycles

Selective assembly



Extend the clearance and creepage distances – partial assembly is simple and:

- Space saving: smaller dimensions than a large pitch
- Efficient: different voltage ranges in one component
- Economical: possible to use lower performance classes

Application-specific development



Seamlessly proceeding with your custom configuration: In addition to our technical and production expertise, Weidmüller's principle of "pro-active design-in" ensures that your solution will always be integrated into your project and application.

Unending support: Partnership Powered by Weidmüller

Adapted to your design-in needs, we have a variety of useful tools available on the Internet so that you can find the right OMNIMATE components for your needs.



How can I find the right product for my application?

Take advantage of the basic selection in our product configurator. This online assistant gives you expert support, along with all of the engineering data.
http://galaxy.weidmueller.com
Key in your design data, select your components and ask about the features: number of poles, terminal pin length, colour, contact surface and packaging. All in a single click.



Detail configuration for reliable field application.

If the basic configuration is not sufficient, you can build the product that fits your needs using the configurator. You can also have coding - some with assembly and inscription, with the option of printing techniques, colours and letter/symbol orientation. Just pick your product and send it in a query to Weidmüller.

Are you looking for product data?

You will find all of the documents in the online catalogue including data sheets, drawings, related products and 3-D models, all in a common format and with direct access to the product. For viewing, printing out, downloading and email.



Reference sample from our warehouse.

Do you need initial samples for your prototypes? Just order your design-in samples, quickly and easily. With the OMNIMATE® Sample Service for Weidmüller connection components and electronic housings, you can find your design-in sample online and get it delivered anywhere you want, within 72 hours. Select from more than 2,500 product models of our OMNIMATE® power, signal and housing solutions. You can check the application suitability of the ordered components in only 72 hours.



We have help and advice on hand: proactive design-in

A helpful and reliable team: online resources plus „human resources“ in the form of web assistants and your own personal contact person.
You profit from:
- constructive customer relations
- a high level of applications expertise
- an unflagging search for solutions

We‘re only satisfied when you are. That‘s why our effort doesn‘t stop at delivery. We are pleased to support you in coming up with solutions to your challenges - from market roll-out all the way to special customer requirements.

Six simple steps to reach your goal with twice the efficiency: your customised solution with service plus support.

Take advantage of our service and support combination for optimising your design-in process – from the specification stage to component integration.

Product specification → Component selection → Solution configuration



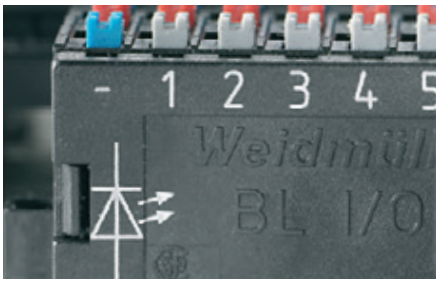
Your starting point:
our comprehensive standard portfolio

The market standard for quality, efficiency and innovation – this is our contribution towards your success.



Your options to upgrade:
the complete accessory portfolio

Supplement your basic components with additional functions.



Freedom of design:
our versatile services portfolio

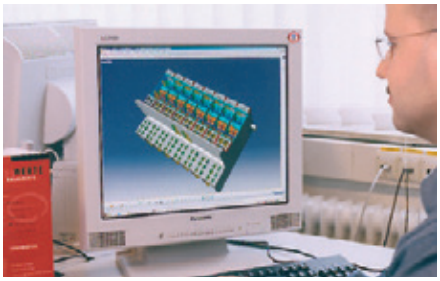
Make your selection a part of your application – by selecting the design, function, construction and process.

Solution verification → Adapting to the application → Solution integration



The basis for decision:
the TARGET-balance

From concept, via model to the prototype: supplement our CAD support and verify your design with our prototype service.



Tailor made:
with individual development

Do you need more than a standard configuration? We will put our heads together to come up with your custom solution, for your individual requirements.

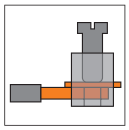


The result:
an exact solution

Whether it's a configuration or modification – take advantage of our services – to make sure your customer comes back - not your equipment.

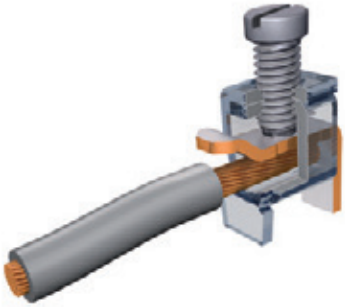
http://galaxy.weidmueller.com

Connection system



Clamping yoke screw connection

The clamping-yoke connection is the most used screw connection in the world. Steel clamping-yokes made of using a stamping and bending process guarantee a vibration proof clamp connection. When the screw on the clamp is tightened, there is a counter effect in the clamping yoke's threaded area which prevents the connection accidentally loosening. As the screw thread is on an inclined plane, there is a force gain created and a very high clamping force is achieved. Weidmüller uses hardened steel with optimal corrosion protection for stability and security and copper alloys in the contact area for good electrical conductivity.

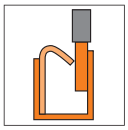


Customer benefits:

- The screw connection guarantees a globally accepted, vibration proof and maintenance free connection.
- A large conductor clamping area is covered.
- The "Wire Ready" technology ensures that the terminal points are fully open at delivery, even after being transported world-wide
- The "Wire Guard" protection mechanism prevents accidental insertion of the wire underneath the clamping area which can be dangerous, it protects against hidden faulty contacts
- The flat clamping yoke also enables the clamping of very small cross-section wires

Field of application:

The standard connection for applications in industrial environments with the highest requirements for reliability even under harsh conditions.



PUSH IN spring connection

The PUSH IN spring connection with direct plug-in technology allows the fastest wiring process: the stripped or prepared wire is simply pushed into the terminal point as far as it will go and the connection is finished. Operating the release lever is only required with flexible wires or to release the connection. The stainless steel spring ensures a high contact force between wire and the tinned copper busbar. A stainless steel cage enclosure prevents subsidence in the contact area. To prevent any drop in clamping force plastic parts were deliberately not used.

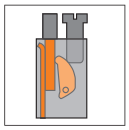


Customer benefits:

- Fast, tool-less wire connection with direct insertion technology
- The stainless steel spring results in a vibration-resistant connection
- Higher resistance to wire pull-out than in a tension clamp system
- Constant conductor clamping force independent of the operator
- Operator error is reduced using a colour-coded and intuitive actuator
- Wire feed and the operation are aligned in the same direction which permits a compact equipment design

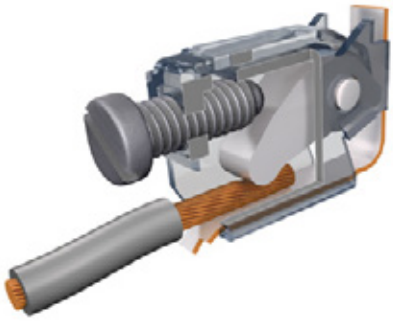
Field of application:

The default choice for operation in the field; it permits speedy wiring and, combined with its small size, its intuitive use is also advantageous even in environments with severe vibration.



TOP screw connection terminal with Pull-Effect

In the traditional case, the screw is always at a right angle to the conductor outlet direction. The TOP connection, however, allows wire insertion and the screw orientation in the same direction. The TOP connection produces the greatest possible packing density in the terminal area. The "pull effect" ensures that the connected wire is pulled in to the clamping point producing a secure contact.

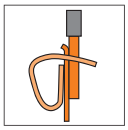


Customer benefits:

- The "pull effect" pulls the wire into the terminal point. Problems with clearance and creepage distances are avoided.
- Wire feed and the operation are aligned in the same direction which permits a compact equipment design
- The minimum installation height results in an extremely high packing density

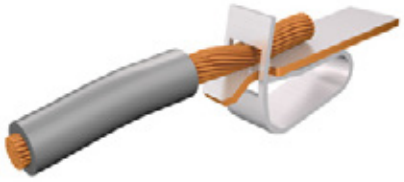
Field of application:

Housing design or installation requirements such as PCB slots, that do not allow a right angled screw operation for reasons of space.



Tension clamp connection

The pre-tensioned tension clamp is made from high quality rust and acid resistant steel, wich pulls the wire against the galvanised copper busbar. This results are a permanent and vibration resistant connection. Operation is simple; the spring is opened with a screwdriver, wire is fed through the wire guide into the spring cage and the screwdriver is removed resulting in a clamped wire. The surface-treated busbar ensures low contact resistance and a high resistance to corrosion.



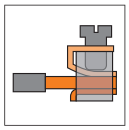
Customer benefits:

- Constant conductor clamping force independent of the operator
- Wide-spread connection technology
- Simple operation using a screwdriver or the integrated release lever

Field of application:

Fast wiring with a constant clamping force, even in environments with severe vibration.

Connection system



Leaf spring screw connection

The leaf spring screw connection is the oldest method on the market for connecting a conductor. The leaf spring prevents damage to the conductor when the clamp screw is tightened. The leaf spring is a simplified connection yet suited for the requirements of building automation connection technology.

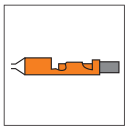


Customer benefits:

- Cost effective alternative to the clamping-yoke connection
- A particularly simple connection solution suited to less demanding environmental conditions.
- High power density in a small footprint

Field of application:

Applications with less demanding environmental conditions and narrow installation space.



Crimp connection

The crimp connection method provides an affordable solution with pre-assembled female plugs that is also appropriate for large batch jobs. The crimp contacts can be attached using hand tools or with a crimping machine for producing large batches. The contacts are then locked into the housing provided. For fully automated processing, taped crimp contacts are available.



Customer benefits:

- Rapid, fully automated pre-assembly of connectors is possible
- Long-lasting, positive connection methods
- Minimal contact resistances
- The conductor connection is extremely thermal shock and vibration resistant

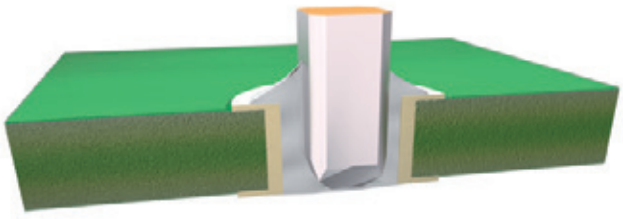
Field of application:

Applications that combine fully automatic and factory oriented processing steps with the actual field wiring. Works in environments with severe vibration or temperature fluctuations.



THR soldered connection

Reflow products in THT (through-hole technology) are the best alternative to using just SMT (surface-mount technology) if higher forces might be operating on the printed-circuit board components. The component design of Weidmüller products is specifically developed for this application and takes into account the requirements in terms of structural shape, temperature stability and processing for THT products from the word „go“.



Customer benefits:

- Special temperature-resistant plastics with a melting point of over 300 °C.
- 2 pin lengths – 1.5 mm for low paste requirements and 3.2 mm for focus on quality assurance.
- Packed in standard cardboard boxes or antistatic belts, for use in pick-and-place machines.
- Comparably higher current-carrying capacity due to the plastic‘s high temperature stability.

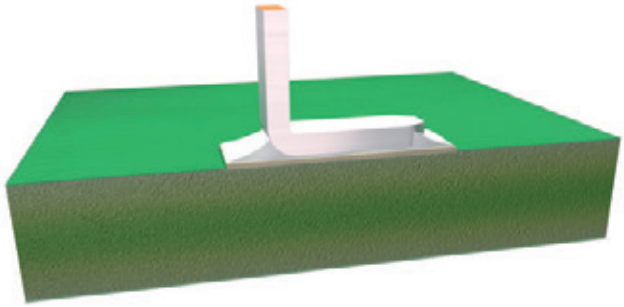
Field of application:

Applications where fast processing and reliable and stable connections to the printed-circuit board are of the essence. Reflow, wave or hand soldering with high temperature requirements.



SMD surface soldering connection

Electronic subassemblies are manufactured economically using surface-mount technology (SMT) with surface-mount devices (SMD). Design measures such as co-planarity and the size/shape of the soldering pads lend electromechanical components a reliable and stable printed-circuit board connection. The structural shape and temperature stability of Weidmüller SMD components are matched to processing in automated surface mounting equipment.

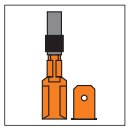


Customer benefits:

- In contrast to THR, no holes are necessary for printed-circuit boards (for instance, with glass ceramic-printed circuit boards).
- Two soldering pads per connecting point boost mechanical stability.
- Standard packaging in the antistatic belt means it can be used in pick-and-place machines.
- High dimensional stability due to plastic with a high level of temperature resistance, with a melting point over 300 °C.

Field of application:

Subassemblies that are exclusively equipped with SMD components and exposed to medium electromechanical loads.



Flat-blade connection

Flat blade connections are a widespread connection method in accordance with DIN 46247. This technology connects pre-assembled, insulated and non-insulated cable-lug sleeves by simply insertion of the cable-lug connector on a standard terminal block.



Customer benefits:

- Fully automated, pre-assembled wire bundles are possible
- Can be used with 2.8 and 6.3 mm flat blade receptacles
- Suitable for insulated and uninsulated versions.

Field of application:

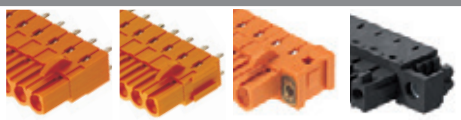
Suitable for applications where pre-assembled cables need to be fitted quickly to the PCB.

Fastening options for OMNIMATE printed-circuit board plug-and-socket connectors

http://www.OMNIMATE.net

Flange options for plug-and-socket connectors

● = recommended
● = possible to a limited extent

				O	G	B	F / FI	LF/LFI/FLF	RF	MF/MSF
				open	closed	dovetail for B block	flange with nut	flange with nut	locking flange without a nut (for release latch)	centre flange with/without nut
			fastening for the printed-circuit board	no	no	with the nut from accessories	optional screw	terminal pin	terminal pin	terminal pin (partially)
			fastening for the strip	pin headers						
										
				socket terminal strips						
										
OMNIMATE signal and power	G	closed	no	●	●	●	●	●	●	
	B	dovetail for B block	via accessories with a screw	●	●	●	●	●		
	F	flange	screw	●	●	●	●	●		
	FI	inverted flange	nut	●	●	●	●	●		
	LH	release gear	no	●	●	●	●	●		
	LR	release latch	bar	●	●	●	●	●	●	
OMNIMATE Power	F	flange	locking hook				●			
	FI/SFI	inverted flange	locking hook/ with screw				●	●		
	MF/MSF	centre flange	locking hook/ with screw							●

female connector



male connector



OMNIMATE Signal
PCB terminals

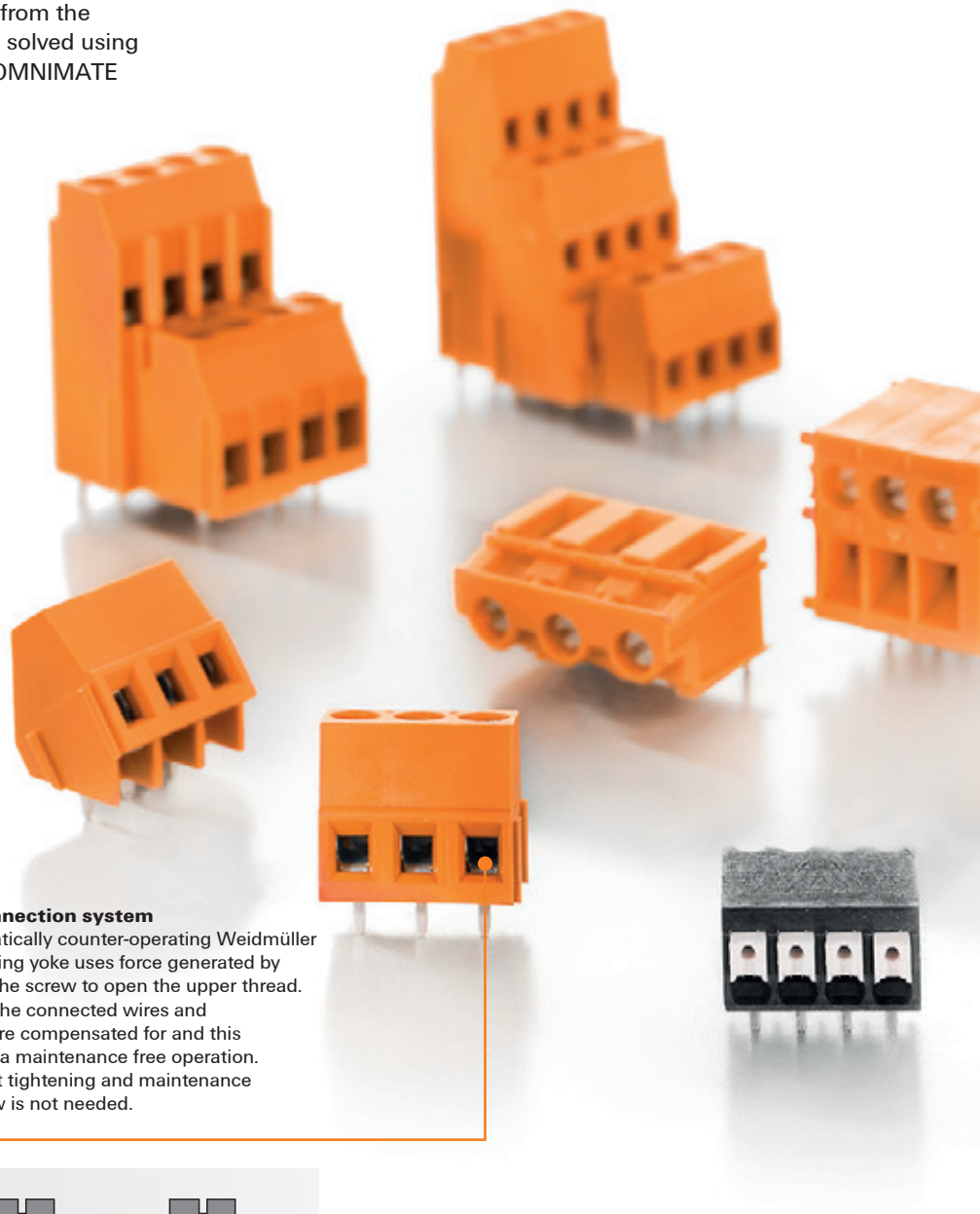
OMNIMATE Signal
PCB terminals

Explanation	B.2
Quick selection	B.8
Clamping yoke screw connection	B.10
TOP screw connection	B.46
Leaf spring screw connection	B.54
PUSH IN spring connection	B.58
Tension clamp connection	B.96

OMNIMATE Signal PCB terminals

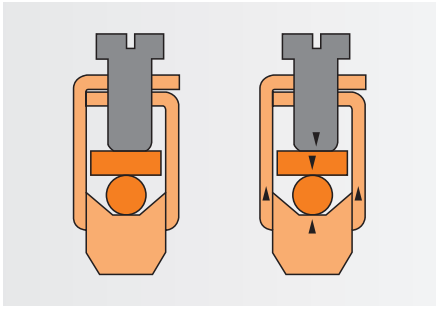
Flexible and versatile available in pitches from 3.5 to 9.52 mm

A wide variety of application requirements from the industrial automation and control fields are solved using the components from the comprehensive OMNIMATE Signal PCB terminal range.
You can find a suitable solution for almost any application, whether in terms of the conductor outlet direction, the pitch, the wire cross-section to be clamped, the required contact density through multi-level varieties or the sort of connection you want.



Standard-compliant integration
Following relevant international guidelines/standards and Weidmüller's laboratory accreditation ensure highest quality standards for use globally.

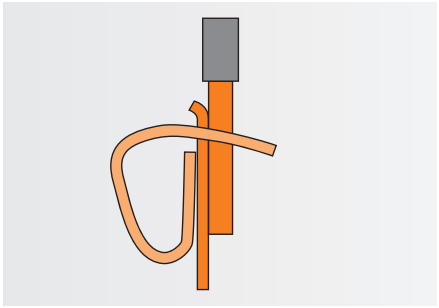
Screw connection system
The automatically counter-operating Weidmüller steel clamping yoke uses force generated by tightening the screw to open the upper thread. Settling of the connected wires and vibrations are compensated for and this guarantees a maintenance free operation. Subsequent tightening and maintenance of the screw is not needed.

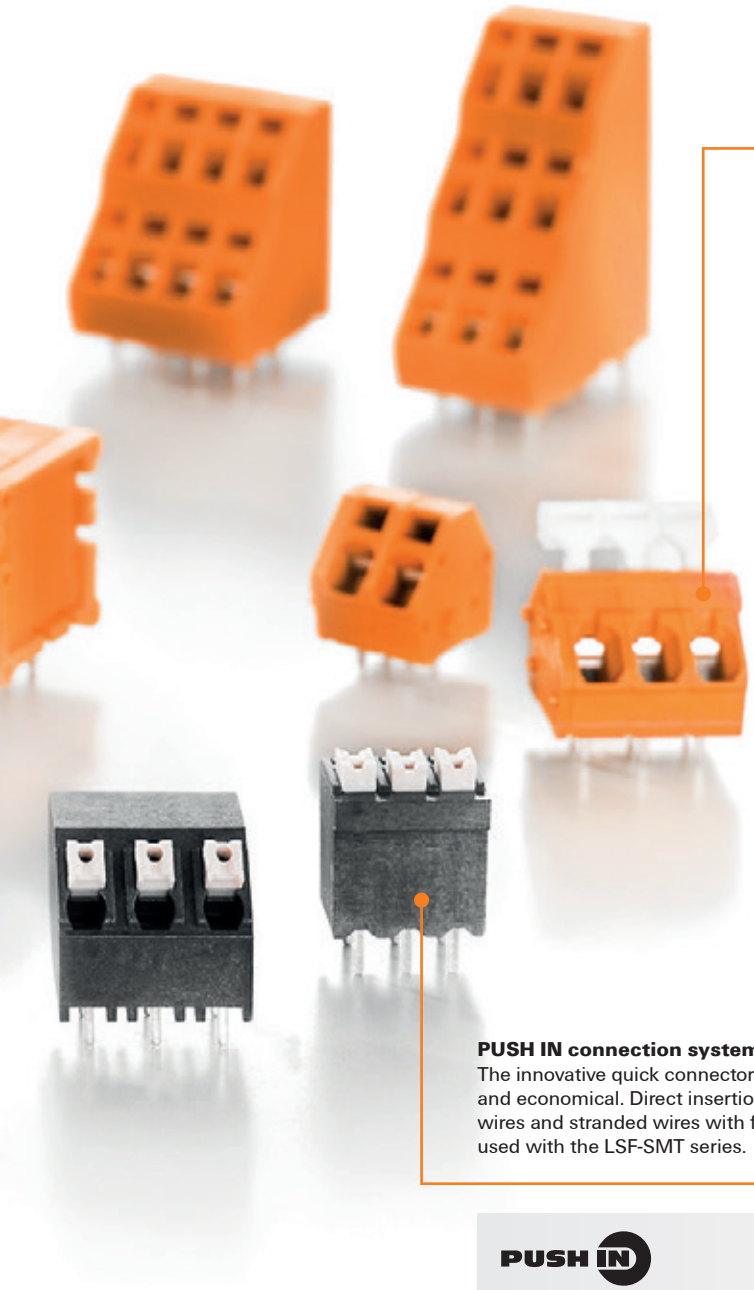


Fire resistance
The high-quality plastics used in many of the product families in the OMNIMATE Signal product line meet the higher fire safety requirements according to the domestic appliance standard IEC 60335-1.

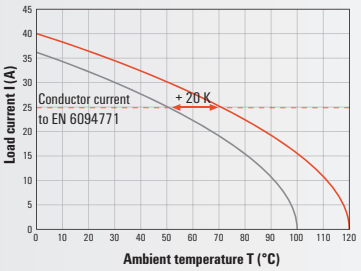
IEC 60335-1

Tension clamp connection system
Simple and fast - the universal screw-less connector with a steel spring. Ideal for PCB installation terminals where it is important that the connections are secure. Single row, with or without an operating lever to open the terminal point with a wire cross-section of up to 2.5 mm². Higher connector density with double, or triple level variations with a pitch of 5.08 mm and clamping range of up to 2,5 mm².



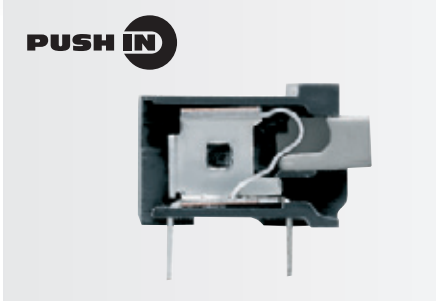


Power reserve for safety
The high performance insulating material WEMID with a continuous operating temperature of 120 °C for higher load currents and ambient temperatures. OMNIMATE Signal PCB terminals already exceed the standard PA working temperature (100 °C) of many product families by 20 °K. This allows more power reserves and increased safety during temperature fluctuations or overloads.



Higher ambient temperatures with the same current (A).

PUSH IN connection system
The innovative quick connector – simple, safe and economical. Direct insertion of solid-core wires and stranded wires with ferrules when used with the LSF-SMT series.

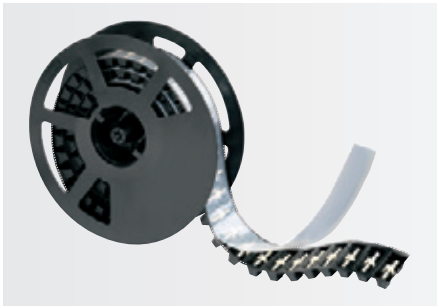


OMNIMATE Signal PUSH IN PCB terminals

Spring connection LSF-SMT is available in pitches from 3.5 to 7.62 mm

The innovative quick connector - simple, safe and economical.
Its compact dimensions and surprising performance of 17.5 A / 800 V (IEC) means that the LSF-SMT meets the market push for miniaturisation. The OMNIMATE Signal PCB terminals LSF-SMT offer a wide pitch range from 3.5 to 7.62 mm, in various conductor outlet directions (90°/135°/180°) to the PCB for connections of wire cross-sections of up to 1.5 mm². The use of high-quality materials guarantees maximum cost effectiveness in the manufacturing of electronic assemblies.

SMT/THR process compatible
The compact design and packaging (tape-on-reel) for automatic pick and place systems of SMT production lines reduces production costs of electronic components even further.

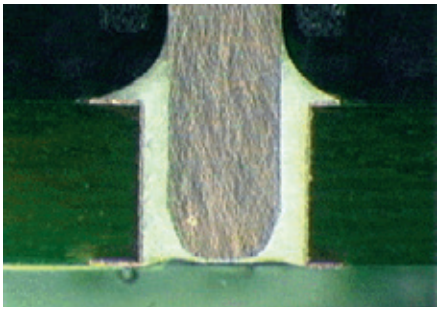




Form stability for the reflow soldering process
The high-temperature-resistant insulating material LCP used in the LSF-SMT range, is characterised by its form and dimensional stability. Due to low moisture absorption, the LSF-SMT can be immediately used in the Reflow THR soldering process without an extra drying phase. The uninterrupted production process from automated assembly to soldering is achieved saving you time and money.



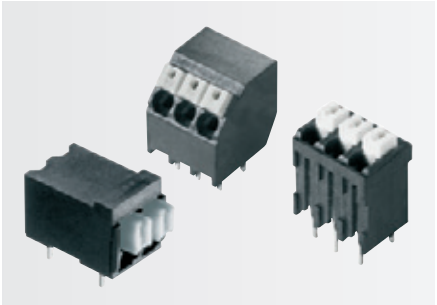
Flexible processing
With a pin length of 3.5 mm for hand and wave soldering, or 1.5 mm for reflow soldering (THR), there are standard models available even for double sided assembled PCBs.

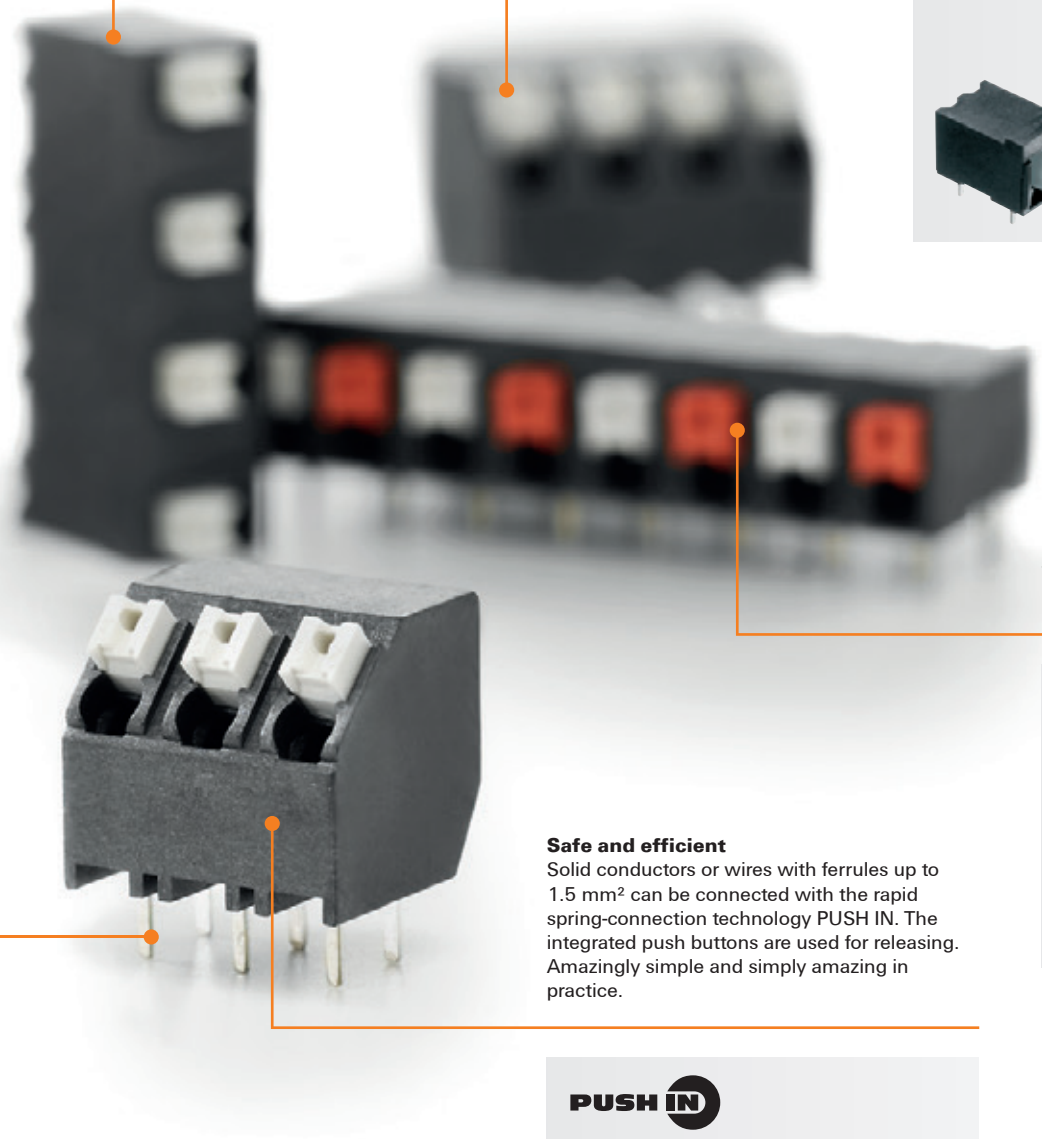


Fire resistance
The high-quality plastics used meet the higher fire safety requirements according to the domestic appliance standard IEC 60335-1.

IEC 60335-1

Design flexibility
With the conductor outlet directions of 90°/135° and 180° over all pitches from 3.5 to 7.62 mm, all design options are possible.



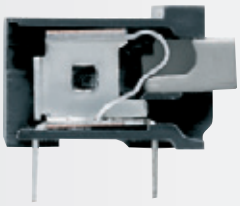


Marking and mapping
Terminal points can be distinctively marked with coloured push buttons or individual printing.



Safe and efficient
Solid conductors or wires with ferrules up to 1.5 mm² can be connected with the rapid spring-connection technology PUSH IN. The integrated push buttons are used for releasing. Amazingly simple and simply amazing in practice.

PUSH IN

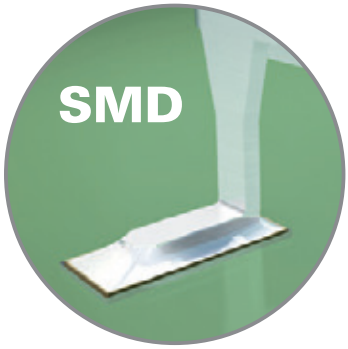


OMNIMATE Signal – LSF-SMD 3.5/180

„PUSH IN"-PCB terminals for SMD assembly

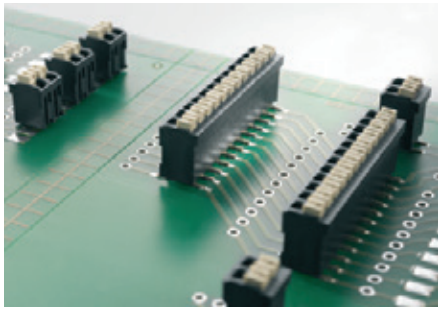
PUSH IN

The new LSF-SMD meets the demands for fully automatic PCB assembling as a surface-mounting device (SMD).
Two SMD solder pads per pole ensures a high mechanical stability.
It is now possible for applications on glass based, ceramic based and aluminium compound based PCB´s to also take advantage of "PUSH IN" technology.
The existing portfolio of Weidmüller's reflow compatible LSF-SMT terminals with THR soldering has been expanded to include a real SMD variant.
The 3.5 mm pitch and the wire outlet direction of 180° allow a high packing density with a maximum wire cross section of 1.5 mm².

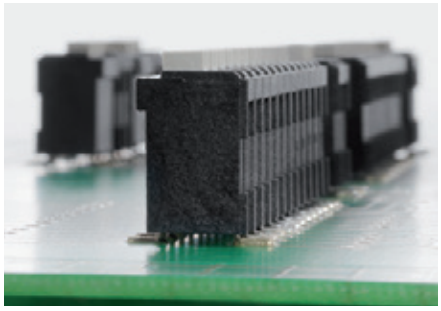


Order a sample
Let yourself be convinced by the LSF-SMD features. Request a free sample using.

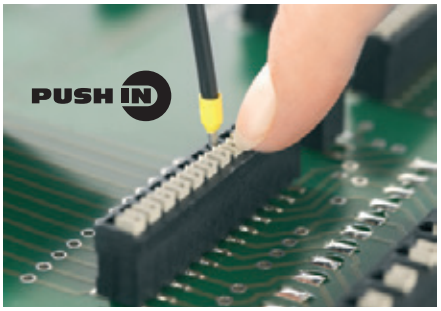
Reliable processing
The LCP causes no formation of blisters and no predrying is required (MSL 1). Direct assembly with the SMT process is possible.



Stable soldering connections
With two solder pins per pole, the LSF-SMD PCB terminal is adequately attached to the circuit board and does not need an additional mounting flange.

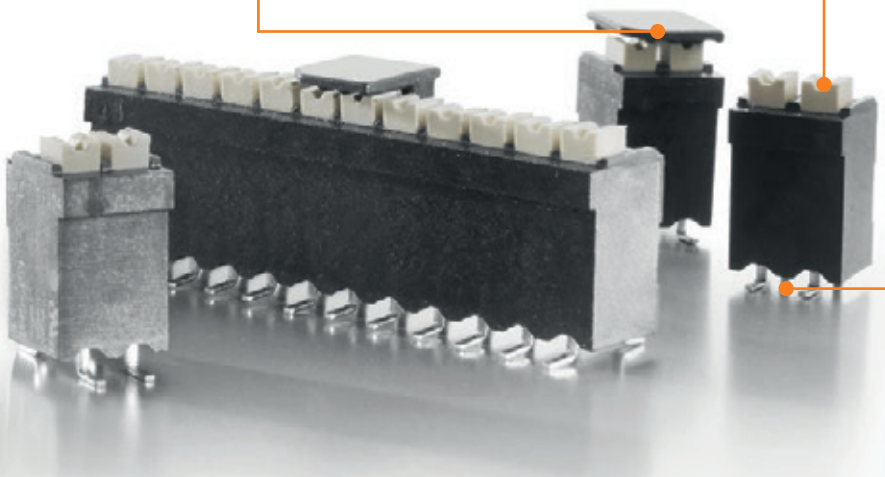


Fast wire connection method
Safe contact connections up to 1.5 mm² with no tools needed: made possible by the proven "PUSH IN" connection system. The integrated release button is used to disconnect the cable in a simple and quick manner.

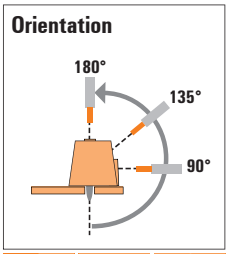


Efficient assembly
An efficient automatic assembly process is supported by the tape on reel packaging in standard tape widths. The optimised Pick and Place pads ensure that the pick and place process is safe and reliable.

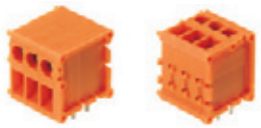
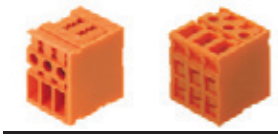


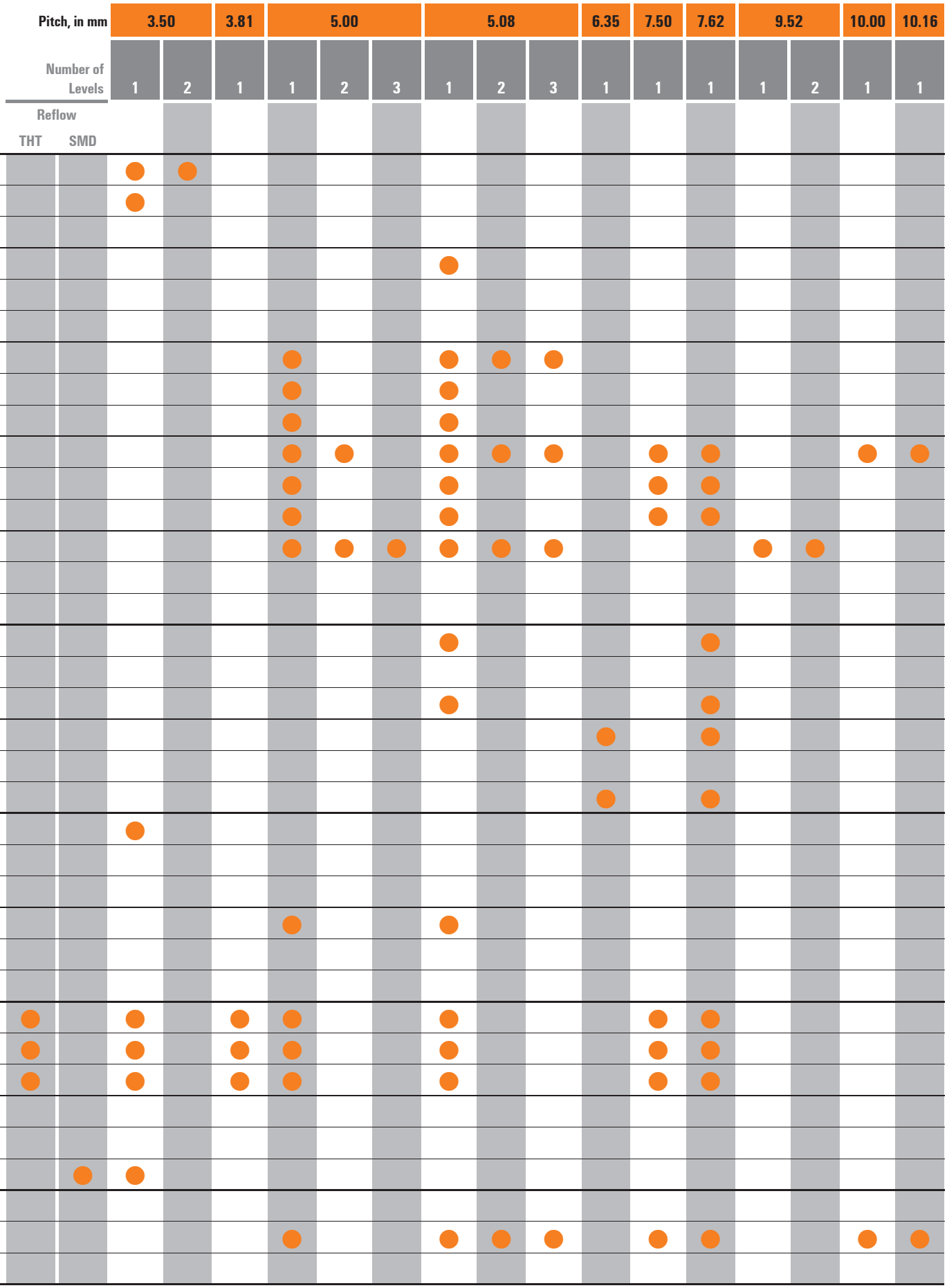


http://www.OMNIMATE.net

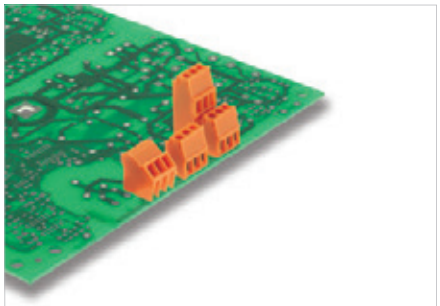


PCB terminals

Type of connection		Clamping range		Type	IEC / UL	90°	135°	180°
Screw	Clamping yoke	≤ 1.5 mm²		LM	IEC: 320 V/16 A/0.5 - 1.5 mm² UL: 300 V/10 A/AWG 28 - 14	●		
							●	
				LS	IEC: 630 V/17.5 A/0.08 - 1.5 mm² UL: 300 V/15 A/AWG 28 - 14	●		
		≤ 2.5 mm²		LM	IEC: 630 V/17.5 A/0.2 - 2.5 mm² UL: 300 V/15 A/AWG 24 - 14	●		
							●	
		≤ 6.0 mm²		LP	IEC: 500 V/32 A/0.5 - 6 mm² UL: 300 V/20 A/AWG 26 - 12	●		
							●	
				LL	IEC: 500 V/32.5 A/0.5 - 6 mm² UL: 300 V/20 A/AWG 28 - 12	●		
	TOP	≤ 2.5 mm²		TOP1.5GS	IEC: 630 V/24 A/0.5 - 2.5 mm² UL: 300 V/10 A/AWG 26 - 14	●		
								●
		≤ 6.0 mm²		TOP4GS	IEC: 320 V/32 A/0.5 - 6 mm² UL: 300 V/30 A/AWG 26 - 10	●		
								●
	Leaf spring	≤ 1.5 mm²		PS	IEC: 320 V/17.5 A/0.2 - 1.5 mm² UL: 300 V/10 A/AWG 28 -16	●		
		≤ 2.5 mm²		PM	IEC: 600 V/24 A/0.13 - 2.5 mm² UL: 300 V/15 A/AWG 26 -14	●		
Spring	PUSH IN	≤ 1.5 mm²		LSF-SMT	IEC: 320 V/17.5 A/0.2 -1.5 mm² UL: 300 V/12 A/AWG 24 -16	●		
							●	
				LSF-SMD	IEC: 320 V/17.5 A/0.2 - 1.5 mm² UL: 300 V/12 A/AWG 24 -16			
								●
	Tension clamp	≤ 2.5 mm²		LMZF	IEC: 630 V/24 A/0.13 - 2.5 mm² UL: 300 V/15 A/AWG 26 -14		●	


Pitch, in mm
3.50
3.81
5.00
5.08
6.35
7.50
7.62
9.52
10.00
10.16
Number of Levels
1
2
1
1
2
3
1
2
3
1
1
1
1
2
1
1
Reflow
THT
SMD

LM 3.5



Small, compact PCB terminal with the proven clamping-yoke screw connection in 3.5 mm pitch, suitable for wire cross-sections up to 1.5 mm².

- Wire outlet direction: 90° and 135° version.
- 2- and 3-pole block construction can be aligned together for higher pole counts.

Product data

IEC: 320 V / 16 A / 0.5 - 1.5 mm²
UL: 300 V / 10 A / AWG 28 - 14

For additional articles and information, refer to catalog.weidmueller.com

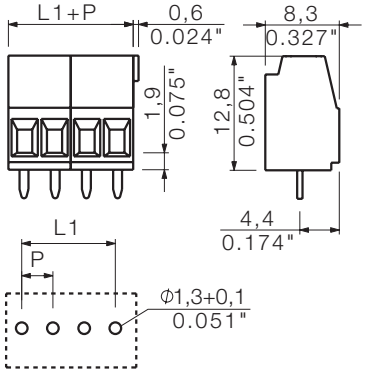
Note:

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Max. outer diameter of the conductor: 2.9 mm
- Wire end ferrule with plastic collar to DIN 46228/4
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

LM 3.5/../90



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm²			
Solid core H05(07) V-U	**mm²**			
Stranded H07 V-R				
Flexible H05(07) V-K	mm²			
Flexible with ferrule	mm²			
Ferrule with plastic collar	mm²			
Stripping length	mm			
Screwdriver blade	mm			
According to norm				
Tightening torque range	Nm			
Rated current, max.	**A**	**16**		**14**
At ambient temperature		20°C		40°C
For conductor cross-section	mm²		1.5	
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	**V**	**160**	**160**	**320**
Rated impulse voltage	kV	2.5	2.5	2.5
UL / CUL (Use Group)		**B**	**C**	**D**
Rated voltage	**V**	**300**		**300**
Rated current	**A**	**10**		**10**
AWG conductor	**AWG**		**28-14**	
CSA (Use Group)		**B**	**C**	**D**
Rated voltage	V	300		300
Rated current	A	10		10
AWG conductor	AWG		28-14	
General data				
Type of insulation material			PA	
UL 94 flammability rating			V-2	
Contact base material			Copper alloy	
Material of contact surface			tinned	
Pin dimensions = d	mm		1.0 x 0.6	
Solder eyelet Ø = D	mm		1.3	
Solder eyelet Ø tolerance	mm		+ 0,1	

Accessories

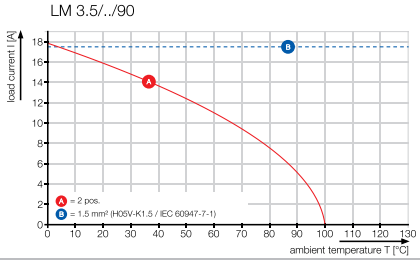
Note: Refer to the Accessories chapter for additional accessories.

Screwdriver		Order No.
	SDIS 0.4X2.5X75	9008370000
	SDS 0.4X2.5X75	9009030000

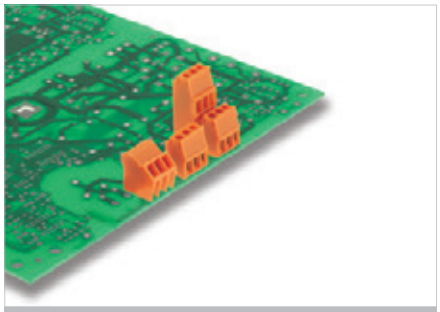
Ordering data

Solder pin length				3.2 mm
Colour				Orange
Pitch	**3.50 mm**			
Pol.	**L1**	**(inch)**	**Qty.**	**Order No.**
2	3.50	0.138	100	1667750000
3	7.00	0.276	100	1667770000
4	10.50	0.413	100	1845040000
5	14.00	0.551	100	1720250000
6	17.50	0.689	50	1845050000
7	21.00	0.827	50	1845060000
8	24.50	0.965	50	1845070000
9	28.00	1.102	50	1845080000
10	31.50	1.240	50	1845090000
11	35.00	1.378	50	1845100000
12	38.50	1.516	50	1845110000

Representative deratings curve



LM 3.5



Small, compact PCB terminal with the proven clamping-yoke screw connection in 3.5 mm pitch, suitable for wire cross-sections up to 1.5 mm².

- Wire outlet direction: 90° and 135° version.
- 2- and 3-pole block construction can be aligned together for higher pole counts.

Product data

IEC: 320 V / 16 A / 0.5 - 1.5 mm²
UL: 300 V / 10 A / AWG 28 - 14

For additional articles and information, refer to catalog.weidmueller.com

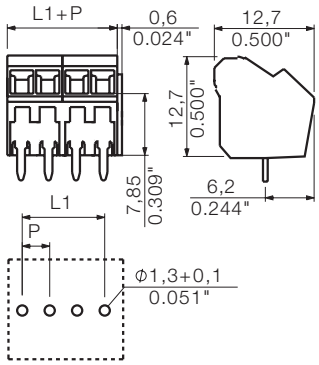
Note:

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Max. outer diameter of the conductor: 2.9 mm
- Wire end ferrule with plastic collar to DIN 46228/4
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

LM 3.5/../135



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm²	0.08...2.08		
Solid core H05(07) V-U	**mm²**	**0.5...1.5**		
Stranded H07 V-R				
Flexible H05(07) V-K	mm²	0.5...1.5		
Flexible with ferrule	mm²			
Ferrule with plastic collar	mm²	0.5...0.75		
Stripping length	mm	5		
Screwdriver blade	mm	0.4 x 2.5		
According to norm		DIN 5264		
Tightening torque range	Nm	0.2...0.25		
Rated current, max.	**A**	**16**		**14**
At ambient temperature		20°C		40°C
For conductor cross-section	mm²	1.5		
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	**V**	**160**	**160**	**320**
Rated impulse voltage	kV	2.5	2.5	2.5
UL / CUL (Use Group)		**B**	**C**	**D**
Rated voltage	**V**	**300**		**300**
Rated current	**A**	**10**		**10**
AWG conductor	**AWG**	**28-14**		
CSA (Use Group)		**B**	**C**	**D**
Rated voltage	V	300		300
Rated current	A	10		10
AWG conductor	AWG	28-14		
General data				
Type of insulation material		PA		
UL 94 flammability rating		V-2		
Contact base material		Copper alloy		
Material of contact surface		tinned		
Pin dimensions = d	mm	1.0 x 0.6		
Solder eyelet Ø = D	mm	1.3		
Solder eyelet Ø tolerance	mm	+ 0,1		

Accessories

Note: Refer to the Accessories chapter for additional accessories.

Screwdriver		Order No.
	SDIS 0.4X2.5X75	9008370000
	SDS 0.4X2.5X75	9009030000

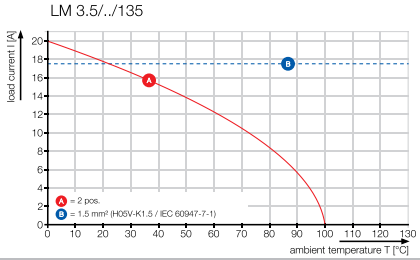
Ordering data

Solder pin length 3.2 mm
Colour Orange

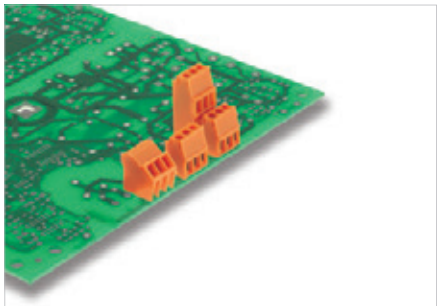
Pitch 3.50 mm

Pol.	L1	(inch)	Qty.	Order No.
2	3.50	0.138	100	1714980000
3	7.00	0.276	100	1715020000
4	10.50	0.413	100	1845220000
5	14.00	0.551	50	1845230000
6	17.50	0.689	50	1845240000
7	21.00	0.827	50	1845250000
8	24.50	0.965	50	1845260000
9	28.00	1.102	50	1845270000
10	31.50	1.240	50	1845280000
11	35.00	1.378	50	1845290000
12	38.50	1.516	50	1845300000

Representative deratings curve



LM 3.5



Small, compact PCB terminal with the proven clamping-yoke screw connection in 3.5 mm pitch, suitable for wire cross-sections up to 1.5 mm².

- Wire outlet direction: 90° and 135° version.
- 2- and 3-pole block construction can be aligned together for higher pole counts.

Product data

IEC: 320 V / 13 A / 0.5 - 1.5 mm²
UL: 300 V / 10 A / AWG 28 - 14

For additional articles and information, refer to catalog.weidmueller.com

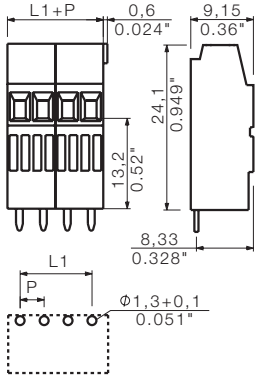
Note:

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Max. outer diameter of the conductor: 2.9 mm
- Wire end ferrule with plastic collar to DIN 46228/4
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

LM1N 3.5/../90



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm²	0.08...2.08		
Solid core H05(07) V-U	**mm²**	**0.5...1.5**		
Stranded H07 V-R				
Flexible H05(07) V-K	mm²	0.5...1.5		
Flexible with ferrule	mm²			
Ferrule with plastic collar	mm²	0.5...0.75		
Stripping length	mm	5		
Screwdriver blade	mm	0.4 x 2.5		
According to norm		DIN 5264		
Tightening torque range	Nm	0.2...0.25		
Rated current, max.	**A**	**13**		**11**
At ambient temperature		20°C		40°C
For conductor cross-section	mm²		1.5	
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	**V**	**160**	**160**	**320**
Rated impulse voltage	kV	2.5	2.5	2.5
UL / CUL (Use Group)		**B**	**C**	**D**
Rated voltage	**V**	**300**		**300**
Rated current	**A**	**10**		**10**
AWG conductor	**AWG**		**28-14**	
CSA (Use Group)		**B**	**C**	**D**
Rated voltage	V	300		300
Rated current	A	10		10
AWG conductor	AWG		28-14	
General data				
Type of insulation material			PA	
UL 94 flammability rating			V-2	
Contact base material			Copper alloy	
Material of contact surface			tinned	
Pin dimensions = d	mm		1.0 x 0.6	
Solder eyelet Ø = D	mm		1.3	
Solder eyelet Ø tolerance	mm		+ 0,1	

Accessories

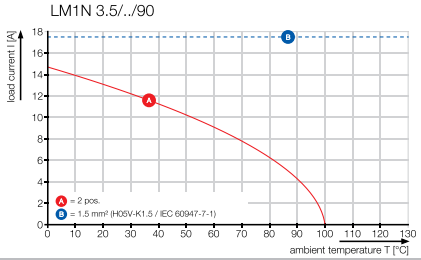
Note: Refer to the Accessories chapter for additional accessories.

Screwdriver		Order No.
	SDIS 0.4X2.5X75	9008370000
	SDS 0.4X2.5X75	9009030000

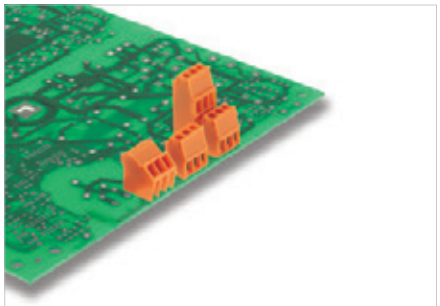
Ordering data

Solder pin length				3.2 mm
Colour				Orange
Pitch	**3.50 mm**			
Pol.	**L1**	**(inch)**	**Qty.**	**Order No.**
2	3.50	0.138	100	1716710000
3	7.00	0.276	100	1716720000

Representative deratings curve



LM 3.5



Small, compact PCB terminal with the proven clamping-yoke screw connection in 3.5 mm pitch, suitable for wire cross-sections up to 1.5 mm².

- Wire outlet direction: 90° and 135° version.
- 2- and 3-pole block construction can be aligned together for higher pole counts.

Product data

IEC: 320 V / 13 A / 0.5 - 1.5 mm²
UL: 300 V / 10 A / AWG 28 - 14

For additional articles and information, refer to catalog.weidmueller.com

Note:

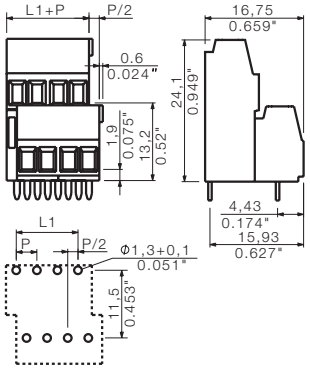
- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Max. outer diameter of the conductor: 2.9 mm
- Wire end ferrule with plastic collar to DIN 46228/4
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

LM2N 3.5/../90

Multi level



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm²	0.08...2.08		
Solid core H05(07) V-U	**mm²**	**0.5...1.5**		
Stranded H07 V-R				
Flexible H05(07) V-K	mm²	0.5...1.5		
Flexible with ferrule	mm²			
Ferrule with plastic collar	mm²	0.5...0.75		
Stripping length	mm	5		
Screwdriver blade	mm	0.4 x 2.5		
According to norm		DIN 5264		
Tightening torque range	Nm	0.2...0.2		
Rated current, max.	**A**	**13**		**11**
At ambient temperature		20°C		40°C
For conductor cross-section	mm²		1.5	
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	**V**	**160**	**160**	**320**
Rated impulse voltage	kV	2.5	2.5	2.5
UL / CUL (Use Group)		**B**	**C**	**D**
Rated voltage	**V**	**300**		**300**
Rated current	**A**	**10**		**10**
AWG conductor	**AWG**		**28-14**	
CSA (Use Group)		**B**	**C**	**D**
Rated voltage	V	300		300
Rated current	A	10		10
AWG conductor	AWG		28-14	
General data				
Type of insulation material			PA	
UL 94 flammability rating			V-2	
Contact base material			Copper alloy	
Material of contact surface			tinned	
Pin dimensions = d	mm		1.0 x 0.6	
Solder eyelet Ø = D	mm		1.3	
Solder eyelet Ø tolerance	mm		+ 0,1	

Accessories

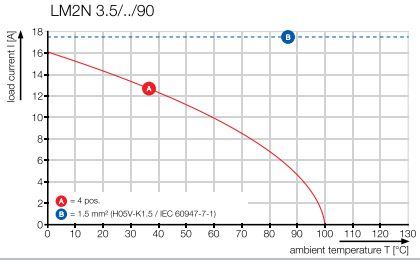
Note: Refer to the Accessories chapter for additional accessories.

Screwdriver		Order No.
	SDIS 0.4X2.5X75	9008370000
	SDS 0.4X2.5X75	9009030000

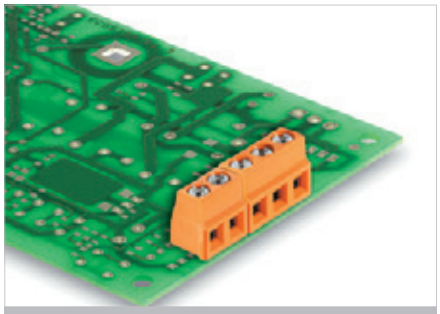
Ordering data

Solder pin length				3.2 mm
Colour				Orange
Pitch	**3.50 mm**			
Pol.	**L1**	**(inch)**	**Qty.**	**Order No.**
4	3.50	0.138	100	1703700000
6	7.00	0.276	100	1703710000
8	10.50	0.413	100	1703720000
10	14.00	0.551	50	1703730000
12	17.50	0.689	50	1703740000
14	21.00	0.827	50	1703750000
16	24.50	0.965	50	1703760000
18	28.00	1.102	50	1703770000
20	31.50	1.240	50	1703780000
22	35.00	1.378	25	1703790000
24	38.50	1.516	25	1703800000
26	42.00	1.654	25	1703810000
28	45.50	1.791	25	1703820000
30	49.00	1.929	25	1703830000
32	52.50	2.067	25	1703840000
34	56.00	2.205	25	1703850000
36	59.50	2.343	25	1703860000
38	63.00	2.480	25	1703870000
40	66.50	2.618	25	1703880000
42	70.00	2.756	20	1703890000
44	73.50	2.894	20	1703900000
46	77.00	3.031	20	1703910000
48	80.50	3.169	20	1703920000

Representative deratings curve



LS 5.08



Small, compact PCB terminal with our proven clamping-yoke screw connection in 5.08 mm pitch, suitable for wire cross-sections up to 1.5 mm².

- Increased derating reserves because WEMID insulating material is used.
- Wire outlet direction of 90°.
- 2- and 3-pole block construction can be aligned together for higher pole counts.

Product data

IEC: 630 V / 17.5 A / 0.08 - 1.5 mm²
UL: 300 V / 15 A / AWG 28 - 14

For additional articles and information, refer to catalog.weidmueller.com

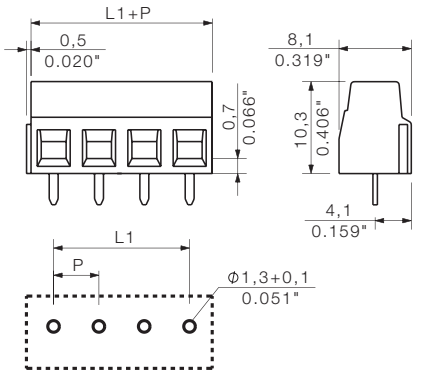
Note:

- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

LS 5.08/../90



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm²	0.08...1.5		
Solid core H05(07) V-U	**mm²**	**0.08...1.5**		
Stranded H07 V-R				
Flexible H05(07) V-K	mm²	0.08...1.5		
Flexible with ferrule	mm²	0.25...1.5		
Ferrule with plastic collar	mm²	0.25...1.5		
Stripping length	mm	6		
Screwdriver blade	mm	0.6 x 3.5		
According to norm		DIN 5264		
Tightening torque range	Nm	0.4...0.5		
Rated current, max.	**A**	**17.5**		**17.5**
At ambient temperature		20°C		40°C
For conductor cross-section	mm²		1.5	
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	**V**	**250**	**320**	**630**
Rated impulse voltage	kV	4	4	4
UL / CUL (Use Group)		**B**	**C**	**D**
Rated voltage	**V**	**300**		**300**
Rated current	**A**	**15**		**10**
AWG conductor	**AWG**		**28-14**	
CSA (Use Group)		**B**	**C**	**D**
Rated voltage	V	300		300
Rated current	A	20		10
AWG conductor	AWG		28-14	
General data				
Type of insulation material		Wemid (PA)		
UL 94 flammability rating		V-0		
Contact base material		Copper alloy		
Material of contact surface		tinned		
Pin dimensions = d	mm	0.5 x 1.0		
Solder eyelet Ø = D	mm	1.3		
Solder eyelet Ø tolerance	mm	+ 0,1		

Accessories

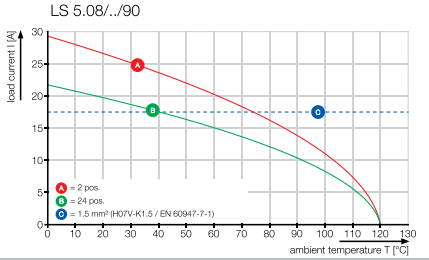
Note: Refer to the Accessories chapter for additional accessories.

Screwdriver		Order No.
	SDIS 0.6X3.5X100	9008390000
	SDS 0.6X3.5X100	9008330000

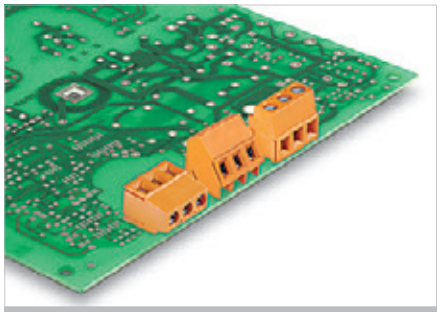
Ordering data

Solder pin length				3.5 mm
Colour				Orange
Pitch	**5.08 mm**			
Pol.	**L1**	**(inch)**	**Qty.**	**Order No.**
2	5.08	0.200	100	1912520000
3	10.16	0.400	100	1912530000
4	15.24	0.600	100	1912540000
5	20.32	0.800	100	1912560000
6	25.40	1.000	100	1912570000
7	30.48	1.200	100	1912850000
8	35.56	1.400	100	1912890000
9	40.64	1.600	100	1912900000
10	45.72	1.800	100	1912910000
11	50.80	2.000	100	1912930000
12	55.88	2.200	100	1912940000

Representative deratings curve



LM 5.00



Single-row PCB terminal with our proven clamping-yoke screw connection in 5.00 mm pitch, suitable for wire cross-sections up to 2.5 mm².

- Increased derating reserves because WEMID insulating material is used.
- Wire outlet direction: 90°, 135° and 180° versions.
- 2- and 3-pole block construction can be aligned together for higher pole counts.

Product data

IEC: 630 V / 17.5 A / 0.2 - 2.5 mm²
UL: 300 V / 15 A / AWG 24 - 14

For additional articles and information, refer to catalog.weidmueller.com

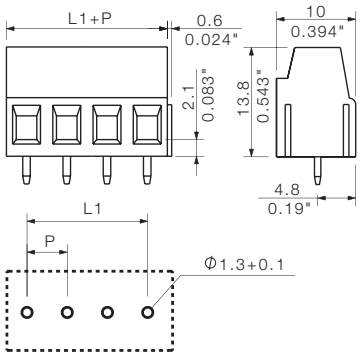
Note:

- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

LM 5.00/../90



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm²	0.2...2.5		
Solid core H05(07) V-U	**mm²**	**0.2...2.5**		
Stranded H07 V-R				
Flexible H05(07) V-K	mm²	0.2...1.5		
Flexible with ferrule	mm²	0.25...1.5		
Ferrule with plastic collar	mm²	0.25...1.5		
Stripping length	mm	6		
Screwdriver blade	mm	0.6 x 3.5		
According to norm		DIN 5264		
Tightening torque range	Nm	0.4...0.5		
Rated current, max.	**A**	**17.5**		**17.5**
At ambient temperature		20°C		40°C
For conductor cross-section	mm²	1.5		
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	**V**	**250**	**320**	**630**
Rated impulse voltage	kV	4	4	4
UL / CUL (Use Group)		**B**	**C**	**D**
Rated voltage	**V**	**300**		**300**
Rated current	**A**	**15**		**10**
AWG conductor	**AWG**		**24-14**	
CSA (Use Group)		**B**	**C**	**D**
Rated voltage	V	300		300
Rated current	A	18		10
AWG conductor	AWG		24-14	
General data				
Type of insulation material		Wemid (PA)		
UL 94 flammability rating		V-0		
Contact base material		Copper alloy		
Material of contact surface		tinned		
Pin dimensions = d	mm	0.95 x 0.8		
Solder eyelet Ø = D	mm	1.3		
Solder eyelet Ø tolerance	mm	+ 0,1		

Accessories

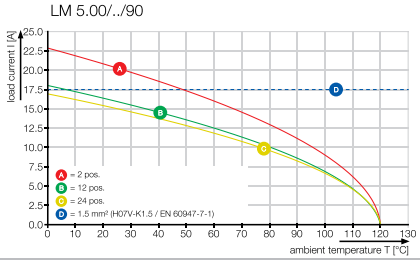
Note: Refer to the Accessories chapter for additional accessories.

Screwdriver		Order No.
	SDIS 0.6X3.5X100	9008390000
	SDS 0.6X3.5X100	9008330000

Ordering data

Solder pin length				3.5 mm
Colour				Orange
Pitch	**5.00 mm**			
Pol.	**L1**	**(inch)**	**Qty.**	**Order No.**
2	5.00	0.197	500	1715310000
3	10.00	0.394	500	1715320000
4	15.00	0.591	50	1821490000
5	20.00	0.787	50	1845310000
6	25.00	0.984	50	1845320000
7	30.00	1.181	50	1845330000
8	35.00	1.378	50	1845340000
9	40.00	1.575	50	1845350000
10	45.00	1.772	50	1845360000
11	50.00	1.969	50	1845370000
12	55.00	2.165	50	1845380000

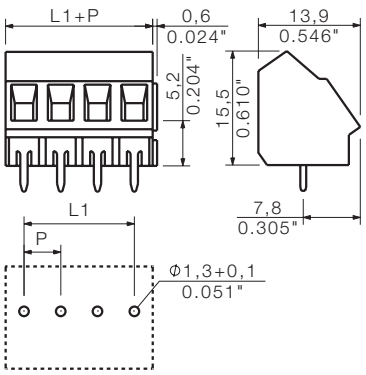
Representative deratings curve



LM 5.00/../135



Dimensioned drawing



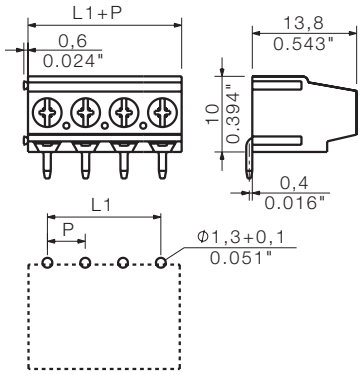
Ordering data

Solder pin length				3.5 mm
Colour				Orange
Pitch	**5.00 mm**			
Pol.	L1	(inch)	**Qty.**	**Order No.**
2	5.00	0.197	500	**1715350000**
3	10.00	0.394	500	**1715360000**
4	15.00	0.591	50	**1845390000**
5	20.00	0.787	50	**1845400000**
6	25.00	0.984	50	**1845410000**
7	30.00	1.181	50	**1845420000**
8	35.00	1.378	50	**1845430000**
9	40.00	1.575	50	**1845440000**
10	45.00	1.772	50	**1845450000**
11	50.00	1.969	50	**1845460000**
12	55.00	2.165	50	**1845470000**

LM 5.00/../180



Dimensioned drawing

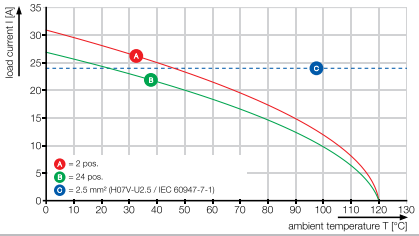


Ordering data

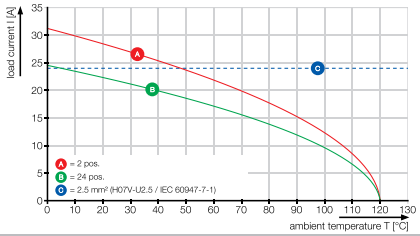
Solder pin length				3.5 mm
Colour				Orange
Pitch	**5.00 mm**			
Pol.	L1	(inch)	**Qty.**	**Order No.**
2	5.00	0.197	500	**1715330000**
3	10.00	0.394	500	**1715340000**

Additional deratings curves

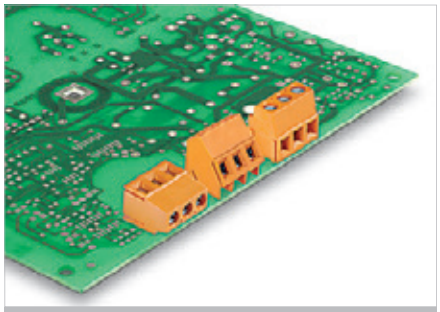
LM 5.00/../135



LM 5.00/../180



LM 5.08



Single-row PCB terminal with our proven clamping-yoke screw connection in 5.08 mm pitch, suitable for wire cross-sections up to 2.5 mm².

- Increased derating reserves because WEMID insulating material is used.
- Wire outlet direction: 90°, 135° and 180° versions.
- 2- and 3-pole block construction can be aligned together for higher pole counts.

Product data

IEC: 630 V / 17.5 A / 0.2 - 2.5 mm²
UL: 300 V / 15 A / AWG 24 - 14

For additional articles and information, refer to catalog.weidmueller.com

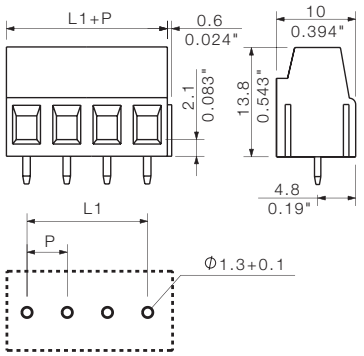
Note:

- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

LM 5.08/../90



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm²	0.2...2.5		
Solid core H05(07) V-U	**mm²**	**0.2...2.5**		
Stranded H07 V-R				
Flexible H05(07) V-K	mm²	0.2...1.5		
Flexible with ferrule	mm²	0.25...1.5		
Ferrule with plastic collar	mm²	0.25...1.5		
Stripping length	mm	6		
Screwdriver blade	mm	0.6 x 3.5		
According to norm		DIN 5264		
Tightening torque range	Nm	0.4...0.5		
Rated current, max.	**A**	**17.5**		**17.5**
At ambient temperature		20°C		40°C
For conductor cross-section	mm²	1.5		
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	**V**	**250**	**320**	**630**
Rated impulse voltage	kV	4	4	4
UL / CUL (Use Group)		**B**	**C**	**D**
Rated voltage	**V**	**300**		**300**
Rated current	**A**	**15**		**10**
AWG conductor	**AWG**		**24-14**	
CSA (Use Group)		**B**	**C**	**D**
Rated voltage	V	300		300
Rated current	A	18		10
AWG conductor	AWG		24-14	
General data				
Type of insulation material		Wemid (PA)		
UL 94 flammability rating		V-0		
Contact base material		Copper alloy		
Material of contact surface		tinned		
Pin dimensions = d	mm	0.95 x 0.8		
Solder eyelet Ø = D	mm	1.3		
Solder eyelet Ø tolerance	mm	+ 0,1		

Accessories

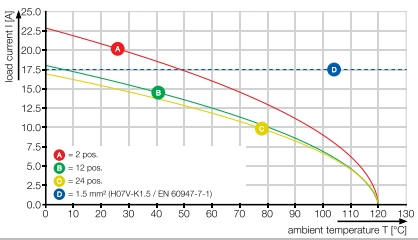
Note: Refer to the Accessories chapter for additional accessories.

Screwdriver		Order No.
	SDIS 0.6X3.5X100	9008390000
	SDS 0.6X3.5X100	9008330000

Ordering data

Solder pin length				3.5 mm
Colour				Orange
Pitch	**5.08 mm**			
Pol.	**L1**	**(inch)**	**Qty.**	**Order No.**
2	5.08	0.200	500	1716080000
3	10.16	0.400	500	1716090000
4	15.24	0.600	50	9994130000
5	20.32	0.800	50	9994140000
6	25.40	1.000	50	9994150000
7	30.48	1.200	50	9994160000
8	35.56	1.400	50	9994170000
9	40.64	1.600	50	9994180000
10	45.72	1.800	50	9994190000
11	50.80	2.000	50	9994200000
12	55.88	2.200	50	9994210000
13	60.96	2.400	50	9994220000
14	66.04	2.600	50	9994230000
15	71.12	2.800	50	9994240000
16	76.20	3.000	50	9994250000
17	81.28	3.200	50	9994260000
18	86.36	3.400	50	9994270000
19	91.44	3.600	50	9994280000
20	96.52	3.800	50	9994290000
21	101.60	4.000	50	9994300000
22	106.68	4.200	50	9994310000
23	111.76	4.400	50	9994320000
24	116.84	4.600	50	9994330000

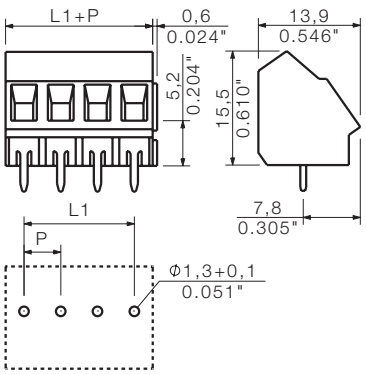
Representative deratings curve



LM 5.08/../135



Dimensioned drawing



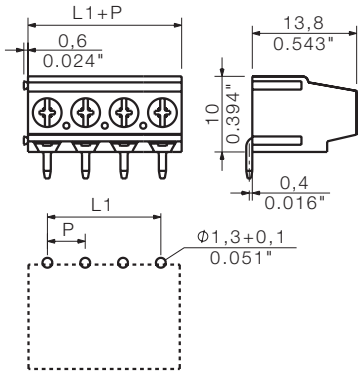
Ordering data

Solder pin length				3.5 mm
Colour				Orange
Pitch	**5.08 mm**			
Pol.	**L1**	**(inch)**	**Qty.**	**Order No.**
2	5.08	0.200	500	1716120000
3	10.16	0.400	500	1716130000
4	15.24	0.600	50	9994550000
5	20.32	0.800	50	9994560000
6	25.40	1.000	50	9994570000
7	30.48	1.200	50	9994580000
8	35.56	1.400	50	9994590000
9	40.64	1.600	50	9994600000
10	45.72	1.800	50	9994610000
11	50.80	2.000	50	9994620000
12	55.88	2.200	50	9994630000
13	60.96	2.400	50	9994640000
14	66.04	2.600	50	9994650000
15	71.12	2.800	50	9994660000
16	76.20	3.000	50	9994670000
17	81.28	3.200	50	9994680000
18	86.36	3.400	50	9994690000
19	91.44	3.600	50	9994700000
20	96.52	3.800	50	9994710000
21	101.60	4.000	50	9994720000
22	106.68	4.200	50	9994730000
23	111.76	4.400	50	9994740000
24	116.84	4.600	50	9994750000

LM 5.08/../180



Dimensioned drawing

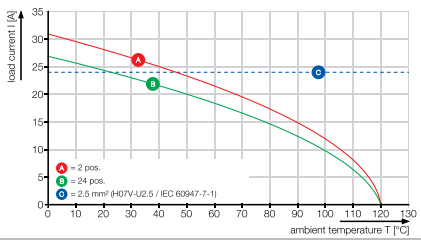


Ordering data

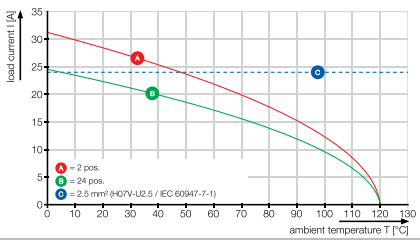
Solder pin length				3.5 mm
Colour				Orange
Pitch	**5.08 mm**			
Pol.	**L1**	**(inch)**	**Qty.**	**Order No.**
2	5.08	0.200	500	1716100000
3	10.16	0.400	500	1716110000
4	15.24	0.600	50	9994970000
5	20.32	0.800	50	9994980000
6	25.40	1.000	50	9994990000
7	30.48	1.200	50	9995000000
8	35.56	1.400	50	9995010000
9	40.64	1.600	50	9995020000
10	45.72	1.800	50	9995030000
11	50.80	2.000	50	9995040000
12	55.88	2.200	50	9995050000
13	60.96	2.400	50	9995060000
14	66.04	2.600	50	9995070000
15	71.12	2.800	50	9995080000
16	76.20	3.000	50	9995090000
17	81.28	3.200	50	9995100000
18	86.36	3.400	50	9995110000
19	91.44	3.600	50	9995120000
20	96.52	3.800	50	9995130000
21	101.60	4.000	50	9995140000
22	106.68	4.200	50	9995150000
23	111.76	4.400	50	9995210000
24	116.84	4.600	50	9995220000

Additional deratings curves

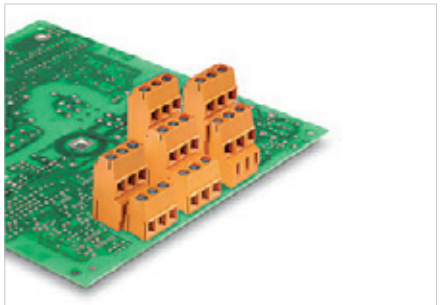
LM 5.08/../135



LM 5.08/../180



LM 5.08, multi level



Multi-level PCB terminal with our proven clamping-yoke screw connection in 5.08 mm pitch, suitable for wire cross-sections up to 2.5 mm².

- Increased derating reserves because WEMID insulating material is used.
- Wire outlet direction of 90°.
- Block construction can be aligned together for higher pole counts.

Product data

IEC: 630 V / 17.5 A / 0.2 - 2.5 mm²
UL: 300 V / 15 A / AWG 24 - 14

For additional articles and information, refer to catalog.weidmueller.com

Note:

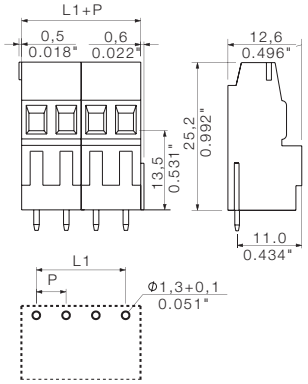
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

LM1N 5.08/../90

Single row, middle



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm²	0.2...2.5		
Solid core H05(07) V-U	**mm²**	**0.2...2.5**		
Stranded H07 V-R				
Flexible H05(07) V-K	mm²	0.2...1.5		
Flexible with ferrule	mm²	0.25...1.5		
Ferrule with plastic collar	mm²	0.25...1.5		
Stripping length	mm	6		
Screwdriver blade	mm	0.6 x 3.5		
According to norm		DIN 5264		
Tightening torque range	Nm	0.4...0.5		
Rated current, max.	**A**	**17.5**		**17.5**
At ambient temperature		20°C		40°C
For conductor cross-section	mm²		1.5	
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	**V**	**250**	**320**	**630**
Rated impulse voltage	kV	4	4	4
UL / CUL (Use Group)		**B**	**C**	**D**
Rated voltage	**V**	**300**		**300**
Rated current	**A**	**15**		**10**
AWG conductor	**AWG**		**24-14**	
CSA (Use Group)		**B**	**C**	**D**
Rated voltage	V	300		300
Rated current	A	18		10
AWG conductor	AWG		24-14	
General data				
Type of insulation material		Wemid (PA)		
UL 94 flammability rating		V-0		
Contact base material		Copper alloy		
Material of contact surface		tinned		
Pin dimensions = d	mm	0.95 x 0.8		
Solder eyelet Ø = D	mm	1.3		
Solder eyelet Ø tolerance	mm	+ 0,1		

Accessories

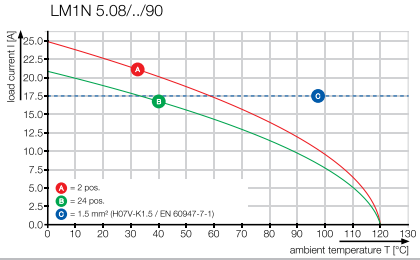
Note: Refer to the Accessories chapter for additional accessories.

Screwdriver		Order No.
	SDIS 0.6X3.5X100	9008390000
	SDS 0.6X3.5X100	9008330000

Ordering data

Solder pin length				3.5 mm
Colour				Orange
Pitch	**5.08 mm**			
Pol.	**L1**	**(inch)**	**Qty.**	**Order No.**
2	5.08	0.200	100	1766300000
3	10.16	0.400	100	1766310000

Representative deratings curve

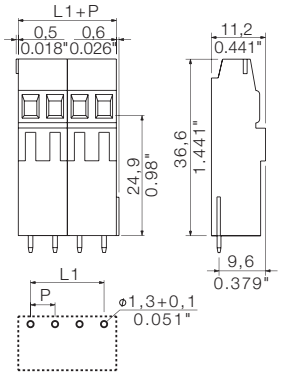


LM1H 5.08/../90

Single row, high



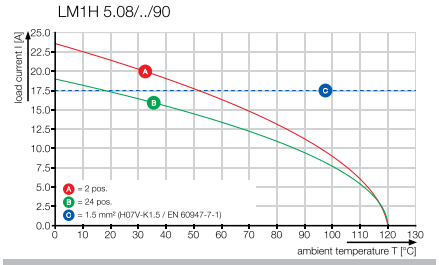
Dimensioned drawing



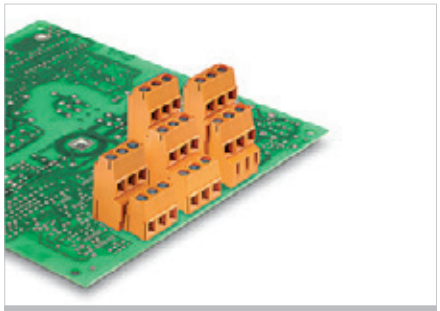
Ordering data

Solder pin length				3.5 mm
Colour				Orange
Pitch	**5.08 mm**			
Pol.	L1	(inch)	**Qty.**	**Order No.**
2	5.08	0.200	100	**1766360000**
3	10.16	0.400	100	**1766370000**

Additional deratings curves



LM 5.08, multi level



Multi-level PCB terminal with our proven clamping-yoke screw connection in 5.08 mm pitch, suitable for wire cross-sections up to 2.5 mm².

- Increased derating reserves because WEMID insulating material is used.
- Wire outlet direction of 90°.
- Block construction can be aligned together for higher pole counts.

Product data

IEC: 630 V / 17.5 A / 0.2 - 2.5 mm²
UL: 300 V / 15 A / AWG 24 - 14

For additional articles and information, refer to catalog.weidmueller.com

Note:

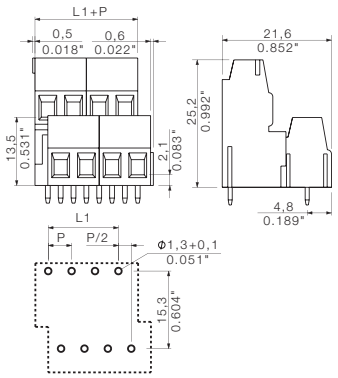
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

LM2N 5.08/../90

Double level row



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm²	0.2...2.5		
Solid core H05(07) V-U	**mm²**	**0.2...2.5**		
Stranded H07 V-R				
Flexible H05(07) V-K	mm²	0.2...1.5		
Flexible with ferrule	mm²	0.25...1.5		
Ferrule with plastic collar	mm²	0.25...1.5		
Stripping length	mm	6		
Screwdriver blade	mm	0.6 x 3.5		
According to norm		DIN 5264		
Tightening torque range	Nm	0.4...0.5		
Rated current, max.	**A**	**17.5**		**17.5**
At ambient temperature		20°C		40°C
For conductor cross-section	mm²	1.5		
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	**V**	**250**	**320**	**630**
Rated impulse voltage	kV	4	4	4
UL / CUL (Use Group)		**B**	**C**	**D**
Rated voltage	**V**	**300**		**300**
Rated current	**A**	**15**		**10**
AWG conductor	**AWG**	**24-14**		
CSA (Use Group)		**B**	**C**	**D**
Rated voltage	V	300		300
Rated current	A	18		10
AWG conductor	AWG	24-14		
General data				
Type of insulation material		Wemid (PA)		
UL 94 flammability rating		V-0		
Contact base material		Copper alloy		
Material of contact surface		tinned		
Pin dimensions = d	mm	0.95 x 0.8		
Solder eyelet Ø = D	mm	1.3		
Solder eyelet Ø tolerance	mm	+ 0,1		

Accessories

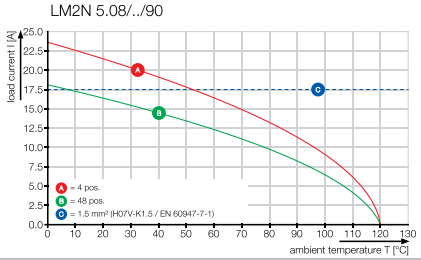
Note: Refer to the Accessories chapter for additional accessories.

Screwdriver		Order No.
	SDIS 0.6X3.5X100	9008390000
	SDS 0.6X3.5X100	9008330000

Ordering data

Solder pin length				3.5 mm
Colour				Orange
Pitch	**5.08 mm**			
Pol.	**L1**	**(inch)**	**Qty.**	**Order No.**
4	5.08	0.200	50	1768850000
6	10.16	0.400	50	1768860000
8	15.24	0.600	50	1768870000
10	20.32	0.800	50	1768880000
12	25.40	1.000	20	1768890000
14	30.48	1.200	20	1768900000
16	35.56	1.400	20	1768910000
18	40.64	1.600	20	1768920000
20	45.72	1.800	20	1768930000
22	50.80	2.000	20	1768940000
24	55.88	2.200	10	1768950000
26	60.96	2.400	10	1768960000
28	66.04	2.600	10	1768970000
30	71.12	2.800	10	1768980000
32	76.20	3.000	10	1768990000
34	81.28	3.200	10	1769000000
36	86.36	3.400	10	1769010000
38	91.44	3.600	10	1769020000
40	96.52	3.800	10	1769030000
42	101.60	4.000	10	1769040000
44	106.68	4.200	10	1769050000
46	111.76	4.400	10	1769060000
48	116.84	4.600	10	1769070000

Representative deratings curve

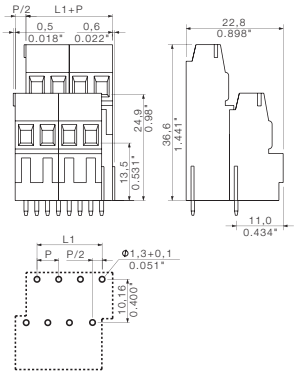


LM2H 5.08/../90

Double level row high



Dimensioned drawing



Ordering data

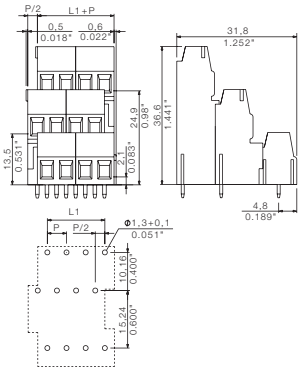
Solder pin length				3.5 mm
Colour				Orange
Pitch	**5.08 mm**			
Pol.	L1	(inch)	**Qty.**	**Order No.**
4	5.08	0.200	50	1769240000
6	10.16	0.400	50	1769250000
8	15.24	0.600	50	1769260000
10	20.32	0.800	50	1769270000
12	25.40	1.000	20	1769280000
14	30.48	1.200	20	1769290000
16	35.56	1.400	20	1769300000
18	40.64	1.600	20	1769310000
20	45.72	1.800	20	1769320000
22	50.80	2.000	20	1769330000
24	55.88	2.200	10	1769340000
26	60.96	2.400	10	1769350000
28	66.04	2.600	10	1769360000
30	71.12	2.800	10	1769370000
32	76.20	3.000	10	1769380000
34	81.28	3.200	10	1769390000
36	86.36	3.400	10	1769400000
38	91.44	3.600	10	1769410000
40	96.52	3.800	10	1769420000
42	101.60	4.000	10	1769430000
44	106.68	4.200	10	1769440000
46	111.76	4.400	10	1769450000
48	111.76	4.400	10	1769460000

LM3R 5.08/../90

Triple level



Dimensioned drawing

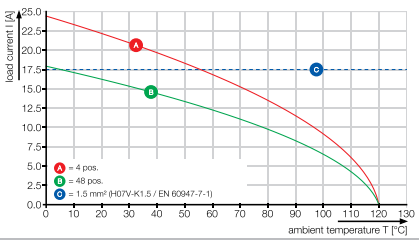


Ordering data

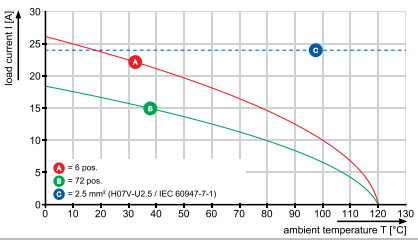
Solder pin length				3.5 mm
Colour				Orange
Pitch	**5.08 mm**			
Pol.	L1	(inch)	**Qty.**	**Order No.**
6	5.08	0.200	50	1769620000
9	10.16	0.400	50	1769630000
12	15.24	0.600	50	1769640000
15	20.32	0.800	25	1769650000
18	25.40	1.000	25	1769660000
21	30.48	1.200	20	1769670000
24	35.56	1.400	20	1769680000
27	40.64	1.600	20	1769690000
30	45.72	1.800	10	1769700000
33	50.80	2.000	10	1769710000
36	55.88	2.200	10	1769720000
39	60.96	2.400	10	1769730000
42	66.04	2.600	10	1769740000
45	71.12	2.800	10	1769750000
48	76.20	3.000	10	1769760000
51	81.28	3.200	10	1769770000
54	86.36	3.400	5	1769780000
57	91.44	3.600	5	1769790000
60	96.52	3.800	5	1769800000
63	101.60	4.000	5	1769810000
66	106.68	4.200	5	1769820000
69	111.76	4.400	5	1769830000
72	116.84	4.600	5	1769840000

Additional deratings curves

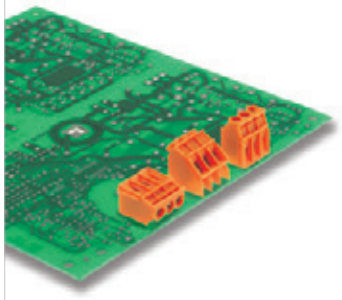
LM2H 5.08/../90



LM3R 5.08/../90



LP & LPP 5.00



Single-row PCB terminal with our proven clamping-yoke screw connection in 5.00 mm pitch, suitable for wire cross-sections up to 6.0 mm².

- Wire outlet direction: 90°, 135° and 180° versions.
- 90° and 135° versions optionally with integrated test point for test plug PS 2.0.
- Version with a wide variety of extra functions.
- 2- and 3-pole block construction can be aligned together for higher pole counts.

Product data

IEC: 500 V / 32 A / 0.5 - 6 mm²
UL: 300 V / 20 A / AWG 26 - 12

For additional articles and information, refer to catalog.weidmueller.com

Note:

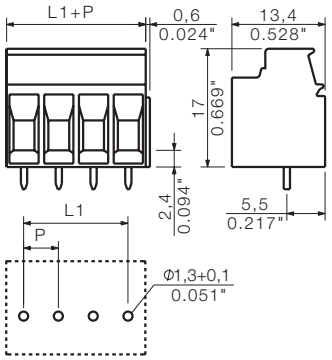
- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

LPP 5.00/../90

with test point



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm²	0.13...6		
Solid core H05(07) V-U	**mm²**	**0.5...6**		
Stranded H07 V-R				
Flexible H05(07) V-K	mm²	0.5...4		
Flexible with ferrule	mm²	0.5...2.5		
Ferrule with plastic collar	mm²	0.5...2.5		
Stripping length	mm	6		
Screwdriver blade	mm			
According to norm				
Tightening torque range	Nm	0.5...0.6		
Rated current, max.	**A**	**32**		**32**
At ambient temperature		20°C		40°C
For conductor cross-section	mm²	2.5		
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	**V**	**250**	**250**	**500**
Rated impulse voltage	kV	4	4	4
UL / CUL (Use Group)		**B**	**C**	**D**
Rated voltage	**V**	**300**		**300**
Rated current	**A**	**20**		**10**
AWG conductor	**AWG**	**26-12**		
CSA (Use Group)		**B**	**C**	**D**
Rated voltage	V	300		300
Rated current	A	20		10
AWG conductor	AWG	26-12		
General data				
Type of insulation material		PA		
UL 94 flammability rating		V-2		
Contact base material		Copper alloy		
Material of contact surface		tinned		
Pin dimensions = d	mm	0.75 x 0.9		
Solder eyelet Ø = D	mm	1.3		
Solder eyelet Ø tolerance	mm	+ 0,1		

Accessories

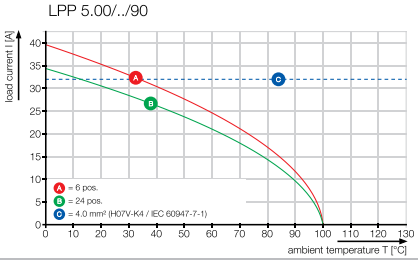
Note: Refer to the Accessories chapter for additional accessories.

Marker holder and functional holder	Order No.
LPA BZ2	1497260000
LPA BZ3	1497360000
LPA FA2	1495960000
LPA FA2 BZ	1496160000
LPA FA3	1496060000
LPA FA3 BZ	1496260000
Fuse and disconnection element	
LPA SI STI3.2 OR	1495060000
LPA TR STI3.2 OR	1495460000
Intermediate plate + mounting block	
LPBB MU OR	1747530000
LPBB OR	1747540000
LPHP 7.XX OR	1753440000
LPZP 1.27/90 OR	1747490000
LPZP 2.54/135 OR	1753740000
LPZP 2.54/90 OR	1747480000
LPZP1N 2.54 OR	1747470000
Cross-connection	
LPA QB 10	1472500000
LPA QB 17	1584770000
LPA QB 2	1472200000
LPA QB 24	1472600000
LPA QB 3	1472300000
LPA QB 4	1472400000
Screwdriver	
SDIS 0.6X3.5X100	9008390000
SDS 0.6X3.5X100	9008330000

Ordering data

Solder pin length				3.2 mm
Colour				Orange
Pitch	**5.00 mm**			
Pol.	**L1**	**(inch)**	**Qty.**	**Order No.**
2	5.00	0.197	100	1594340000
3	10.00	0.394	100	1594350000

Representative deratings curve

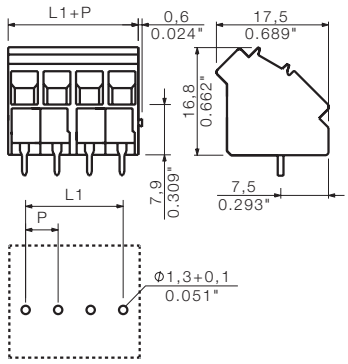


LP 5.00/../135

with test point



Dimensioned drawing



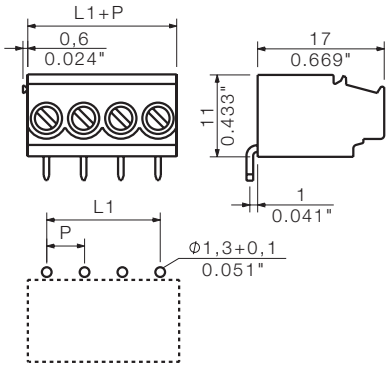
Ordering data

Solder pin length				3.2 mm
Colour				Orange
Pitch	**5.00 mm**			
Pol.	L1	(inch)	**Qty.**	**Order No.**
2	5.00	0.197	100	**1595750000**
3	10.00	0.394	100	**1595710000**
4	15.00	0.591	50	**1791710000**
5	20.00	0.787	50	**1843210000**
6	25.00	0.984	50	**1843220000**
7	30.00	1.181	50	**1843230000**
8	35.00	1.378	50	**1843240000**
9	40.00	1.575	50	**1843250000**
10	45.00	1.772	50	**1843260000**
11	50.00	1.969	50	**1843270000**
12	55.00	2.165	50	**1843280000**

LP 5.00/../180



Dimensioned drawing

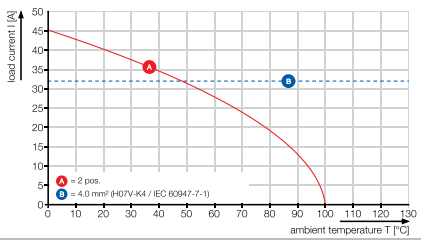


Ordering data

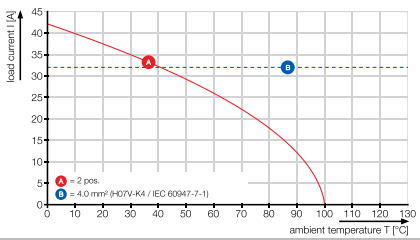
Solder pin length				3.2 mm
Colour				Orange
Pitch	**5.00 mm**			
Pol.	L1	(inch)	**Qty.**	**Order No.**
2	5.00	0.197	100	**1761330000**
3	10.00	0.394	100	**1761340000**

Additional deratings curves

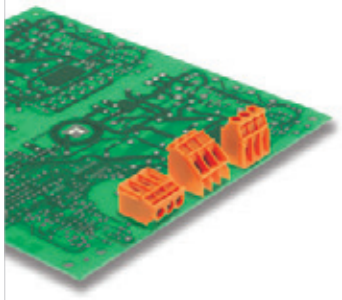
LP 5.00/../135



LP 5.00/../180



LP & LPP 5.08



Single-row PCB terminal with our proven clamping-yoke screw connection in 5.08 mm pitch, suitable for wire cross-sections up to 6.0 mm².

- Wire outlet direction: 90°, 135° and 180° versions.
- 90° and 135° versions optionally with integrated test point for test plug PS 2.0.
- Version with a wide variety of extra functions.
- 2- and 3-pole block construction can be aligned together for higher pole counts.

Product data

IEC: 500 V / 32 A / 0.5 - 6 mm²
UL: 300 V / 20 A / AWG 26 - 12

For additional articles and information, refer to catalog.weidmueller.com

Note:

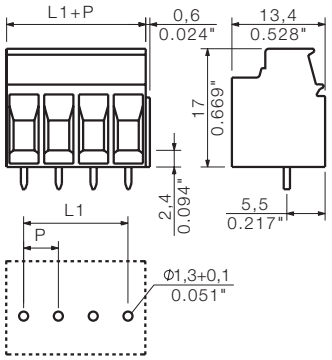
- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

LPP 5.08/../90

with test point



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm²	0.13...6		
Solid core H05(07) V-U	**mm²**	**0.5...6**		
Stranded H07 V-R				
Flexible H05(07) V-K	mm²	0.5...4		
Flexible with ferrule	mm²	0.5...2.5		
Ferrule with plastic collar	mm²	0.5...2.5		
Stripping length	mm	6		
Screwdriver blade	mm	0.6 x 3.5		
According to norm		DIN 5264		
Tightening torque range	Nm	0.5...0.6		
Rated current, max.	**A**	**32**		**32**
At ambient temperature		20°C		40°C
For conductor cross-section	mm²			
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	**V**	**250**	**250**	**500**
Rated impulse voltage	kV	4	4	4
UL / CUL (Use Group)		**B**	**C**	**D**
Rated voltage	**V**	**300**		**300**
Rated current	**A**	**20**		**10**
AWG conductor	**AWG**		**26-12**	
CSA (Use Group)		**B**	**C**	**D**
Rated voltage	V	300		300
Rated current	A	20		10
AWG conductor	AWG		26-12	
General data				
Type of insulation material		PA		
UL 94 flammability rating		V-2		
Contact base material		Copper alloy		
Material of contact surface		tinned		
Pin dimensions = d	mm	0.75 x 0.9		
Solder eyelet Ø = D	mm	1.3		
Solder eyelet Ø tolerance	mm	+ 0,1		

Accessories

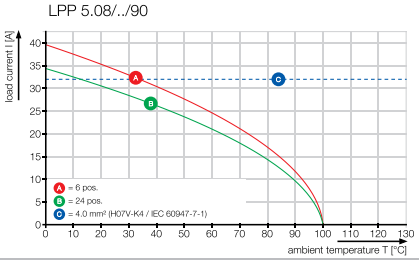
Note: Refer to the Accessories chapter for additional accessories.

Marker holder and functional holder	Order No.
LPA BZ2	1497260000
LPA BZ3	1497360000
LPA FA2	1495960000
LPA FA2 BZ	1496160000
LPA FA3	1496060000
LPA FA3 BZ	1496260000
Fuse and disconnection element	
LPA SI STI3.2 OR	1495060000
LPA TR STI3.2 OR	1495460000
Intermediate plate + mounting block	
LPBB MU OR	1747530000
LPBB OR	1747540000
LPHP 7.XX OR	1753440000
LPZP 1.27/90 OR	1747490000
LPZP 2.54/135 OR	1753740000
LPZP 2.54/90 OR	1747480000
LPZP1N 2.54 OR	1747470000
Cross-connection	
LPA QB 10	1472500000
LPA QB 17	1584770000
LPA QB 2	1472200000
LPA QB 24	1472600000
LPA QB 3	1472300000
LPA QB 4	1472400000
Screwdriver	
SDIS 0.6X3.5X100	9008390000
SDS 0.6X3.5X100	9008330000

Ordering data

Solder pin length				3.2 mm
Colour				Orange
Pitch	**5.08 mm**			
Pol.	**L1**	**(inch)**	**Qty.**	**Order No.**
2	5.08	0.200	100	1594400000
3	10.16	0.400	100	1594410000

Representative deratings curve

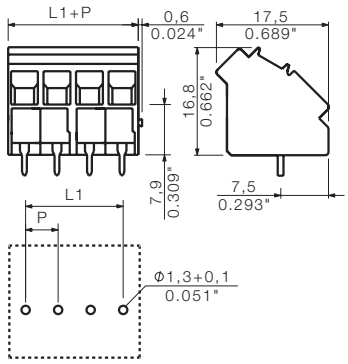


LP 5.08/../135

with test point



Dimensioned drawing



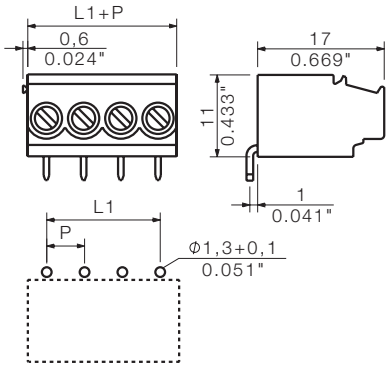
Ordering data

Solder pin length				3.2 mm
Colour				Orange
Pitch	**5.08 mm**			
Pol.	L1	(inch)	**Qty.**	**Order No.**
2	5.08	0.200	100	**1595730000**
3	10.16	0.400	100	**1595690000**
5	20.32	0.800	50	**1843150000**
6	25.40	1.000	50	**1759360000**
7	30.48	1.200	50	**1843160000**
8	35.56	1.400	50	**1752940000**
9	40.64	1.600	50	**1843170000**
10	45.72	1.800	50	**1843180000**
11	50.80	2.000	50	**1843190000**
12	55.88	2.200	50	**1843200000**

LP 5.08/../180



Dimensioned drawing

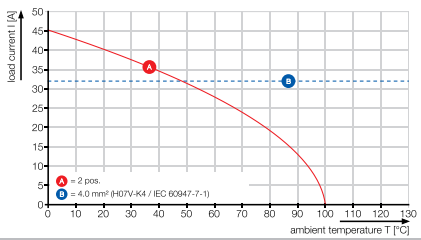


Ordering data

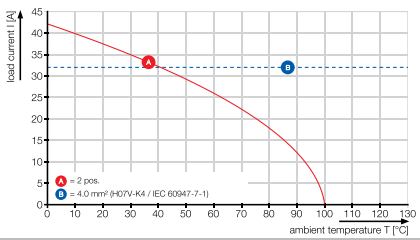
Solder pin length				3.2 mm
Colour				Orange
Pitch	**5.08 mm**			
Pol.	L1	(inch)	**Qty.**	**Order No.**
2	5.08	0.200	100	**1753810000**
3	10.16	0.400	100	**1753820000**

Additional deratings curves

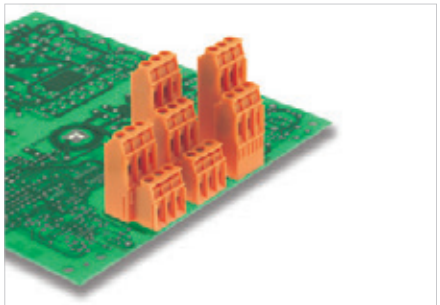
LP 5.08/../135



LP 5.08/../180



LP 5.00, multi level



Multi-level PCB terminal with our proven clamping-yoke screw connection in 5.00 mm pitch, suitable for wire cross-sections up to 6 mm².

- Wire outlet direction of 90°.
- Block construction can be aligned together for higher pole counts.

Product data

IEC: 500 V / 32 A / 0.5 - 6 mm²
UL: 300 V / 20 A / AWG 26 - 12

For additional articles and information, refer to catalog.weidmueller.com

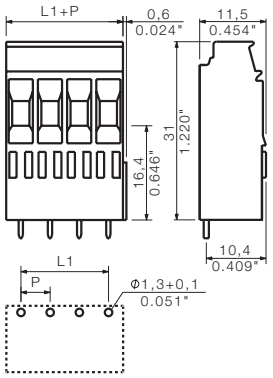
Note:

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

LP1N 5.00/../90



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm²	0.13...6		
Solid core H05(07) V-U	**mm²**	**0.5...6**		
Stranded H07 V-R				
Flexible H05(07) V-K	mm²	0.5...4		
Flexible with ferrule	mm²	0.5...2.5		
Ferrule with plastic collar	mm²	0.5...2.5		
Stripping length	mm	6		
Screwdriver blade	mm	0.6 x 3.5		
According to norm		DIN 5264		
Tightening torque range	Nm	0.5...0.6		
Rated current, max.	**A**	**32**		**32**
At ambient temperature		20°C		40°C
For conductor cross-section	mm²	2.5		
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	**V**	**250**	**250**	**500**
Rated impulse voltage	kV	4	4	4
UL / CUL (Use Group)		**B**	**C**	**D**
Rated voltage	**V**	**300**		**300**
Rated current	**A**	**20**		**10**
AWG conductor	**AWG**		**26-12**	
CSA (Use Group)		**B**	**C**	**D**
Rated voltage	V	300		300
Rated current	A	20		10
AWG conductor	AWG		26-12	
General data				
Type of insulation material		PA		
UL 94 flammability rating		V-2		
Contact base material		Copper alloy		
Material of contact surface		tinned		
Pin dimensions = d	mm	0.75 x 0.9		
Solder eyelet Ø = D	mm	1.3		
Solder eyelet Ø tolerance	mm	+ 0,1		

Accessories

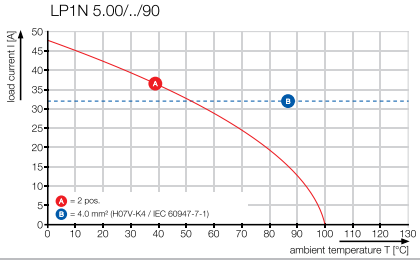
Note: Refer to the Accessories chapter for additional accessories.

Marker holder and functional holder	Order No.
LPA BZ2	1497260000
LPA BZ3	1497360000
LPA FA2	1495960000
LPA FA2 BZ	1496160000
LPA FA3	1496060000
LPA FA3 BZ	1496260000
Cross-connection	
LPA QB 10	1472500000
LPA QB 17	1584770000
LPA QB 2	1472200000
LPA QB 24	1472600000
LPA QB 3	1472300000
LPA QB 4	1472400000
Screwdriver	
SDIS 0.6X3.5X100	9008390000
SDS 0.6X3.5X100	9008330000

Ordering data

Solder pin length				3.2 mm
Colour				Orange
Pitch	**5.00 mm**			
Pol.	**L1**	**(inch)**	**Qty.**	**Order No.**
2	5.00	0.197	100	1640870000
3	10.00	0.394	100	1640880000

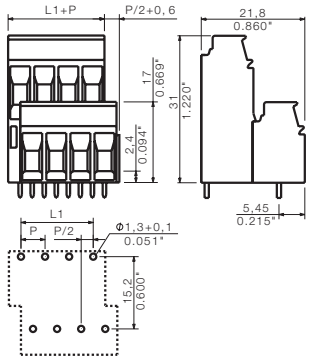
Representative deratings curve



LP2N 5.00/../90



Dimensioned drawing

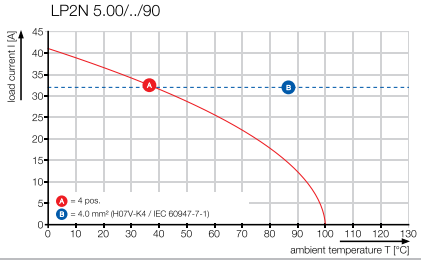


Ordering data

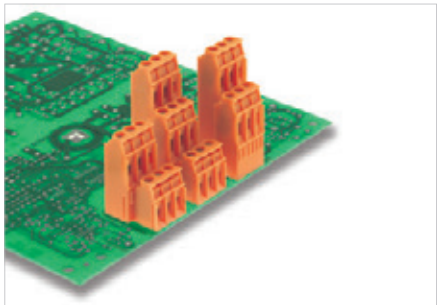
Solder pin length				3.2 mm
Colour				Orange
Pitch	**5.00 mm**			
Pol.	L1	(inch)	**Qty.**	**Order No.**
4	5.00	0.197	50	**1635160000**
6	10.00	0.394	50	**1625560000**
8	15.00	0.591	50	**1596450000**
10	20.00	0.787	50	**1596490000**
16	35.00	1.378	20	**1596550000**
20	45.00	1.772	20	**1596590000**
24	55.00	2.165	10	**1596630000**
30	70.00	2.756	10	**1596670000**

Additional deratings curves

LP2N 5.00/../90



LP 5.08, multi level



Multi-level PCB terminal with our proven clamping-yoke screw connection in 5.08 mm pitch, suitable for wire cross-sections up to 6 mm².

- Wire outlet direction of 90°. Block construction can be aligned together for higher pole counts.

Product data

IEC: 500 V / 32 A / 0.5 - 6 mm²
UL: 300 V / 20 A / AWG 26 - 12

For additional articles and information, refer to catalog.weidmueller.com

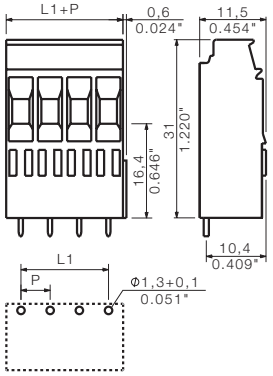
Note:

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

LP1N 5.08/../90



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm²	0.13...6		
Solid core H05(07) V-U	**mm²**	**0.5...6**		
Stranded H07 V-R				
Flexible H05(07) V-K	mm²	0.5...4		
Flexible with ferrule	mm²	0.5...2.5		
Ferrule with plastic collar	mm²	0.5...2.5		
Stripping length	mm	6		
Screwdriver blade	mm	0.6 x 3.5		
According to norm		DIN 5264		
Tightening torque range	Nm	0.5...0.6		
Rated current, max.	**A**	**32**		**32**
At ambient temperature		20°C		40°C
For conductor cross-section	mm²	2.5		
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	**V**	**250**	**250**	**500**
Rated impulse voltage	kV	4	4	4
UL / CUL (Use Group)		**B**	**C**	**D**
Rated voltage	**V**	**300**		**300**
Rated current	**A**	**20**		**10**
AWG conductor	**AWG**		**26-12**	
CSA (Use Group)		**B**	**C**	**D**
Rated voltage	V	300		300
Rated current	A	20		10
AWG conductor	AWG		26-12	
General data				
Type of insulation material		PA		
UL 94 flammability rating		V-2		
Contact base material		Copper alloy		
Material of contact surface		tinned		
Pin dimensions = d	mm	0.75 x 0.9		
Solder eyelet Ø = D	mm	1.3		
Solder eyelet Ø tolerance	mm	+ 0,1		

Accessories

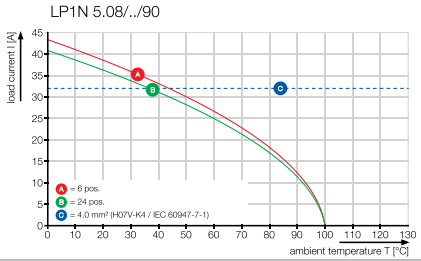
Note: Refer to the Accessories chapter for additional accessories.

Marker holder and functional holder	Order No.
LPA BZ2	1497260000
LPA BZ3	1497360000
LPA FA2	1495960000
LPA FA2 BZ	1496160000
LPA FA3	1496060000
LPA FA3 BZ	1496260000
Cross-connection	
LPA QB 10	1472500000
LPA QB 17	1584770000
LPA QB 2	1472200000
LPA QB 24	1472600000
LPA QB 3	1472300000
LPA QB 4	1472400000
Screwdriver	
SDIS 0.6X3.5X100	9008390000
SDS 0.6X3.5X100	9008330000

Ordering data

Solder pin length				3.2 mm
Colour				Orange
Pitch	**5.08 mm**			
Pol.	**L1**	**(inch)**	**Qty.**	**Order No.**
2	5.08	0.200	100	1640830000
3	10.16	0.400	100	1640840000

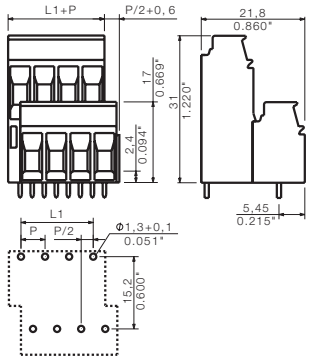
Representative deratings curve



LP2N 5.08/../90



Dimensioned drawing



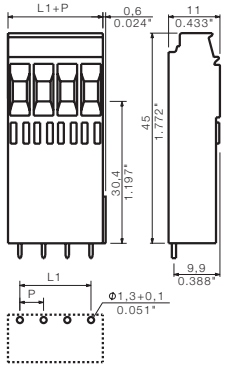
Ordering data

Solder pin length				3.2 mm
Colour				Orange
Pitch	**5.08 mm**			
Pol.	**L1**	**(inch)**	**Qty.**	**Order No.**
4	5.08	0.200	50	**1635140000**
6	10.16	0.400	50	**1625540000**
8	15.24	0.600	50	**1596460000**
10	20.32	0.800	50	**1596510000**
12	25.40	1.000	50	**1844510000**
14	30.48	1.200	50	**1844520000**
16	35.56	1.400	20	**1596530000**
18	40.64	1.600	20	**1844530000**
20	45.72	1.800	20	**1596570000**
22	50.80	2.000	20	**1844540000**
24	55.88	2.200	10	**1596610000**
26	60.96	2.400	10	**1844550000**
28	66.04	2.600	10	**1844560000**
30	71.12	2.800	10	**1596650000**
32	76.20	3.000	10	**1844570000**
34	81.28	3.200	10	**1844580000**
36	86.36	3.400	10	**1844590000**
38	91.44	3.600	10	**1844600000**
40	96.52	3.800	10	**1844610000**
42	101.60	4.000	10	**1844620000**
44	106.68	4.200	10	**1844630000**
46	111.76	4.400	10	**1844640000**
48	116.84	4.600	10	**1844650000**

LP1H 5.08/../90



Dimensioned drawing



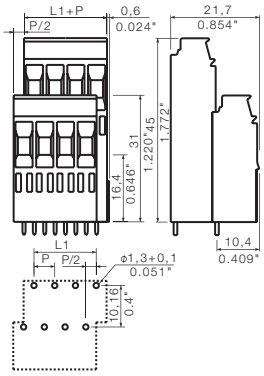
Ordering data

Solder pin length				3.2 mm
Colour				Orange
Pitch	**5.08 mm**			
Pol.	**L1**	**(inch)**	**Qty.**	**Order No.**
2	5.08	0.200	100	**1640910000**
3	10.16	0.400	100	**1640920000**

LP2HR 5.08/../90



Dimensioned drawing

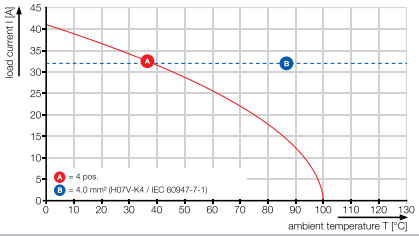


Ordering data

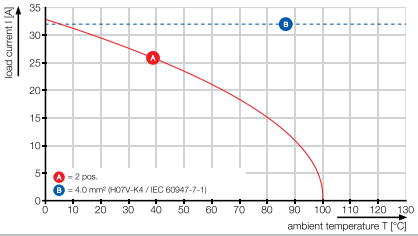
Solder pin length				3.2 mm
Colour				Orange
Pitch	**5.08 mm**			
Pol.	**L1**	**(inch)**	**Qty.**	**Order No.**
4	5.08	0.200	50	**1636210000**
6	10.16	0.400	50	**1636220000**
8	15.24	0.600	50	**1636230000**
10	20.32	0.800	50	**1636240000**
12	25.40	1.000	20	**1844660000**
14	30.48	1.200	20	**1844670000**
16	35.56	1.400	20	**1636250000**
18	40.64	1.600	20	**1844680000**
20	45.72	1.800	20	**1636260000**
24	55.88	2.200	10	**1636270000**
26	60.96	2.400	10	**1844690000**
28	66.04	2.600	10	**1844700000**
30	71.12	2.800	10	**1636280000**
32	76.20	3.000	10	**1844710000**
34	81.28	3.200	10	**1844720000**
36	86.36	3.400	10	**1844730000**
38	91.44	3.600	10	**1844740000**
40	96.52	3.800	10	**1844750000**
42	101.60	4.000	10	**1844760000**
44	106.68	4.200	10	**1844770000**
46	111.76	4.400	10	**1844780000**
48	116.84	4.600	10	**1646480000**

Additional deratings curves

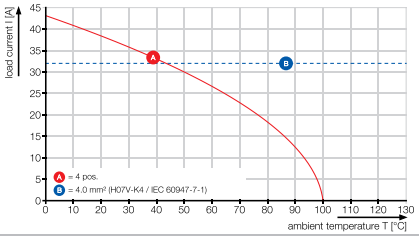
LP2N 5.08/../90



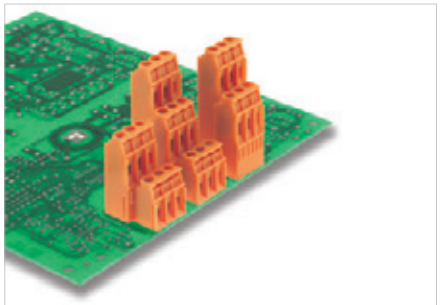
LP1H 5.08/../90



LP2HR 5.08/../90



LP 5.08, multi level



Multi-level PCB terminal with our proven clamping-yoke screw connection in 5.08 mm pitch, suitable for wire cross-sections up to 6 mm².

- Wire outlet direction of 90°. Block construction can be aligned together for higher pole counts.

Product data

IEC: 500 V / 32 A / 0.5 - 6 mm²
UL: 300 V / 20 A / AWG 26 - 12

For additional articles and information, refer to catalog.weidmueller.com

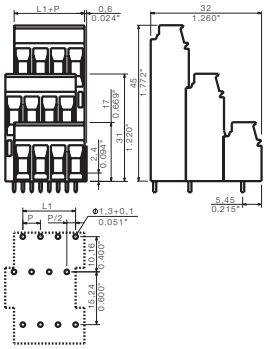
Note:

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

LP3R 5.08/../90



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm²	0.13...6		
Solid core H05(07) V-U	**mm²**	**0.5...6**		
Stranded H07 V-R				
Flexible H05(07) V-K	mm²	0.5...4		
Flexible with ferrule	mm²	0.5...2.5		
Ferrule with plastic collar	mm²	0.5...2.5		
Stripping length	mm	6		
Screwdriver blade	mm	0.6 x 3.5		
According to norm		DIN 5264		
Tightening torque range	Nm	0.5...0.6		
Rated current, max.	**A**	**32**		**30**
At ambient temperature		20°C		40°C
For conductor cross-section	mm²	2.5		
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	**V**	**250**	**250**	**500**
Rated impulse voltage	kV	4	4	4
UL / CUL (Use Group)		**B**	**C**	**D**
Rated voltage	**V**	**300**		**300**
Rated current	**A**	**20**		**10**
AWG conductor	**AWG**	**26-12**		
CSA (Use Group)		**B**	**C**	**D**
Rated voltage	V	300		300
Rated current	A	20		10
AWG conductor	AWG	26-12		
General data				
Type of insulation material		PA		
UL 94 flammability rating		V-2		
Contact base material		Copper alloy		
Material of contact surface		tinned		
Pin dimensions = d	mm	0.75 x 0.9		
Solder eyelet Ø = D	mm	1.3		
Solder eyelet Ø tolerance	mm	+ 0,1		

Accessories

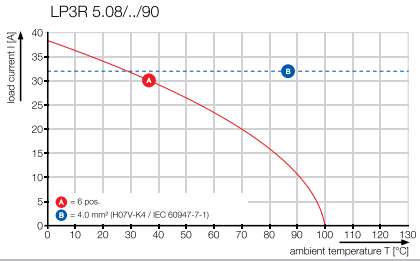
Note: Refer to the Accessories chapter for additional accessories.

Marker holder and functional holder	Order No.
LPA BZ2	1497260000
LPA BZ3	1497360000
LPA FA2	1495960000
LPA FA2 BZ	1496160000
LPA FA3	1496060000
LPA FA3 BZ	1496260000
Cross-connection	
LPA QB 10	1472500000
LPA QB 17	1584770000
LPA QB 2	1472200000
LPA QB 24	1472600000
LPA QB 3	1472300000
LPA QB 4	1472400000
Screwdriver	
SDIS 0.6X3.5X100	9008390000
SDS 0.6X3.5X100	9008330000

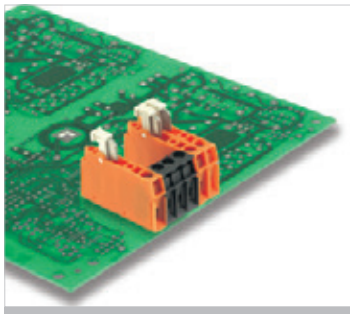
Ordering data

Solder pin length				3.2 mm
Colour				Orange
Pitch	**5.08 mm**			
Pol.	**L1**	**(inch)**	**Qty.**	**Order No.**
6	5.08	0.200	50	1653930000
9	10.16	0.400	50	1596320000
12	15.24	0.600	50	1596340000
15	20.32	0.800	25	1596360000
18	25.40	1.000	25	1596380000
21	30.48	1.200	20	1844790000
24	35.56	1.400	20	1596400000
27	40.64	1.600	10	1844800000
30	45.72	1.800	10	1596420000
33	50.80	2.000	10	1844810000
36	55.88	2.200	10	1844820000
39	60.96	2.400	10	1844830000
42	66.04	2.600	10	1844840000
45	71.12	2.800	10	1844850000
48	76.20	3.000	10	1844860000
51	81.28	3.200	10	1844870000
54	86.36	3.400	10	1844880000
57	91.44	3.600	5	1844890000
60	96.52	3.800	5	1844900000
63	101.60	4.000	5	1844910000
66	106.68	4.200	5	1844920000
69	111.76	4.400	5	1844930000
72	116.84	4.600	5	1844940000

Representative deratings curve



LP 5.08 partition



Isolating element with our proven clamping-yoke screw connection in 5.08 mm pitch, suitable for wire cross-sections up to 6.0 mm².

- Direction of wire outlet: 90° version with integrated test point for test plug PS 2.0.

Product data

IEC: 500 V / 32 A / 0.5 - 6 mm²
UL: 300 V / 15 A / AWG 26 - 12

For additional articles and information, refer to catalog.weidmueller.com

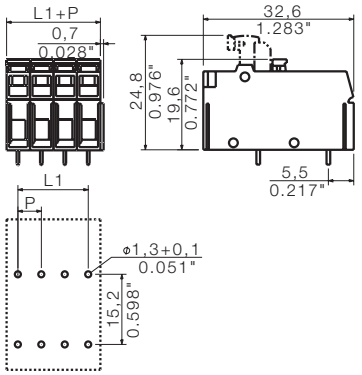
Note:

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

LPTR 5.08/../90



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm²	0.13...6		
Solid core H05(07) V-U	**mm²**	**0.5...6**		
Stranded H07 V-R				
Flexible H05(07) V-K	mm²	0.5...4		
Flexible with ferrule	mm²	0.5...2.5		
Ferrule with plastic collar	mm²	0.5...2.5		
Stripping length	mm	6		
Screwdriver blade	mm	0.6 x 3.5		
According to norm		DIN 5264		
Tightening torque range	Nm	0.5...0.6		
Rated current, max.	**A**	**32**		**32**
At ambient temperature		20°C		40°C
For conductor cross-section	mm²	2.5		
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	**V**	**250**	**250**	**500**
Rated impulse voltage	kV	4	4	4
UL / CUL (Use Group)		**B**	**C**	**D**
Rated voltage	**V**	**300**		**300**
Rated current	**A**	**15**		**10**
AWG conductor	**AWG**	**26-12**		
CSA (Use Group)		**B**	**C**	**D**
Rated voltage	V	300		300
Rated current	A	15		10
AWG conductor	AWG	26-12		
General data				
Type of insulation material		PA		
UL 94 flammability rating		V-2		
Contact base material		Copper alloy		
Material of contact surface		tinned		
Pin dimensions = d	mm	0.75 x 0.9		
Solder eyelet Ø = D	mm	1.3		
Solder eyelet Ø tolerance	mm	+ 0,1		

Accessories

Note: Refer to the Accessories chapter for additional accessories.

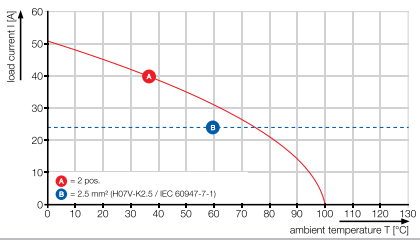
Screwdriver		Order No.
	SDIS 0.6X3.5X100	9008390000
	SDS 0.6X3.5X100	9008330000

Test plug		
	PS 2.0 MC	0310000000

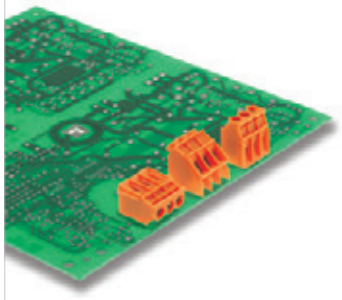
Ordering data

Solder pin length				3.2 mm
Colour				Orange
Pitch	**5.08 mm**			
Pol.	**L1**	**(inch)**	**Qty.**	**Order No.**
1	0.00	0.000	100	1755180000

Representative deratings curve



LP 7.50



Single-row PCB terminal with our proven clamping-yoke screw connection in 7.50 mm pitch, suitable for wire cross-sections up to 6.0 mm².

- Wire outlet direction: 90°, 135° and 180° versions.
- 90° and 135° versions optionally with integrated test point for test plug PS 2.0.
- Version with a wide variety of extra functions.
- 2- and 3-pole block construction can be aligned together for higher pole counts.

Product data

IEC: 1000 V / 32 A / 0.5 - 6 mm²
UL: 300 V / 20 A / AWG 26 - 12

For additional articles and information, refer to catalog.weidmueller.com

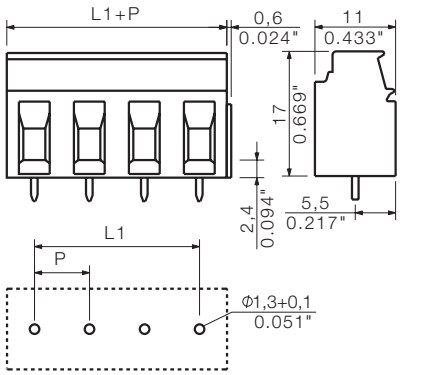
Note:

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

LP 7.5/../90



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm²	0.13...6		
Solid core H05(07) V-U	**mm²**	**0.5...6**		
Stranded H07 V-R		...6		
Flexible H05(07) V-K	mm²	0.5...4		
Flexible with ferrule	mm²	0.5...2.5		
Ferrule with plastic collar	mm²	0.5...2.5		
Stripping length	mm	6		
Screwdriver blade	mm	0.6 x 3.5		
According to norm		DIN 5264		
Tightening torque range	Nm	0.5...0.6		
Rated current, max.	**A**	**32**		**32**
At ambient temperature		20°C		40°C
For conductor cross-section	mm²	2.5		
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	**V**	**500**	**500**	**1000**
Rated impulse voltage	kV	6	6	6
UL / CUL (Use Group)		**B**	**C**	**D**
Rated voltage	**V**	**300**		**300**
Rated current	**A**	**20**		**10**
AWG conductor	**AWG**	**26-12**		
CSA (Use Group)		**B**	**C**	**D**
Rated voltage	V	300		300
Rated current	A	20		10
AWG conductor	AWG	26-12		
General data				
Type of insulation material		PA		
UL 94 flammability rating		V-2		
Contact base material		Copper alloy		
Material of contact surface		tinned		
Pin dimensions = d	mm	0.75 x 0.9		
Solder eyelet Ø = D	mm	1.3		
Solder eyelet Ø tolerance	mm	+ 0,1		

Accessories

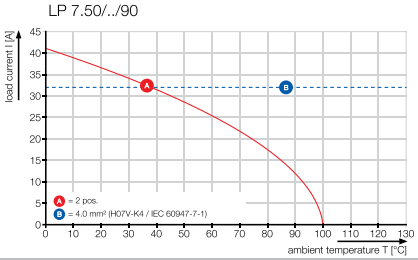
Note: Refer to the Accessories chapter for additional accessories.

Screwdriver		Order No.
	SDIS 0.6X3.5X100	9008390000
	SDS 0.6X3.5X100	9008330000

Ordering data

Solder pin length				3.2 mm
Colour				Orange
Pitch	**7.50 mm**			
Pol.	**L1**	**(inch)**	**Qty.**	**Order No.**
2	7.50	0.295	100	1594420000
3	15.00	0.591	100	1594430000

Representative deratings curve

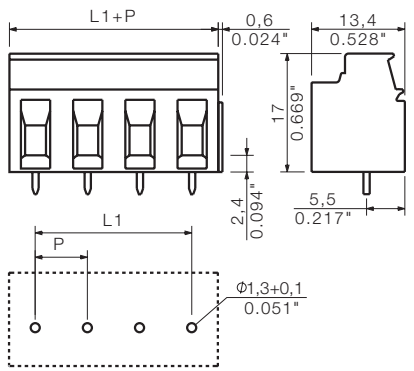


LPP 7.50/../90

with test point



Dimensioned drawing



Ordering data

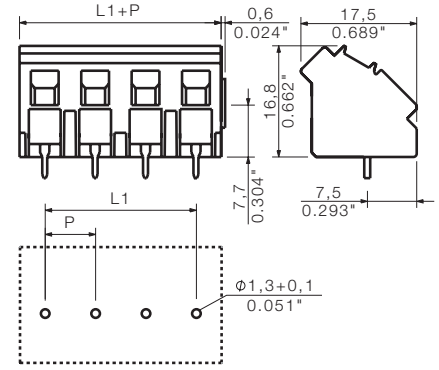
Solder pin length				3.2 mm
Colour				Orange
Pitch	**7.50 mm**			
Pol.	**L1**	**(inch)**	**Qty.**	**Order No.**
2	7.50	0.295	100	**1594440000**
3	15.00	0.591	100	**1594450000**

LP 7.50/../135

with test point



Dimensioned drawing



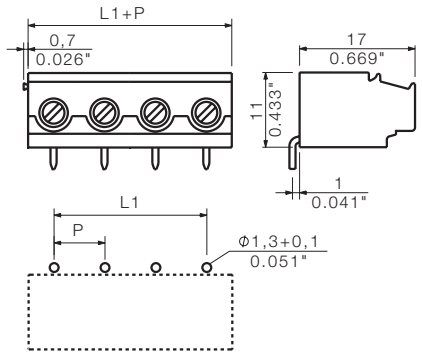
Ordering data

Solder pin length				3.2 mm
Colour				Orange
Pitch	**7.50 mm**			
Pol.	**L1**	**(inch)**	**Qty.**	**Order No.**
2	7.50	0.295	100	**1595770000**
3	15.00	0.591	100	**1595810000**

LP 7.50/../180



Dimensioned drawing

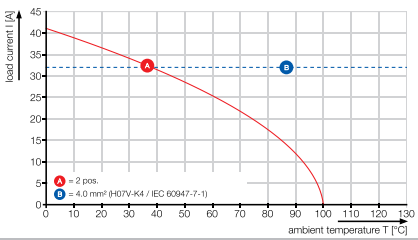


Ordering data

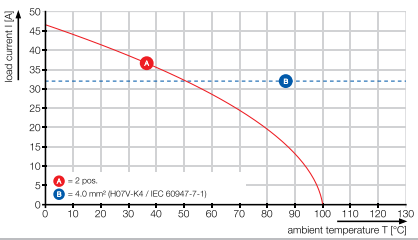
Solder pin length				3.2 mm
Colour				Orange
Pitch	**7.50 mm**			
Pol.	**L1**	**(inch)**	**Qty.**	**Order No.**
2	7.50	0.295	100	**1761370000**
3	15.00	0.591	100	**1761380000**

Additional deratings curves

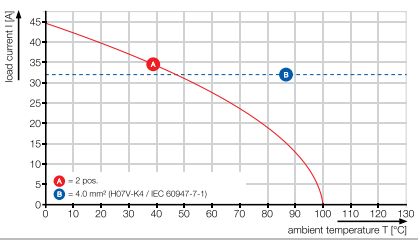
LPP 7.50/../90



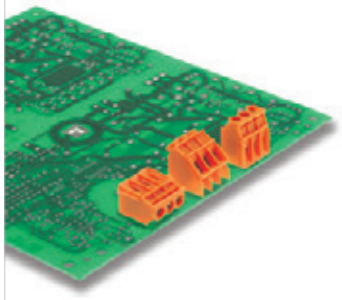
LP 7.50/../135



LP 7.50/../180



LP 7.62



Single-row PCB terminal with our proven clamping-yoke screw connection in 7.62 mm pitch, suitable for wire cross-sections up to 6.0 mm².

- Wire outlet direction: 90°, 135° and 180° versions.
- 90° and 135° versions optionally with integrated test point for test plug PS 2.0.
- Version with a wide variety of extra functions.
- 2- and 3-pole block construction can be aligned together for higher pole counts.

Product data

IEC: 1000 V / 32 A / 0.5 - 6 mm²
UL: 300 V / 20 A / AWG 26 - 12

For additional articles and information, refer to catalog.weidmueller.com

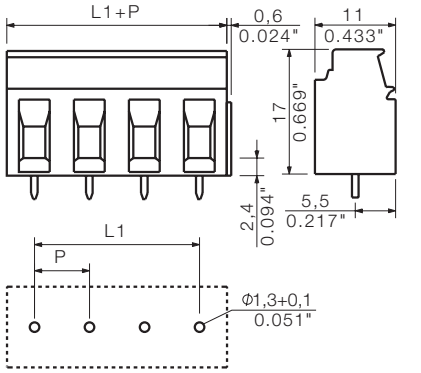
Note:

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

LP 7.62/../90



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm²	0.13...6		
Solid core H05(07) V-U	**mm²**	**0.5...6**		
Stranded H07 V-R		...6		
Flexible H05(07) V-K	mm²	0.5...4		
Flexible with ferrule	mm²	0.5...2.5		
Ferrule with plastic collar	mm²	0.5...2.5		
Stripping length	mm	6		
Screwdriver blade	mm	0.6 x 3.5		
According to norm		DIN 5264		
Tightening torque range	Nm	0.5...0.6		
Rated current, max.	**A**	**32**		**32**
At ambient temperature		20°C		40°C
For conductor cross-section	mm²	2.5		
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	**V**	**500**	**500**	**1000**
Rated impulse voltage	kV	6	6	6
UL / CUL (Use Group)		**B**	**C**	**D**
Rated voltage	**V**	**300**		**300**
Rated current	**A**	**20**		**10**
AWG conductor	**AWG**	**26-12**		
CSA (Use Group)		**B**	**C**	**D**
Rated voltage	V	300		300
Rated current	A	20		10
AWG conductor	AWG	26-12		
General data				
Type of insulation material		PA		
UL 94 flammability rating		V-2		
Contact base material		Copper alloy		
Material of contact surface		tinned		
Pin dimensions = d	mm	0.75 x 0.9		
Solder eyelet Ø = D	mm	1.3		
Solder eyelet Ø tolerance	mm	+ 0,1		

Accessories

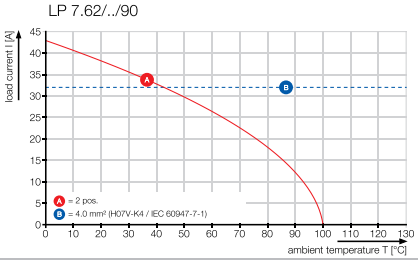
Note: Refer to the Accessories chapter for additional accessories.

Screwdriver		Order No.
	SDIS 0.6X3.5X100	9008390000
	SDS 0.6X3.5X100	9008330000

Ordering data

Solder pin length				3.2 mm
Colour				Orange
Pitch	**7.62 mm**			
Pol.	**L1**	**(inch)**	**Qty.**	**Order No.**
2	7.62	0.300	100	1594460000
3	15.24	0.600	100	1594470000

Representative deratings curve

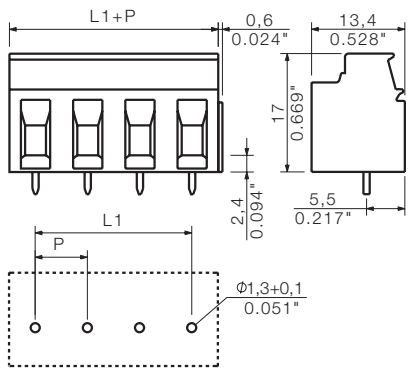


LPP 7.62/../90

with test point



Dimensioned drawing



Ordering data

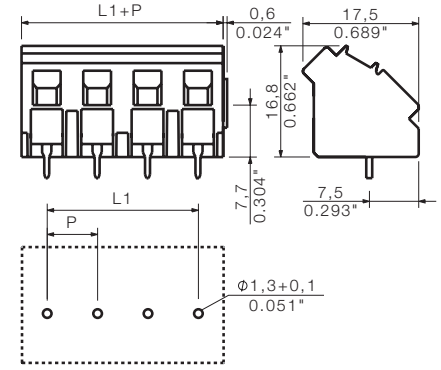
Solder pin length				3.2 mm
Colour				Orange
Pitch	7.62 mm			
Pol.	L1	(inch)	Qty.	Order No.
2	7.62	0.300	100	1594480000
3	15.24	0.600	100	1594490000

LP 7.62/../135

with test point



Dimensioned drawing



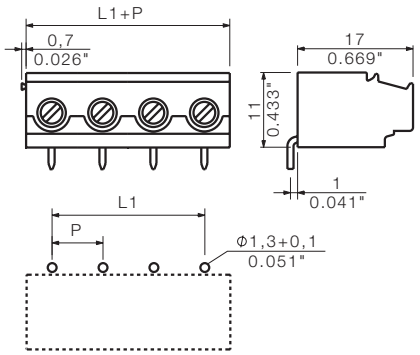
Ordering data

Solder pin length				3.2 mm
Colour				Orange
Pitch	7.62 mm			
Pol.	L1	(inch)	Qty.	Order No.
2	7.62	0.300	100	1595790000
3	15.24	0.600	100	1595830000

LP 7.62/../180



Dimensioned drawing

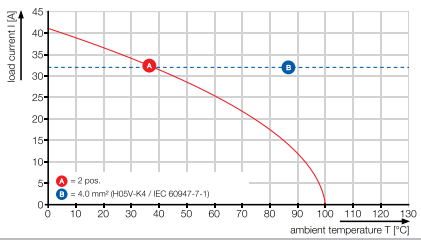


Ordering data

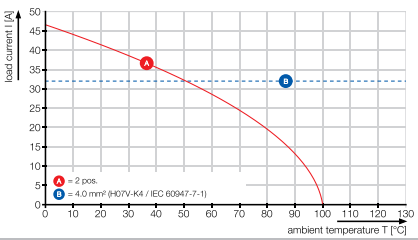
Solder pin length				3.2 mm
Colour				Orange
Pitch	7.62 mm			
Pol.	L1	(inch)	Qty.	Order No.
2	7.62	0.300	100	1753890000
3	15.24	0.600	100	1753900000

Additional deratings curves

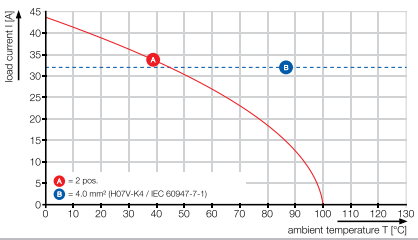
LPP 7.62/../90



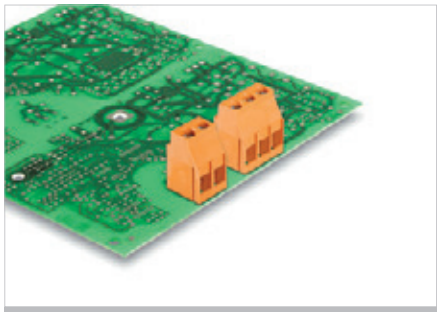
LP 7.62/../135



LP 7.62/../180



LL 5.00 & LL 5.08



Single-row PCB terminal with our proven clamping-yoke screw connection in 5.00 and 5.08 mm pitches, suitable for wire cross-sections up to 6.0 mm².

- Increased derating reserves because WEMID insulating material is used.
- Wire outlet direction of 90°.
- 2- and 3-pole block construction can be aligned together for higher pole counts.

Product data

IEC: 500 V / 32.5 A / 0.5 - 6 mm²
UL: 300 V / 20 A / AWG 28 - 12

For additional articles and information, refer to catalog.weidmueller.com

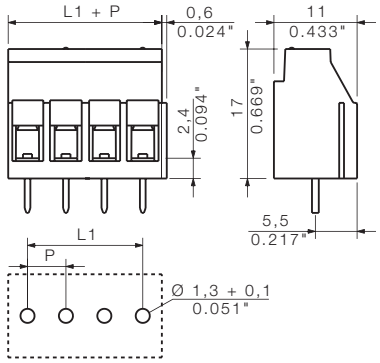
Note:

- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

LL 5.00/../90



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm²	0.08...6		
Solid core H05(07) V-U	**mm²**	**0.5...6**		
Stranded H07 V-R				
Flexible H05(07) V-K	mm²	0.5...4		
Flexible with ferrule	mm²	0.5...2.5		
Ferrule with plastic collar	mm²	0.5...2.5		
Stripping length	mm	6		
Screwdriver blade	mm	0.6 x 3.5		
According to norm		DIN 5264		
Tightening torque range	Nm	0.5...0.6		
Rated current, max.	**A**	**32.5**		**27.5**
At ambient temperature		20°C		40°C
For conductor cross-section	mm²	2.5		
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	**V**	**250**	**320**	**500**
Rated impulse voltage	kV	4	4	4
UL / CUL (Use Group)		**B**	**C**	**D**
Rated voltage	**V**	**300**		**300**
Rated current	**A**	**20**		**10**
AWG conductor	**AWG**	**28-12**		
CSA (Use Group)		**B**	**C**	**D**
Rated voltage	V	300		300
Rated current	A	20		10
AWG conductor	AWG	28-12		
General data				
Type of insulation material		Wemid (PA)		
UL 94 flammability rating		V-0		
Contact base material		Copper alloy		
Material of contact surface		tinned		
Pin dimensions = d	mm	0.75 x 0.9		
Solder eyelet Ø = D	mm	1.3		
Solder eyelet Ø tolerance	mm	+ 0,1		

Accessories

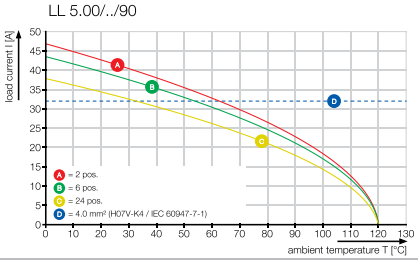
Note: Refer to the Accessories chapter for additional accessories.

Screwdriver		Order No.
	SDIS 0.6X3.5X100	9008390000
	SDS 0.6X3.5X100	9008330000

Ordering data

Solder pin length				3.2 mm
Colour				Orange
Pitch	**5.00 mm**			
Pol.	**L1**	**(inch)**	**Qty.**	**Order No.**
2	5.00	0.197	100	1934270000
3	10.00	0.394	100	1934280000
4	15.00	0.591	100	1001720000
5	20.00	0.788	50	1001730000
6	25.00	0.985	50	1001740000
7	30.00	1.182	50	1001750000
8	35.00	1.379	50	1001760000
9	40.00	1.576	50	1001770000
10	45.00	1.773	50	1001780000
11	50.00	1.970	50	1001790000
12	55.00	2.167	50	1001800000
13	60.00	2.364	50	1251330000
14	65.00	2.561	50	1001810000
15	70.00	2.758	50	1251340000
16	75.00	2.955	50	1001820000
17	80.00	3.152	20	1251350000
18	85.00	3.349	20	1251360000
19	90.00	3.546	20	1251370000
20	95.00	3.743	20	1251380000
21	100.00	3.940	20	1251390000
22	105.00	4.137	20	1251410000
23	110.00	4.334	20	1251420000
24	115.00	4.531	20	1001830000

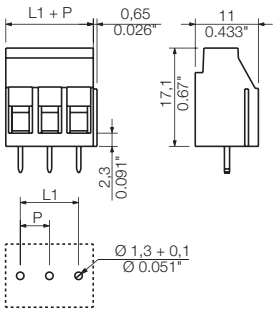
Representative deratings curve



LL 5.08/../90



Dimensioned drawing

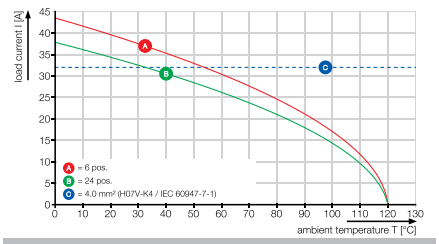


Ordering data

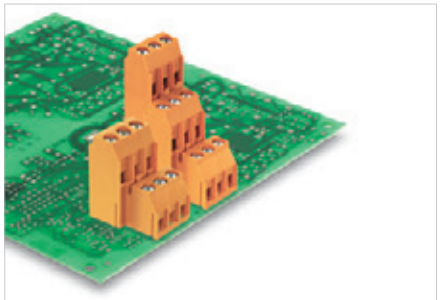
Solder pin length				3.2 mm
Colour				Orange
Pitch	**5.08 mm**			
Pol.	L1	(inch)	**Qty.**	**Order No.**
2	5.08	0.200	100	**1934250000**
3	10.16	0.400	100	**1934260000**
4	15.24	0.600	100	**1001850000**
5	20.32	0.800	50	**1001860000**
6	25.40	1.000	50	**1001870000**
7	30.48	1.200	50	**1001880000**
8	35.56	1.400	50	**1001890000**
9	40.64	1.600	50	**1001900000**
10	45.72	1.800	50	**1001910000**
11	50.80	2.000	50	**1001920000**
12	55.88	2.200	50	**1001930000**
13	60.96	2.400	50	**1001940000**
14	66.04	2.600	50	**1001950000**
15	71.12	2.800	50	**1001960000**
16	76.20	3.000	50	**1001970000**
17	81.28	3.200	20	**1001980000**
18	86.36	3.400	20	**1001990000**
19	91.44	3.600	20	**1002000000**
20	96.52	3.800	20	**1002010000**
21	101.60	4.000	20	**1002020000**
22	106.68	4.200	20	**1002030000**
23	111.76	4.400	20	**1002040000**
24	116.84	4.600	20	**1002050000**

Additional deratings curves

LL 5.08/../90



LL 5.00, multi level



Multi-level PCB terminal with our proven clamping-yoke screw connection in 5.00 mm pitch, suitable for wire cross-sections up to 6 mm².

- Increased derating reserves because WEMID insulating material is used.
- Wire outlet direction of 90°.
- Block construction can be aligned together for higher pole counts.

Product data

IEC: 500 V / 32.5 A / 0.5 - 6 mm²
UL: 300 V / 20 A / AWG 28 - 12

For additional articles and information, refer to catalog.weidmueller.com

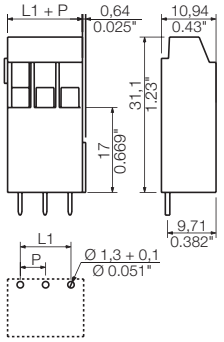
Note:

- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

LL1N 5.00/../90



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm²	0.08...6		
Solid core H05(07) V-U	**mm²**	**0.5...6**		
Stranded H07 V-R				
Flexible H05(07) V-K	mm²	0.5...4		
Flexible with ferrule	mm²	0.5...2.5		
Ferrule with plastic collar	mm²	0.5...2.5		
Stripping length	mm	6		
Screwdriver blade	mm	0.6 x 3.5		
According to norm		DIN 5264		
Tightening torque range	Nm	0.5...0.6		
Rated current, max.	**A**	**32.5**		**27.5**
At ambient temperature		20°C		40°C
For conductor cross-section	mm²	2.5		
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	**V**	**250**	**320**	**500**
Rated impulse voltage	kV	4	4	4
UL / CUL (Use Group)		**B**	**C**	**D**
Rated voltage	**V**	**300**		**300**
Rated current	**A**	**20**		**10**
AWG conductor	**AWG**		**28-12**	
CSA (Use Group)		**B**	**C**	**D**
Rated voltage	V	300		300
Rated current	A	20		10
AWG conductor	AWG		28-12	
General data				
Type of insulation material		Wemid (PA)		
UL 94 flammability rating		V-0		
Contact base material		Copper alloy		
Material of contact surface		tinned		
Pin dimensions = d	mm	0.75 x 0.9		
Solder eyelet Ø = D	mm	1.3		
Solder eyelet Ø tolerance	mm	+ 0,1		

Accessories

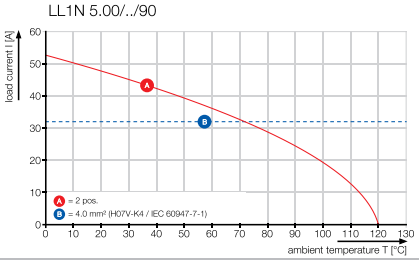
Note: Refer to the Accessories chapter for additional accessories.

Screwdriver		Order No.
	SDIS 0.6X3.5X100	9008390000
	SDS 0.6X3.5X100	9008330000

Ordering data

Solder pin length				3.2 mm
Colour				Orange
Pitch	**5.00 mm**			
Pol.	**L1**	**(inch)**	**Qty.**	**Order No.**
2	5.00	0.197	100	1975250000
3	10.00	0.394	100	1975260000
4	15.00	0.591	100	1975270000
5	20.00	0.788	50	1975280000
6	25.00	0.985	50	1975290000
7	30.00	1.182	50	1975300000
8	35.00	1.379	50	1975310000
9	40.00	1.576	50	1975320000
10	45.00	1.773	50	1975330000
11	50.00	1.970	50	1975340000
12	55.00	2.167	50	1975350000

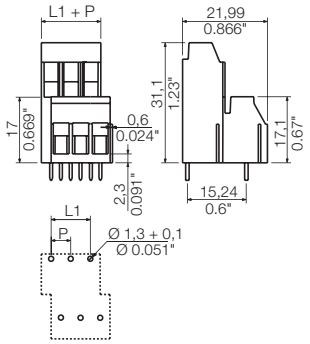
Representative deratings curve



LL2N 5.00/../90



Dimensioned drawing



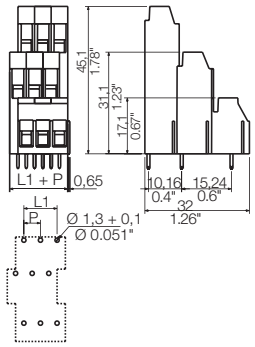
Ordering data

Solder pin length				3.2 mm
Colour				Orange
Pitch	**5.00 mm**			
Pol.	L1	(inch)	**Qty.**	**Order No.**
4	10.00	0.197	50	**1934310000**
8	15.00	0.591	50	**1977260000**
12	25.00	0.985	50	**1977280000**
16	35.00	1.379	20	**1977310000**
20	45.00	1.773	20	**1977330000**
24	55.00	2.167	10	**1977350000**
28	65.00	2.561	10	**1977370000**
32	75.00	2.955	10	**1977390000**
36	85.00	3.349	10	**1977410000**
40	95.00	3.743	10	**1977430000**
44	105.00	4.137	10	**1977450000**
48	115.00	4.531	10	**1977470000**

LL3R 5.00/../90



Dimensioned drawing

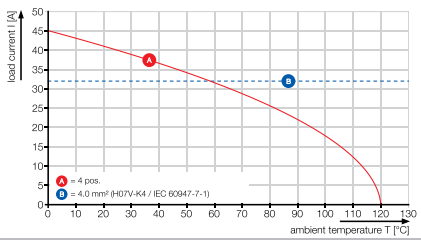


Ordering data

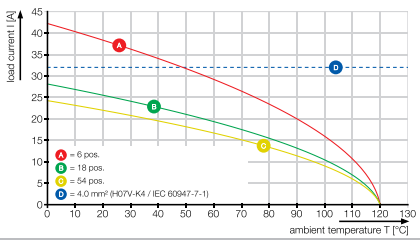
Solder pin length				3.2 mm
Colour				Orange
Pitch	**5.00 mm**			
Pol.	L1	(inch)	**Qty.**	**Order No.**
6	5.00	0.197	50	**1934360000**
12	15.00	0.591	50	**1978850000**
18	25.00	0.985	25	**1978870000**
24	35.00	1.379	20	**1978890000**
30	45.00	1.773	10	**1978910000**
36	55.00	2.167	10	**1978930000**
42	65.00	2.561	10	**1978950000**
48	75.00	2.955	10	**1978970000**
54	85.00	3.349	10	**1978990000**
60	95.00	3.743	5	**1979010000**
66	105.00	4.137	5	**1979030000**
72	115.00	4.531	5	**1979050000**

Additional deratings curves

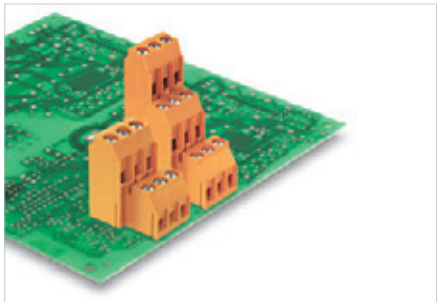
LL2N 5.00/../90



LL3R 5.00/../90



LL 5.08, multi level



Multi-level PCB terminal with our proven clamping-yoke screw connection in 5.08 mm pitch, suitable for wire cross-sections up to 6 mm².

- Increased derating reserves because WEMID insulating material is used.
- Wire outlet direction of 90°.
- Block construction can be aligned together for higher pole counts.

Product data

IEC: 500 V / 32.5 A / 0.5 - 6 mm²
UL: 300 V / 20 A / AWG 28 - 12

For additional articles and information, refer to catalog.weidmueller.com

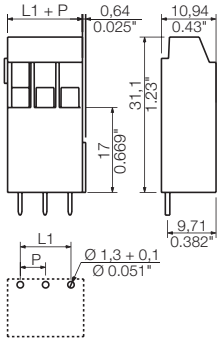
Note:

- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

LL1N 5.08/../90



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm²	0.08...6		
Solid core H05(07) V-U	**mm²**	**0.5...6**		
Stranded H07 V-R				
Flexible H05(07) V-K	mm²	0.5...4		
Flexible with ferrule	mm²	0.5...2.5		
Ferrule with plastic collar	mm²	0.5...2.5		
Stripping length	mm	6		
Screwdriver blade	mm	0.6 x 3.5		
According to norm		DIN 5264		
Tightening torque range	Nm	0.5...0.6		
Rated current, max.	**A**	**32.5**		**27.5**
At ambient temperature		20°C		40°C
For conductor cross-section	mm²	2.5		
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	**V**	**250**	**320**	**500**
Rated impulse voltage	kV	4	4	4
UL / CUL (Use Group)		**B**	**C**	**D**
Rated voltage	**V**	**300**		**300**
Rated current	**A**	**20**		**10**
AWG conductor	**AWG**	**28-12**		
CSA (Use Group)		**B**	**C**	**D**
Rated voltage	V	300		300
Rated current	A	20		10
AWG conductor	AWG	28-12		
General data				
Type of insulation material		Wemid (PA)		
UL 94 flammability rating		V-0		
Contact base material		Copper alloy		
Material of contact surface		tinned		
Pin dimensions = d	mm	0.75 x 0.9		
Solder eyelet Ø = D	mm	1.3		
Solder eyelet Ø tolerance	mm	+ 0,1		

Accessories

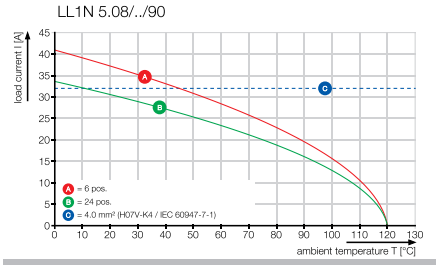
Note: Refer to the Accessories chapter for additional accessories.

Screwdriver		Order No.
	SDIS 0.6X3.5X100	9008390000
	SDS 0.6X3.5X100	9008330000

Ordering data

Solder pin length				3.2 mm
Colour				Orange
Pitch	**5.08 mm**			
Pol.	**L1**	**(inch)**	**Qty.**	**Order No.**
2	5.08	0.200	100	1975360000
3	10.16	0.400	100	1975370000
4	15.24	0.600	100	1975380000
5	20.32	0.800	50	1975390000
6	25.40	1.000	50	1975400000
7	30.48	1.200	50	1975410000
8	35.56	1.400	50	1975420000
9	40.64	1.600	50	1975430000
10	45.72	1.800	50	1975440000
11	50.80	2.000	50	1975460000
12	55.88	2.200	50	1975470000

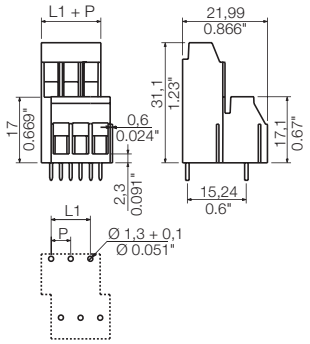
Representative deratings curve



LL2N 5.08/../90



Dimensioned drawing



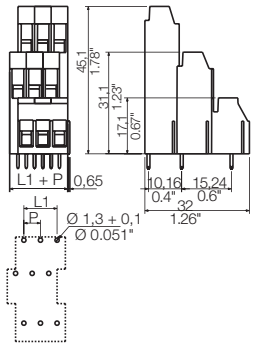
Ordering data

Solder pin length				3.2 mm
Colour				Orange
Pitch	**5.08 mm**			
Pol.	L1	(inch)	**Qty.**	**Order No.**
8	15.24	0.600	50	**1977480000**
12	25.40	1.000	50	**1977500000**
16	35.56	1.400	20	**1977520000**
20	45.72	1.800	20	**1977540000**
24	55.88	2.200	10	**1977560000**
28	66.04	2.600	10	**1977580000**
32	76.20	3.000	10	**1977600000**
36	86.36	3.400	10	**1977620000**
40	96.52	3.800	10	**1977640000**
44	106.68	4.200	10	**1977660000**
48	116.84	4.600	10	**1977680000**

LL3R 5.08/../90



Dimensioned drawing

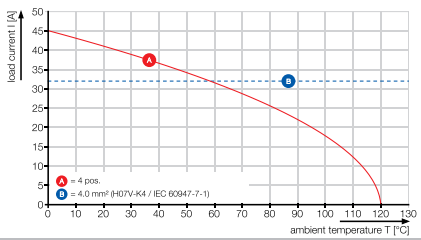


Ordering data

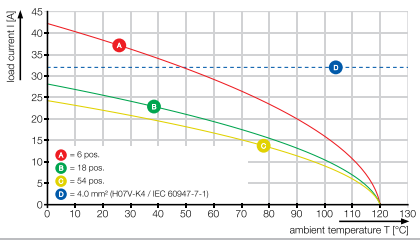
Solder pin length				3.2 mm
Colour				Orange
Pitch	**5.08 mm**			
Pol.	L1	(inch)	**Qty.**	**Order No.**
6	5.08	0.200	50	**1934340000**
12	15.24	0.600	50	**1979060000**
18	25.40	1.000	25	**1979080000**
24	35.56	1.400	20	**1979100000**
30	45.72	1.800	10	**1979120000**
36	55.88	2.200	10	**1979140000**
42	66.04	2.600	10	**1979160000**
48	76.20	3.000	10	**1979180000**
54	86.36	3.400	10	**1979200000**
60	96.52	3.800	5	**1979220000**
66	106.68	4.200	5	**1979240000**
72	116.84	4.600	5	**1979260000**

Additional deratings curves

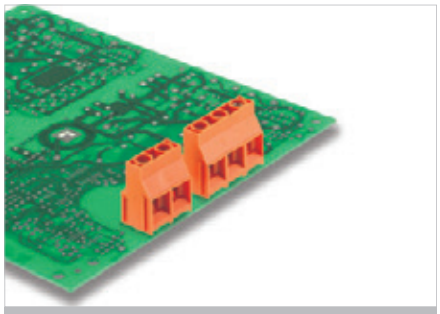
LL2N 5.08/../90



LL3R 5.08/../90



LL 9.52



Single-row PCB terminal with our proven clamping-yoke screw connection in 9.52 mm pitch, suitable for wire cross-sections up to 6 mm².

- Increased derating reserves because WEMID insulating material is used.
- Wire outlet direction of 90°.
- 2- and 3-pole block construction can be aligned together for higher pole counts.

Product data

IEC: 1000 V / 32 A / 0.18 - 6 mm²
UL: 300 V / 30 A / AWG 26 - 10

For additional articles and information, refer to catalog.weidmueller.com

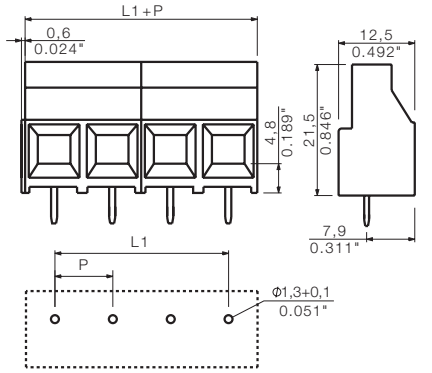
Note:

- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

LL 9.52/../90



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm²	0.18...6		
Solid core H05(07) V-U	**mm²**	**0.18...6**		
Stranded H07 V-R				
Flexible H05(07) V-K	mm²	0.22...4		
Flexible with ferrule	mm²	0.5...4		
Ferrule with plastic collar	mm²	0.5...2.5		
Stripping length	mm	7		
Screwdriver blade	mm	0.8 x 4.0		
According to norm		DIN 5264		
Tightening torque range	Nm	0.5...0.6		
Rated current, max.	**A**	**32**		**32**
At ambient temperature		20°C		40°C
For conductor cross-section	mm²	4		
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	**V**	**690**	**1000**	**1000**
Rated impulse voltage	kV	8	8	6
UL / CUL (Use Group)		**B**	**C**	**D**
Rated voltage	**V**	**300**	**300**	
Rated current	**A**	**30**	**30**	
AWG conductor	**AWG**		**26-10**	
CSA (Use Group)		**B**	**C**	**D**
Rated voltage	V	300	300	
Rated current	A	30	35	
AWG conductor	AWG		26-10	
General data				
Type of insulation material		Wemid (PA)		
UL 94 flammability rating		V-0		
Contact base material		Copper alloy		
Material of contact surface		tinned		
Pin dimensions = d	mm	0.5 x 1.0		
Solder eyelet Ø = D	mm	1.3		
Solder eyelet Ø tolerance	mm	+ 0,1		

Accessories

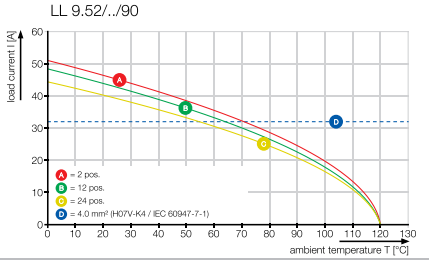
Note: Refer to the Accessories chapter for additional accessories.

Screwdriver		Order No.
	SDIS 0.8X4.0X100	9008400000
	SDS 0.8X4.0X100	9008340000
Crosshead screwdriver		
	SDK PZ1	9008530000

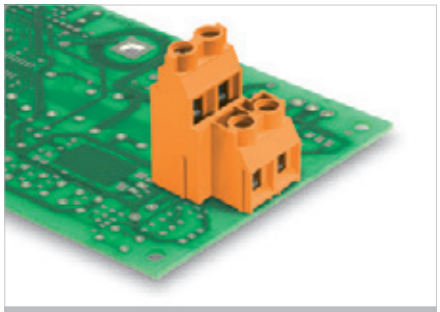
Ordering data

Solder pin length				5 mm
Colour				Orange
Pitch	**9.52 mm**			
Pol.	**L1**	**(inch)**	**Qty.**	**Order No.**
2	9.52	0.375	100	1724680000
3	19.04	0.750	100	1724690000

Representative deratings curve



LL 9.52, multi level



Double-level PCB terminal with our proven clamping-yoke screw connection in 9.52 mm pitch, suitable for wire cross-sections up to 6 mm².

- Increased derating reserves because WEMID insulating material is used.
- Wire outlet direction of 90°.
- Block construction can be aligned together for higher pole counts.

Product data

IEC: 1000 V / 32 A / 0.18 - 6 mm²
UL: 300 V / 30 A / AWG 26 - 10

For additional articles and information, refer to catalog.weidmueller.com

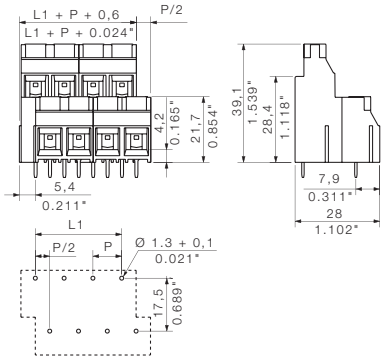
Note:

- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

LL2N 9.52/../90



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm²	0.18...6		
Solid core H05(07) V-U	**mm²**	**0.18...6**		
Stranded H07 V-R				
Flexible H05(07) V-K	mm²	0.22...4		
Flexible with ferrule	mm²	0.5...2.5		
Ferrule with plastic collar	mm²	0.5...2.5		
Stripping length	mm	7		
Screwdriver blade	mm	0.8 x 4.0		
According to norm		DIN 5264		
Tightening torque range	Nm	0.5...0.6		
Rated current, max.	**A**	**32**		**32**
At ambient temperature		20°C		40°C
For conductor cross-section	mm²	4		
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	**V**	**690**	**690**	**1000**
Rated impulse voltage	kV	6	6	6
UL / CUL (Use Group)		**B**	**C**	**D**
Rated voltage	**V**	**300**	**300**	
Rated current	**A**	**30**	**30**	
AWG conductor	**AWG**		**26-10**	
CSA (Use Group)		**B**	**C**	**D**
Rated voltage	V	300	300	
Rated current	A	30	30	
AWG conductor	AWG		26-10	
General data				
Type of insulation material			Wemid (PA)	
UL 94 flammability rating			V-0	
Contact base material			Copper alloy	
Material of contact surface			tinned	
Pin dimensions = d	mm		0.5 x 1.0	
Solder eyelet Ø = D	mm		1.3	
Solder eyelet Ø tolerance	mm		+ 0,1	

Accessories

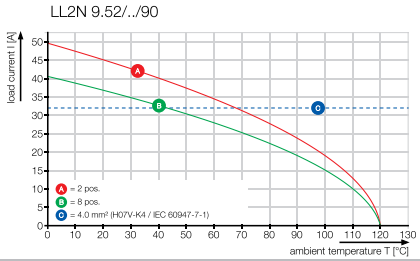
Note: Refer to the Accessories chapter for additional accessories.

Screwdriver		Order No.
	SDIS 0.8X4.0X100	9008400000
	SDS 0.8X4.0X100	9008340000
Crosshead screwdriver		
	SDK PZ1	9008530000

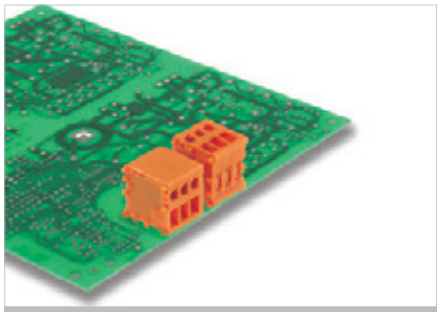
Ordering data

Solder pin length				5 mm
Colour				Orange
Pitch	**9.52 mm**			
Pol.	**L1**	**(inch)**	**Qty.**	**Order No.**
4	9.52	3.750	10	1926350000
8	28.56	11.250	10	1926360000
12	47.60	18.750	10	1926370000
16	66.64	26.250	5	1926380000
20	85.68	33.750	5	1926390000
24	104.72	41.250	5	1926400000

Representative deratings curve



TOP 1.5GS/../ -5.08



PCB terminal with TOP screw connection, in 5.08 mm pitch, for wire cross-sections up to 2.5 mm².

- Wire entry and screw connection in the same direction.
- In versions with 90° (horizontal) or 180° (vertical) angle to PCB.

Product data

IEC: 630 V / 24 A / 0.5 - 2.5 mm²
UL: 300 V / 10 A / AWG 26 - 14

For additional articles and information, refer to catalog.weidmueller.com

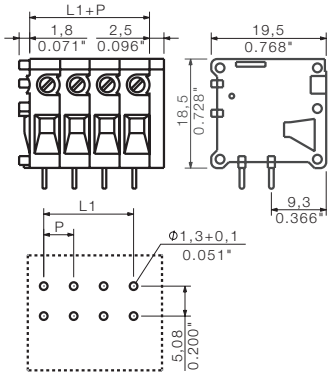
Note:

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- Crimp form A for wire end ferrules with PZ 6/5 crimping tool are recommended for the largest cable sizes.
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

TOP 1.5GS/../90-5.08



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm²	0.13...2.5		
Solid core H05(07) V-U	**mm²**	**0.5...2.5**		
Stranded H07 V-R				
Flexible H05(07) V-K	mm²	0.5...2.5		
Flexible with ferrule	mm²	0.5...2.5		
Ferrule with plastic collar	mm²	0.5...2.5		
Stripping length	mm	10		
Screwdriver blade	mm	0.6 x 3.5		
According to norm		DIN 5264		
Tightening torque range	Nm	0.4...0.5		
Rated current, max.	**A**	**24**		**21**
At ambient temperature		20°C		40°C
For conductor cross-section	mm²	2.5		
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	**V**	**250**	**320**	**630**
Rated impulse voltage	kV	2.5	2.5	2.5
UL / CUL (Use Group)		**B**	**C**	**D**
Rated voltage	**V**	**300**		**300**
Rated current	**A**	**10**		**10**
AWG conductor	**AWG**	**26-14**		
CSA (Use Group)		**B**	**C**	**D**
Rated voltage	V	300		300
Rated current	A	10		10
AWG conductor	AWG	26-14		
General data				
Type of insulation material		PA		
UL 94 flammability rating		V-2		
Contact base material		CuZn		
Material of contact surface		tinned		
Pin dimensions = d	mm	0.8 x 1.0		
Solder eyelet Ø = D	mm	1.3		
Solder eyelet Ø tolerance	mm	+ 0,1		

Accessories

Note: Refer to the Accessories chapter for additional accessories.

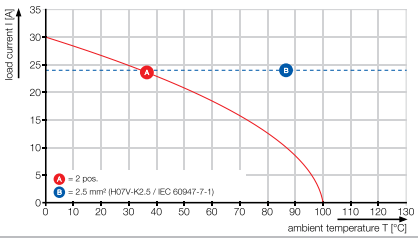
Mounting block		Order No.
	TOP1.5GS BB OR	1539860000
Screwdriver		
	SDIS 0.6X3.5X100	9008390000
	SDS 0.6X3.5X100	9008330000

Ordering data

Solder pin length				3.5 mm
Colour				Orange
Pitch	**5.08 mm**			
Pol.	**L1**	**(inch)**	**Qty.**	**Order No.**
2	5.08	0.200	100	0641960000
3	10.16	0.400	100	0642060000
4	15.24	0.600	50	0642160000
5	20.32	0.800	50	1578820000
6	25.40	1.000	50	0593860000
7	30.48	1.200	50	0593960000
8	35.56	1.400	50	0594060000
9	40.64	1.600	50	0594160000
10	45.72	1.800	50	0642260000
11	50.80	2.000	50	0594260000
12	55.88	2.200	50	0594360000
13	60.96	2.400	50	0594460000
14	66.04	2.600	50	0594560000
15	71.12	2.800	50	0594660000
16	76.20	3.000	20	0642360000
17	81.28	3.200	20	0594760000
18	86.36	3.400	20	1707040000
19	91.44	3.600	10	0594960000
20	96.52	3.800	10	0595060000
21	101.60	4.000	10	0595160000
22	106.68	4.200	10	0595260000
23	111.76	4.400	10	0595360000
24	116.84	4.600	10	0595460000

Representative deratings curve

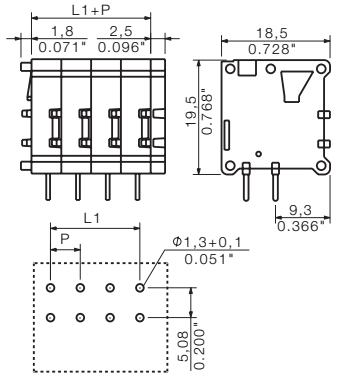
TOP 1.5GS/../90-5.08



TOP 1.5GS/../180-5.08



Dimensioned drawing

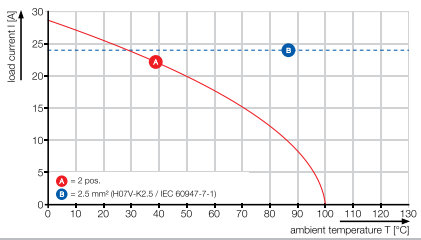


Ordering data

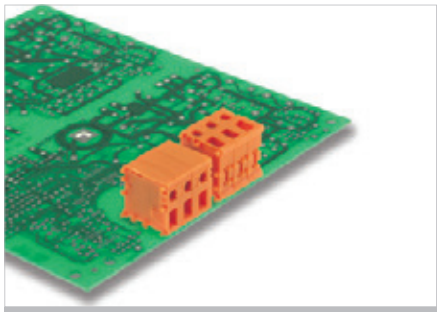
Solder pin length				4.5 mm
Colour				Orange
Pitch	**5.08 mm**			
Pol.	L1	(inch)	**Qty.**	**Order No.**
2	5.08	0.200	100	**0569960000**
3	10.16	0.400	100	**0570160000**
4	15.24	0.600	50	**0570360000**
5	20.32	0.800	50	**0597360000**
6	25.40	1.000	50	**0597460000**
7	30.48	1.200	50	**1695700000**
8	35.56	1.400	25	**0597660000**
9	40.64	1.600	20	**1474660000**
10	45.72	1.800	20	**0570560000**
11	50.80	2.000	20	**1474760000**
12	55.88	2.200	20	**0597960000**
13	60.96	2.400	20	**1724740000**
14	66.04	2.600	20	**0598160000**
15	71.12	2.800	20	**1782490000**
16	76.20	3.000	20	**0570760000**
17	81.28	3.200	20	**0598360000**
18	86.36	3.400	20	**0598460000**
19	91.44	3.600	20	**0598560000**
20	96.52	3.800	20	**0598660000**
21	101.60	4.000	10	**0598760000**
22	106.68	4.200	10	**0598860000**
23	111.76	4.400	10	**0598960000**
24	116.84	4.600	10	**0599060000**

Additional deratings curves

TOP 1.5GS/../180-5.08



TOP 1.5GS/../ -7.62



PCB terminal with TOP screw connection, in 7.62 mm pitch, for wire cross-sections up to 2.5 mm².

- Wire entry and screw connection in the same direction.
- In versions with 90° (horizontal) or 180° (vertical) angle to PCB.

Product data

IEC: 1000 V / 24 A / 0.5 - 2.5 mm²
UL: 300 V / 10 A / AWG 26 - 14

For additional articles and information, refer to catalog.weidmueller.com

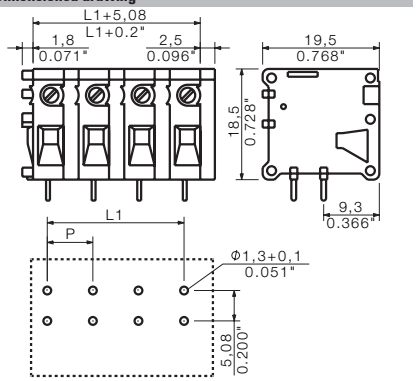
Note:

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- Crimp form A for wire end ferrules with PZ 6/5 crimping tool are recommended for the largest cable sizes.
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

TOP 1.5GS/../90-7.62



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm²	0.13...2.5		
Solid core H05(07) V-U	**mm²**	**0.5...2.5**		
Stranded H07 V-R				
Flexible H05(07) V-K	mm²	0.5...2.5		
Flexible with ferrule	mm²	0.5...2.5		
Ferrule with plastic collar	mm²	0.5...2.5		
Stripping length	mm	10		
Screwdriver blade	mm	0.6 x 3.5		
According to norm		DIN 5264		
Tightening torque range	Nm	0.4...0.5		
Rated current, max.	**A**	**24**		**21**
At ambient temperature		20°C		40°C
For conductor cross-section	mm²	2.5		
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	**V**	**400**	**630**	**1000**
Rated impulse voltage	kV	4	4	4
UL / CUL (Use Group)		**B**	**C**	**D**
Rated voltage	**V**	**300**		**300**
Rated current	**A**	**10**		**10**
AWG conductor	**AWG**	**26-14**		
CSA (Use Group)		**B**	**C**	**D**
Rated voltage	V	300		300
Rated current	A	10		10
AWG conductor	AWG	26-14		
General data				
Type of insulation material		PA		
UL 94 flammability rating		V-2		
Contact base material		CuZn		
Material of contact surface		tinned		
Pin dimensions = d	mm	0.8 x 1.0		
Solder eyelet Ø = D	mm	1.3		
Solder eyelet Ø tolerance	mm	+ 0,1		

Accessories

Note: Refer to the Accessories chapter for additional accessories.

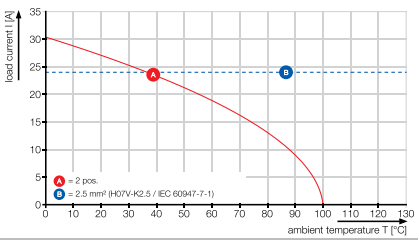
Mounting block		Order No.
	TOP1.5GS BB OR	1539860000
Screwdriver		
	SDIS 0.6X3.5X100	9008390000
	SDS 0.6X3.5X100	9008330000

Ordering data

Solder pin length				3.5 mm
Colour				Orange
Pitch	**7.62 mm**			
Pol.	**L1**	**(inch)**	**Qty.**	**Order No.**
2	7.62	0.300	100	0393360000
3	15.24	0.600	100	0393460000
4	22.86	0.900	50	0393560000
5	30.48	1.200	25	0393660000
6	38.10	1.500	20	1683990000
7	45.72	1.800	20	1647310000
8	53.34	2.100	20	0642460000
9	60.96	2.400	20	0393960000
10	68.58	2.700	20	0642560000
11	76.20	3.000	20	0394060000
12	83.82	3.300	20	0394160000

Representative deratings curve

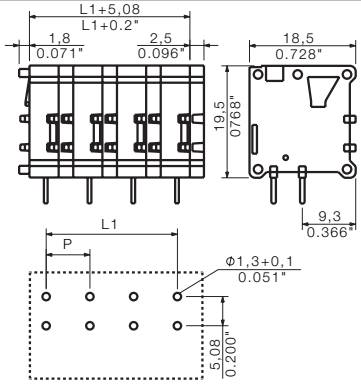
TOP 1.5GS/../90-7.62



TOP 1.5GS/../180-7.62



Dimensioned drawing

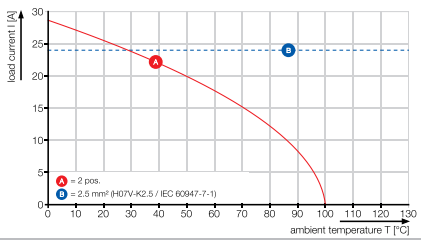


Ordering data

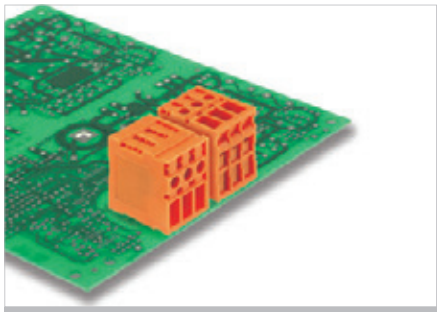
Solder pin length				4.5 mm
Colour				Orange
Pitch	**7.62 mm**			
Pol.	L1	(inch)	**Qty.**	**Order No.**
2	7.62	0.300	100	**0391360000**
3	15.24	0.600	50	**0391460000**
4	22.86	0.900	50	**0391560000**
5	30.48	1.200	25	**1490460000**
6	38.10	1.500	25	**1597060000**
7	45.72	1.800	25	**1597070000**
8	53.34	2.100	20	**0570960000**
9	60.96	2.400	20	**1597080000**
10	68.58	2.700	20	**0571160000**
11	76.20	3.000	20	**1597090000**
12	83.82	3.300	20	**0392160000**

Additional deratings curves

TOP 1.5GS/../180-7.62



TOP 4GS/../ -6.35



PCB terminal with TOP screw connection, in 6.35 mm pitch, for wire cross-sections up to 6.0 mm².

- Wire entry and screw connection in the same direction.
- In versions with 90° (horizontal) or 180° (vertical) angle to PCB.

Product data

IEC: 320 V / 32 A / 0.5 - 6 mm²
UL: 300 V / 30 A / AWG 26 - 10

For additional articles and information, refer to catalog.weidmueller.com

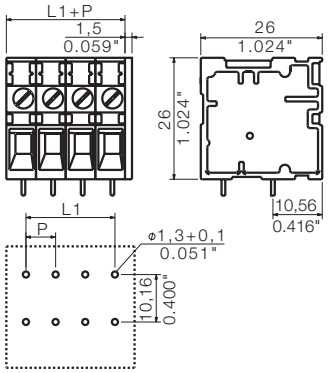
Note:

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- Crimp form A for wire end ferrules with PZ 6/5 crimping tool are recommended for the largest cable sizes.
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

TOP 4GS/../90-6.35



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm²	0.13...6		
Solid core H05(07) V-U	**mm²**	**0.5...6**		
Stranded H07 V-R				
Flexible H05(07) V-K	mm²	0.5...4		
Flexible with ferrule	mm²	0.5...4		
Ferrule with plastic collar	mm²	0.5...4		
Stripping length	mm	13		
Screwdriver blade	mm	0.6 x 3.5		
According to norm		DIN 5264		
Tightening torque range	Nm	0.5...0.6		
Rated current, max.	**A**	**32**		**32**
At ambient temperature		20°C		40°C
For conductor cross-section	mm²	4		
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	**V**	**320**	**320**	**320**
Rated impulse voltage	kV	2.5	2.5	2.5
UL / CUL (Use Group)		**B**	**C**	**D**
Rated voltage	**V**	**300**		**300**
Rated current	**A**	**30**		**10**
AWG conductor	**AWG**		**26-10**	
CSA (Use Group)		**B**	**C**	**D**
Rated voltage	V	300		300
Rated current	A	30		10
AWG conductor	AWG		26-10	
General data				
Type of insulation material		PA		
UL 94 flammability rating		V-2		
Contact base material		E-Cu		
Material of contact surface		tinned		
Pin dimensions = d	mm	0.8 x 0.8		
Solder eyelet Ø = D	mm	1.3		
Solder eyelet Ø tolerance	mm	+ 0,1		

Accessories

Note: Refer to the Accessories chapter for additional accessories.

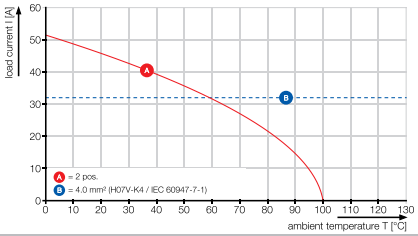
Screwdriver		Order No.
	SDIS 0.6X3.5X100	9008390000
	SDS 0.6X3.5X100	9008330000

Ordering data

Solder pin length				3.5 mm
Colour				Orange
Pitch	**6.35 mm**			
Pol.	**L1**	**(inch)**	**Qty.**	**Order No.**
2	6.35	0.250	100	1401760000
3	12.70	0.500	100	1650300000
4	19.05	0.750	50	1786030000
5	25.40	1.000	50	1786040000
6	31.75	1.250	50	1786050000
7	38.10	1.500	50	1786060000
8	44.45	1.750	50	1667910000
9	50.80	2.000	50	1786070000
10	57.15	2.250	50	1786080000
11	63.50	2.500	50	1786090000
12	69.85	2.750	50	1786100000

Representative deratings curve

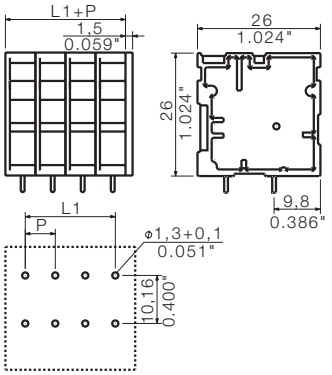
TOP 4GS/../90-6.35



TOP 4GS/../180-6.35



Dimensioned drawing

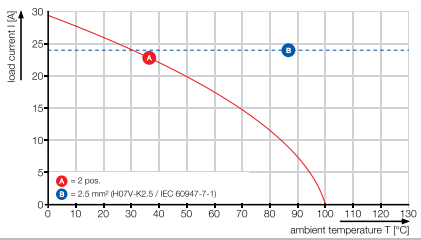


Ordering data

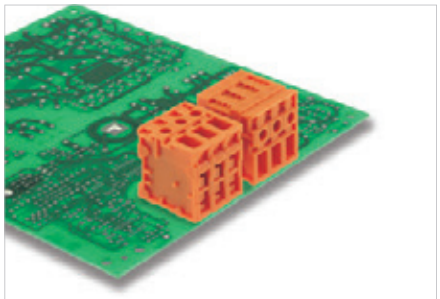
Solder pin length				3.5 mm
Colour				Orange
Pitch	**6.35 mm**			
Pol.	L1	(inch)	**Qty.**	**Order No.**
2	6.35	0.250	100	**1786190000**
3	12.70	0.500	100	**1786200000**
4	19.05	0.750	50	**1786210000**
5	25.40	1.000	50	**1786220000**
6	31.75	1.250	50	**1786230000**
7	38.10	1.500	50	**1786240000**
8	44.45	1.750	50	**1786250000**
9	50.80	2.000	50	**1786260000**
10	57.15	2.250	50	**1786270000**
11	63.50	2.500	50	**1786280000**
12	69.85	2.750	50	**1786290000**

Additional deratings curves

TOP 4GS/../180-6.35



TOP 4GS/../ -7.62



PCB terminal with TOP screw connection, in 7.62 mm pitch, for wire cross-sections up to 6.0 mm².

- Wire entry and screw connection in the same direction.
- In versions with 90° (horizontal) or 180° (vertical) angle to PCB.

Product data

IEC: 1000 V / 32 A / 0.5 - 6 mm²
UL: 300 V / 30 A / AWG 26 - 10

For additional articles and information, refer to catalog.weidmueller.com

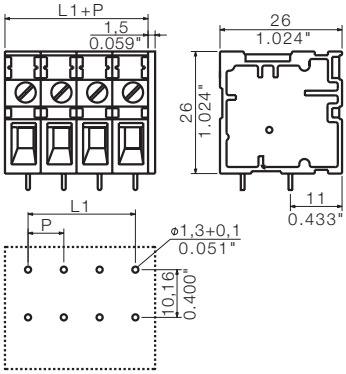
Note:

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- Crimp form A for wire end ferrules with PZ 6/5 crimping tool are recommended for the largest cable sizes.
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

TOP 4GS/../90-7.62



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm²	0.13...6		
Solid core H05(07) V-U	**mm²**	**0.5...6**		
Stranded H07 V-R				
Flexible H05(07) V-K	mm²	0.5...4		
Flexible with ferrule	mm²	0.5...4		
Ferrule with plastic collar	mm²	0.5...4		
Stripping length	mm	13		
Screwdriver blade	mm	0.6 x 3.5		
According to norm		DIN 5264		
Tightening torque range	Nm	0.5...0.6		
Rated current, max.	**A**	**32**		**32**
At ambient temperature		20°C		40°C
For conductor cross-section	mm²	4		
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	**V**	**500**	**630**	**1000**
Rated impulse voltage	kV	4	4	4
UL / CUL (Use Group)		**B**	**C**	**D**
Rated voltage	**V**	**300**		**300**
Rated current	**A**	**30**		**10**
AWG conductor	**AWG**		**26-10**	
CSA (Use Group)		**B**	**C**	**D**
Rated voltage	V	300		300
Rated current	A	30		10
AWG conductor	AWG		26-10	
General data				
Type of insulation material		PA		
UL 94 flammability rating		V-2		
Contact base material		E-Cu		
Material of contact surface		tinned		
Pin dimensions = d	mm	0.8 x 0.8		
Solder eyelet Ø = D	mm	1.3		
Solder eyelet Ø tolerance	mm	+ 0,1		

Accessories

Note: Refer to the Accessories chapter for additional accessories.

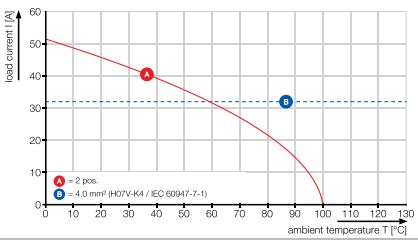
Screwdriver		Order No.
	SDIS 0.6X3.5X100	9008390000
	SDS 0.6X3.5X100	9008330000

Ordering data

Solder pin length				3.5 mm
Colour				Orange
Pitch	**7.62 mm**			
Pol.	**L1**	**(inch)**	**Qty.**	**Order No.**
2	7.62	0.300	50	0289660000
3	15.24	0.600	50	0289760000
4	22.86	0.900	50	0290160000
5	30.48	1.200	50	1698740000
6	38.10	1.500	50	1786410000
7	45.72	1.800	50	1647300000
8	53.34	2.100	50	1786420000
9	60.96	2.400	50	1786430000
10	68.58	2.700	50	1786440000
11	76.20	3.000	50	1759860000
12	83.82	3.300	50	1786450000

Representative deratings curve

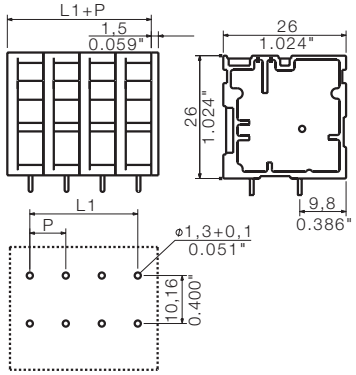
TOP 4GS/../90-7.62



TOP 4GS/../180-7.62



Dimensioned drawing

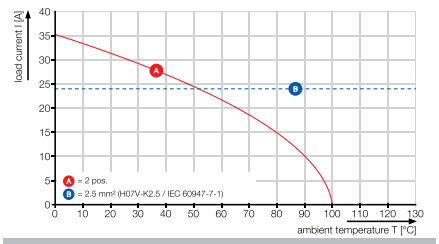


Ordering data

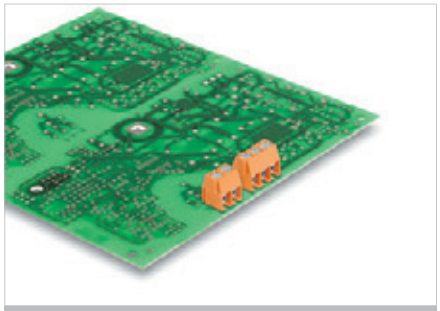
Solder pin length				3.5 mm
Colour				Orange
Pitch	**7.62 mm**			
Pol.	L1	(inch)	**Qty.**	**Order No.**
2	7.62	0.300	50	**0298360000**
3	15.24	0.600	50	**0298460000**
4	22.86	0.900	50	**0298560000**
5	30.48	1.200	50	**1786540000**
6	38.10	1.500	50	**1494560000**
7	45.72	1.800	50	**1786550000**
8	53.34	2.100	50	**1786560000**
9	60.96	2.400	50	**1571700000**
10	68.58	2.700	50	**1786570000**
11	76.20	3.000	50	**1786580000**
12	83.82	3.300	50	**1749170000**

Additional deratings curves

TOP 4GS/../180-7.62



PS 3.5/../90



Very compact PCB terminal with pressure-clamp screw connection, in 3.5 mm pitch for wire cross-sections up to 1.5 mm².

- Increased derating reserves because WEMID insulating material is used.
- Wire outlet direction of 90°.
- 2- and 3-pole block construction can be aligned together for higher pole counts.

Product data

IEC: 320 V / 17.5 A / 0.2 - 1.5 mm²
UL: 300 V / 10 A / AWG 28 - 16

For additional articles and information, refer to catalog.weidmueller.com

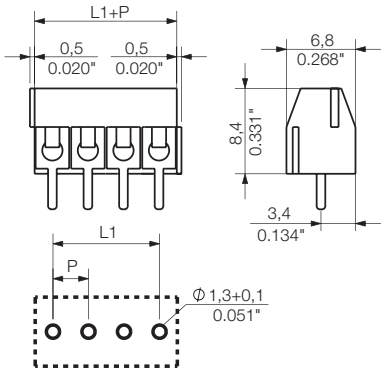
Note:

- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- The data given under CSA relates to a cUL approval - E60693
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

PS 3.5/../90



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm²	0.08...1.5		
Solid core H05(07) V-U	**mm²**	**0.2...1.5**		
Stranded H07 V-R				
Flexible H05(07) V-K	mm²	0.2...1.5		
Flexible with ferrule	mm²	0.25...0.75		
Ferrule with plastic collar	mm²	0.25...0.75		
Stripping length	mm	4		
Screwdriver blade	mm	0.4 x 2.5		
According to norm		DIN 5264		
Tightening torque range	Nm	0.2...0.25		
Rated current, max.	**A**	**17.5**		**17.5**
At ambient temperature		20°C		40°C
For conductor cross-section	mm²	0.75		
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	**V**	**160**	**160**	**320**
Rated impulse voltage	kV	2.5	2.5	2.5
UL / CUL (Use Group)		**B**	**C**	**D**
Rated voltage	**V**	**300**		**300**
Rated current	**A**	**10**		**10**
AWG conductor	**AWG**		**28-16**	
CSA (Use Group)		**B**	**C**	**D**
Rated voltage	V	300		
Rated current	A	10		
AWG conductor	AWG		28-16	
General data				
Type of insulation material		Wemid (PA)		
UL 94 flammability rating		V-0		
Contact base material		Copper alloy		
Material of contact surface		tinned		
Pin dimensions = d	mm	0.8		
Solder eyelet Ø = D	mm	1.3		
Solder eyelet Ø tolerance	mm	+ 0,1		

Accessories

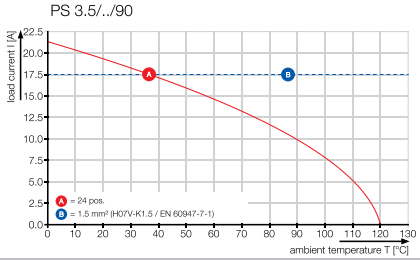
Note: Refer to the Accessories chapter for additional accessories.

Screwdriver		Order No.
	SDIS 0.6X3.5X100	9008390000

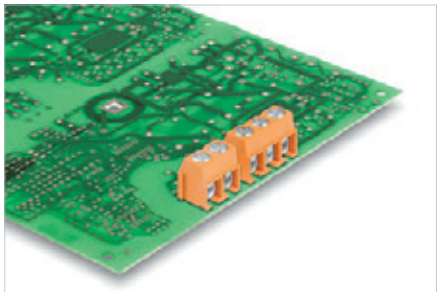
Ordering data

Solder pin length				3.5 mm
Colour				Orange
Pitch	**3.50 mm**			
Pol.	**L1**	**(inch)**	**Qty.**	**Order No.**
2	3.50	0.138	100	1912320000
3	7.00	0.276	100	1912330000
4	10.50	0.413	100	1912340000
5	14.00	0.551	100	1912350000
6	17.50	0.689	100	1912360000
7	21.00	0.827	100	1912370000
8	24.50	0.965	100	1912380000
9	28.00	1.102	100	1912390000
10	31.50	1.240	100	1912400000
11	35.00	1.378	100	1912410000
12	38.50	1.516	100	1912420000

Representative deratings curve



PM 5.00/../90



PCB terminal with pressure-clamp screw connection in 5.00 and 5.08 mm pitches for wire cross-sections up to 2.5 mm².

- Increased derating reserves because WEMID insulating material is used.
- Wire outlet direction of 90°.
- 2- and 3-pole block construction can be aligned together for higher pole counts.

Product data

IEC: 600 V / 24 A / 0.13 - 2.5 mm²
UL: 300 V / 15 A / AWG 26 - 14

For additional articles and information, refer to catalog.weidmueller.com

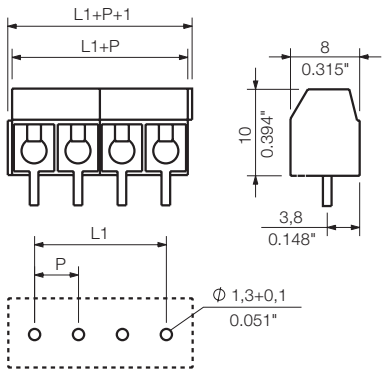
Note:

- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- The data given under CSA relates to a cUL approval - E60693
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

PM 5.00/../90



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm²	0.13...2.5		
Solid core H05(07) V-U	**mm²**	**0.13...2.5**		
Stranded H07 V-R				
Flexible H05(07) V-K	mm²	0.13...2.5		
Flexible with ferrule	mm²	0.25...1.5		
Ferrule with plastic collar	mm²	0.25...1.5		
Stripping length	mm	6		
Screwdriver blade	mm	0.6 x 3.5		
According to norm		DIN 5264		
Tightening torque range	Nm	0.4...0.5		
Rated current, max.	**A**	**24**		**24**
At ambient temperature		20°C		40°C
For conductor cross-section	mm²		1.5	
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	**V**	**250**	**250**	**600**
Rated impulse voltage	kV	4	4	4
UL / CUL (Use Group)		**B**	**C**	**D**
Rated voltage	**V**	**300**		**300**
Rated current	**A**	**15**		**10**
AWG conductor	**AWG**		**26-14**	
CSA (Use Group)		**B**	**C**	**D**
Rated voltage	V	300		300
Rated current	A	15		10
AWG conductor	AWG		26-14	
General data				
Type of insulation material		Wemid (PA)		
UL 94 flammability rating		V-0		
Contact base material		Copper alloy		
Material of contact surface		tinned		
Pin dimensions = d	mm	1.0		
Solder eyelet Ø = D	mm	1.3		
Solder eyelet Ø tolerance	mm	+ 0,1		

Accessories

Note: Refer to the Accessories chapter for additional accessories.

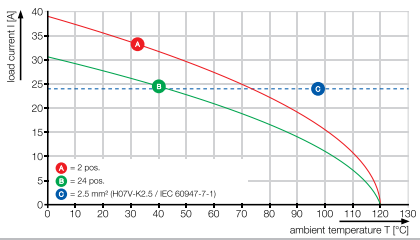
Screwdriver		Order No.
	SDIS 0.6X3.5X100	9008390000

Ordering data

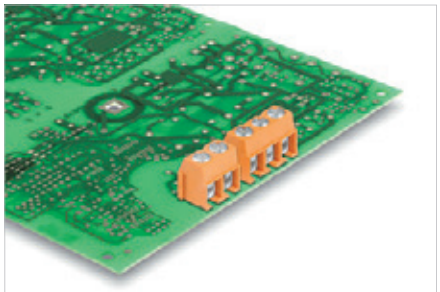
Solder pin length				3.5 mm
Colour				Orange
Pitch	**5.00 mm**			
Pol.	**L1**	**(inch)**	**Qty.**	**Order No.**
2	5.00	0.197	500	1791610000
3	10.00	0.394	500	1791620000
4	15.00	0.591	100	1234650000
5	20.00	0.787	100	1234670000
6	10.00	0.394	100	1234680000
7	30.00	1.181	100	1234690000
8	35.00	1.378	100	1234700000
9	40.00	1.575	100	1234710000
10	45.00	1.772	100	1234720000
11	50.00	1.969	100	1234730000
12	55.00	2.165	100	1234740000

Representative deratings curve

PM 5.00/../90 & PM 5.08/../90



PM 5.08/../90



PCB terminal with pressure-clamp screw connection in 5.00 and 5.08 mm pitches for wire cross-sections up to 2.5 mm².

- Increased derating reserves because WEMID insulating material is used.
- Wire outlet direction of 90°.
- 2- and 3-pole block construction can be aligned together for higher pole counts.

Product data

IEC: 600 V / 24 A / 0.13 - 2.5 mm²
UL: 300 V / 15 A / AWG 26 - 14

For additional articles and information, refer to catalog.weidmueller.com

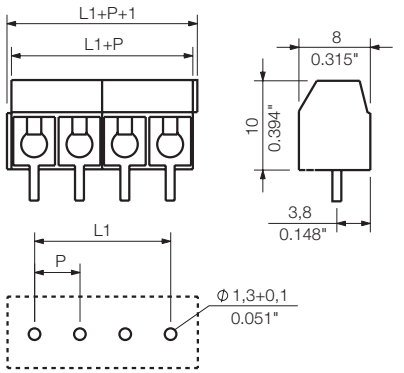
Note:

- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- The data given under CSA relates to a cUL approval - E60693
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

PM 5.08/../90



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm²	0.13...2.5		
Solid core H05(07) V-U	**mm²**	**0.13...2.5**		
Stranded H07 V-R				
Flexible H05(07) V-K	mm²	0.13...2.5		
Flexible with ferrule	mm²	0.25...1.5		
Ferrule with plastic collar	mm²	0.25...1.5		
Stripping length	mm	6		
Screwdriver blade	mm	0.6 x 3.5		
According to norm		DIN 5264		
Tightening torque range	Nm	0.4...0.5		
Rated current, max.	**A**	**24**		**24**
At ambient temperature		20°C		40°C
For conductor cross-section	mm²	1.5		
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	**V**	**250**	**250**	**600**
Rated impulse voltage	kV	4	4	4
UL / CUL (Use Group)		**B**	**C**	**D**
Rated voltage	**V**	**300**		**300**
Rated current	**A**	**15**		**10**
AWG conductor	**AWG**		**26-14**	
CSA (Use Group)		**B**	**C**	**D**
Rated voltage	V	300		300
Rated current	A	15		10
AWG conductor	AWG		26-14	
General data				
Type of insulation material		Wemid (PA)		
UL 94 flammability rating		V-0		
Contact base material		Copper alloy		
Material of contact surface		tinned		
Pin dimensions = d	mm	1.0		
Solder eyelet Ø = D	mm	1.3		
Solder eyelet Ø tolerance	mm	+ 0,1		

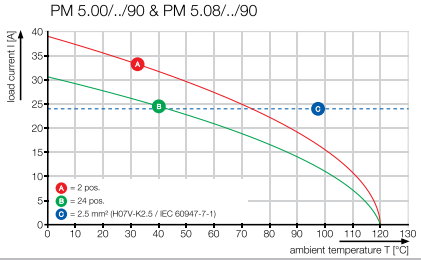
Accessories

Note: Refer to the Accessories chapter for additional accessories.

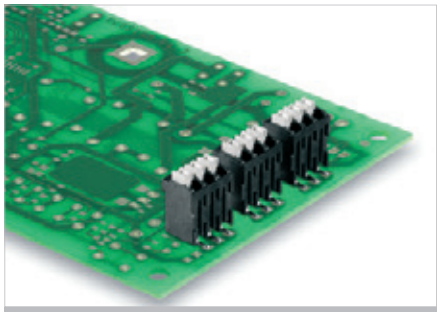
Ordering data

Solder pin length				3.5 mm
Colour				Orange
Pitch	**5.08 mm**			
Pol.	L1	(inch)	Qty.	Order No.
2	5.08	0.200	500	1760490000
3	10.16	0.400	500	1760500000
4	15.24	0.600	100	1234550000
5	20.32	0.800	100	1234570000
6	25.40	1.000	100	1234580000
7	30.48	1.200	100	1234590000
8	35.56	1.400	100	1234600000
9	40.64	1.600	100	1234610000
10	45.72	1.800	100	1234620000
11	50.80	2.000	100	1234630000
12	55.88	2.200	100	1234640000

Representative deratings curve



LSF-SMD 3.50/180



PCB terminal for fully automatic assembly using reflow soldering (SMD), with PUSH IN wire connections. Conductor inserted and slider operated in same direction (TOP).

- Solid wires & stranded wires with wire-end ferrules need only to be inserted and they are ready.
- When connecting stranded wires without wire-end ferrules the handling area is used to open the terminal point
- Intuitive handling – since the wire-entry area and handling area are clearly separated.
- Packaged in tape-on-reel
- Conductor outlet direction 180°

Product data

IEC: 320 V / 17.5 A / 0.2 - 1.5 mm²
UL: 300 V / 12 A / AWG 24 - 16

For additional articles and information, refer to catalog.weidmueller.com

Note:

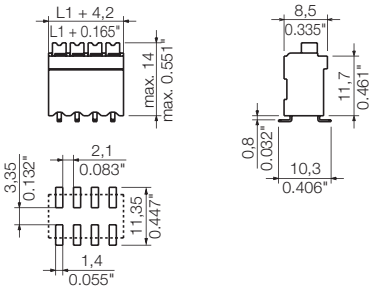
- Additional push button colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- P on drawing = pitch
- Operating force of slider max. 40 N
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- Crimping shape „A" for wire end ferrules with PZ 6/5 crimping tool are recommended for the largest cable sizes.

LSF-SMD 3.50/180

Reflow-compatible PCB terminal



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm²	0.13...1.5		
Solid core H05(07) V-U	**mm²**	**0.2...1.5**		
Stranded H07 V-R				
Flexible H05(07) V-K	mm²	0.2...1.5		
Flexible with ferrule	mm²	0.25...1.5		
Ferrule with plastic collar	mm²	0.25...0.75		
Stripping length	mm			
Screwdriver blade	mm			
According to norm				
Tightening torque range	Nm			
Rated current, max.	**A**	**17.5**		**17.5**
At ambient temperature		20°C		40°C
For conductor cross-section	mm²		1.5	
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	**V**	**160**	**160**	**320**
Rated impulse voltage	kV	2.5	2.5	2.5
UL / CUL (Use Group)		**B**	**C**	**D**
Rated voltage	**V**	**300**		**300**
Rated current	**A**	**12**		**10**
AWG conductor	**AWG**		**24-16**	
CSA (Use Group)		**B**	**C**	**D**
Rated voltage	V	300		300
Rated current	A	10		10
AWG conductor	AWG		24-16	
General data				
Type of insulation material			LCP GF	
UL 94 flammability rating			V-0	
Contact base material			Copper alloy	
Material of contact surface			tinned	
Pin dimensions = d	mm		0.35 x 0.8	
Solder eyelet Ø = D	mm			
Solder eyelet Ø tolerance	mm			

Accessories

Note: Refer to the Accessories chapter for additional accessories.

Screwdriver		Order No.
	SDIS 0.4X2.5X75	9008370000
	SDS 0.4X2.5X75	9009030000

Ordering data

Solder pin length

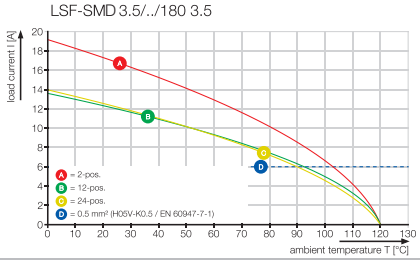
Colour **Black**

Pitch **3.50 mm**

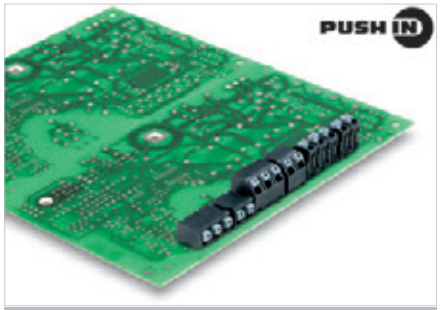
Pol.	L1	(inch)	Qty.	Order No.
2	3.50	0.138	180	1250360000
3	7.00	0.276	180	1250370000
4	10.50	0.414	180	1250380000
5	14.00	0.552	180	1250390000
6	17.50	0.690	180	1250410000
7	21.00	0.828	180	1250420000
8	24.50	0.966	180	1250430000
9	28.00	1.104	180	1250440000
10	31.50	1.242	180	1250450000
11	35.00	1.380	180	1250460000
12	38.50	1.518	180	1250470000

Representative deratings curve

LSF-SMD 3.5/../180 3.5



LSF-SMT 3.5/../90



PCB terminal for fully automatic assembly, in 3.5 mm pitch, for THR reflow soldering (SMT) and wave soldering.

- PUSH IN wire connection, for wire cross-sections up to 1.5 mm².
- Form and dimensional stability provided by the LCP insulating material.
- Conductor inserted and slider operated in same direction (TOP).
- Packaged in tube or tape-on-reel.
- Pin lengths optimised to 1.5 mm or 3.5 mm.
- Wire outlet direction of 90°.

Product data

IEC: 320 V / 17.5 A / 0.2 - 1.5 mm²
UL: 300 V / 12 A / AWG 24 - 16

For additional articles and information, refer to catalog.weidmueller.com

Note:

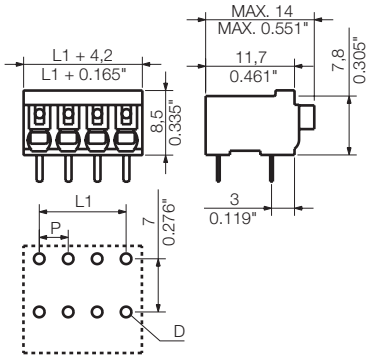
- Additional push button colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- P on drawing = pitch
- Operating force of slider max. 40 N
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- Crimping shape „A" for wire end ferrules with PZ 6/5 crimping tool are recommended for the largest cable sizes.

LSF-SMT 3.5/../90

Reflow-compatible PCB Terminal



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm²	0.13...1.5		
Solid core H05(07) V-U	**mm²**	**0.2...1.5**		
Stranded H07 V-R				
Flexible H05(07) V-K	mm²	0.2...1.5		
Flexible with ferrule	mm²	0.25...1.5		
Ferrule with plastic collar	mm²	0.25...0.75		
Stripping length	mm	8		
Screwdriver blade	mm			
According to norm				
Tightening torque range	Nm			
Rated current, max.	**A**	**17.5**		**17.5**
At ambient temperature		20°C		40°C
For conductor cross-section	mm²		1.5	
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	**V**	**160**	**160**	**320**
Rated impulse voltage	kV	2.5	2.5	2.5
UL / CUL (Use Group)		**B**	**C**	**D**
Rated voltage	**V**	**300**		**300**
Rated current	**A**	**12**		**10**
AWG conductor	**AWG**		**24-16**	
CSA (Use Group)		**B**	**C**	**D**
Rated voltage	V	300		300
Rated current	A	10		10
AWG conductor	AWG		24-16	
General data				
Type of insulation material			LCP GF	
UL 94 flammability rating			V-0	
Contact base material			Copper alloy	
Material of contact surface			tinned	
Pin dimensions = d	mm		0.35 x 0.8	
Solder eyelet Ø = D	mm		1.1	
Solder eyelet Ø tolerance	mm		+ 0,1	

Accessories

Note: Refer to the Accessories chapter for additional accessories.

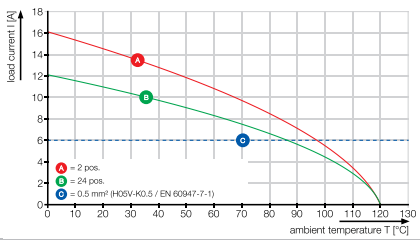
Screwdriver		Order No.
	SDIS 0.4X2.5X75	9008370000
	SDS 0.4X2.5X75	9009030000

Ordering data

Solder pin length				1.5 mm	3.5 mm
Colour				Black	Black
Pitch	**3.50 mm**				
Pol.	**L1**	**(inch)**	**Qty.**	**Order No.**	**Order No.**
2	3.50	0.138	71	1870500000	1824420000
3	7.00	0.276	49	1870530000	1824430000
4	10.50	0.413	37	1870550000	1824440000
5	14.00	0.551	30	1870580000	1824450000
6	17.50	0.689	25	1870590000	1824460000
7	21.00	0.827	21	1871020000	1824470000
8	24.50	0.965	19	1871030000	1824480000
9	28.00	1.102	17	1871040000	1824490000
10	31.50	1.240	15	1871050000	1824500000
11	35.00	1.378	14	1871060000	1824510000
12	38.50	1.516	12	1871070000	1824520000
13	42.00	1.654	11	1871080000	1870380000
14	45.50	1.791	11	1871090000	1870390000
15	49.00	1.929	10	1871100000	1870400000
16	52.50	2.067	9	1871110000	1870410000
17	56.00	2.205	9	1871120000	1870420000
18	59.50	2.343	8	1871130000	1870430000
19	63.00	2.480	8	1871140000	1870440000
20	66.50	2.618	7	1871150000	1870450000
21	70.00	2.756	7	1871160000	1870460000
22	73.50	2.894	7	1871170000	1870470000
23	77.00	3.031	6	1871180000	1870480000
24	80.50	3.169	6	1871190000	1870490000

Representative deratings curve

LSF-SMT 3.5/../90 3.5



LSF-SMT 3.5/../90 Tape

Reflow-compatible PCB Terminal



Dimensioned drawing

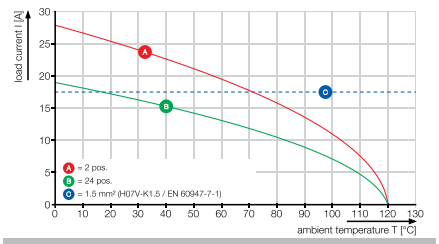
Ordering data

Solder pin length				1.5 mm	3.5 mm
Colour				Black	Black
Pitch	**3.50 mm**				
Pol.	L1	(inch)	Qty.	Order No.	Order No.
2	3.50	0.138	265	1874690000	1874990000
3	7.00	0.276	265	1874710000	1875030000
4	10.50	0.413	265	1874730000	1875050000
5	14.00	0.551	265	1874740000	1875070000
6	17.50	0.689	265	1874810000	1875080000
7	21.00	0.827	265	1874840000	1875100000
8	24.50	0.965	265	1874890000	1875110000
9	28.00	1.102	265	1874900000	1875120000
10	31.50	1.240	265	1874930000	1875130000
11	35.00	1.378	265	1874940000	1875140000
12	38.50	1.516	265	1874970000	1875160000

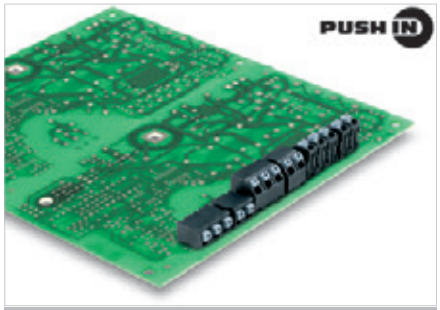
Tape widths: 32, 44, 56, 72, 88

Additional deratings curves

LSF-SMT 3.5/../90 3.5



LSF-SMT 3.5/../135



PCB terminal for fully automatic assembly, in 3.5 mm pitch, for THR reflow soldering (SMT) and wave soldering.

- PUSH IN wire connection, for wire cross-sections up to 1.5 mm².
- Form and dimensional stability provided by the LCP insulating material.
- Conductor inserted and slider operated in same direction (TOP).
- Packaged in tube or tape-on-reel.
- Pin lengths optimised to 1.5 mm or 3.5 mm.
- Wire outlet direction of 135°.

Product data

IEC: 320 V / 17.5 A / 0.2 - 1.5 mm²
UL: 300 V / 12 A / AWG 24 - 16

For additional articles and information, refer to catalog.weidmueller.com

Note:

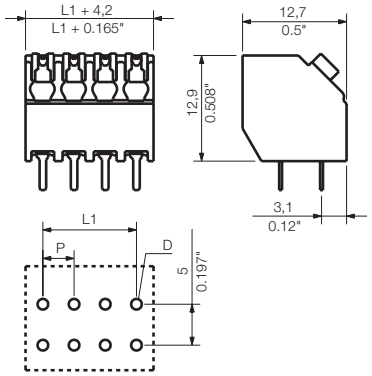
- Additional push button colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- P on drawing = pitch
- Operating force of slider max. 40 N
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- Crimping shape „A" for wire end ferrules with PZ 6/5 crimping tool are recommended for the largest cable sizes.

LSF-SMT 3.5/../135

Reflow-compatible PCB Terminal



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm²	0.13...1.5		
Solid core H05(07) V-U	**mm²**	**0.2...1.5**		
Stranded H07 V-R				
Flexible H05(07) V-K	mm²	0.2...1.5		
Flexible with ferrule	mm²	0.25...1.5		
Ferrule with plastic collar	mm²	0.25...0.75		
Stripping length	mm	8		
Screwdriver blade	mm			
According to norm				
Tightening torque range	Nm			
Rated current, max.	**A**	**17.5**		**17.5**
At ambient temperature		20°C		40°C
For conductor cross-section	mm²		1.5	
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	**V**	**160**	**160**	**320**
Rated impulse voltage	kV	2.5	2.5	2.5
UL / CUL (Use Group)		**B**	**C**	**D**
Rated voltage	**V**	**300**		**300**
Rated current	**A**	**12**		**10**
AWG conductor	**AWG**		**24-16**	
CSA (Use Group)		**B**	**C**	**D**
Rated voltage	V	300		300
Rated current	A	10		10
AWG conductor	AWG		24-16	
General data				
Type of insulation material			LCP GF	
UL 94 flammability rating			V-0	
Contact base material			Copper alloy	
Material of contact surface			tinned	
Pin dimensions = d	mm		0.35 x 0.8	
Solder eyelet Ø = D	mm		1.1	
Solder eyelet Ø tolerance	mm		+ 0,1	

Accessories

Note: Refer to the Accessories chapter for additional accessories.

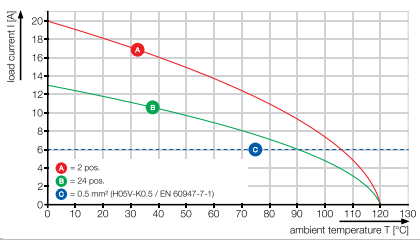
Screwdriver		Order No.
	SDIS 0.4X2.5X75	9008370000
	SDS 0.4X2.5X75	9009030000

Ordering data

Solder pin length				1.5 mm	3.5 mm
Colour				Black	Black
Pitch	**3.50 mm**				
Pol.	**L1**	**(inch)**	**Qty.**	**Order No.**	**Order No.**
2	3.50	0.138	71	1885180000	1885650000
3	7.00	0.276	49	1885190000	1885660000
4	10.50	0.413	37	1885200000	1885670000
5	14.00	0.551	30	1885210000	1885680000
6	17.50	0.689	25	1885220000	1885690000
7	21.00	0.827	21	1885230000	1885700000
8	24.50	0.965	19	1885240000	1885710000
9	28.00	1.102	17	1885250000	1885720000
10	31.50	1.240	15	1885260000	1885730000
11	35.00	1.378	14	1885270000	1885740000
12	38.50	1.516	12	1885280000	1885750000
13	42.00	1.654	11	1885290000	1885760000
14	45.50	1.791	11	1885300000	1885770000
15	49.00	1.929	10	1885310000	1885780000
16	52.50	2.067	9	1885320000	1885790000
17	56.00	2.205	9	1885330000	1885800000
18	59.50	2.343	8	1885340000	1885810000
19	63.00	2.480	8	1885350000	1885820000
20	66.50	2.618	7	1885360000	1885830000
21	70.00	2.756	7	1885370000	1885840000
22	73.50	2.894	7	1885380000	1885850000
23	77.00	3.031	6	1885390000	1885860000
24	80.50	3.169	6	1885400000	1885870000

Representative deratings curve

LSF-SMT 3.5/../135 1.5



LSF-SMT 3.5/../135 Tape

Reflow-compatible PCB Terminal



Dimensioned drawing

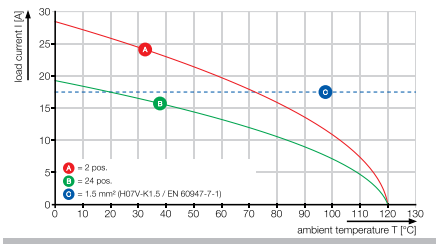
Ordering data

Solder pin length				1.5 mm	3.5 mm
Colour				Black	Black
Pitch	**3.50 mm**				
Pol.	L1	(inch)	Qty.	Order No.	Order No.
2	3.50	0.138	190	1887550000	1887340000
3	7.00	0.276	190	1887560000	1887350000
4	10.50	0.413	190	1887580000	1887360000
5	14.00	0.551	190	1887630000	1887460000
6	17.50	0.689	190	1887640000	1887470000
7	21.00	0.827	190	1887650000	1887480000
8	24.50	0.965	190	1887660000	1887490000
9	28.00	1.102	190	1887670000	1887500000
10	31.50	1.240	190	1887680000	1887510000
11	35.00	1.378	190	1887690000	1887520000
12	38.50	1.516	190	1887700000	1887530000

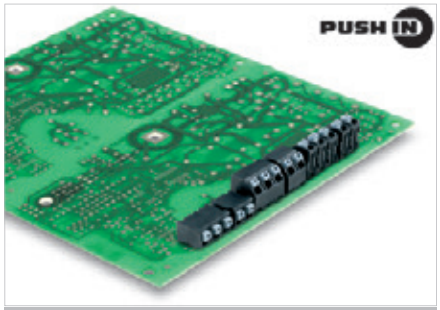
Tape widths: 32, 44, 56, 72, 88

Additional deratings curves

LSF-SMT 3.5/../135 1.5



LSF-SMT 3.5/../180



PCB terminal for fully automatic assembly, in 3.5 mm pitch, for THR reflow soldering (SMT) and wave soldering.

- PUSH IN wire connection, for wire cross-sections up to 1.5 mm².
- Form and dimensional stability provided by the LCP insulating material.
- Conductor inserted and slider operated in same direction (TOP).
- Packaged in tube or tape-on-reel.
- Pin lengths optimised to 1.5 mm or 3.5 mm.
- Wire outlet direction of 180°.

Product data

IEC: 320 V / 17.5 A / 0.2 - 1.5 mm²
UL: 300 V / 12 A / AWG 24 - 16

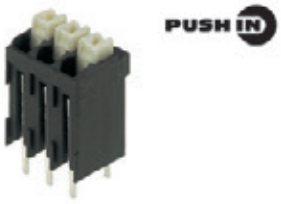
For additional articles and information, refer to catalog.weidmueller.com

Note:

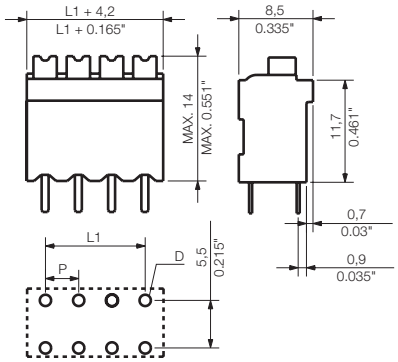
- Additional push button colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- P on drawing = pitch
- Operating force of slider max. 40 N
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- Crimping shape „A" for wire end ferrules with PZ 6/5 crimping tool are recommended for the largest cable sizes.

LSF-SMT 3.5/../180

Reflow-compatible PCB Terminal



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm²	0.13...1.5		
Solid core H05(07) V-U	**mm²**	**0.2...1.5**		
Stranded H07 V-R				
Flexible H05(07) V-K	mm²	0.2...1.5		
Flexible with ferrule	mm²	0.25...1.5		
Ferrule with plastic collar	mm²	0.25...0.75		
Stripping length	mm	8		
Screwdriver blade	mm			
According to norm				
Tightening torque range	Nm			
Rated current, max.	**A**	**17.5**		**17.5**
At ambient temperature		20°C		40°C
For conductor cross-section	mm²		1.5	
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	**V**	**160**	**160**	**320**
Rated impulse voltage	kV	2.5	2.5	2.5
UL / CUL (Use Group)		**B**	**C**	**D**
Rated voltage	**V**	**300**		**300**
Rated current	**A**	**12**		**10**
AWG conductor	**AWG**		**24-16**	
CSA (Use Group)		**B**	**C**	**D**
Rated voltage	V	300		300
Rated current	A	10		10
AWG conductor	AWG		24-16	
General data				
Type of insulation material			LCP GF	
UL 94 flammability rating			V-0	
Contact base material			Copper alloy	
Material of contact surface			tinned	
Pin dimensions = d	mm		0.35 x 0.8	
Solder eyelet Ø = D	mm		1.1	
Solder eyelet Ø tolerance	mm		+ 0,1	

Accessories

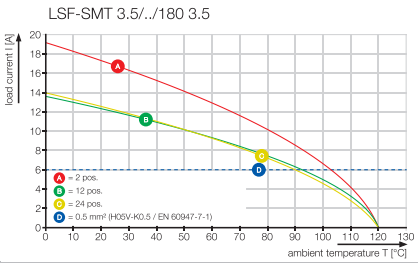
Note: Refer to the Accessories chapter for additional accessories.

Screwdriver		Order No.
	SDIS 0.4X2.5X75	9008370000
	SDS 0.4X2.5X75	9009030000

Ordering data

Solder pin length				1.5 mm	3.5 mm
Colour				Black	Black
Pitch	**3.50 mm**				
Pol.	L1	(inch)	Qty.	Order No.	Order No.
2	3.50	0.138	71	1870640000	1825640000
3	7.00	0.276	49	1870650000	1825650000
4	10.50	0.413	37	1870660000	1825660000
5	14.00	0.551	30	1870670000	1825670000
6	17.50	0.689	25	1870680000	1825680000
7	21.00	0.827	21	1870690000	1825690000
8	24.50	0.965	19	1870700000	1825700000
9	28.00	1.102	17	1870710000	1825710000
10	31.50	1.240	15	1870720000	1825720000
11	35.00	1.378	14	1870730000	1825730000
12	38.50	1.516	12	1870740000	1825740000
13	42.00	1.654	11	1870750000	1870350000
14	45.50	1.791	11	1870760000	1870360000
15	49.00	1.929	10	1870770000	1870370000
16	52.50	2.067	9	1870790000	1870510000
17	56.00	2.205	9	1870800000	1870520000
18	59.50	2.343	8	1870830000	1870540000
19	63.00	2.480	8	1870840000	1870560000
20	66.50	2.618	7	1870850000	1870570000
21	70.00	2.756	7	1870860000	1870600000
22	73.50	2.894	7	1870870000	1870610000
23	77.00	3.031	6	1870880000	1870620000
24	80.50	3.169	6	1870890000	1870630000

Representative deratings curve



LSF-SMT 3.5/../180 Tape

Reflow-compatible PCB Terminal



Dimensioned drawing

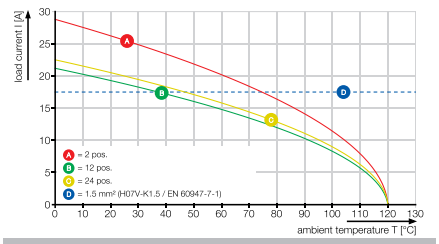
Ordering data

Solder pin length				1.5 mm	3.5 mm
Colour				Black	Black
Pitch	**3.50 mm**				
Pol.	L1	(inch)	Qty.	Order No.	Order No.
2	3.50	0.138	175	1874490000	1874510000
3	7.00	0.276	175	1874300000	1874520000
4	10.50	0.413	175	1874280000	1874540000
5	14.00	0.551	175	1874310000	1874560000
6	17.50	0.689	175	1874320000	1874590000
7	21.00	0.827	175	1874340000	1874600000
8	24.50	0.965	175	1874350000	1874610000
9	28.00	1.102	175	1874370000	1874620000
10	31.50	1.240	175	1874380000	1874640000
11	35.00	1.378	175	1874400000	1874660000
12	38.50	1.516	175	1874420000	1874680000

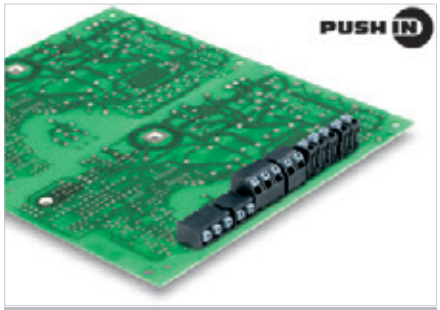
Tape widths: 32, 44, 56, 72, 88

Additional deratings curves

LSF-SMT 3.5/../180 3.5



LSF-SMT 3.81/../90



PCB terminal for fully automatic assembly, in 3.81 mm pitch, for THR reflow soldering (SMT) and wave soldering.

- PUSH IN wire connection, for wire cross-sections up to 1.5 mm².
- Form and dimensional stability provided by the LCP insulating material.
- Conductor inserted and slider operated in same direction (TOP).
- Packaged in tube or tape-on-reel.
- Pin lengths optimised to 1.5 mm or 3.5 mm.
- Wire outlet direction of 90°.

Product data

IEC: 320 V / 17.5 A / 0.2 - 1.5 mm²
UL: 300 V / 12 A / AWG 24 - 16

For additional articles and information, refer to catalog.weidmueller.com

Note:

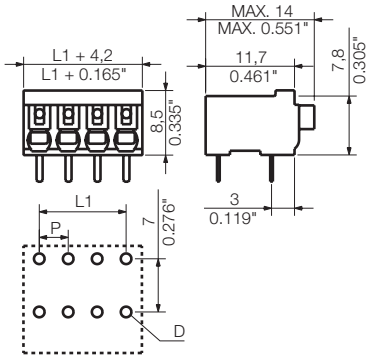
- Additional push button colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- P on drawing = pitch
- Operating force of slider max. 40 N
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- Crimping shape „A" for wire end ferrules with PZ 6/5 crimping tool are recommended for the largest cable sizes.

LSF-SMT 3.81/../90

Reflow-compatible PCB Terminal



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm²	0.13...1.5		
Solid core H05(07) V-U	**mm²**	**0.2...1.5**		
Stranded H07 V-R				
Flexible H05(07) V-K	mm²	0.2...1.5		
Flexible with ferrule	mm²	0.25...1.5		
Ferrule with plastic collar	mm²	0.25...0.75		
Stripping length	mm	8		
Screwdriver blade	mm			
According to norm				
Tightening torque range	Nm			
Rated current, max.	**A**	**17.5**		**17.5**
At ambient temperature		20°C		40°C
For conductor cross-section	mm²		1.5	
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	**V**	**160**	**160**	**320**
Rated impulse voltage	kV	2.5	2.5	2.5
UL / CUL (Use Group)		**B**	**C**	**D**
Rated voltage	**V**	**300**		**300**
Rated current	**A**	**12**		**10**
AWG conductor	**AWG**		**24-16**	
CSA (Use Group)		**B**	**C**	**D**
Rated voltage	V	300		300
Rated current	A	10		10
AWG conductor	AWG		24-16	
General data				
Type of insulation material			LCP GF	
UL 94 flammability rating			V-0	
Contact base material			Copper alloy	
Material of contact surface			tinned	
Pin dimensions = d	mm		0.35 x 0.8	
Solder eyelet Ø = D	mm		1.1	
Solder eyelet Ø tolerance	mm		+ 0,1	

Accessories

Note: Refer to the Accessories chapter for additional accessories.

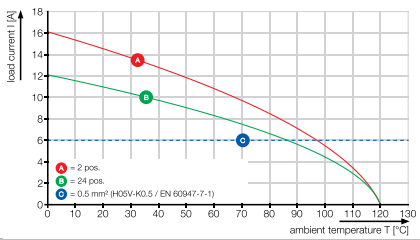
Screwdriver		Order No.
	SDIS 0.4X2.5X75	9008370000
	SDS 0.4X2.5X75	9009030000

Ordering data

Solder pin length				1.5 mm	3.5 mm
Colour				Black	Black
Pitch	**3.81 mm**				
Pol.	**L1**	**(inch)**	**Qty.**	**Order No.**	**Order No.**
2	3.81	0.150	69	1869360000	1824620000
3	7.62	0.300	46	1869370000	1824630000
4	11.43	0.450	35	1869380000	1824640000
5	15.24	0.600	28	1869390000	1824650000
6	19.05	0.750	23	1869400000	1824660000
7	22.86	0.900	20	1869410000	1824690000
8	26.67	1.050	17	1869420000	1824700000
9	30.48	1.200	15	1869430000	1824710000
10	34.29	1.350	14	1869440000	1824720000
11	38.10	1.500	13	1869450000	1824730000
12	41.91	1.650	12	1869460000	1825300000
13	45.72	1.800	11	1869470000	1871200000
14	49.53	1.950	10	1869480000	1871210000
15	53.34	2.100	9	1869500000	1871220000
16	57.15	2.250	9	1869510000	1871230000
17	60.96	2.400	8	1869520000	1871240000
18	64.77	2.550	8	1869530000	1871250000
19	68.58	2.700	7	1869540000	1871260000
20	72.39	2.850	7	1869550000	1871270000
21	76.20	3.000	6	1869560000	1871280000
22	80.01	3.150	6	1869570000	1871290000
23	83.82	3.300	6	1869580000	1871300000
24	87.63	3.450	6	1869590000	1871310000

Representative deratings curve

LSF-SMT 3.81/../90 3.5



LSF-SMT 3.81/../90 Tape

Reflow-compatible PCB Terminal



Dimensioned drawing

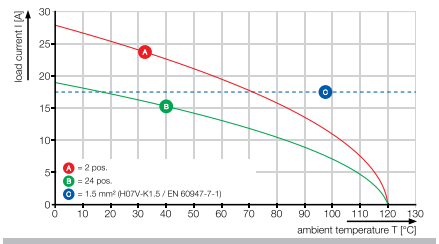
Ordering data

Solder pin length				1.5 mm	3.5 mm
Colour				Black	Black
Pitch	**3.81 mm**				
Pol.	L1	(inch)	Qty.	Order No.	Order No.
2	3.81	0.150	265	1875170000	1875920000
3	7.62	0.300	265	1875230000	1875930000
4	11.43	0.450	265	1875240000	1875940000
5	15.24	0.600	265	1875250000	1875950000
6	19.05	0.750	265	1875260000	1875960000
7	22.86	0.900	265	1875270000	1875970000
8	26.67	1.050	265	1875280000	1875980000
9	30.48	1.200	265	1875290000	1875990000
10	34.29	1.350	265	1875300000	1876000000
11	38.10	1.500	265	1875310000	1876010000

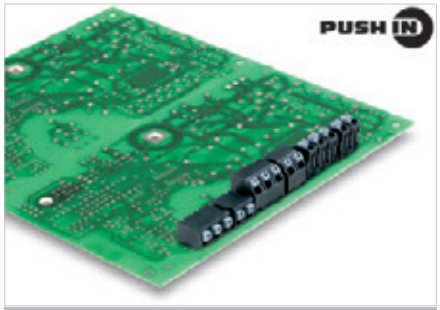
Tape widths: 32, 44, 56, 72, 88

Additional deratings curves

LSF-SMT 3.81/../90 3.5



LSF-SMT 3.81/../135



PCB terminal for fully automatic assembly, in 3.81 mm pitch, for THR reflow soldering (SMT) and wave soldering.

- PUSH IN wire connection, for wire cross-sections up to 1.5 mm².
- Form and dimensional stability provided by the LCP insulating material.
- Conductor inserted and slider operated in same direction (TOP).
- Packaged in tube or tape-on-reel.
- Pin lengths optimised to 1.5 mm or 3.5 mm.
- Wire outlet direction of 135°.

Product data

IEC: 320 V / 17.5 A / 0.2 - 1.5 mm²
UL: 300 V / 12 A / AWG 24 - 16

For additional articles and information, refer to catalog.weidmueller.com

Note:

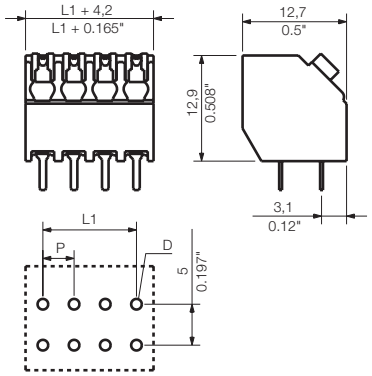
- Additional push button colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- P on drawing = pitch
- Operating force of slider max. 40 N
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- Crimping shape „A" for wire end ferrules with PZ 6/5 crimping tool are recommended for the largest cable sizes.

LSF-SMT 3.81/../135

Reflow-compatible PCB Terminal



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm²	0.13...1.5		
Solid core H05(07) V-U	**mm²**	**0.2...1.5**		
Stranded H07 V-R				
Flexible H05(07) V-K	mm²	0.2...1.5		
Flexible with ferrule	mm²	0.25...1.5		
Ferrule with plastic collar	mm²	0.25...0.75		
Stripping length	mm	8		
Screwdriver blade	mm			
According to norm				
Tightening torque range	Nm			
Rated current, max.	**A**	**17.5**		**17.5**
At ambient temperature		20°C		40°C
For conductor cross-section	mm²		1.5	
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	**V**	**160**	**160**	**320**
Rated impulse voltage	kV	2.5	2.5	2.5
UL / CUL (Use Group)		**B**	**C**	**D**
Rated voltage	**V**	**300**		**300**
Rated current	**A**	**12**		**10**
AWG conductor	**AWG**		**24-16**	
CSA (Use Group)		**B**	**C**	**D**
Rated voltage	V	300		300
Rated current	A	10		10
AWG conductor	AWG		24-16	
General data				
Type of insulation material			LCP GF	
UL 94 flammability rating			V-0	
Contact base material			Copper alloy	
Material of contact surface			tinned	
Pin dimensions = d	mm		0.35 x 0.8	
Solder eyelet Ø = D	mm		1.1	
Solder eyelet Ø tolerance	mm		+ 0,1	

Accessories

Note: Refer to the Accessories chapter for additional accessories.

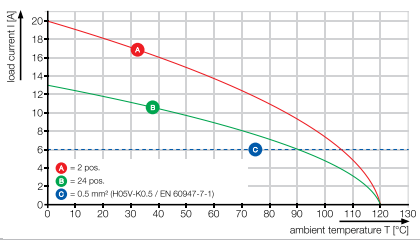
Screwdriver		Order No.
	SDIS 0.4X2.5X75	9008370000
	SDS 0.4X2.5X75	9009030000

Ordering data

Solder pin length				1.5 mm	3.5 mm
Colour				Black	Black
Pitch	**3.81 mm**				
Pol.	L1	(inch)	**Qty.**	**Order No.**	**Order No.**
2	3.81	0.150	69	1885410000	1885880000
3	7.62	0.300	46	1885420000	1885890000
4	11.43	0.450	35	1885430000	1885900000
5	15.24	0.600	28	1885440000	1885910000
6	19.05	0.750	23	1885450000	1885920000
7	22.86	0.900	20	1885460000	1885930000
8	26.67	1.050	17	1885470000	1885940000
9	30.48	1.200	15	1885480000	1885950000
10	34.29	1.350	14	1885490000	1885960000
11	38.10	1.500	13	1885510000	1885970000
12	41.91	1.650	12	1885520000	1885980000
13	45.72	1.800	11	1885530000	1885990000
14	49.53	1.950	10	1885540000	1886000000
15	53.34	2.100	9	1885550000	1886010000
16	57.15	2.250	9	1885560000	1886020000
17	60.96	2.400	8	1885570000	1886030000
18	64.77	2.550	8	1885580000	1886040000
19	68.58	2.700	7	1885590000	1886050000
20	72.39	2.850	7	1885600000	1886060000
21	76.20	3.000	6	1885610000	1886070000
22	80.01	3.150	6	1885620000	1886080000
23	83.82	3.300	6	1885630000	1886090000
24	87.63	3.450	6	1885640000	1886100000

Representative deratings curve

LSF-SMT 3.81/../135 1.5



LSF-SMT 3.81/../135 Tape

Reflow-compatible PCB Terminal



Dimensioned drawing

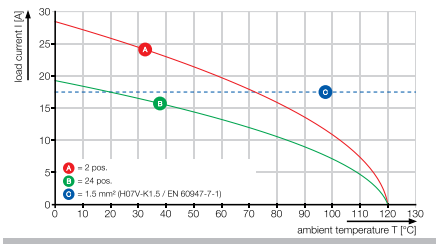
Ordering data

Solder pin length				1.5 mm	3.5 mm
Colour				Black	Black
Pitch	**3.81 mm**				
Pol.	L1	(inch)	Qty.	Order No.	Order No.
2	3.81	0.150	175	1888450000	1888320000
3	7.62	0.300	190	1888460000	1888330000
4	11.43	0.450	190	1888470000	1888340000
5	15.24	0.600	190	1888480000	1888380000
6	19.05	0.750	190	1888490000	1888390000
7	22.86	0.900	190	1888500000	1888400000
8	26.67	1.050	190	1888510000	1888410000
9	30.48	1.200	190	1888520000	1888420000
10	34.29	1.350	190	1888530000	1888430000
11	38.10	1.500	190	1888540000	1888440000

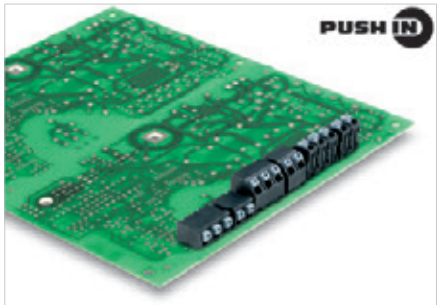
Tape widths: 32, 44, 56, 72, 88

Additional deratings curves

LSF-SMT 3.81/../135 1.5



LSF-SMT 3.81/../180



PCB terminal for fully automatic assembly, in 3.81 mm pitch, for THR reflow soldering (SMT) and wave soldering.

- PUSH IN wire connection, for wire cross-sections up to 1.5 mm².
- Form and dimensional stability provided by the LCP insulating material.
- Conductor inserted and slider operated in same direction (TOP).
- Packaged in tube or tape-on-reel.
- Pin lengths optimised to 1.5 mm or 3.5 mm.
- Wire outlet direction of 180°.

Product data

IEC: 320 V / 17.5 A / 0.2 - 1.5 mm²
UL: 300 V / 12 A / AWG 24 - 16

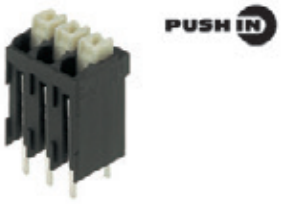
For additional articles and information, refer to catalog.weidmueller.com

Note:

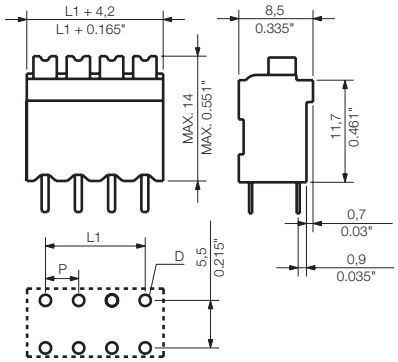
- Additional push button colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- P on drawing = pitch
- Operating force of slider max. 40 N
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- Crimping shape „A" for wire end ferrules with PZ 6/5 crimping tool are recommended for the largest cable sizes.

LSF-SMT 3.81/../180

Reflow-compatible PCB Terminal



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm²	0.13...1.5		
Solid core H05(07) V-U	**mm²**	**0.2...1.5**		
Stranded H07 V-R				
Flexible H05(07) V-K	mm²	0.2...1.5		
Flexible with ferrule	mm²	0.25...1.5		
Ferrule with plastic collar	mm²	0.25...0.75		
Stripping length	mm	8		
Screwdriver blade	mm			
According to norm				
Tightening torque range	Nm			
Rated current, max.	**A**	**17.5**		**17.5**
At ambient temperature		20°C		40°C
For conductor cross-section	mm²		1.5	
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	**V**	**160**	**160**	**320**
Rated impulse voltage	kV	2.5	2.5	2.5
UL / CUL (Use Group)		**B**	**C**	**D**
Rated voltage	**V**	**300**		**300**
Rated current	**A**	**12**		**10**
AWG conductor	**AWG**		**24-16**	
CSA (Use Group)		**B**	**C**	**D**
Rated voltage	V	300		300
Rated current	A	10		10
AWG conductor	AWG		24-16	
General data				
Type of insulation material			LCP GF	
UL 94 flammability rating			V-0	
Contact base material			Copper alloy	
Material of contact surface			tinned	
Pin dimensions = d	mm		0.35 x 0.8	
Solder eyelet Ø = D	mm		1.1	
Solder eyelet Ø tolerance	mm		+ 0,1	

Accessories

Note: Refer to the Accessories chapter for additional accessories.

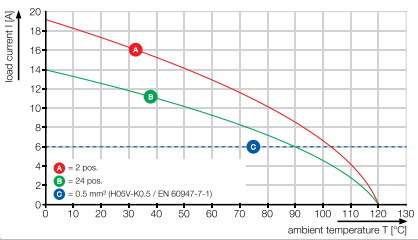
Screwdriver		Order No.
	SDIS 0.4X2.5X75	9008370000
	SDS 0.4X2.5X75	9009030000

Ordering data

Solder pin length				1.5 mm	3.5 mm
Colour				Black	Black
Pitch	**3.81 mm**				
Pol.	**L1**	**(inch)**	**Qty.**	**Order No.**	**Order No.**
2	3.81	0.150	69	1869890000	1825790000
3	7.62	0.300	46	1869900000	1825800000
4	11.43	0.450	35	1869910000	1825810000
5	15.24	0.600	28	1869920000	1825820000
6	19.05	0.750	23	1869930000	1825830000
7	22.86	0.900	20	1869940000	1825840000
8	26.67	1.050	17	1869950000	1825850000
9	30.48	1.200	15	1869960000	1825870000
10	34.29	1.350	14	1869970000	1825880000
11	38.10	1.500	13	1870000000	1825890000
12	41.91	1.650	12	1870010000	1825920000
13	45.72	1.800	11	1870020000	1870900000
14	49.53	1.950	10	1870030000	1870910000
15	53.34	2.100	9	1870040000	1870920000
16	57.15	2.250	9	1870050000	1870930000
17	60.96	2.400	8	1870060000	1870940000
18	64.77	2.550	8	1870070000	1870950000
19	68.58	2.700	7	1870080000	1870960000
20	72.39	2.850	7	1870090000	1870970000
21	76.20	3.000	6	1870100000	1870980000
22	80.01	3.150	6	1870110000	1870990000
23	83.82	3.300	6	1870120000	1871000000
24	87.63	3.450	6	1870130000	1871010000

Representative deratings curve

LSF-SMT 3.81/../180 3.5



LSF-SMT 3.81/../180 Tape

Reflow-compatible PCB Terminal



Dimensioned drawing

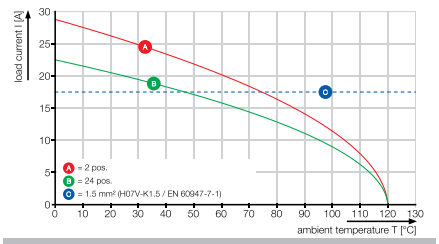
Ordering data

Solder pin length				1.5 mm	3.5 mm
Colour				Black	Black
Pitch	**3.81 mm**				
Pol.	L1	(inch)	Qty.	Order No.	Order No.
2	3.81	0.150	175	1875320000	1875550000
3	7.62	0.300	175	1875330000	1875570000
4	11.43	0.450	175	1875340000	1875590000
5	15.24	0.600	175	1875350000	1875650000
6	19.05	0.750	175	1875360000	1875670000
7	22.86	0.900	175	1875370000	1875680000
8	26.67	1.050	175	1875380000	1875710000
9	30.48	1.200	175	1875390000	1875730000
10	34.29	1.350	175	1875400000	1875760000
11	38.10	1.500	175	1875410000	1875810000

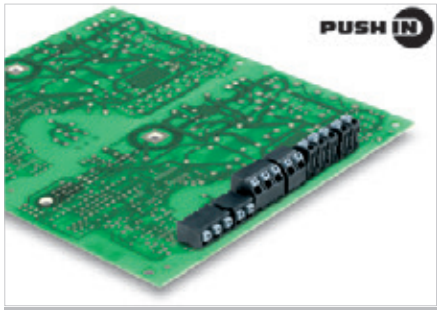
Tape widths: 32, 44, 56, 72, 88

Additional deratings curves

LSF-SMT 3.81/../180 3.5



LSF-SMT 5.00/../90



PCB terminal for fully automatic assembly, in 5.00 mm pitch, for THR reflow soldering (SMT) and wave soldering.

- PUSH IN wire connection, for wire cross-sections up to 1.5 mm². Form and dimensional stability provided by the LCP insulating material.
- Conductor inserted and slider operated in same direction (TOP).
- Packaged in tube or tape-on-reel.
- Pin lengths optimised to 1.5 mm or 3.5 mm.
- Wire outlet direction of 90°.

Product data

IEC: 500 V / 17.5 A / 0.2 - 1.5 mm²
UL: 300 V / 12 A / AWG 24 - 16

For additional articles and information, refer to catalog.weidmueller.com

Note:

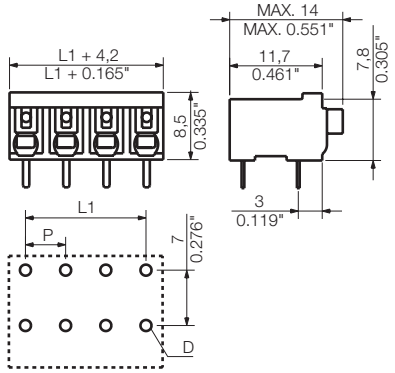
- Additional push button colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- P on drawing = pitch
- Operating force of slider max. 40 N
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- Crimping shape „A" for wire end ferrules with PZ 6/5 crimping tool are recommended for the largest cable sizes.

LSF-SMT 5.00/../90

Reflow-compatible PCB Terminal



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm²	0.13...1.5		
Solid core H05(07) V-U	**mm²**	**0.2...1.5**		
Stranded H07 V-R				
Flexible H05(07) V-K	mm²	0.2...1.5		
Flexible with ferrule	mm²	0.25...1.5		
Ferrule with plastic collar	mm²	0.25...0.75		
Stripping length	mm	8		
Screwdriver blade	mm			
According to norm				
Tightening torque range	Nm			
Rated current, max.	**A**	**17.5**		**17.5**
At ambient temperature		20°C		40°C
For conductor cross-section	mm²		1.5	
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	**V**	**250**	**320**	**500**
Rated impulse voltage	kV	4	4	4
UL / CUL (Use Group)		**B**	**C**	**D**
Rated voltage	**V**	**300**		**300**
Rated current	**A**	**12**		**10**
AWG conductor	**AWG**		**24-16**	
CSA (Use Group)		**B**	**C**	**D**
Rated voltage	V	300		300
Rated current	A	10		10
AWG conductor	AWG		24-16	
General data				
Type of insulation material			LCP GF	
UL 94 flammability rating			V-0	
Contact base material			Copper alloy	
Material of contact surface			tinned	
Pin dimensions = d	mm		0.35 x 0.8	
Solder eyelet Ø = D	mm		1.1	
Solder eyelet Ø tolerance	mm		+ 0,1	

Accessories

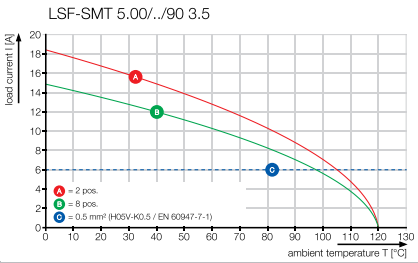
Note: Refer to the Accessories chapter for additional accessories.

Screwdriver		Order No.
	SDIS 0.4X2.5X75	9008370000
	SDS 0.4X2.5X75	9009030000

Ordering data

Solder pin length				1.5 mm	3.5 mm
Colour				Black	Black
Pitch	**5.00 mm**				
Pol.	L1	(inch)	Qty.	Order No.	Order No.
2	5.00	0.197	60	1869600000	1824740000
3	10.00	0.394	39	1869610000	1824750000
4	15.00	0.591	28	1869620000	1824760000
5	20.00	0.787	22	1869630000	1824770000
6	25.00	0.984	18	1869640000	1824780000
7	30.00	1.181	16	1869650000	1824790000
8	35.00	1.378	14	1869660000	1824800000

Representative deratings curve



LSF-SMT 5.00/../90 Tape

Reflow-compatible PCB Terminal



Dimensioned drawing

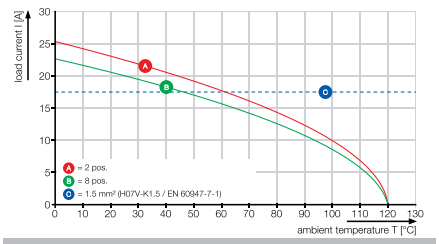
Ordering data

Solder pin length				1.5 mm	3.5 mm
Colour				Black	Black
Pitch	**5.00 mm**				
Pol.	L1	(inch)	Qty.	Order No.	Order No.
2	5.00	0.197	265	1876240000	1876430000
3	10.00	0.394	265	1876260000	1876510000
4	15.00	0.591	265	1876270000	1876530000
5	20.00	0.787	265	1876280000	1876550000
6	25.00	0.984	265	1876300000	1876560000
7	30.00	1.181	265	1876330000	1876540000
8	35.00	1.378	265	1876350000	1876520000

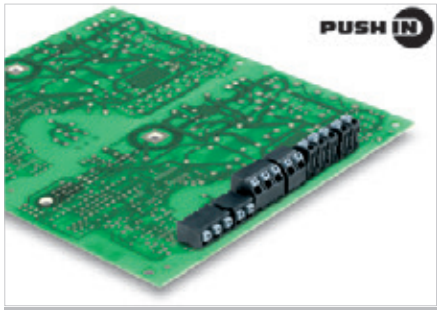
Tape widths: 32, 44, 56, 72, 88

Additional deratings curves

LSF-SMT 5.00/../90 3.5



LSF-SMT 5.00/../135



PCB terminal for fully automatic assembly, in 5.00 mm pitch, for THR reflow soldering (SMT) and wave soldering.

- PUSH IN wire connection, for wire cross-sections up to 1.5 mm².
- Form and dimensional stability provided by the LCP insulating material.
- Conductor inserted and slider operated in same direction (TOP).
- Packaged in tube or tape-on-reel.
- Pin lengths optimised to 1.5 mm or 3.5 mm.
- Wire outlet direction of 135°.

Product data

IEC: 500 V / 17.5 A / 0.2 - 1.5 mm²
UL: 300 V / 12 A / AWG 24 - 16

For additional articles and information, refer to catalog.weidmueller.com

Note:

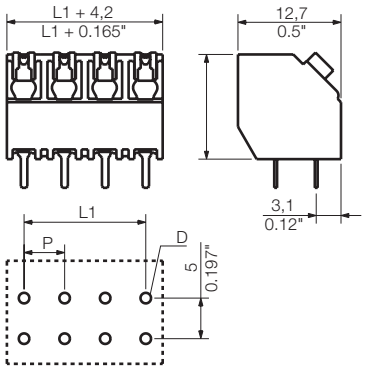
- Additional push button colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- P on drawing = pitch
- Operating force of slider max. 40 N
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- Crimping shape „A" for wire end ferrules with PZ 6/5 crimping tool are recommended for the largest cable sizes.

LSF-SMT 5.00/../135

Reflow-compatible PCB Terminal



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm²	0.13...1.5		
Solid core H05(07) V-U	**mm²**	**0.2...1.5**		
Stranded H07 V-R				
Flexible H05(07) V-K	mm²	0.2...1.5		
Flexible with ferrule	mm²	0.25...1.5		
Ferrule with plastic collar	mm²	0.25...0.75		
Stripping length	mm	8		
Screwdriver blade	mm			
According to norm				
Tightening torque range	Nm			
Rated current, max.	**A**	**17.5**		**17.5**
At ambient temperature		20°C		40°C
For conductor cross-section	mm²		1.5	
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	**V**	**250**	**320**	**500**
Rated impulse voltage	kV	4	4	4
UL / CUL (Use Group)		**B**	**C**	**D**
Rated voltage	**V**	**300**		**300**
Rated current	**A**	**12**		**10**
AWG conductor	**AWG**		**24-16**	
CSA (Use Group)		**B**	**C**	**D**
Rated voltage	V	300		300
Rated current	A	10		10
AWG conductor	AWG		24-16	
General data				
Type of insulation material			LCP GF	
UL 94 flammability rating			V-0	
Contact base material			Copper alloy	
Material of contact surface			tinned	
Pin dimensions = d	mm		0.35 x 0.8	
Solder eyelet Ø = D	mm		1.1	
Solder eyelet Ø tolerance	mm		+ 0,1	

Accessories

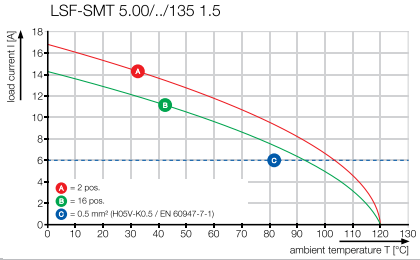
Note: Refer to the Accessories chapter for additional accessories.

Screwdriver		Order No.
	SDIS 0.4X2.5X75	9008370000
	SDS 0.4X2.5X75	9009030000

Ordering data

Solder pin length				1.5 mm	3.5 mm
Colour				Black	Black
Pitch	**5.00 mm**				
Pol.	L1	(inch)	Qty.	Order No.	Order No.
2	5.00	0.197	60	1884530000	1884340000
3	10.00	0.394	39	1884540000	1884370000
4	15.00	0.591	28	1884550000	1884380000
5	20.00	0.787	22	1884560000	1884390000
6	25.00	0.984	18	1884570000	1884400000
7	30.00	1.181	16	1884580000	1884410000
8	35.00	1.378	14	1884590000	1884420000
9	40.00	1.575	12	1884600000	1884430000
10	45.00	1.772	11	1884660000	1884440000
11	50.00	1.969	10	1884670000	1884450000
12	55.00	2.165	9	1884680000	1884460000
13	60.00	2.362	8	1884690000	1884470000
14	65.00	2.559	8	1884700000	1884500000
15	70.00	2.756	7	1884710000	1884510000
16	75.00	2.953	6	1884720000	1884520000

Representative deratings curve



LSF-SMT 5.00/../135 Tape

Reflow-compatible PCB Terminal



Dimensioned drawing

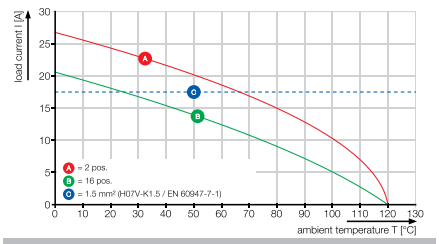
Ordering data

Solder pin length				1.5 mm	3.5 mm
Colour				Black	Black
Pitch	**5.00 mm**				
Pol.	L1	(inch)	Qty.	Order No.	Order No.
2	5.00	0.197	190	1888570000	1888640000
3	10.00	0.394	190	1888580000	1888650000
4	15.00	0.591	190	1888590000	1888660000
5	20.00	0.787	190	1888600000	1888670000
6	25.00	0.984	190	1888610000	1888680000
7	30.00	1.181	190	1888620000	1888690000
8	35.00	1.378	190	1888630000	1888700000

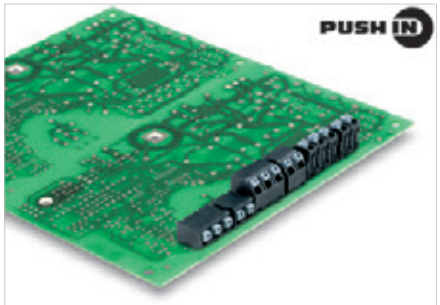
Tape widths: 32, 44, 56, 72, 88

Additional deratings curves

LSF-SMT 5.00/../135 1.5



LSF-SMT 5.00/../180



PCB terminal for fully automatic assembly, in 5.00 mm pitch, for THR reflow soldering (SMT) and wave soldering.

- PUSH IN wire connection, for wire cross-sections up to 1.5 mm².
- Form and dimensional stability provided by the LCP insulating material.
- Conductor inserted and slider operated in same direction (TOP).
- Packaged in tube or tape-on-reel.
- Pin lengths optimised to 1.5 mm or 3.5 mm.
- Wire outlet direction of 180°.

Product data

IEC: 500 V / 17.5 A / 0.2 - 1.5 mm²
UL: 300 V / 12 A / AWG 24 - 16

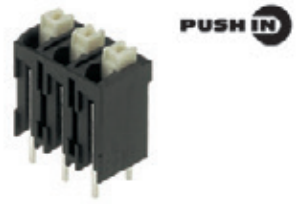
For additional articles and information, refer to catalog.weidmueller.com

Note:

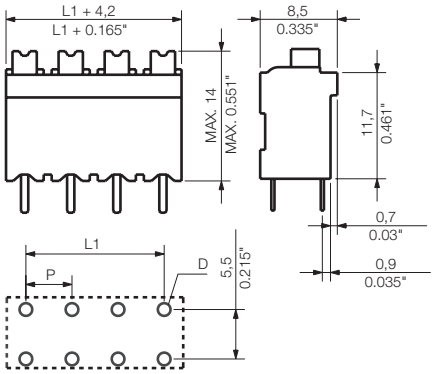
- Additional push button colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- P on drawing = pitch
- Operating force of slider max. 40 N
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- Crimping shape „A" for wire end ferrules with PZ 6/5 crimping tool are recommended for the largest cable sizes.

LSF-SMT 5.00/../180

Reflow-compatible PCB Terminal



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm²	0.13...1.5		
Solid core H05(07) V-U	**mm²**	**0.2...1.5**		
Stranded H07 V-R				
Flexible H05(07) V-K	mm²	0.2...1.5		
Flexible with ferrule	mm²	0.25...1.5		
Ferrule with plastic collar	mm²	0.25...0.75		
Stripping length	mm	8		
Screwdriver blade	mm			
According to norm				
Tightening torque range	Nm			
Rated current, max.	**A**	**17.5**		**17.5**
At ambient temperature		20°C		40°C
For conductor cross-section	mm²		1.5	
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	**V**	**250**	**320**	**500**
Rated impulse voltage	kV	4	4	4
UL / CUL (Use Group)		**B**	**C**	**D**
Rated voltage	**V**	**300**		**300**
Rated current	**A**	**12**		**10**
AWG conductor	**AWG**		**24-16**	
CSA (Use Group)		**B**	**C**	**D**
Rated voltage	V	300		300
Rated current	A	10		10
AWG conductor	AWG		24-16	
General data				
Type of insulation material			LCP GF	
UL 94 flammability rating			V-0	
Contact base material			Copper alloy	
Material of contact surface			tinned	
Pin dimensions = d	mm		0.35 x 0.8	
Solder eyelet Ø = D	mm		1.1	
Solder eyelet Ø tolerance	mm		+ 0,1	

Accessories

Note: Refer to the Accessories chapter for additional accessories.

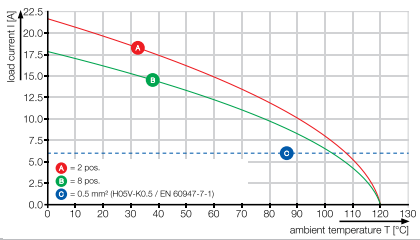
Screwdriver		Order No.
	SDIS 0.4X2.5X75	9008370000
	SDS 0.4X2.5X75	9009030000

Ordering data

Solder pin length				1.5 mm	3.5 mm
Colour				Black	Black
Pitch	**5.00 mm**				
Pol.	L1	(inch)	Qty.	Order No.	Order No.
2	5.00	0.197	60	1870140000	1825960000
3	10.00	0.394	39	1870150000	1825970000
4	15.00	0.591	28	1870160000	1825980000
5	20.00	0.787	22	1870170000	1825990000
6	25.00	0.984	18	1870180000	1826000000
7	30.00	1.181	16	1870190000	1826010000
8	35.00	1.378	14	1870200000	1826020000

Representative deratings curve

LSF-SMT 5.00/../180 3.5



LSF-SMT 5.00/../180 Tape

Reflow-compatible PCB Terminal



Dimensioned drawing

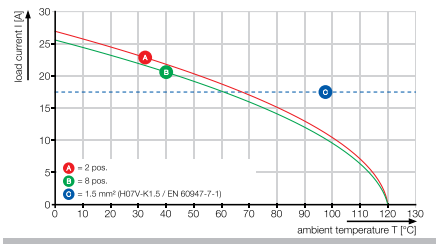
Ordering data

Solder pin length				1.5 mm	3.5 mm
Colour				Black	Black
Pitch	**5.00 mm**				
Pol.	L1	(inch)	Qty.	Order No.	Order No.
2	5.00	0.197	175	1876020000	1876110000
3	10.00	0.394	175	1876030000	1876130000
4	15.00	0.591	175	1876050000	1876140000
5	20.00	0.787	175	1876060000	1876160000
6	25.00	0.984	175	1876070000	1876200000
7	30.00	1.181	175	1876080000	1876220000
8	35.00	1.378	175	1876090000	1876230000

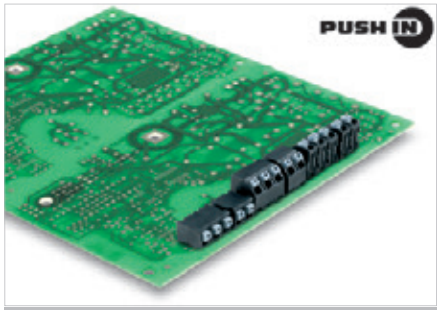
Tape widths: 32, 44, 56, 72, 88

Additional deratings curves

LSF-SMT 5.00/../180 3.5



LSF-SMT 5.08/../90



PCB terminal for fully automatic assembly, in 5.08 mm pitch, for THR reflow soldering (SMT) and wave soldering.

- PUSH IN wire connection, for wire cross-sections up to 1.5 mm².
- Form and dimensional stability provided by the LCP insulating material.
- Conductor inserted and slider operated in same direction (TOP).
- Packaged in tube or tape-on-reel.
- Pin lengths optimised to 1.5 mm or 3.5 mm.
- Wire outlet direction of 90°.

Product data

IEC: 500 V / 17.5 A / 0.2 - 1.5 mm²
UL: 300 V / 12 A / AWG 24 - 16

For additional articles and information, refer to catalog.weidmueller.com

Note:

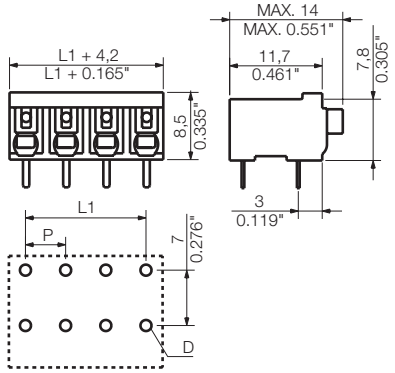
- Additional push button colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- P on drawing = pitch
- Operating force of slider max. 40 N
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- Crimping shape „A" for wire end ferrules with PZ 6/5 crimping tool are recommended for the largest cable sizes.

LSF-SMT 5.08/../90

Reflow-compatible PCB Terminal



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm²	0.13...1.5		
Solid core H05(07) V-U	**mm²**	**0.2...1.5**		
Stranded H07 V-R				
Flexible H05(07) V-K	mm²	0.2...1.5		
Flexible with ferrule	mm²	0.25...1.5		
Ferrule with plastic collar	mm²	0.25...0.75		
Stripping length	mm	8		
Screwdriver blade	mm			
According to norm				
Tightening torque range	Nm			
Rated current, max.	**A**	**17.5**		**17.5**
At ambient temperature		20°C		40°C
For conductor cross-section	mm²		1.5	
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	**V**	**250**	**320**	**500**
Rated impulse voltage	kV	4	4	4
UL / CUL (Use Group)		**B**	**C**	**D**
Rated voltage	**V**	**300**		**300**
Rated current	**A**	**12**		**10**
AWG conductor	**AWG**		**24-16**	
CSA (Use Group)		**B**	**C**	**D**
Rated voltage	V	300		300
Rated current	A	10		10
AWG conductor	AWG		24-16	
General data				
Type of insulation material			LCP GF	
UL 94 flammability rating			V-0	
Contact base material			Copper alloy	
Material of contact surface			tinned	
Pin dimensions = d	mm		0.35 x 0.8	
Solder eyelet Ø = D	mm		1.1	
Solder eyelet Ø tolerance	mm		+ 0,1	

Accessories

Note: Refer to the Accessories chapter for additional accessories.

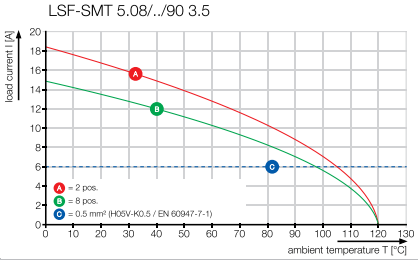
Screwdriver		Order No.
	SDIS 0.4X2.5X75	9008370000
	SDS 0.4X2.5X75	9009030000

Ordering data

Solder pin length				1.5 mm	3.5 mm
Colour				Black	Black
Pitch	**5.08 mm**				
Pol.	L1	(inch)	Qty.	Order No.	Order No.
2	5.08	0.200	59	1869670000	1824810000
3	10.16	0.400	38	1869680000	1824820000
4	15.24	0.600	28	1869690000	1824830000
5	20.32	0.800	22	1869700000	1824840000
6	25.40	1.000	18	1869710000	1824850000
7	30.48	1.200	15	1869720000	1824860000
8	35.56	1.400	13	1869730000	1824870000

Representative deratings curve

LSF-SMT 5.08/../90 3.5



LSF-SMT 5.08/../90 Tape

Reflow-compatible PCB Terminal



Dimensioned drawing

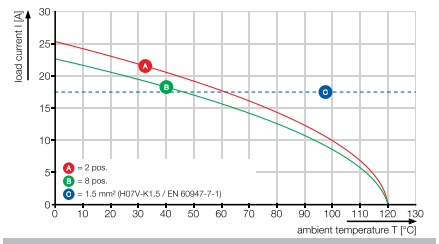
Ordering data

Solder pin length				1.5 mm	3.5 mm
Colour				Black	Black
Pitch	**5.08 mm**				
Pol.	L1	(inch)	Qty.	Order No.	Order No.
2	5.08	0.200	265	1876480000	1876470000
3	10.16	0.400	265	1876440000	1876420000
4	15.24	0.600	265	1878520000	1876310000
5	20.32	0.800	265	1876210000	1876190000
6	25.40	1.000	265	1876150000	1876120000
7	30.48	1.200	265	1875720000	1875690000
8	35.56	1.400	265	1875520000	1875510000

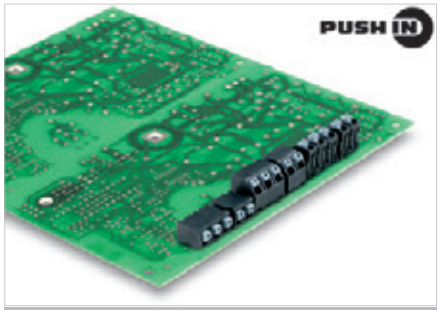
Tape widths: 32, 44, 56, 72, 88

Additional deratings curves

LSF-SMT 5.08/../90 3.5



LSF-SMT 5.08/../135



PCB terminal for fully automatic assembly, in 5.08 mm pitch, for THR reflow soldering (SMT) and wave soldering.

- PUSH IN wire connection, for wire cross-sections up to 1.5 mm².
- Form and dimensional stability provided by the LCP insulating material.
- Conductor inserted and slider operated in same direction (TOP).
- Packaged in tube or tape-on-reel.
- Pin lengths optimised to 1.5 mm or 3.5 mm.
- Wire outlet direction of 135°.

Product data

IEC: 500 V / 17.5 A / 0.2 - 1.5 mm²
UL: 300 V / 12 A / AWG 24 - 16

For additional articles and information, refer to catalog.weidmueller.com

Note:

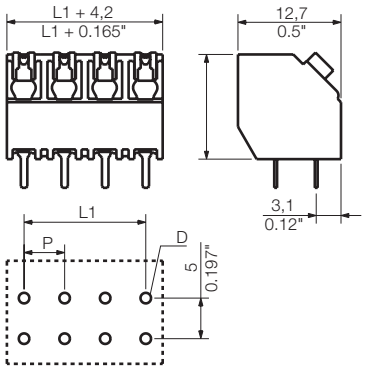
- Additional push button colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- P on drawing = pitch
- Operating force of slider max. 40 N
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- Crimping shape „A" for wire end ferrules with PZ 6/5 crimping tool are recommended for the largest cable sizes.

LSF-SMT 5.08/../135

Reflow-compatible PCB Terminal



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm²	0.13...1.5		
Solid core H05(07) V-U	**mm²**	**0.2...1.5**		
Stranded H07 V-R				
Flexible H05(07) V-K	mm²	0.2...1.5		
Flexible with ferrule	mm²	0.25...1.5		
Ferrule with plastic collar	mm²	0.25...0.75		
Stripping length	mm	8		
Screwdriver blade	mm			
According to norm				
Tightening torque range	Nm			
Rated current, max.	**A**	**17.5**		**17.5**
At ambient temperature		20°C		40°C
For conductor cross-section	mm²		1.5	
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	**V**	**250**	**320**	**500**
Rated impulse voltage	kV	4	4	4
UL / CUL (Use Group)		**B**	**C**	**D**
Rated voltage	**V**	**300**		**300**
Rated current	**A**	**12**		**10**
AWG conductor	**AWG**		**24-16**	
CSA (Use Group)		**B**	**C**	**D**
Rated voltage	V	300		300
Rated current	A	10		10
AWG conductor	AWG		24-16	
General data				
Type of insulation material			LCP GF	
UL 94 flammability rating			V-0	
Contact base material			Copper alloy	
Material of contact surface			tinned	
Pin dimensions = d	mm		0.35 x 0.8	
Solder eyelet Ø = D	mm		1.1	
Solder eyelet Ø tolerance	mm		+ 0,1	

Accessories

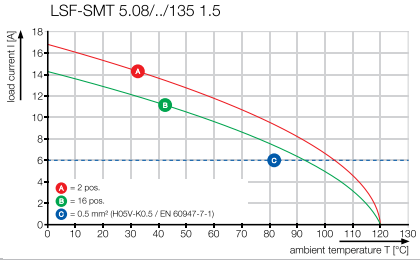
Note: Refer to the Accessories chapter for additional accessories.

Screwdriver		Order No.
	SDIS 0.4X2.5X75	9008370000
	SDS 0.4X2.5X75	9009030000

Ordering data

Solder pin length				1.5 mm	3.5 mm
Colour				Black	Black
Pitch	**5.08 mm**				
Pol.	L1	(inch)	Qty.	Order No.	Order No.
2	5.08	0.200	59	1884730000	1885020000
3	10.16	0.400	38	1884740000	1885030000
4	15.24	0.600	28	1884750000	1885040000
5	20.32	0.800	22	1884760000	1885050000
6	25.40	1.000	18	1884770000	1885060000
7	30.48	1.200	15	1884780000	1885070000
8	35.56	1.400	13	1884790000	1885080000
9	40.64	1.600	12	1884800000	1885090000
10	45.72	1.800	11	1884810000	1885100000
11	50.80	2.000	10	1884820000	1885110000
12	55.88	2.200	9	1884830000	1885120000
13	60.96	2.400	8	1884840000	1885130000
14	66.04	2.600	7	1884850000	1885140000
15	71.12	2.800	7	1884860000	1885150000
16	76.20	3.000	6	1884870000	1885160000

Representative deratings curve



LSF-SMT 5.08/../135 Tape

Reflow-compatible PCB Terminal



Dimensioned drawing

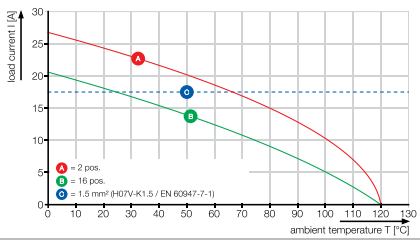
Ordering data

Solder pin length				1.5 mm	3.5 mm
Colour				Black	Black
Pitch	**5.08 mm**				
Pol.	L1	(inch)	Qty.	Order No.	Order No.
2	5.08	0.200	190	1888710000	1888780000
3	10.16	0.400	190	1888720000	1888790000
4	15.24	0.600	190	1888730000	1888810000
5	20.32	0.800	190	1888740000	1888830000
6	25.40	1.000	190	1888750000	1888840000
7	30.48	1.200	190	1888760000	1888870000
8	35.56	1.400	190	1888770000	1888880000

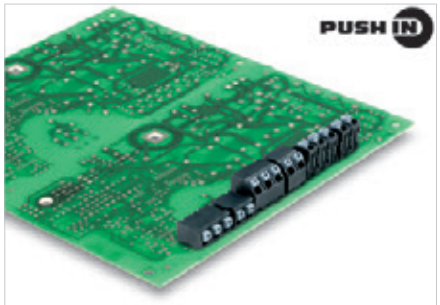
Tape widths: 32, 44, 56, 72, 88

Additional deratings curves

LSF-SMT 5.08/../135 1.5



LSF-SMT 5.08/../180



PCB terminal for fully automatic assembly, in 5.08 mm pitch, for THR reflow soldering (SMT) and wave soldering.

- PUSH IN wire connection, for wire cross-sections up to 1.5 mm².
- Form and dimensional stability provided by the LCP insulating material.
- Conductor inserted and slider operated in same direction (TOP).
- Packaged in tube or tape-on-reel.
- Pin lengths optimised to 1.5 mm or 3.5 mm.
- Wire outlet direction of 180°.

Product data

IEC: 500 V / 17.5 A / 0.2 - 1.5 mm²
UL: 300 V / 12 A / AWG 24 - 16

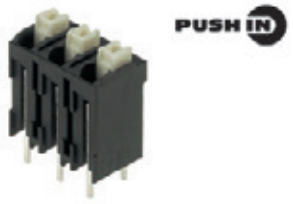
For additional articles and information, refer to catalog.weidmueller.com

Note:

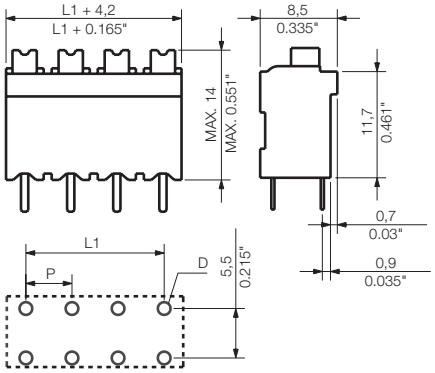
- Additional push button colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- P on drawing = pitch
- Operating force of slider max. 40 N
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- Crimping shape „A" for wire end ferrules with PZ 6/5 crimping tool are recommended for the largest cable sizes.

LSF-SMT 5.08/../180

Reflow-compatible PCB Terminal



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm²	0.13...1.5		
Solid core H05(07) V-U	**mm²**	**0.2...1.5**		
Stranded H07 V-R				
Flexible H05(07) V-K	mm²	0.2...1.5		
Flexible with ferrule	mm²	0.25...1.5		
Ferrule with plastic collar	mm²	0.25...0.75		
Stripping length	mm	8		
Screwdriver blade	mm			
According to norm				
Tightening torque range	Nm			
Rated current, max.	**A**	**17.5**		**17.5**
At ambient temperature		20°C		40°C
For conductor cross-section	mm²		1.5	
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	**V**	**250**	**320**	**500**
Rated impulse voltage	kV	4	4	4
UL / CUL (Use Group)		**B**	**C**	**D**
Rated voltage	**V**	**300**		**300**
Rated current	**A**	**12**		**10**
AWG conductor	**AWG**		**24-16**	
CSA (Use Group)		**B**	**C**	**D**
Rated voltage	V	300		300
Rated current	A	10		10
AWG conductor	AWG		24-16	
General data				
Type of insulation material			LCP GF	
UL 94 flammability rating			V-0	
Contact base material			Copper alloy	
Material of contact surface			tinned	
Pin dimensions = d	mm		0.35 x 0.8	
Solder eyelet Ø = D	mm		1.1	
Solder eyelet Ø tolerance	mm		+ 0,1	

Accessories

Note: Refer to the Accessories chapter for additional accessories.

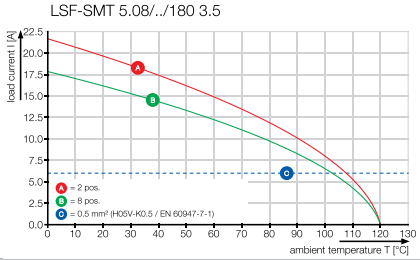
Screwdriver		Order No.
	SDIS 0.4X2.5X75	9008370000
	SDS 0.4X2.5X75	9009030000

Ordering data

Solder pin length				1.5 mm	3.5 mm
Colour				Black	Black
Pitch	**5.08 mm**				
Pol.	L1	(inch)	Qty.	Order No.	Order No.
2	5.08	0.200	59	1870210000	1826040000
3	10.16	0.400	38	1870220000	1826060000
4	15.24	0.600	28	1870230000	1826070000
5	20.32	0.800	22	1870240000	1826080000
6	25.40	1.000	18	1870250000	1826100000
7	30.48	1.200	15	1870260000	1826110000
8	35.56	1.400	13	1870270000	1826120000

Representative deratings curve

LSF-SMT 5.08/../180 3.5



LSF-SMT 5.08/../180 Tape

Reflow-compatible PCB Terminal



Dimensioned drawing

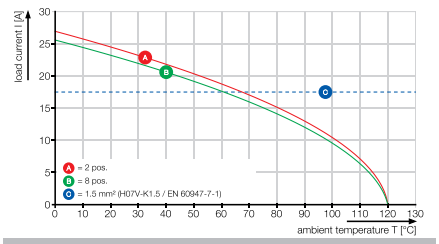
Ordering data

Solder pin length				1.5 mm	3.5 mm
Colour				Black	Black
Pitch	**5.08 mm**				
Pol.	L1	(inch)	Qty.	Order No.	Order No.
2	5.08	0.200	175	1876500000	1876490000
3	10.16	0.400	175	1876460000	1876450000
4	15.24	0.600	175	1876410000	1876360000
5	20.32	0.800	175	1876290000	1876250000
6	25.40	1.000	175	1876180000	1876170000
7	30.48	1.200	175	1876100000	1875750000
8	35.56	1.400	175	1875610000	1875580000

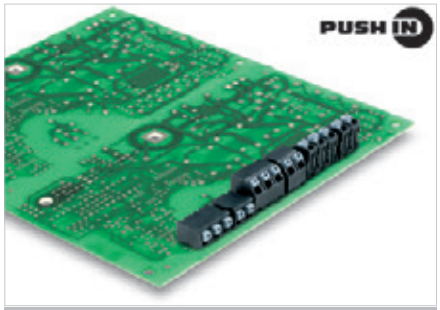
Tape widths: 32, 44, 56, 72, 88

Additional deratings curves

LSF-SMT 5.08/../180 3.5



LSF-SMT 7.50/../90



PCB terminal for fully automatic assembly, in 7.50 mm pitch, for THR reflow soldering (SMT) and wave soldering.

- PUSH IN wire connection, for wire cross-sections up to 1.5 mm².
- Form and dimensional stability provided by the LCP insulating material.
- Conductor inserted and slider operated in same direction (TOP).
- Packaged in tube or tape-on-reel.
- Pin lengths optimised to 1.5 mm or 3.5 mm.
- Wire outlet direction of 90°.

Product data

IEC: 800 V / 17.5 A / 0.2 - 1.5 mm²
UL: 300 V / 12 A / AWG 24 - 16

For additional articles and information, refer to catalog.weidmueller.com

Note:

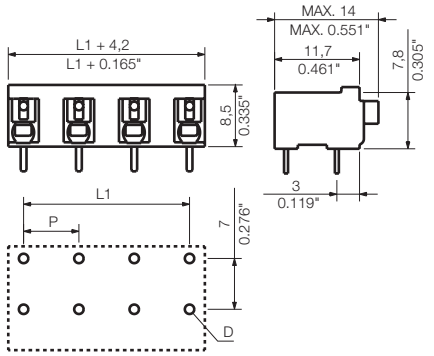
- Additional push button colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- P on drawing = pitch
- Operating force of slider max. 40 N
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- Crimping shape „A" for wire end ferrules with PZ 6/5 crimping tool are recommended for the largest cable sizes.

LSF-SMT 7.50/../90

Reflow-compatible PCB Terminal



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm²	0.13...1.5		
Solid core H05(07) V-U	**mm²**	**0.2...1.5**		
Stranded H07 V-R				
Flexible H05(07) V-K	mm²	0.2...1.5		
Flexible with ferrule	mm²	0.25...1.5		
Ferrule with plastic collar	mm²	0.25...0.75		
Stripping length	mm	8		
Screwdriver blade	mm			
According to norm				
Tightening torque range	Nm			
Rated current, max.	**A**	**17.5**		**17.5**
At ambient temperature		20°C		40°C
For conductor cross-section	mm²		1.5	
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	**V**	**500**	**630**	**800**
Rated impulse voltage	kV	6	6	6
UL / CUL (Use Group)		**B**	**C**	**D**
Rated voltage	**V**	**300**	**150**	**300**
Rated current	**A**	**12**	**10**	**10**
AWG conductor	**AWG**		**24-16**	
CSA (Use Group)		**B**	**C**	**D**
Rated voltage	V	300	150	300
Rated current	A	10	10	10
AWG conductor	AWG		24-16	
General data				
Type of insulation material			LCP GF	
UL 94 flammability rating			V-0	
Contact base material			Copper alloy	
Material of contact surface			tinned	
Pin dimensions = d	mm		0.35 x 0.8	
Solder eyelet Ø = D	mm		1.1	
Solder eyelet Ø tolerance	mm		+ 0,1	

Accessories

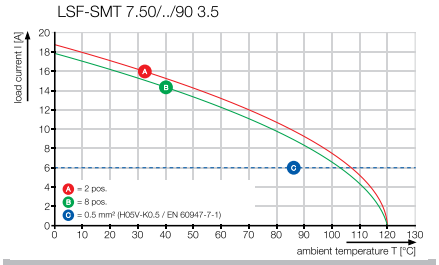
Note: Refer to the Accessories chapter for additional accessories.

Screwdriver		Order No.
	SDIS 0.4X2.5X75	9008370000
	SDS 0.4X2.5X75	9009030000

Ordering data

Solder pin length				1.5 mm	3.5 mm
Colour				Black	Black
Pitch	**7.50 mm**				
Pol.	L1	(inch)	Qty.	Order No.	Order No.
2	7.50	0.295	47	1869740000	1824880000
3	15.00	0.591	28	1869750000	1824890000
4	22.50	0.886	20	1869760000	1824900000
5	30.00	1.181	16	1869770000	1824910000
6	37.50	1.476	13	1869780000	1824920000
7	45.00	1.772	11	1869790000	1824930000
8	52.50	2.067	9	1869800000	1824940000

Representative deratings curve



LSF-SMT 7.50/../90 Tape

Reflow-compatible PCB Terminal



Dimensioned drawing

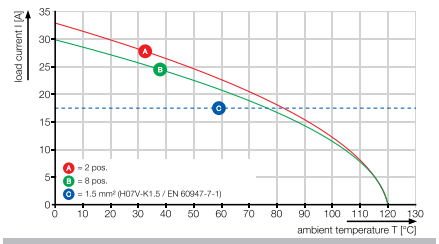
Ordering data

Solder pin length				1.5 mm	3.5 mm
Colour				Black	Black
Pitch	**7.50 mm**				
Pol.	L1	(inch)	Qty.	Order No.	Order No.
2	7.50	0.295	265	1875480000	1875470000
3	15.00	0.591	265	1875440000	1875430000
4	22.50	0.886	265	1875040000	1875020000
5	30.00	1.181	265	1874980000	1874960000
6	37.50	1.476	265	1874910000	1874880000

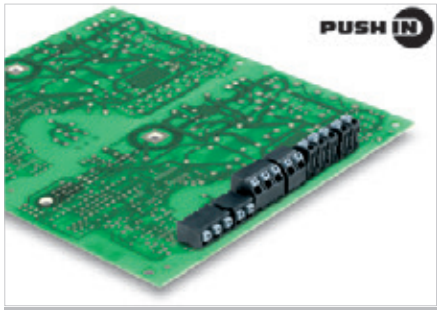
Tape widths: 32, 44, 56, 72, 88

Additional deratings curves

LSF-SMT 7.50/../90 3.5



LSF-SMT 7.50/../135



PCB terminal for fully automatic assembly, in 7.50 mm pitch, for THR reflow soldering (SMT) and wave soldering.

- PUSH IN wire connection, for wire cross-sections up to 1.5 mm².
- Form and dimensional stability provided by the LCP insulating material.
- Conductor inserted and slider operated in same direction (TOP).
- Packaged in tube or tape-on-reel.
- Pin lengths optimised to 1.5 mm or 3.5 mm.
- Wire outlet direction of 135°.

Product data

IEC: 800 V / 17.5 A / 0.2 - 1.5 mm²
UL: 300 V / 12 A / AWG 24 - 16

For additional articles and information, refer to catalog.weidmueller.com

Note:

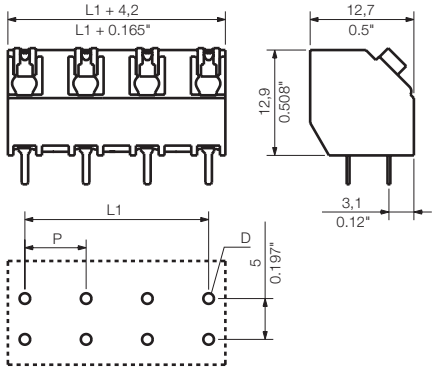
- Additional push button colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- P on drawing = pitch
- Operating force of slider max. 40 N
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- Crimping shape „A" for wire end ferrules with PZ 6/5 crimping tool are recommended for the largest cable sizes.

LSF-SMT 7.50/../135

Reflow-compatible PCB Terminal



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm²	0.13...1.5		
Solid core H05(07) V-U	**mm²**	**0.2...1.5**		
Stranded H07 V-R				
Flexible H05(07) V-K	mm²	0.2...1.5		
Flexible with ferrule	mm²	0.25...1.5		
Ferrule with plastic collar	mm²	0.25...0.75		
Stripping length	mm	8		
Screwdriver blade	mm			
According to norm				
Tightening torque range	Nm			
Rated current, max.	**A**	**17.5**		**17.5**
At ambient temperature		20°C		40°C
For conductor cross-section	mm²		1.5	
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	**V**	**500**	**630**	**800**
Rated impulse voltage	kV	6	6	6
UL / CUL (Use Group)		**B**	**C**	**D**
Rated voltage	**V**	**300**		**300**
Rated current	**A**	**12**		**10**
AWG conductor	**AWG**		**24-16**	
CSA (Use Group)		**B**	**C**	**D**
Rated voltage	V	300		300
Rated current	A	10		10
AWG conductor	AWG		24-16	
General data				
Type of insulation material			LCP GF	
UL 94 flammability rating			V-0	
Contact base material			Copper alloy	
Material of contact surface			tinned	
Pin dimensions = d	mm		0.35 x 0.8	
Solder eyelet Ø = D	mm		1.1	
Solder eyelet Ø tolerance	mm		+ 0,1	

Accessories

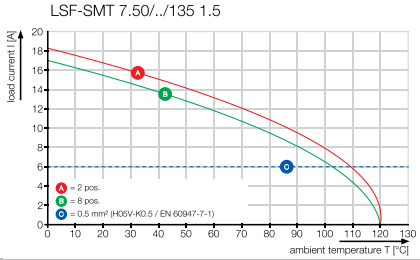
Note: Refer to the Accessories chapter for additional accessories.

Screwdriver		Order No.
	SDIS 0.4X2.5X75	9008370000
	SDS 0.4X2.5X75	9009030000

Ordering data

Solder pin length				1.5 mm	3.5 mm
Colour				Black	Black
Pitch	**7.50 mm**				
Pol.	L1	(inch)	Qty.	Order No.	Order No.
2	7.50	0.295	47	1884880000	1886110000
3	15.00	0.591	28	1884890000	1886120000
4	22.50	0.886	20	1884900000	1886130000
5	30.00	1.181	16	1884910000	1886140000
6	37.50	1.476	13	1884920000	1886150000
7	45.00	1.772	11	1884930000	1886160000
8	52.50	2.067	9	1884940000	1886170000

Representative deratings curve



LSF-SMT 7.50/../135 Tape

Reflow-compatible PCB Terminal



Dimensioned drawing

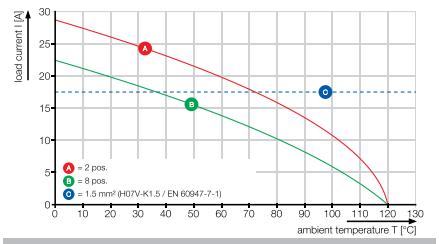
Ordering data

Solder pin length				1.5 mm	3.5 mm
Colour				Black	Black
Pitch	**7.50 mm**				
Pol.	L1	(inch)	Qty.	Order No.	Order No.
2	7.50	0.295	190	1888890000	1888970000
3	15.00	0.591	190	1888910000	1888990000
4	22.50	0.886	190	1888930000	1889000000
5	30.00	1.181	190	1888940000	1889020000
6	37.50	1.476	190	1888950000	1889030000

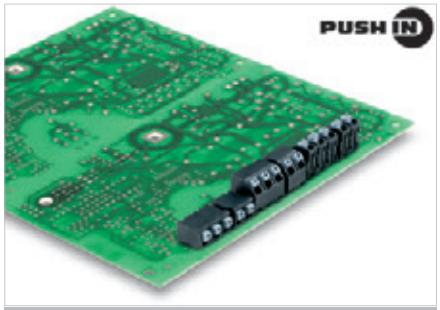
Tape widths: 32, 44, 56, 72, 88

Additional deratings curves

LSF-SMT 7.50/../135 1.5



LSF-SMT 7.50/../180



PCB terminal for fully automatic assembly, in 7.50 mm pitch, for THR reflow soldering (SMT) and wave soldering.

- PUSH IN wire connection, for wire cross-sections up to 1.5 mm².
- Form and dimensional stability provided by the LCP insulating material.
- Conductor inserted and slider operated in same direction (TOP).
- Packaged in tube or tape-on-reel.
- Pin lengths optimised to 1.5 mm or 3.5 mm.
- Wire outlet direction of 180°.

Product data

IEC: 800 V / 17.5 A / 0.2 - 1.5 mm²
UL: 300 V / 12 A / AWG 24 - 16

For additional articles and information, refer to catalog.weidmueller.com

Note:

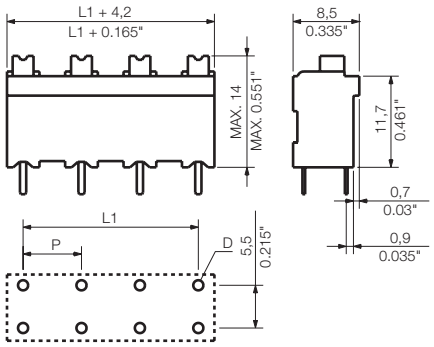
- Additional push button colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- P on drawing = pitch
- Operating force of slider max. 40 N
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- Crimping shape „A" for wire end ferrules with PZ 6/5 crimping tool are recommended for the largest cable sizes.

LSF-SMT 7.50/../180

Reflow-compatible PCB Terminal



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm²	0.13...1.5		
Solid core H05(07) V-U	**mm²**	**0.2...1.5**		
Stranded H07 V-R				
Flexible H05(07) V-K	mm²	0.2...1.5		
Flexible with ferrule	mm²	0.25...1.5		
Ferrule with plastic collar	mm²	0.25...0.75		
Stripping length	mm	8		
Screwdriver blade	mm			
According to norm				
Tightening torque range	Nm			
Rated current, max.	**A**	**17.5**		**17.5**
At ambient temperature		20°C		40°C
For conductor cross-section	mm²		1.5	
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	**V**	**500**	**630**	**800**
Rated impulse voltage	kV	6	6	6
UL / CUL (Use Group)		**B**	**C**	**D**
Rated voltage	**V**	**300**	**150**	**300**
Rated current	**A**	**12**	**10**	**10**
AWG conductor	**AWG**		**24-16**	
CSA (Use Group)		**B**	**C**	**D**
Rated voltage	V	300	150	300
Rated current	A	10	10	10
AWG conductor	AWG		24-16	
General data				
Type of insulation material			LCP GF	
UL 94 flammability rating			V-0	
Contact base material			Copper alloy	
Material of contact surface			tinned	
Pin dimensions = d	mm		0.35 x 0.8	
Solder eyelet Ø = D	mm		1.1	
Solder eyelet Ø tolerance	mm		+ 0,1	

Accessories

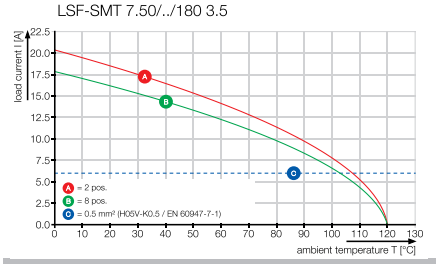
Note: Refer to the Accessories chapter for additional accessories.

Screwdriver		Order No.
	SDIS 0.4X2.5X75	9008370000
	SDS 0.4X2.5X75	9009030000

Ordering data

Solder pin length				1.5 mm	3.5 mm
Colour				Black	Black
Pitch	**7.50 mm**				
Pol.	L1	(inch)	Qty.	Order No.	Order No.
2	7.50	0.295	47	1870280000	1826130000
3	15.00	0.591	28	1870290000	1826140000
4	22.50	0.886	20	1870300000	1826150000
5	30.00	1.181	16	1870310000	1826160000
6	37.50	1.476	13	1870320000	1826170000
7	45.00	1.772	11	1870330000	1826180000
8	52.50	2.067	9	1870340000	1826190000

Representative deratings curve



LSF-SMT 7.50/../180 Tape

Reflow-compatible PCB Terminal



Dimensioned drawing

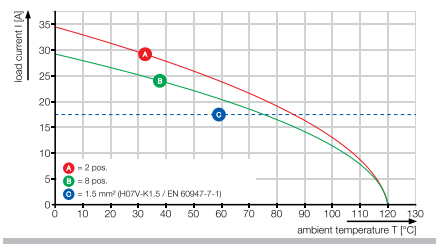
Ordering data

Solder pin length				1.5 mm	3.5 mm
Colour				Black	Black
Pitch	**7.50 mm**				
Pol.	L1	(inch)	Qty.	Order No.	Order No.
2	7.50	0.295	175	1875500000	1875490000
3	15.00	0.591	175	1875460000	1875450000
4	22.50	0.886	175	1875090000	1875060000
5	30.00	1.181	175	1875010000	1875000000
6	37.50	1.476	175	1874950000	1874920000

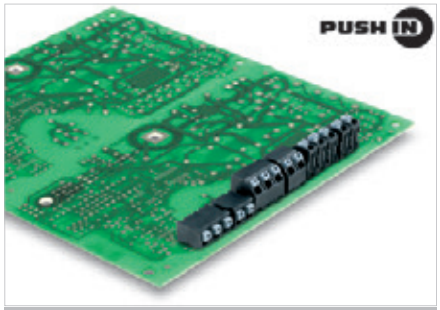
Tape widths: 32, 44, 56, 72, 88

Additional deratings curves

LSF-SMT 7.50/../180 3.5



LSF-SMT 7.62/../90



PCB terminal for fully automatic assembly, in 7.62 mm pitch, for THR reflow soldering (SMT) and wave soldering.

- PUSH IN wire connection, for wire cross-sections up to 1.5 mm².
- Form and dimensional stability provided by the LCP insulating material.
- Conductor inserted and slider operated in same direction (TOP).
- Packaged in tube or tape-on-reel.
- Pin lengths optimised to 1.5 mm or 3.5 mm.
- Wire outlet direction of 90°.

Product data

IEC: 800 V / 17.5 A / 0.2 - 1.5 mm²
UL: 300 V / 12 A / AWG 24 - 16

For additional articles and information, refer to catalog.weidmueller.com

Note:

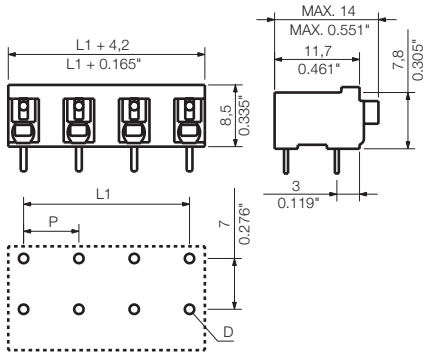
- Additional push button colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- P on drawing = pitch
- Operating force of slider max. 40 N
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- Crimping shape „A" for wire end ferrules with PZ 6/5 crimping tool are recommended for the largest cable sizes.

LSF-SMT 7.62/../90

Reflow-compatible PCB Terminal



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm²	0.13...1.5		
Solid core H05(07) V-U	**mm²**	**0.2...1.5**		
Stranded H07 V-R				
Flexible H05(07) V-K	mm²	0.2...1.5		
Flexible with ferrule	mm²	0.25...1.5		
Ferrule with plastic collar	mm²	0.25...0.75		
Stripping length	mm	8		
Screwdriver blade	mm			
According to norm				
Tightening torque range	Nm			
Rated current, max.	**A**	**17.5**		**17.5**
At ambient temperature		20°C		40°C
For conductor cross-section	mm²		1.5	
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	**V**	**500**	**630**	**800**
Rated impulse voltage	kV	6	6	6
UL / CUL (Use Group)		**B**	**C**	**D**
Rated voltage	**V**	**300**	**150**	**300**
Rated current	**A**	**12**	**10**	**10**
AWG conductor	**AWG**		**24-16**	
CSA (Use Group)		**B**	**C**	**D**
Rated voltage	V	300	150	300
Rated current	A	10	10	10
AWG conductor	AWG		24-16	
General data				
Type of insulation material			LCP GF	
UL 94 flammability rating			V-0	
Contact base material			Copper alloy	
Material of contact surface			tinned	
Pin dimensions = d	mm		0.35 x 0.8	
Solder eyelet Ø = D	mm		1.1	
Solder eyelet Ø tolerance	mm		+ 0,1	

Accessories

Note: Refer to the Accessories chapter for additional accessories.

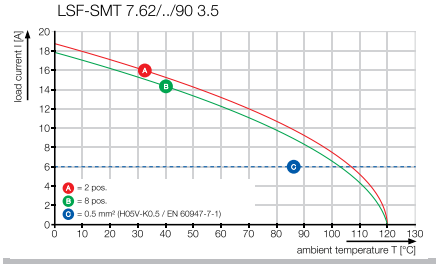
Screwdriver		Order No.
	SDIS 0.4X2.5X75	9008370000
	SDS 0.4X2.5X75	9009030000

Ordering data

Solder pin length				1.5 mm	3.5 mm
Colour				Black	Black
Pitch	**7.62 mm**				
Pol.	L1	(inch)	Qty.	Order No.	Order No.
2	7.62	0.300	46	1869260000	1824950000
3	15.24	0.600	28	1869270000	1824960000
4	22.86	0.900	20	1869280000	1824970000
5	30.48	1.200	15	1869290000	1824980000
6	38.10	1.500	13	1869300000	1824990000
7	45.72	1.800	11	1869310000	1825000000
8	53.34	2.100	9	1869320000	1825010000

Representative deratings curve

LSF-SMT 7.62/../90 3.5



LSF-SMT 7.62/../90 Tape

Reflow-compatible PCB Terminal



Dimensioned drawing

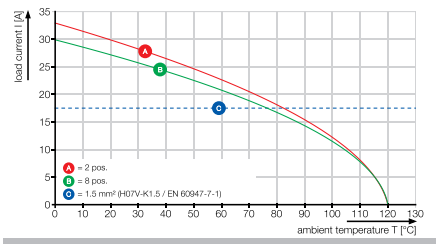
Ordering data

Solder pin length				1.5 mm	3.5 mm
Colour				Black	Black
Pitch	**7.62 mm**				
Pol.	L1	(inch)	Qty.	Order No.	Order No.
2	7.62	0.300	265	1874700000	1874670000
3	15.24	0.600	265	1874570000	1874550000
4	22.86	0.900	265	1874480000	1874470000
5	30.48	1.200	265	1874430000	1874410000
6	38.10	1.500	265	1874330000	1874290000

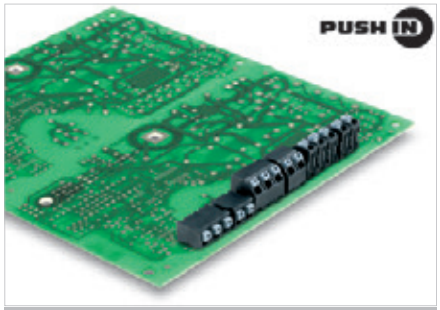
Tape widths: 32, 44, 56, 72, 88

Additional deratings curves

LSF-SMT 7.62/../90 3.5



LSF-SMT 7.62/../135



PCB terminal for fully automatic assembly, in 7.62 mm pitch, for THR reflow soldering (SMT) and wave soldering.

- PUSH IN wire connection, for wire cross-sections up to 1.5 mm².
- Form and dimensional stability provided by the LCP insulating material.
- Conductor inserted and slider operated in same direction (TOP).
- Packaged in tube or tape-on-reel.
- Pin lengths optimised to 1.5 mm or 3.5 mm.
- Wire outlet direction of 135°.

Product data

IEC: 800 V / 17.5 A / 0.2 - 1.5 mm²
UL: 300 V / 12 A / AWG 24 - 16

For additional articles and information, refer to catalog.weidmueller.com

Note:

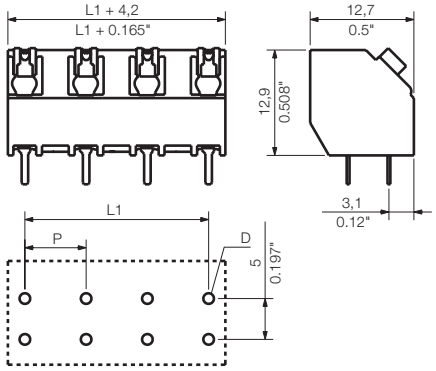
- Additional push button colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- P on drawing = pitch
- Operating force of slider max. 40 N
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- Crimping shape „A" for wire end ferrules with PZ 6/5 crimping tool are recommended for the largest cable sizes.

LSF-SMT 7.62/../135

Reflow-compatible PCB Terminal



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm²	0.13...1.5		
Solid core H05(07) V-U	**mm²**	**0.2...1.5**		
Stranded H07 V-R				
Flexible H05(07) V-K	mm²	0.2...1.5		
Flexible with ferrule	mm²	0.25...1.5		
Ferrule with plastic collar	mm²	0.25...0.75		
Stripping length	mm	8		
Screwdriver blade	mm			
According to norm				
Tightening torque range	Nm			
Rated current, max.	**A**	**17.5**		**17.5**
At ambient temperature		20°C		40°C
For conductor cross-section	mm²		1.5	
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	**V**	**500**	**630**	**800**
Rated impulse voltage	kV	6	6	6
UL / CUL (Use Group)		**B**	**C**	**D**
Rated voltage	**V**	**300**		**300**
Rated current	**A**	**12**		**10**
AWG conductor	**AWG**		**24-16**	
CSA (Use Group)		**B**	**C**	**D**
Rated voltage	V	300		300
Rated current	A	10		10
AWG conductor	AWG		24-16	
General data				
Type of insulation material			LCP GF	
UL 94 flammability rating			V-0	
Contact base material			Copper alloy	
Material of contact surface			tinned	
Pin dimensions = d	mm		0.35 x 0.8	
Solder eyelet Ø = D	mm		1.1	
Solder eyelet Ø tolerance	mm		+ 0,1	

Accessories

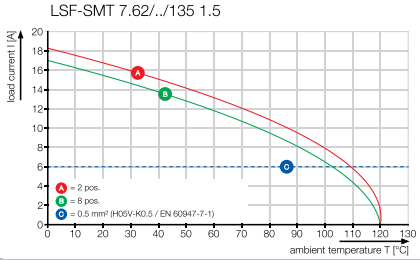
Note: Refer to the Accessories chapter for additional accessories.

Screwdriver		Order No.
	SDIS 0.4X2.5X75	9008370000
	SDS 0.4X2.5X75	9009030000

Ordering data

Solder pin length				1.5 mm	3.5 mm
Colour				Black	Black
Pitch	**7.62 mm**				
Pol.	L1	(inch)	Qty.	Order No.	Order No.
2	7.62	0.300	46	1884950000	1886180000
3	15.24	0.600	28	1884960000	1886190000
4	22.86	0.900	20	1884970000	1886200000
5	30.48	1.200	15	1884980000	1886210000
6	38.10	1.500	13	1884990000	1886220000
7	45.72	1.800	11	1885000000	1886230000
8	53.34	2.100	9	1885010000	1886240000

Representative deratings curve



LSF-SMT 7.62/../135 Tape

Reflow-compatible PCB Terminal



Dimensioned drawing

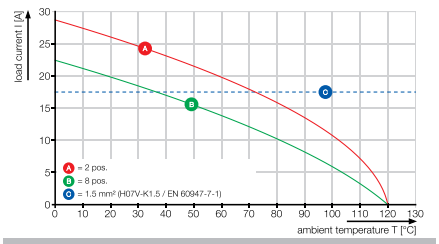
Ordering data

Solder pin length				1.5 mm	3.5 mm
Colour				Black	Black
Pitch	**7.62 mm**				
Pol.	L1	(inch)	Qty.	Order No.	Order No.
2	7.62	0.300	190	1887110000	1887160000
3	15.24	0.600	190	1887120000	1887170000
4	22.86	0.900	190	1887130000	1887180000
5	30.48	1.200	190	1887140000	1887190000
6	38.10	1.500	190	1887150000	1887200000

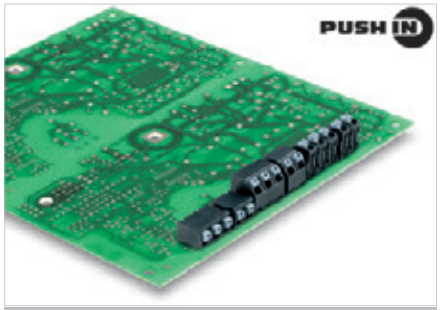
Tape widths: 32, 44, 56, 72, 88

Additional deratings curves

LSF-SMT 7.62/../135 1.5



LSF-SMT 7.62/../180



PCB terminal for fully automatic assembly, in 7.62 mm pitch, for THR reflow soldering (SMT) and wave soldering.

- PUSH IN wire connection, for wire cross-sections up to 1.5 mm².
- Form and dimensional stability provided by the LCP insulating material.
- Conductor inserted and slider operated in same direction (TOP).
- Packaged in tube or tape-on-reel.
- Pin lengths optimised to 1.5 mm or 3.5 mm.
- Wire outlet direction of 180°.

Product data

IEC: 800 V / 17.5 A / 0.2 - 1.5 mm²
UL: 300 V / 12 A / AWG 24 - 16

For additional articles and information, refer to catalog.weidmueller.com

Note:

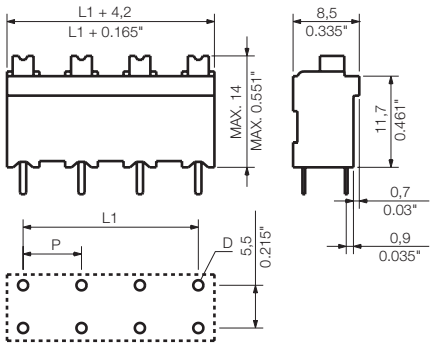
- Additional push button colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- P on drawing = pitch
- Operating force of slider max. 40 N
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- Crimping shape „A" for wire end ferrules with PZ 6/5 crimping tool are recommended for the largest cable sizes.

LSF-SMT 7.62/../180

Reflow-compatible PCB Terminal



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm²	0.13...1.5		
Solid core H05(07) V-U	**mm²**	**0.2...1.5**		
Stranded H07 V-R				
Flexible H05(07) V-K	mm²	0.2...1.5		
Flexible with ferrule	mm²	0.25...1.5		
Ferrule with plastic collar	mm²	0.25...0.75		
Stripping length	mm	8		
Screwdriver blade	mm			
According to norm				
Tightening torque range	Nm			
Rated current, max.	**A**	**17.5**		**17.5**
At ambient temperature		20°C		40°C
For conductor cross-section	mm²		1.5	
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	**V**	**500**	**630**	**800**
Rated impulse voltage	kV	6	6	6
UL / CUL (Use Group)		**B**	**C**	**D**
Rated voltage	**V**	**300**	**150**	**300**
Rated current	**A**	**12**	**10**	**10**
AWG conductor	**AWG**		**24-16**	
CSA (Use Group)		**B**	**C**	**D**
Rated voltage	V	300	150	300
Rated current	A	10	10	10
AWG conductor	AWG		24-16	
General data				
Type of insulation material			LCP GF	
UL 94 flammability rating			V-0	
Contact base material			Copper alloy	
Material of contact surface			tinned	
Pin dimensions = d	mm		0.35 x 0.8	
Solder eyelet Ø = D	mm		1.1	
Solder eyelet Ø tolerance	mm		+ 0,1	

Accessories

Note: Refer to the Accessories chapter for additional accessories.

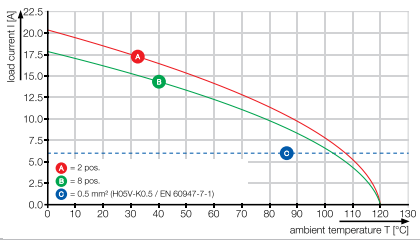
Screwdriver		Order No.
	SDIS 0.4X2.5X75	9008370000
	SDS 0.4X2.5X75	9009030000

Ordering data

Solder pin length				1.5 mm	3.5 mm
Colour				Black	Black
Pitch	**7.62 mm**				
Pol.	L1	(inch)	Qty.	Order No.	Order No.
2	7.62	0.300	46	1869810000	1826210000
3	15.24	0.600	28	1869830000	1826220000
4	22.86	0.900	20	1869840000	1826230000
5	30.48	1.200	15	1869850000	1826240000
6	38.10	1.500	13	1869860000	1826250000
7	45.72	1.800	11	1869870000	1826260000
8	53.34	2.100	9	1869880000	1826270000

Representative deratings curve

LSF-SMT 7.62/../180 3.5



LSF-SMT 7.62/../180 Tape

Reflow-compatible PCB Terminal



Dimensioned drawing

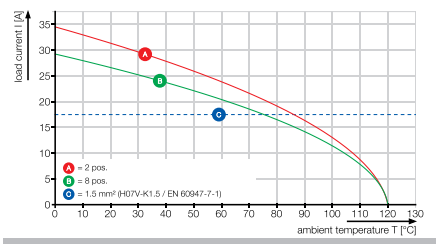
Ordering data

Solder pin length				1.5 mm	3.5 mm
Colour				Black	Black
Pitch	**7.62 mm**				
Pol.	L1	(inch)	Qty.	Order No.	Order No.
2	7.62	0.300	175	1874870000	1874750000
3	15.24	0.600	175	1874650000	1874630000
4	22.86	0.900	175	1874530000	1874500000
5	30.48	1.200	175	1874450000	1874460000
6	38.10	1.500	175	1874390000	1874360000

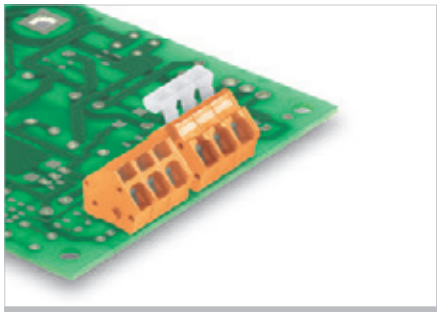
Tape widths: 32, 44, 56, 72, 88

Additional deratings curves

LSF-SMT 7.62/../180 3.5



LMZF & LMZFL 5/../135



The compact installation terminal with tension-clamp wire connection, in 5.00 mm pitch for wire cross-sections up to 2.5 mm².

- Variable pitch 5.00-5.08 mm

(1 component = 2 pitches).

- Wire outlet direction of 135°.
- Convenient: optional lever for simple opening of terminal point.

Product data

IEC: 630 V / 24 A / 0.13 - 2.5 mm²
UL: 300 V / 15 A / AWG 26 - 14

For additional articles and information, refer to catalog.weidmueller.com

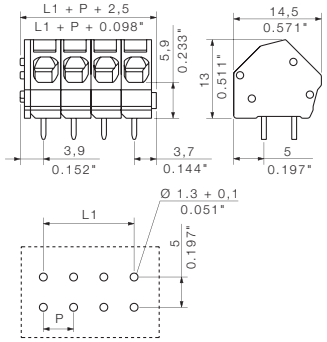
Note:

- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

LMZF 5/../135



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm²	0.13...2.5		
Solid core H05(07) V-U	**mm²**	**0.13...2.5**		
Stranded H07 V-R				
Flexible H05(07) V-K	mm²	0.13...2.5		
Flexible with ferrule	mm²	0.25...1.5		
Ferrule with plastic collar	mm²	0.25...1.5		
Stripping length	mm	6		
Screwdriver blade	mm	0.4 x 2.5		
According to norm		DIN 5264-A		
Tightening torque range	Nm			
Rated current, max.	**A**	**24**		**24**
At ambient temperature		20°C		40°C
For conductor cross-section	mm²		2.5	
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	**V**	**250**	**320**	**630**
Rated impulse voltage	kV	4	4	4
UL / CUL (Use Group)		**B**	**C**	**D**
Rated voltage	**V**	**300**		**300**
Rated current	**A**	**15**		**10**
AWG conductor	**AWG**		**26-14**	
CSA (Use Group)		**B**	**C**	**D**
Rated voltage	V	300		300
Rated current	A	20		10
AWG conductor	AWG		26-14	
General data				
Type of insulation material		Wemid (PA)		
UL 94 flammability rating		V-0		
Contact base material		E-Cu		
Material of contact surface		tinned		
Pin dimensions = d	mm	0.8 x 0.8		
Solder eyelet Ø = D	mm	1.3		
Solder eyelet Ø tolerance	mm	+ 0,1		

Accessories

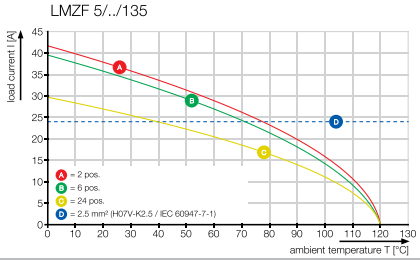
Note: Refer to the Accessories chapter for additional accessories.

Screwdriver		Order No.
	SDIS 0.6X3.5X100	9008390000
	SDS 0.6X3.5X100	9008330000

Ordering data

Solder pin length				3.5 mm
Colour				Orange
Pitch	**5.00 mm**			
Pol.	**L1**	**(inch)**	**Qty.**	**Order No.**
2	5.00	0.197	100	1913780000
3	10.00	0.394	100	1913820000
4	15.00	0.591	100	1913960000
5	20.00	0.787	100	1914000000
6	25.00	0.984	100	1914020000
7	30.00	1.181	100	1914030000
8	35.00	1.378	100	1914040000
9	40.00	1.575	100	1914050000
10	45.00	1.772	100	1914070000
11	50.00	1.969	100	1914080000
12	55.00	2.165	100	1914090000
13	60.00	2.362	100	1960140000
14	65.00	2.559	100	1960150000
15	70.00	2.756	100	1960160000
16	75.00	2.953	100	1960170000
17	80.00	3.150	50	1960180000
18	85.00	3.346	50	1960190000
19	90.00	3.543	50	1960200000
20	95.00	3.740	50	1960210000
21	100.00	3.937	50	1960220000
22	105.00	4.134	50	1960230000
23	110.00	4.331	50	1960240000
24	115.00	4.528	50	1960250000

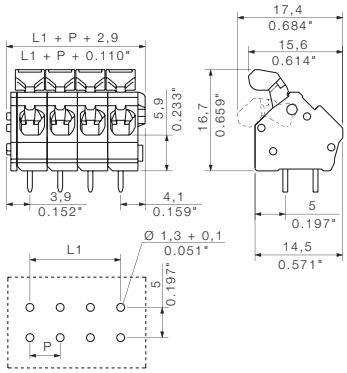
Representative deratings curve



LMZFL 5/../135



Dimensioned drawing

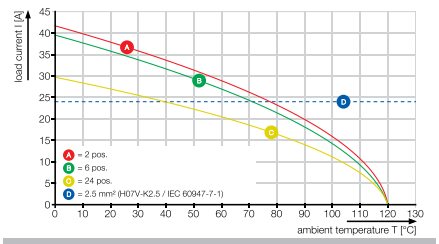


Ordering data

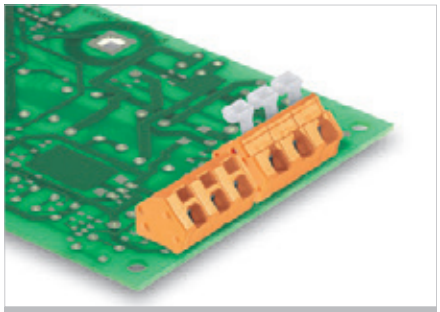
Solder pin length				3.5 mm
Colour				Orange
Pitch	**5.00 mm**			
Pol.	L1	(inch)	**Qty.**	**Order No.**
2	5.00	0.197	100	**1914560000**
3	10.00	0.394	100	**1914580000**
4	15.00	0.591	100	**1914590000**
5	20.00	0.787	100	**1914600000**
6	25.00	0.984	100	**1914640000**
7	30.00	1.181	100	**1914720000**
8	35.00	1.378	100	**1914790000**
9	40.00	1.575	100	**1914830000**
10	45.00	1.772	100	**1914860000**
11	50.00	1.969	100	**1914990000**
12	55.00	2.165	100	**1915030000**
13	60.00	2.362	50	**1958320000**
14	65.00	2.559	50	**1958330000**
15	70.00	2.756	50	**1958350000**
16	75.00	2.953	50	**1958370000**
17	80.00	3.150	50	**1958390000**
18	85.00	3.346	50	**1958410000**
19	90.00	3.543	50	**1958440000**
20	95.00	3.740	50	**1958450000**
21	100.00	3.937	50	**1958470000**
22	105.00	4.134	50	**1958490000**
23	110.00	4.331	50	**1958500000**
24	115.00	4.528	50	**1958510000**

Additional deratings curves

LMZFL 5/../135



LMZF & LMZFL 7../135



The compact installation terminal with tension-clamp wire connection, in 7.50 mm pitch for wire cross-sections up to 2.5 mm².

- Variable pitch 7.50-7.62 mm

(1 component = 2 pitches).

- Wire outlet direction of 135°.
- Convenient: optional lever for simple opening of terminal point.

Product data

IEC: 1000 V / 24 A / 0.13 - 2.5 mm²
UL: 300 V / 15 A / AWG 26 - 14

For additional articles and information, refer to catalog.weidmueller.com

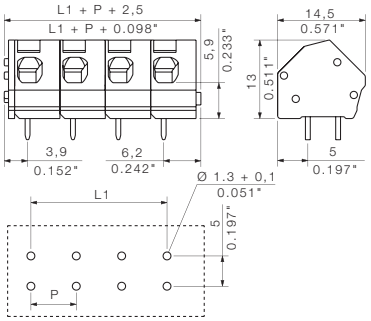
Note:

- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

LMZF 7../135



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm²	0.13...2.5		
Solid core H05(07) V-U	**mm²**	**0.13...2.5**		
Stranded H07 V-R				
Flexible H05(07) V-K	mm²	0.13...2.5		
Flexible with ferrule	mm²	0.25...1.5		
Ferrule with plastic collar	mm²	0.25...1.5		
Stripping length	mm	6		
Screwdriver blade	mm	0.6 x 3.5		
According to norm		DIN 5264-A		
Tightening torque range	Nm			
Rated current, max.	**A**	**24**		**24**
At ambient temperature		20°C		40°C
For conductor cross-section	mm²	2.5		
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	**V**	**400**	**800**	**1000**
Rated impulse voltage	kV	6	6	6
UL / CUL (Use Group)		**B**	**C**	**D**
Rated voltage	**V**	**300**	**150**	**300**
Rated current	**A**	**15**	**15**	**10**
AWG conductor	**AWG**	**26-14**		
CSA (Use Group)		**B**	**C**	**D**
Rated voltage	V	300	150	300
Rated current	A	15	15	10
AWG conductor	AWG	26-14		
General data				
Type of insulation material		Wemid (PA)		
UL 94 flammability rating		V-0		
Contact base material		E-Cu		
Material of contact surface		tinned		
Pin dimensions = d	mm	0.8 x 0.8		
Solder eyelet Ø = D	mm	1.3		
Solder eyelet Ø tolerance	mm	+ 0,1		

Accessories

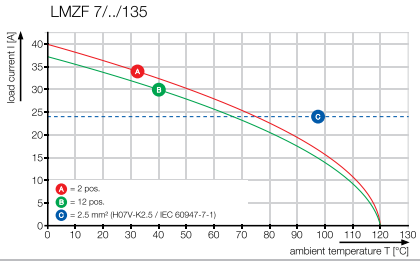
Note: Refer to the Accessories chapter for additional accessories.

Screwdriver		Order No.
	SDIS 0.6X3.5X100	9008390000
	SDS 0.6X3.5X100	9008330000

Ordering data

Solder pin length				3.5 mm
Colour				Orange
Pitch	**7.50 mm**			
Pol.	**L1**	**(inch)**	**Qty.**	**Order No.**
2	7.50	0.295	100	1952570000
3	15.00	0.591	100	1952580000
4	22.50	0.886	100	1952590000
5	30.00	1.181	100	1952600000
6	37.50	1.476	100	1952610000
7	45.00	1.772	100	1952620000
8	52.50	2.067	100	1952630000
9	60.00	2.362	100	1952640000
10	67.50	2.657	100	1952650000
11	75.00	2.953	100	1952660000
12	82.50	3.248	100	1952670000

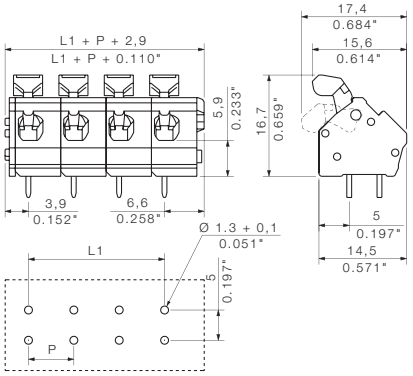
Representative deratings curve



LMZFL 7../135



Dimensioned drawing

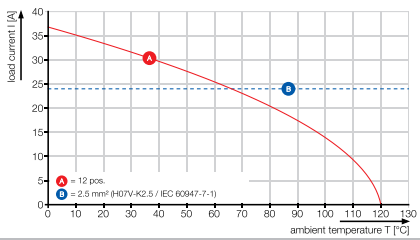


Ordering data

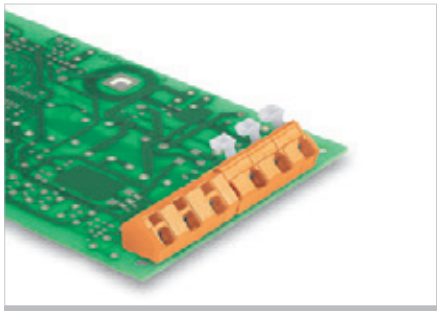
Solder pin length				3.5 mm
Colour				Orange
Pitch	**7.50 mm**			
Pol.	L1	(inch)	**Qty.**	**Order No.**
2	7.50	0.295	100	**1953010000**
3	15.00	0.591	100	**1953020000**
4	22.50	0.886	100	**1953030000**
5	30.00	1.181	100	**1953040000**
6	37.50	1.476	100	**1953050000**
7	45.00	1.772	100	**1953060000**
8	52.50	2.067	100	**1953070000**
9	60.00	2.362	100	**1953080000**
10	67.50	2.657	100	**1953090000**
11	75.00	2.953	100	**1953100000**
12	82.50	3.248	100	**1953110000**

Additional deratings curves

LMZFL 7../135



LMZF & LMZFL 10../135



The compact installation terminal with tension-clamp wire connection, in 10.00 mm pitch for wire cross-sections up to 2.5 mm².

- Variable pitch 10.00-10.16 mm

(1 component = 2 pitches).

- Wire outlet direction of 135°.
- Convenient: optional lever for simple opening of terminal point.

Product data

IEC: 1000 V / 24 A / 0.13 - 2.5 mm²
UL: 300 V / 15 A / AWG 26 - 14

For additional articles and information, refer to catalog.weidmueller.com

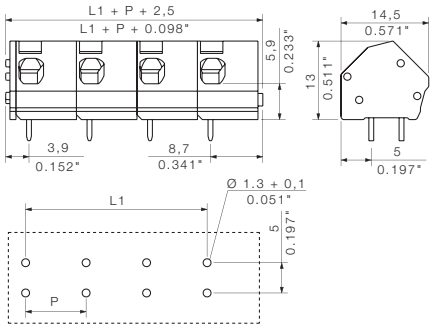
Note:

- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

LMZF 10../135



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm²	0.13...2.5		
Solid core H05(07) V-U	**mm²**	**0.13...2.5**		
Stranded H07 V-R				
Flexible H05(07) V-K	mm²	0.13...2.5		
Flexible with ferrule	mm²	0.25...1.5		
Ferrule with plastic collar	mm²	0.25...1.5		
Stripping length	mm	6		
Screwdriver blade	mm	0.6 x 3.5		
According to norm		DIN 5264		
Tightening torque range	Nm			
Rated current, max.	**A**	**24**		**24**
At ambient temperature		20°C		40°C
For conductor cross-section	mm²	2.5		
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	**V**	**500**	**1000**	**1000**
Rated impulse voltage	kV	8	8	8
UL / CUL (Use Group)		**B**	**C**	**D**
Rated voltage	**V**	**300**	**150**	**300**
Rated current	**A**	**15**	**15**	**10**
AWG conductor	**AWG**	**26-14**		
CSA (Use Group)		**B**	**C**	**D**
Rated voltage	V	300	150	300
Rated current	A	15	15	10
AWG conductor	AWG	26-14		
General data				
Type of insulation material		Wemid (PA)		
UL 94 flammability rating		V-0		
Contact base material		E-Cu		
Material of contact surface		tinned		
Pin dimensions = d	mm	0.8 x 0.8		
Solder eyelet Ø = D	mm	1.3		
Solder eyelet Ø tolerance	mm	+ 0,1		

Accessories

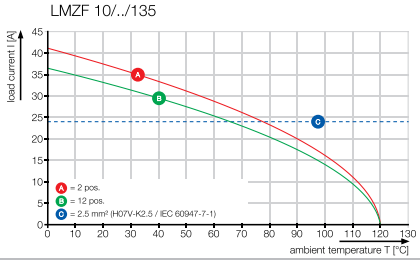
Note: Refer to the Accessories chapter for additional accessories.

Screwdriver		Order No.
	SDIS 0.6X3.5X100	9008390000
	SDS 0.6X3.5X100	9008330000

Ordering data

Solder pin length				3.5 mm
Colour				Orange
Pitch	**10.00 mm**			
Pol.	**L1**	**(inch)**	**Qty.**	**Order No.**
2	10.00	0.394	100	1953470000
3	20.00	0.787	100	1953480000
4	30.00	1.181	100	1953490000
5	40.00	1.575	100	1953500000
6	50.00	1.969	100	1953510000
7	60.00	2.362	100	1953520000
8	70.00	2.756	100	1953530000
9	80.00	3.150	100	1953540000
10	90.00	3.543	100	1953550000
11	100.00	3.937	100	1953560000
12	110.00	4.331	100	1953570000

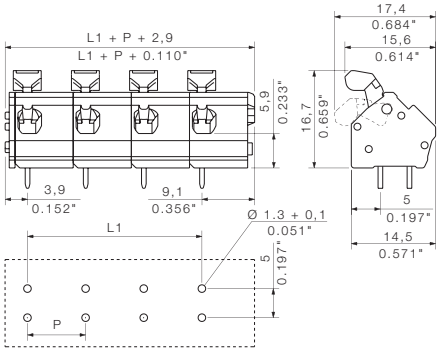
Representative deratings curve



LMZFL 10/../135



Dimensioned drawing

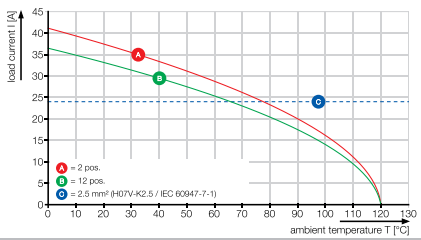


Ordering data

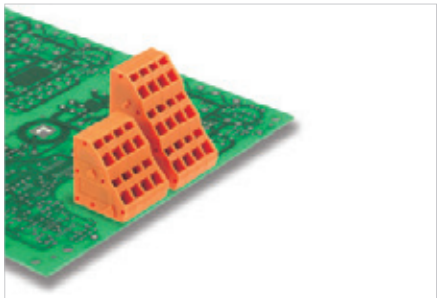
Solder pin length				3.5 mm
Colour				Orange
Pitch	**10.00 mm**			
Pol.	L1	(inch)	**Qty.**	**Order No.**
2	10.00	0.394	100	**1953930000**
3	20.00	0.787	100	**1953940000**
4	30.00	1.181	100	**1953950000**
5	40.00	1.575	100	**1953960000**
6	50.00	1.969	100	**1953970000**
7	60.00	2.362	100	**1953980000**
8	70.00	2.756	100	**1953990000**
9	80.00	3.150	100	**1954000000**
10	90.00	3.543	100	**1954010000**
11	100.00	3.937	100	**1954020000**
12	110.00	4.331	100	**1954030000**

Additional deratings curves

LMZFL 10/../135



LMZF 5.08, multi level



The high-performance device interface with a high connection density. Multi-level PCB terminal with clamping-yoke screw connection in 5.08 mm pitch, suitable for wire cross-sections up to 2.5 mm².

- Wire outlet direction of 135°.
- Simple change of connection method - layout is compatible with multi-level screw terminals.

Product data

IEC: 630 V / 15 A / 0.2 - 2.5 mm²
UL: 300 V / 10 A / AWG 24 - 14

For additional articles and information, refer to catalog.weidmueller.com

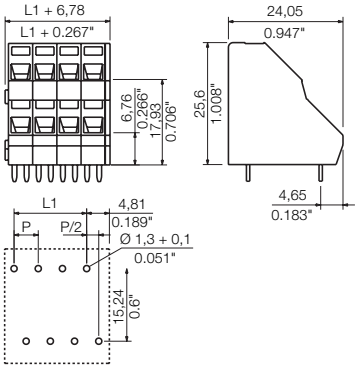
Note:

- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

LM2NZF 5.08/../135



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm²	0.13...2.5		
Solid core H05(07) V-U	**mm²**	**0.2...2.5**		
Stranded H07 V-R				
Flexible H05(07) V-K	mm²	0.2...1.5		
Flexible with ferrule	mm²	0.25...1.5		
Ferrule with plastic collar	mm²	0.25...1.5		
Stripping length	mm	7.5		
Screwdriver blade	mm	0.6 x 3.5		
According to norm		DIN 5264-A		
Tightening torque range	Nm			
Rated current, max.	**A**	**15**		**13**
At ambient temperature		20°C		40°C
For conductor cross-section	mm²		2.5	
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	**V**	**250**	**320**	**630**
Rated impulse voltage	kV	4	4	4
UL / CUL (Use Group)		**B**	**C**	**D**
Rated voltage	**V**	**300**		**300**
Rated current	**A**	**10**		**10**
AWG conductor	**AWG**		**24-14**	
CSA (Use Group)		**B**	**C**	**D**
Rated voltage	V	300		300
Rated current	A	10		10
AWG conductor	AWG		24-14	
General data				
Type of insulation material			PA	
UL 94 flammability rating			V-2	
Contact base material			Copper alloy	
Material of contact surface			tinned	
Pin dimensions = d	mm		0.8 x 1.0	
Solder eyelet Ø = D	mm		1.3	
Solder eyelet Ø tolerance	mm		+ 0,1	

Accessories

Note: Refer to the Accessories chapter for additional accessories.

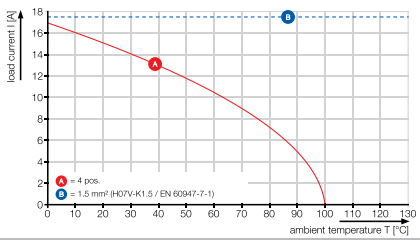
Screwdriver		Order No.
	SDIS 0.6X3.5X100	9008390000
	SDS 0.6X3.5X100	9008330000

Ordering data

Solder pin length				3.5 mm
Colour				Orange
Pitch	**5.08 mm**			
Pol.	**L1**	**(inch)**	**Qty.**	**Order No.**
4	5.08	0.200	50	1764810000
6	10.16	0.400	50	1764820000
8	15.24	0.600	50	1764830000
10	20.32	0.800	50	1764840000
12	25.40	1.000	50	1764850000
14	30.48	1.200	20	1764860000
16	35.56	1.400	20	1764870000
18	40.64	1.600	20	1764880000
20	45.72	1.800	20	1758020000
22	50.80	2.000	20	1764890000
24	55.88	2.200	10	1764900000
26	60.96	2.400	10	1782500000
28	66.04	2.600	10	1782510000
30	71.12	2.800	10	1782520000
32	76.20	3.000	10	1782530000
34	81.28	3.200	10	1782540000
36	86.36	3.400	10	1782550000

Representative deratings curve

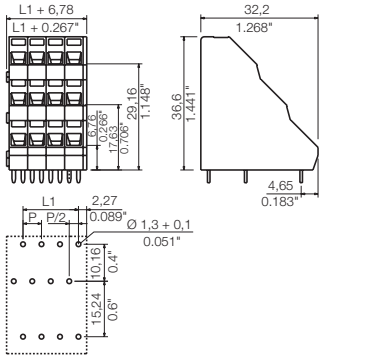
LM2NZF 5.08/../135



LM3RZF 5.08/../135



Dimensioned drawing

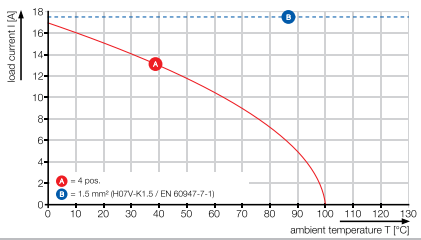


Ordering data

Solder pin length				3.5 mm
Colour				Orange
Pitch	**5.08 mm**			
Pol.	L1	(inch)	**Qty.**	**Order No.**
6	5.08	0.200	50	**1764910000**
9	10.16	0.400	50	**1764920000**
12	15.24	0.600	50	**1764930000**
15	20.32	0.800	20	**1764940000**
18	25.40	1.000	20	**1764950000**
21	30.48	1.200	20	**1758040000**
24	35.56	1.400	10	**1764960000**
27	40.64	1.600	10	**1764970000**
30	45.72	1.800	10	**1758030000**
33	50.80	2.000	10	**1764980000**
36	55.88	2.200	10	**1764990000**
48	76.20	3.000	10	**1758050000**

Additional deratings curves

LM3RZF 5.08/../135



OMNIMATE Signal
PCB connectors

OMNIMATE Signal
PCB connectors

Double-row connectors in 3.50 mm pitch
Series B2C/S2C 3.50

Explanation	C.2
Quick selection	C.4
Technical data	C.6

Connectors in 3.50 mm pitch
Series BL/SL 3.50

Explanation	C.20
Quick selection	C.24
Technical data	C.26

Connectors in 3.81 mm pitch
Series BC/SC 3.81

Explanation	C.60
Quick selection	C.64
Technical data	C.66

Connectors in 5.00 mm and 5.08 mm pitch
Series BL/SL 5.00

Explanation	C.120
Quick selection	C.132
Technical data	C.134

Connectors in 5.00 mm and 5.08 mm pitch
Series BL/SL 5.08

Explanation	C.120
Quick selection	C.162
Technical data	C.168

Connectors in 5.00 mm pitch
Series RSV

Explanation	C.250
Quick selection	C.252
Technical data	C.256

Powerful compact connector with PUSH IN wire connection

OMNIMATE Signal – simple and safe connection for wires up to 1.5 mm²

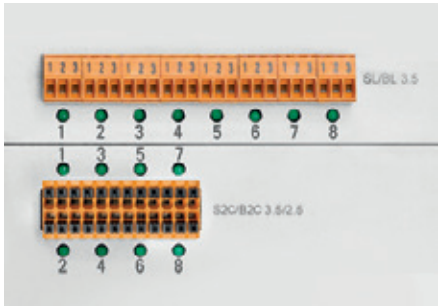
PUSH IN

When designing customised device connectivity products for modern applications, it is becoming increasingly important to find the perfect fit between device miniaturisation and increased device functionality. Our new double-row OMNIMATE B2CF Signal connector, in 3.5 mm pitch, has this perfect fit and enables a new generation of more compact installations.

This connector is easy to work with, despite the increased functionality being packed into a compact space. The PUSH IN direct-insert wire connection mechanism allows you to conveniently connect the signal wires. There are more useful features: the tool-free locking and unlocking, the touch-safe male header, and the outstanding clarity provided by easy-to-read markers that identify each terminal point.



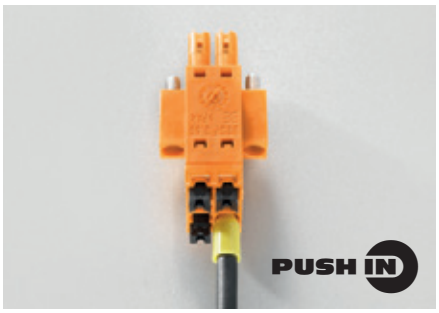
Packing Density 2.0
Smaller devices with increased technical capabilities are being designed for more applications. They take advantage of more contacts packed onto a small surface and a large wire cross-section capacity.

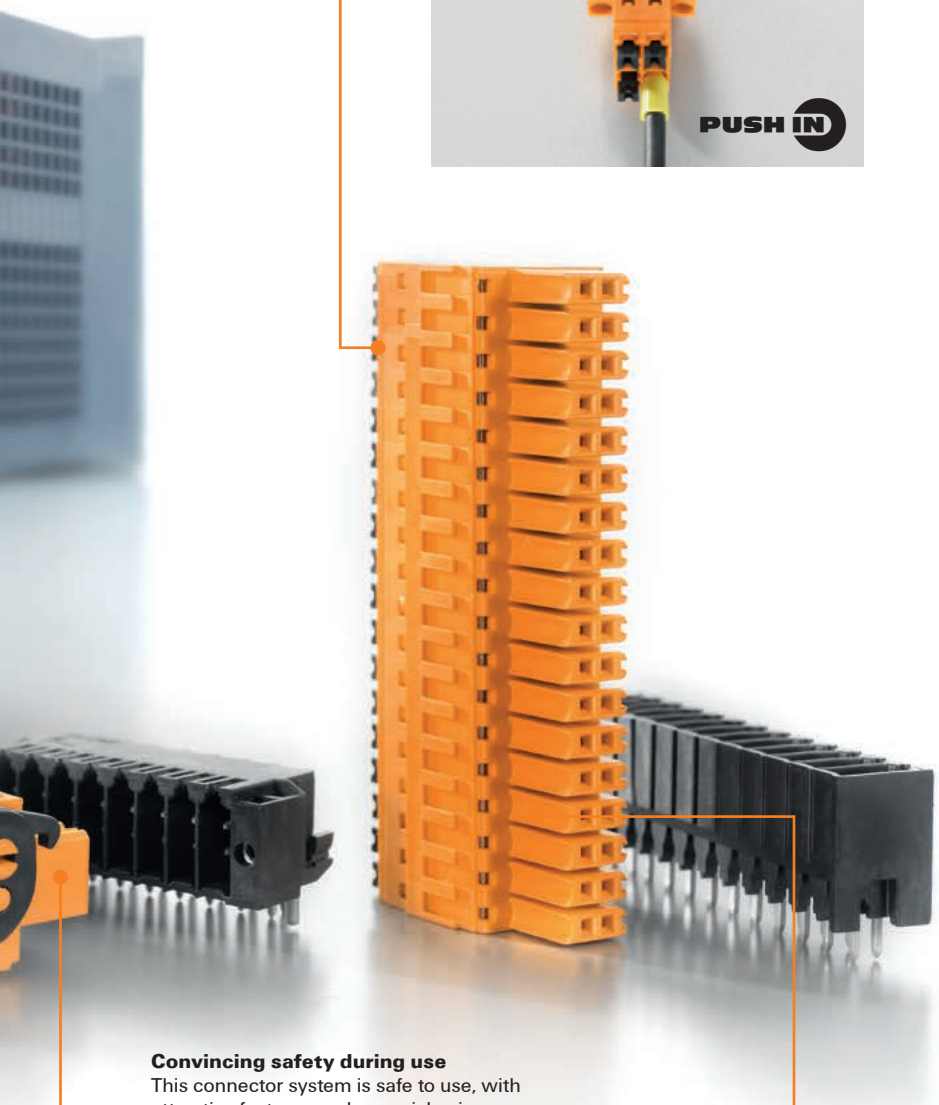


Clear frontal marking
Clarity is enhanced with clearly legible markers at each terminal point and unique labelling of the installation position.

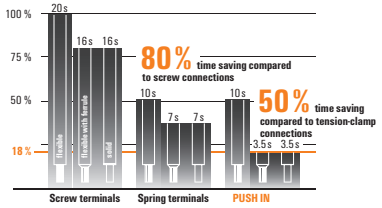


Large wire cross-sections
You can easily connect wires with cross-sections up to 1.5 mm² (when using wire-end ferrules) and up to 1.0 mm² (when using ferrules and plastic collars).





Direct insertion
PUSH IN: the quick, tool-free, intuitive connection mechanism for prepared wires.
www.push-in.com



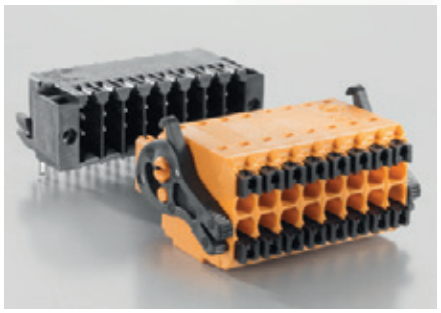
Halogen-free and IEC 60335
Halogen-free materials ensure future compatibility and extended approvals enhance the range of use for new device designs.



Convincing system accessories
Our matching accessories – including markers, light guides, strain relief and coding – improve operational safety and enable a professional design.



Convincing safety during use
This connector system is safe to use, with attractive features such as quick wire connections, tool-free locking and unlocking, and touch-safe design.



Solid PUSH IN contacts
A safe, permanent connection is ensured by the optimised spring steel and specially-shaped contact element.

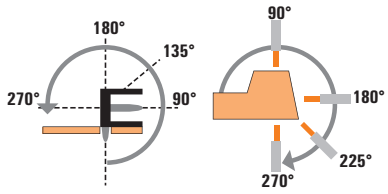


http://www.OMNIMATE.net

= Wire-to-Board
= Board-to-Board
= Wire-to-Wire
= Board-to-Wire



Orientation



B2C/S2C 3.50 series

			Type	Orientation	Flange options	IEC / UL	Levels Page
Female header	Tension clamp		**B2CF**	180°	(G)/F/LR	IEC: 320 V/13,4 A/0,14 - 1,5 mm² UL: 300 V/10 A/AWG 26 - 16	C.12
	Tension clamp (with internal cross connection)		**B2L QV**	180°	(G)/F/LH	IEC: 200 V/10.6 A/0.2 - 1 mm² UL: 150 V/7 A/AWG 28 - 18	C.18

Female connector:
(G)* = Closed (without flange)
F = Screw flange with screw
LH = Release lever
LR = Lock & Release lever

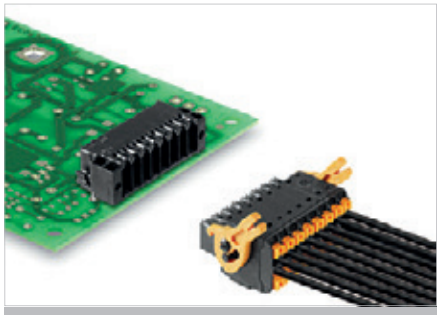
Male header:
G = Closed (without flange)
F = Screw flange with nut
LF = Solder flange with nut

* not included in the article description

Male header				
Reflow solder connection			Solder connection	
				
1		2	1	
S2C-SMT	**S2C-SMT**	**S2CD-THR**	**S2L**	**S2L**
90°	180°	90°	90°	180°
G/LF	G/LF	G/LF	G/F	G/F
IEC: 200 V/13,4 A UL: 150 V/10 A	IEC: 200 V/13,4 A UL: 150 V/10 A	IEC: 200 V/7.9 A UL: 150 V/7 A	IEC: 250 V/10 A UL: 150 V/10 A	IEC: 250 V/10 A UL: 150 V/10 A
C.6	C.8	C.10	C.14	C.16
○	○	○	○	○
			○	○

Double-row connectors in 3.50 mm pitch
Series B2C/S2C 3.50

B2CF/S2C and B2L/S2C 3.50 series



High-temperature-resistant, double-row male header
- Finger-safe
- Plugging direction parallel to PCB (recumbent / 90°)
- Housing variants: closed (G) and with solder flange (LF)
- Packed either in a box (BX) or tape-on-reel (RL)
- Suitable for reflow and wave soldering applications
- Pin length of either 1.5 mm or 3.2 mm
- Can be plugged into female plug B2CF 3.50/../180..

Product data

IEC: 200 V / 13.4 A
UL: 150 V / 10 A

For additional articles and information, refer to catalog.weidmueller.com

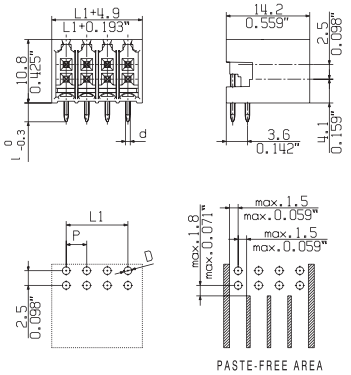
Note:
- Gold-plated contact surfaces on request
- Rated current related to rated cross-section & min. No. of poles.
- Spacing between rows: see hole layout
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

S2C-SMT 3.50/../90G Box

closed side



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm²			
Solid core H05(07) V-U	**mm²**			
Stranded H07 V-R				
Flexible H05(07) V-K	mm²			
Flexible with ferrule	mm²			
Ferrule with plastic collar	mm²			
Stripping length	mm			
Screwdriver blade	mm			
According to norm				
Tightening torque range	Nm			
Rated current, max.	**A**	**13.4**		**12**
At ambient temperature		20°C		40°C
For conductor cross-section	mm²			
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	**V**	**80**	**160**	**200**
Rated impulse voltage	kV	2.5	2.5	2.5
UL / CUL (Use Group)		**B**	**C**	**D**
Rated voltage	**V**	**150**	**50**	
Rated current	**A**	**10**	**10**	
AWG conductor	**AWG**		-	
CSA (Use Group)		**B**	**C**	**D**
Rated voltage	V	150		
Rated current	A	10		
AWG conductor	AWG		-	
General data				
Type of insulation material		LCP GF		
UL 94 flammability rating		V-0		
Contact base material		Copper alloy		
Material of contact surface		tinned		
Pin dimensions = d	mm	1.0, Octagonal		
Solder eyelet Ø = D	mm	1.3		
Solder eyelet Ø tolerance	mm	+ 0,1		

Accessories

Note: Refer to the Accessories chapter for additional accessories.

Coding		Order No.
	B2L/S2L 3.5 KO OR	**1849730000**
	B2L/S2L 3.5 KO SW	**1849740000**
LED light guide		
	S2L-SMT 3.5 FLA 20/10	**1814590000**

Ordering data

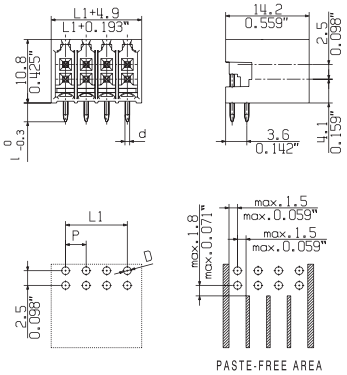
Solder pin length				1.5 mm	3.2 mm
Colour				Black	Black
Pitch	**3.50 mm**				
Pol.	L1	(inch)	**Qty.**	**Order No.**	**Order No.**
4	3.50	0.138	222	**1289630000**	**1288980000**
6	7.00	0.276	156	**1289640000**	**1289270000**
8	10.50	0.413	120	**1289650000**	**1289280000**
10	14.00	0.551	96	**1289670000**	**1289290000**
12	17.50	0.689	84	**1289680000**	**1289300000**
14	21.00	0.827	72	**1289700000**	**1289310000**
16	24.50	0.965	60	**1289710000**	**1289320000**
18	28.00	1.102	54	**1289720000**	**1289330000**
20	31.50	1.240	48	**1289730000**	**1289340000**
22	35.00	1.378	42	**1289740000**	**1289350000**
24	38.50	1.516	42	**1289750000**	**1289370000**
26	42.00	1.654	36	**1289770000**	**1289380000**
28	45.50	1.791	36	**1289780000**	**1289390000**
30	49.00	1.929	30	**1289790000**	**1289410000**
32	52.50	2.067	30	**1289800000**	**1289420000**
34	56.00	2.205	30	**1289810000**	**1289430000**
36	59.50	2.343	24	**1289820000**	**1289440000**

S2C-SMT 3.50/../90G Tape

closed side; tape-on-reel



Dimensioned drawing



Ordering data

Solder pin length				1.5 mm	3.2 mm
Colour				Black	Black
Pitch	3.50 mm				
Pol.	L1	(inch)	Qty.	Order No.	Order No.
4	3.50	0.138	235	1359580000	1359460000
6	7.00	0.276	235	1359590000	1359470000
8	10.50	0.413	235	1359600000	1359480000
10	14.00	0.551	235	1359610000	1359490000
12	17.50	0.689	235	1359620000	1359510000
14	21.00	0.827	235	1359630000	1359520000
16	24.50	0.965	235	1359640000	1359530000
18	28.00	1.102	235	1359650000	1359540000
20	31.50	1.240	235	1359670000	1359550000
22	35.00	1.378	235	1359680000	1359560000
24	38.50	1.516	235	1359690000	1359570000

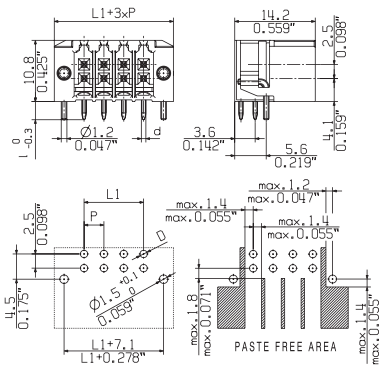
Tape widths: 32, 44, 56, 72, 88

S2C-SMT 3.50/../90LF Box

with solder flange



Dimensioned drawing



Ordering data

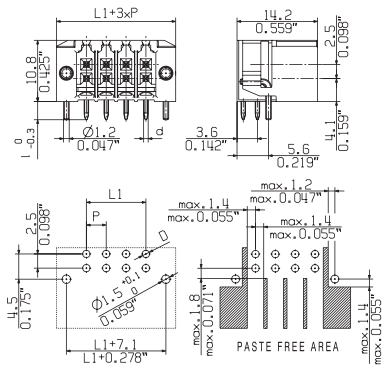
Solder pin length				1.5 mm	3.2 mm
Colour				Black	Black
Pitch	3.50 mm				
Pol.	L1	(inch)	Qty.	Order No.	Order No.
4	3.50	0.138	132	1289830000	1289450000
6	7.00	0.276	102	1289840000	1289460000
8	10.50	0.413	84	1289850000	1289470000
10	14.00	0.551	72	1289870000	1289480000
12	17.50	0.689	66	1289880000	1289490000
14	21.00	0.827	54	1289890000	1289500000
16	24.50	0.965	48	1289910000	1289510000
18	28.00	1.102	48	1289930000	1289520000
20	31.50	1.240	42	1289940000	1289530000
22	35.00	1.378	36	1289950000	1289540000
24	38.50	1.516	36	1289960000	1289550000
26	42.00	1.654	30	1289970000	1289570000
28	45.50	1.791	30	1289980000	1289580000
30	49.00	1.929	30	1289990000	1289590000
32	52.50	2.067	24	1290000000	1289600000
34	56.00	2.205	24	1290010000	1289610000
36	59.50	2.343	24	1290020000	1289620000

S2C-SMT 3.50/../90LF Tape

with solder flange; tape-on-reel



Dimensioned drawing



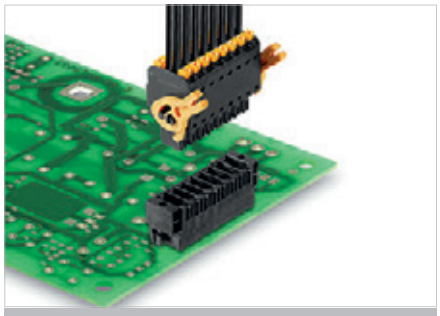
Ordering data

Solder pin length					
Colour				Black	Black
Pitch	3.50 mm				
Pol.	L1	(inch)	Qty.	Order No.	Order No.
4	3.50	0.138	235	1359080000	1358890000
6	7.00	0.276	235	1359090000	1358910000
8	10.50	0.413	235	1359110000	1358930000
10	14.00	0.551	235	1359120000	1358950000
12	17.50	0.689	235	1359130000	1358980000
14	21.00	0.827	235	1359140000	1359010000
16	24.50	0.965	235	1359150000	1359030000
18	28.00	1.102	235	1359160000	1359050000
20	31.50	1.240	235	1359170000	1359070000

Tape widths: 32, 44, 56, 72, 88

Double-row connectors in 3.50 mm pitch
Series B2C/S2C 3.50

S2C-SMT 3.50/../180



High-temperature-resistant, double-row male header
- Finger-safe
- Plugging direction parallel to PCB (recumbent / 180°)
- Housing variants: closed (G) and with solder flange (LF)
- Packed either in a box (BX) or tape-on-reel (RL)
- Suitable for reflow and wave soldering applications
- Pin length of either 1.5 mm or 3.2 mm
- Can be plugged into female plug B2CF 3.50/../180..

Product data

IEC: 200 V / 13.4 A
UL: 150 V / 10 A

For additional articles and information, refer to catalog.weidmueller.com

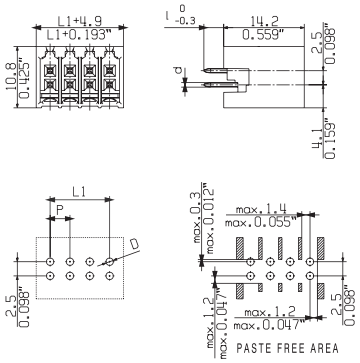
Note:
- Gold-plated contact surfaces on request
- Rated current related to rated cross-section & min. No. of poles.
- Spacing between rows: see hole layout
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

S2C-SMT 3.50/../180G Box

closed side



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm²			
Solid core H05(07) V-U	**mm²**			
Stranded H07 V-R				
Flexible H05(07) V-K	mm²			
Flexible with ferrule	mm²			
Ferrule with plastic collar	mm²			
Stripping length	mm			
Screwdriver blade	mm			
According to norm				
Tightening torque range	Nm			
Rated current, max.	**A**	**13.4**		**12**
At ambient temperature		20°C		40°C
For conductor cross-section	mm²			
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	**V**	**80**	**160**	**200**
Rated impulse voltage	kV	2.5	2.5	2.5
UL / CUL (Use Group)		**B**	**C**	**D**
Rated voltage	**V**	**150**	**50**	
Rated current	**A**	**10**	**10**	
AWG conductor	**AWG**		-	
CSA (Use Group)		**B**	**C**	**D**
Rated voltage	V	150		
Rated current	A	10		
AWG conductor	AWG		-	
General data				
Type of insulation material		LCP GF		
UL 94 flammability rating		V-0		
Contact base material		Copper alloy		
Material of contact surface		tinned		
Pin dimensions = d	mm	1.0, Octagonal		
Solder eyelet Ø = D	mm	1.3		
Solder eyelet Ø tolerance	mm	+ 0,1		

Accessories

Note: Refer to the Accessories chapter for additional accessories.

Coding		Order No.
	B2L/S2L 3.5 KO OR	1849730000
	B2L/S2L 3.5 KO SW	1849740000

Ordering data

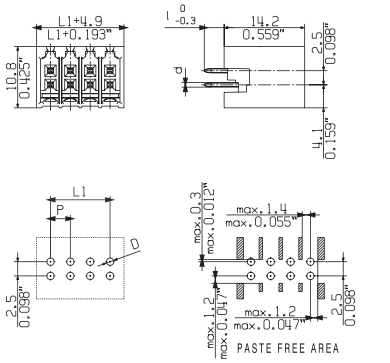
Solder pin length				1.5 mm	3.5 mm
Colour				Black	Black
Pitch	**3.50 mm**				
Pol.	L1	(inch)	Qty.	Order No.	Order No.
4	3.50	0.138	222	1290410000	1290030000
6	7.00	0.276	156	1290420000	1290040000
8	10.50	0.413	120	1290430000	1290050000
10	14.00	0.551	96	1290440000	1290060000
12	17.50	0.689	78	1290450000	1290070000
14	21.00	0.827	72	1290460000	1290080000
16	24.50	0.965	60	1290470000	1290090000
18	28.00	1.102	54	1290480000	1290110000
20	31.50	1.240	48	1290490000	1290120000
22	35.00	1.378	42	1290510000	1290130000
24	38.50	1.516	42	1290520000	1290140000
26	42.00	1.654	36	1290530000	1290150000
28	45.50	1.791	36	1290540000	1290160000
30	49.00	1.929	30	1290550000	1290170000
32	52.50	2.067	30	1290560000	1290180000
34	56.00	2.205	30	1290570000	1290190000
36	59.50	2.343	24	1290580000	1290210000

S2C-SMT 3.50/../180G Tape

closed side; tape-on-reel



Dimensioned drawing



Ordering data

Solder pin length				1.5 mm	3.5 mm
Colour				Black	Black
Pitch	3.50 mm				
Pol.	L1	(inch)	Qty.	Order No.	Order No.
4	3.50	0.138	175	1358860000	1358730000
6	7.00	0.276	175	1358870000	1358750000
8	10.50	0.413	175	1358880000	1358770000
10	14.00	0.551	175	1358900000	1358780000
12	17.50	0.689	175	1358920000	1358790000
14	21.00	0.827	175	1358940000	1358810000
16	24.50	0.965	175	1358970000	1358820000
18	28.00	1.102	175	1358990000	1358830000
20	31.50	1.240	175	1359020000	1358840000
22	35.00	1.378	175	1359040000	1358850000
24	38.50	1.516	175	1359060000	

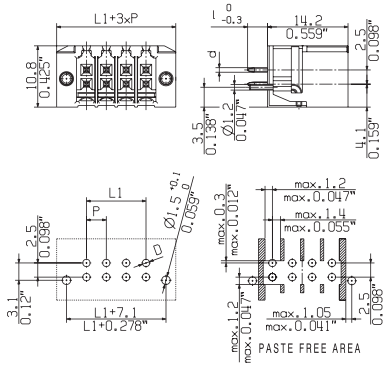
Tape widths: 32, 44, 56, 72, 88

S2C-SMT 3.50/../180LF Box

with solder flange



Dimensioned drawing



Ordering data

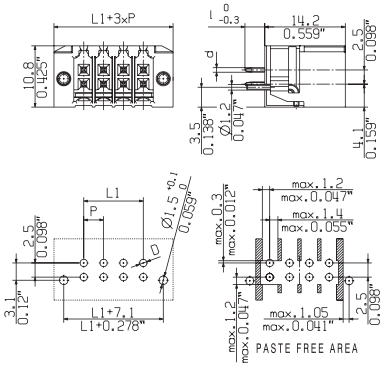
Solder pin length				1.5 mm	3.5 mm
Colour				Black	Black
Pitch	3.50 mm				
Pol.	L1	(inch)	Qty.	Order No.	Order No.
4	3.50	0.138	132	1290590000	1290220000
6	7.00	0.276	102	1290610000	1290230000
10	14.00	0.551	72	1290640000	1290240000
12	17.50	0.689	66	1290650000	1290250000
14	21.00	0.827	54	1290660000	1290260000
16	24.50	0.965	48	1290670000	1290270000
18	28.00	1.102	48	1290680000	1290280000
20	31.50	1.240	42	1290690000	1290290000
22	35.00	1.378	36	1290710000	1290310000
24	38.50	1.516	36	1290720000	1290320000
26	42.00	1.654	30	1290730000	1290330000
28	45.50	1.791	30	1290740000	1290340000
30	49.00	1.929	30	1290750000	1290350000
32	52.50	2.067	24	1290760000	1290360000
34	56.00	2.205	24	1290770000	1290370000
36	59.50	2.343	24	1290780000	1290380000

S2C-SMT 3.50/../180LF Tape

with solder flange; tape-on-reel



Dimensioned drawing

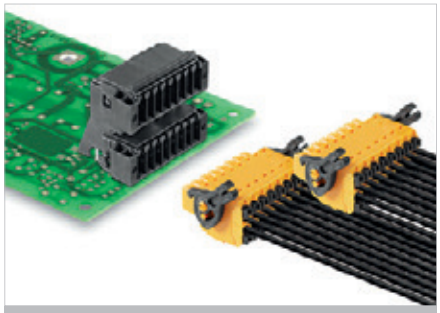


Ordering data

Solder pin length				1.5 mm	3.5 mm
Colour				Black	Black
Pitch	3.50 mm				
Pol.	L1	(inch)	Qty.	Order No.	Order No.
4	3.50	0.138	175	1358630000	1358530000
6	7.00	0.276	175	1358640000	1358540000
8	10.50	0.413	175	1358650000	1358550000
10	14.00	0.551	175	1358670000	1358570000
12	17.50	0.689	175	1358680000	1358580000
14	21.00	0.827	175	1358690000	1358590000
16	24.50	0.965	175	1358700000	1358600000
18	28.00	1.102	175	1358710000	1358610000
20	31.50	1.240	175	1358720000	1358620000

Tape widths: 32, 44, 56, 72, 88

S2CD-THR 3.50/../90



High contact density on small area: 75 % less space required on the PCB. The only 4-row double-level male header for typical IP 20 sensor interfaces in 3.50 mm pitch.

- Finger-safe
- Plugging direction parallel to PCB (recumbent/ 90°)
- Housing variants: closed (G) and with solder flange (LF)
- Packaged in a box (BX)
- Suitable for reflow and wave soldering applications
- Pin length 3.2 mm
- Can be plugged into female plug B2CF 3.50/../180..

Product data

IEC: 200 V / 7.9 A
UL: 150 V / 7 A

For additional articles and information, refer to catalog.weidmueller.com

Note:

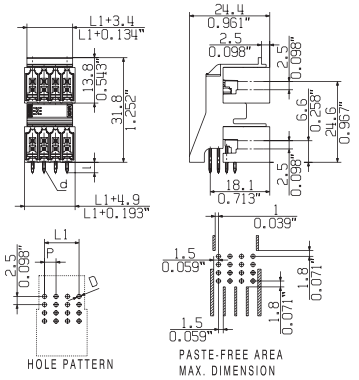
- Gold-plated contact surfaces on request
- Rated current related to rated cross-section & min. No. of poles.
- Spacing between rows: see hole layout
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

S2CD-THR 3.50/../90G

closed side



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm²			
Solid core H05(07) V-U	**mm²**			
Stranded H07 V-R				
Flexible H05(07) V-K	mm²			
Flexible with ferrule	mm²			
Ferrule with plastic collar	mm²			
Stripping length	mm			
Screwdriver blade	mm			
According to norm				
Tightening torque range	Nm			
Rated current, max.	**A**	**7.9**		**6.8**
At ambient temperature		20°C		40°C
For conductor cross-section	mm²			
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	**V**	**100**	**160**	**200**
Rated impulse voltage	kV	1.5	2.5	2.5
UL / CUL (Use Group)		**B**	**C**	**D**
Rated voltage	**V**	**150**		
Rated current	**A**	**7**		
AWG conductor	**AWG**		-	
CSA (Use Group)		**B**	**C**	**D**
Rated voltage	V	50		
Rated current	A	5		
AWG conductor	AWG		-	
General data				
Type of insulation material		LCP GF		
UL 94 flammability rating		V-0		
Contact base material		Copper alloy		
Material of contact surface		tinned		
Pin dimensions = d	mm	1.0, Octagonal		
Solder eyelet Ø = D	mm	1.3		
Solder eyelet Ø tolerance	mm	+ 0,1		

Accessories

Note: Refer to the Accessories chapter for additional accessories.

Coding		Order No.
	B2L/S2L 3.5 KO OR	1849730000
	B2L/S2L 3.5 KO SW	1849740000

Ordering data

Solder pin length				3.2 mm
Colour				Black
Pitch	**3.50 mm**			
Pol.	**L1**	**(inch)**	**Qty.**	**Order No.**
8	3.50	0.138	50	1357790000
12	7.00	0.276	50	1357800000
16	10.50	0.413	20	1357820000
20	14.00	0.551	20	1357830000
24	17.50	0.689	20	1357840000
28	21.00	0.827	20	1357850000
32	24.50	0.965	20	1357870000
36	28.00	1.102	20	1357880000

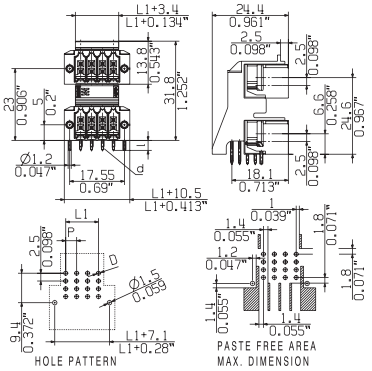
1.5 mm solder pin length available on request

S2CD-THR 3.50/../90LF

with solder flange



Dimensioned drawing

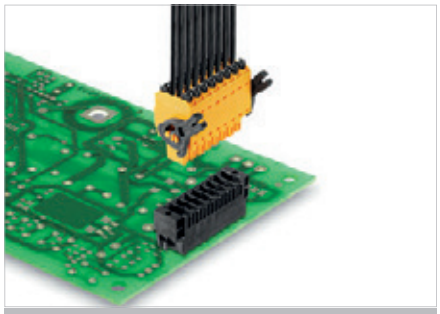


Ordering data

Solder pin length				3.2 mm
Colour				Black
Pitch	**3.50 mm**			
Pol.	L1	(inch)	**Qty.**	**Order No.**
8	3.50	0.138	50	**1357890000**
12	7.00	0.276	50	**1357900000**
16	10.50	0.413	20	**1357920000**
20	14.00	0.551	20	**1357930000**
24	17.50	0.689	20	**1357940000**
28	21.00	0.827	20	**1357950000**
32	24.50	0.965	20	**1357970000**
36	28.00	1.102	20	**1357990000**

1.5 mm solder pin length available on request

B2CF 3.50/../180



Two-row female plug with PUSH IN spring connection.

- Simply insert the prepared wires - finished
- Intuitive handling – since the wire-entry area and handling area are clearly separated.
- Integrated push-buttons for opening the terminal point
- High component density because of low heights
- Optional: the lock and release requires no tools when using Weidmüller's patented (LR) release latch
- Approval according to IEC 60335 and GL in preparation
- Also compatible with series: S2L 3.50, S2L-SMT 3.50 and S2LD-THR 3.50

Product data

IEC: 320 V / 13.4 A / 0.14 - 1.5 mm²
UL: 300 V / 10 A / AWG 26 - 16

For additional articles and information, refer to catalog.weidmueller.com

Note:

- Additional colours on request
- Gold-plated contact surfaces on request
- Rated current related to rated cross-section & min. No. of poles.
- Crimp shape A for wire-end ferrules with crimping tools PZ 1,5 (order no. 9005990000) or PZ 6/5 (order no. 9011460000) for larger wire cross-sections recommended.
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- Max. outer diameter of the conductor 2.6 mm

Wire-end ferrule w/plastic collar DIN 46228/4 or Weidmüller colour code

- 1.00mm² [H1.0/18D] mtl. ferrule leng. 12mm, stripping leng. 15mm
- 0.75mm² [H0.75/18D] mtl. ferrule leng. 12mm, stripping leng. 14mm
- 0.50mm² [H0.5/16D] mtl. ferrule leng. 10mm, stripping leng. 12mm
- 0.34mm² [H0.34/12] mtl. ferrule leng. 8mm, stripping leng. 10mm
- 0.25mm² [H0.25/12] mtl. ferrule leng. 8mm, stripping leng. 10mm
- 0.14mm² [H0.14/12] mtl. ferrule leng. 8mm, stripping leng. 10mm

Wire-end ferrule w/o plastic collar acc. to DIN 46228/1

- 1.50mm² [H1.5/10] mtl. ferrule leng. 10mm, stripping length 10mm

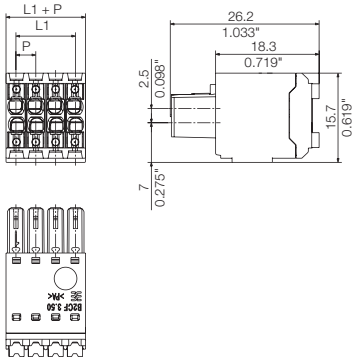
Wire-end ferrule w/plastic collar DIN 46228/4 and 2 connec. cables

- 2 x 0.20mm² [H0.5/16] mtl. ferrule leng. 10mm, stripping leng. 12mm
- 2 x 0.34mm² [H1.0/18] mtl. ferrule leng. 12mm, stripping leng. 15mm

B2CF 3.50/../180



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm²	0.14...1.5		
Solid core H05(07) V-U	**mm²**	**0.14...1.5**		
Stranded H07 V-R				
Flexible H05(07) V-K	mm²	0.14...1.5		
Flexible with ferrule	mm²	0.14...1.5		
Ferrule with plastic collar	mm²	0.14...1		
Stripping length	mm	10		
Screwdriver blade	mm			
According to norm				
Tightening torque range	Nm			
Rated current, max.	**A**	**13.4**		**12**
At ambient temperature		20°C		40°C
For conductor cross-section	mm²		1.5	
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	**V**	**160**	**160**	**320**
Rated impulse voltage	kV	2.5	2.5	2.5
UL / CUL (Use Group)		**B**	**C**	**D**
Rated voltage	**V**	**300**	**50**	**300**
Rated current	**A**	**10**	**10**	**10**
AWG conductor	**AWG**		**26-16**	
CSA (Use Group)		**B**	**C**	**D**
Rated voltage	V	300		
Rated current	A	5		
AWG conductor	AWG		26-16	
General data				
Type of insulation material		PA 66 GF 30		
UL 94 flammability rating		V-0		
Contact base material		Copper alloy		
Material of contact surface		tinned		
Pin dimensions = d	mm			
Solder eyelet Ø = D	mm			
Solder eyelet Ø tolerance	mm			

Accessories

Note: Refer to the Accessories chapter for additional accessories.

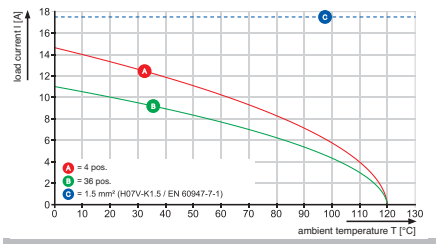
Coding		Order No.
	B2L/S2L 3.5 KO OR	1849730000
	B2L/S2L 3.5 KO SW	1849740000
Strain relief		
	BL 3.5 ZE 3 OR	1629680000
	BL 3.5 ZE 3 SW	1627820000
	BL 3.5 ZE 8 OR	1629690000
	BL 3.5 ZE 8 SW	1627830000
Screwdriver		
	SDS 0.4X2.5X75	9009030000
Crimping tool		
	PZ 1.5	9005990000
	PZ 6/5	9011460000

Ordering data

Solder pin length

Colour				Orange	Black
Pitch	**3.50 mm**				
Pol.	L1	(inch)	Qty.	Order No.	Order No.
4	3.50	0.138	264	1277270000	1277460000
6	7.00	0.276	174	1277280000	1277470000
8	10.50	0.413	132	1277290000	1277480000
10	14.00	0.551	102	1277310000	1277490000
12	17.50	0.689	84	1277320000	1277510000
14	21.00	0.827	72	1277330000	1277520000
16	24.50	0.965	66	1277340000	1277530000
18	28.00	1.102	54	1277350000	1277540000
20	31.50	1.240	48	1277360000	1277550000
22	35.00	1.378	48	1277370000	1277560000
24	38.50	1.516	42	1277380000	1277570000
26	42.00	1.654	36	1277390000	1277580000
28	45.50	1.791	36	1277410000	1277590000
30	49.00	1.929	30	1277420000	1277610000
32	52.50	2.067	30	1277430000	1277620000
34	56.00	2.205	30	1277440000	1277630000
36	59.50	2.343	24	1277450000	1277640000

B2CF 3.50/../180 - S2C-SMT 3.50/../90

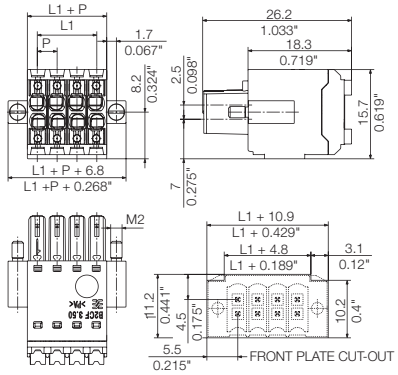


B2CF 3.50/../180F

with screw flange



Dimensioned drawing



Ordering data

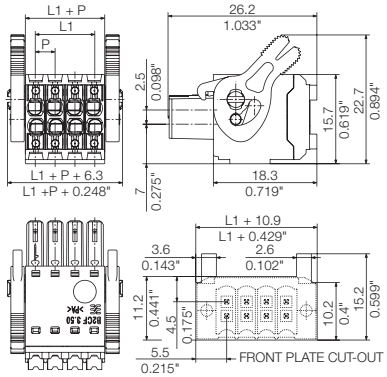
Solder pin length					
Colour				Orange	Black
Pitch	**3.50 mm**				
Pol.	L1	(inch)	Qty.	Order No.	Order No.
4	3.50	0.138	132	1277650000	1277860000
6	7.00	0.276	108	1277670000	1277870000
8	10.50	0.413	90	1277680000	1277880000
10	14.00	0.551	72	1277690000	1277890000
12	17.50	0.689	66	1277720000	1277900000
14	21.00	0.827	60	1277730000	1277910000
16	24.50	0.965	48	1277740000	1277920000
18	28.00	1.102	48	1277750000	1277930000
20	31.50	1.240	42	1277760000	1277940000
22	35.00	1.378	36	1277770000	1277950000
24	38.50	1.516	36	1277780000	1277970000
26	42.00	1.654	30	1277790000	1277980000
28	45.50	1.791	30	1277810000	1277990000
30	49.00	1.929	30	1277820000	1278000000
32	52.50	2.067	24	1277830000	1278010000
34	56.00	2.205	24	1277840000	1278020000
36	59.50	2.343	24	1277850000	1278030000

B2CF 3.50/../180LR

with release latch



Dimensioned drawing

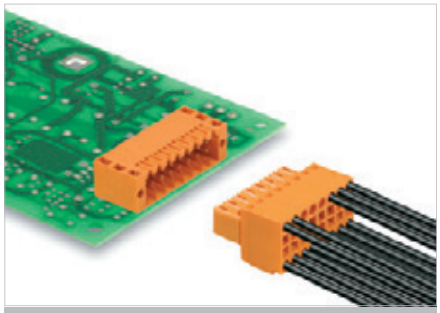


Ordering data

Solder pin length					
Colour				Orange	Black
Pitch	**3.50 mm**				
Pol.	L1	(inch)	Qty.	Order No.	Order No.
4	3.50	0.138	138	1278040000	1278230000
6	7.00	0.276	108	1278050000	1278240000
8	10.50	0.413	90	1278060000	1278250000
10	14.00	0.551	78	1278070000	1278260000
12	17.50	0.689	66	1278080000	1278270000
14	21.00	0.827	60	1278090000	1278280000
16	24.50	0.965	54	1278100000	1278290000
18	28.00	1.102	48	1278110000	1278300000
20	31.50	1.240	42	1278120000	1278310000
22	35.00	1.378	36	1278130000	1278320000
24	38.50	1.516	36	1278140000	1278340000
26	42.00	1.654	36	1278150000	1278350000
28	45.50	1.791	30	1278170000	1278370000
30	49.00	1.929	30	1278180000	1278380000
32	52.50	2.067	30	1278190000	1278390000
34	56.00	2.205	24	1278200000	1278400000
36	59.50	2.343	24	1278210000	1278410000

Release lever (LH) see Online catalogue

S2L 3.50/../90



Angled, double-row male header. Male headers with 3.5 mm pins that are designed for wave soldering and are packaged in a box. Available in closed (G) version and with screw flange (F).

Product data

IEC: 250 V / 10 A
UL: 150 V / 10 A

For additional articles and information, refer to catalog.weidmueller.com

Note:

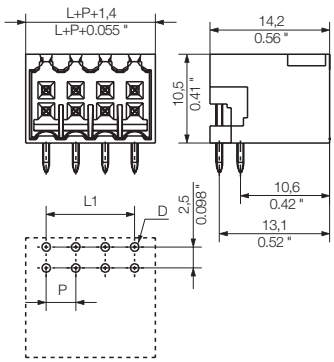
- Additional colours on request
- Gold-plated contact surfaces on request
- Spacing between rows: see hole layout
- Rated current related to rated cross-section & min. No. of poles.
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

S2L 3.50/../90G

closed ends



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm²			
Solid core H05(07) V-U	**mm²**			
Stranded H07 V-R				
Flexible H05(07) V-K	mm²			
Flexible with ferrule	mm²			
Ferrule with plastic collar	mm²			
Stripping length	mm			
Screwdriver blade	mm			
According to norm				
Tightening torque range	Nm			
Rated current, max.	**A**	**10**		**9**
At ambient temperature		20°C		40°C
For conductor cross-section	mm²			
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	**V**	**80**	**125**	**250**
Rated impulse voltage	kV	2.5	2.5	2.5
UL / CUL (Use Group)		**B**	**C**	**D**
Rated voltage	**V**	**150**	**50**	
Rated current	**A**	**10**	**10**	
AWG conductor	**AWG**		-	
CSA (Use Group)		**B**	**C**	**D**
Rated voltage	V	150		
Rated current	A	5		
AWG conductor	AWG		-	
General data				
Type of insulation material		PBT		
UL 94 flammability rating		V-0		
Contact base material		Copper alloy		
Material of contact surface		tinned		
Pin dimensions = d	mm	1.0, Octagonal		
Solder eyelet Ø = D	mm	1.3		
Solder eyelet Ø tolerance	mm	+ 0,1		

Accessories

Note: Refer to the Accessories chapter for additional accessories.

Coding		Order No.
	B2L/S2L 3.5 KO OR	1849730000
	B2L/S2L 3.5 KO SW	1849740000
LED light guide		
	S2L 3.5 FLA 20/10	1699580000
Mounting screw		
	PTSC KA 2.2X4.5 WN1412	1610740000

Ordering data

Solder pin length				3.5 mm	3.5 mm
Colour				Orange	Black
Pitch	**3.50 mm**				
Pol.	L1	(inch)	**Qty.**	**Order No.**	**Order No.**
6	7.00	0.276	50	1727830000	1727990000
8	10.50	0.413	50	1727840000	1728000000
10	14.00	0.551	50	1727850000	1728010000
12	17.50	0.689	50	1727860000	1728020000
14	21.00	0.827	50	1727870000	1728030000
16	24.50	0.965	50	1727880000	1728040000
18	28.00	1.102	20	1727890000	1728050000
20	31.50	1.240	20	1727900000	1728060000
22	35.00	1.378	20	1727910000	1728070000
24	38.50	1.516	20	1727920000	1728080000
26	42.00	1.654	20	1727930000	1728090000
28	45.50	1.791	20	1727940000	1728100000
30	49.00	1.929	20	1727950000	1728110000
32	52.50	2.067	20	1727960000	1728120000
34	56.00	2.205	20	1727970000	1728130000
36	59.50	2.343	20	1727980000	1728140000

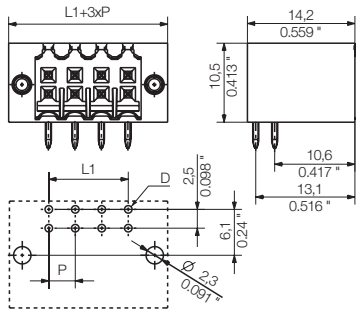
For open version, see online catalogue

S2L 3.50/../90F

with screw flange



Dimensioned drawing



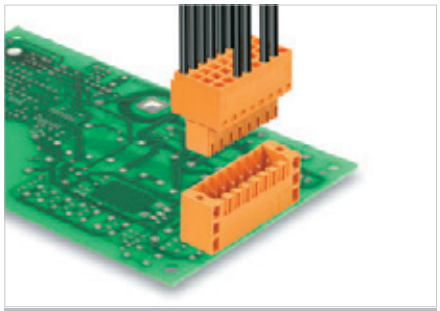
Ordering data

Solder pin length				3.5 mm	3.5 mm
Colour				Orange	Black
Pitch	**3.50 mm**				
Pol.	L1	(inch)	**Qty.**	**Order No.**	**Order No.**
6	7.00	0.276	50	**1728470000**	**1728630000**
8	10.50	0.413	50	**1728480000**	**1728640000**
10	14.00	0.551	50	**1728490000**	**1728650000**
12	17.50	0.689	50	**1728500000**	**1728660000**
14	21.00	0.827	50	**1728510000**	**1728670000**
16	24.50	0.965	50	**1728520000**	**1728680000**
18	28.00	1.102	20	**1728530000**	**1728690000**
20	31.50	1.240	20	**1728540000**	**1728700000**
22	35.00	1.378	20	**1728550000**	**1728710000**
24	38.50	1.516	20	**1728560000**	**1728720000**
26	42.00	1.654	20	**1728570000**	**1728730000**
28	45.50	1.791	20	**1728580000**	**1728740000**
30	49.00	1.929	20	**1728590000**	**1728750000**
32	52.50	2.067	20	**1728600000**	**1728760000**
34	56.00	2.205	20	**1728610000**	**1728770000**
36	59.50	2.343	20	**1728620000**	**1728780000**

For open version, see online catalogue

Double-row connectors in 3.50 mm pitch
Series B2L/S2L 3.50

S2L 3.50/../180



Straight, double-row male header. Male headers with 3.5 mm pins that are designed for wave soldering and are packaged in a box. The flange version can be screwed on the PCB. The pin headers provide space for labelling and can be coded. Available in closed (G) version and with screw flange (LF).

Product data

IEC: 250 V / 10 A
UL: 150 V / 10 A

For additional articles and information, refer to catalog.weidmueller.com

Note:

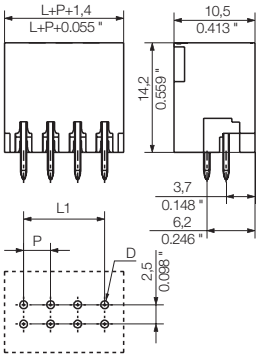
- Additional colours on request
- Gold-plated contact surfaces on request
- Spacing between rows: see hole layout
- Rated current related to rated cross-section & min. No. of poles.
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

S2L 3.50/../180G

closed ends



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm²			
Solid core H05(07) V-U	**mm²**			
Stranded H07 V-R				
Flexible H05(07) V-K	mm²			
Flexible with ferrule	mm²			
Ferrule with plastic collar	mm²			
Stripping length	mm			
Screwdriver blade	mm			
According to norm				
Tightening torque range	Nm			
Rated current, max.	**A**	**10**		**9**
At ambient temperature		20°C		40°C
For conductor cross-section	mm²			
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	**V**	**80**	**125**	**250**
Rated impulse voltage	kV	2.5	2.5	2.5
UL / CUL (Use Group)		**B**	**C**	**D**
Rated voltage	**V**	**150**	**50**	
Rated current	**A**	**10**	**10**	
AWG conductor	**AWG**		-	
CSA (Use Group)		**B**	**C**	**D**
Rated voltage	V	150		
Rated current	A	5		
AWG conductor	AWG		-	
General data				
Type of insulation material		PBT		
UL 94 flammability rating		V-0		
Contact base material		Copper alloy		
Material of contact surface		tinned		
Pin dimensions = d	mm	1.0, Octagonal		
Solder eyelet Ø = D	mm	1.3		
Solder eyelet Ø tolerance	mm	+ 0,1		

Accessories

Note: Refer to the Accessories chapter for additional accessories.

Coding		Order No.
	B2L/S2L 3.5 KO OR	1849730000
	B2L/S2L 3.5 KO SW	1849740000
Mounting screw		
	PTSC KA 2.2X4.5 WN1412	1610740000

Ordering data

Solder pin length				3.5 mm	3.5 mm
Colour				Orange	Black
Pitch	**3.50 mm**				
Pol.	L1	(inch)	**Qty.**	**Order No.**	**Order No.**
6	7.00	0.276	50	1728790000	1728950000
8	10.50	0.413	50	1728800000	1728960000
10	14.00	0.551	50	1728810000	1728970000
12	17.50	0.689	50	1728820000	1728980000
14	21.00	0.827	50	1728830000	1728990000
16	24.50	0.965	50	1728840000	1729000000
18	28.00	1.102	20	1728850000	1729010000
20	31.50	1.240	20	1728860000	1729020000
22	35.00	1.378	20	1728870000	1729030000
24	38.50	1.516	20	1728880000	1729040000
26	42.00	1.654	20	1728890000	1729050000
28	45.50	1.791	20	1728900000	1729060000
30	49.00	1.929	20	1728910000	1729070000
32	52.50	2.067	20	1728920000	1729080000

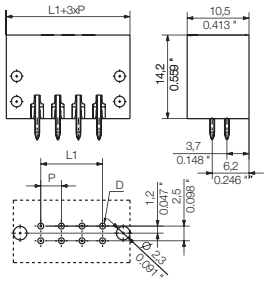
For open version, see online catalogue

S2L 3.50/../180F

with screw flange



Dimensioned drawing

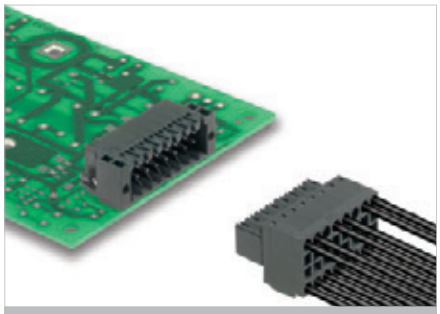


Ordering data

Solder pin length				3.5 mm	3.5 mm
Colour				Orange	Black
Pitch	**3.50 mm**				
Pol.	L1	(inch)	Qty.	Order No.	Order No.
6	7.00	0.276	50	1729430000	1729590000
8	10.50	0.413	50	1729440000	1729600000
10	14.00	0.551	50	1729450000	1729610000
12	17.50	0.689	50	1729460000	1729620000
14	21.00	0.827	50	1729470000	1729630000
16	24.50	0.965	50	1729480000	1729640000
18	28.00	1.102	20	1729490000	1729650000
20	31.50	1.240	20	1729500000	1729660000
22	35.00	1.378	20	1729510000	1729670000
24	38.50	1.516	20	1729520000	1729680000
26	42.00	1.654	20	1729530000	1729690000
28	45.50	1.791	20	1729540000	1729700000
30	49.00	1.929	20	1729550000	1729710000
32	52.50	2.067	20	1729560000	1729720000
34	56.00	2.205	20	1729570000	1729730000
36	59.50	2.343	20	1729580000	1729740000

For open version, see online catalogue

B2L 3.50/../180 QV



Female plugs with integral cross-connection.

- Cross-connection is positioned vertically between the poles of rows directly on top of each other.
- Tension clamp connection with straight outlet and 3.5 mm pitch.
- Flange (F) and release lever (LH) available.

Product data

IEC: 200 V / 10.6 A / 0.2 - 1 mm²
UL: 150 V / 7 A / AWG 28 - 18

For additional articles and information, refer to catalog.weidmueller.com

Note:

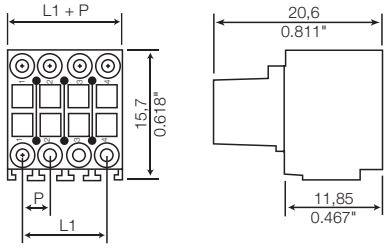
- Additional colours on request
- Gold-plated contact surfaces on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule with plastic collar to DIN 46228/4
- Wire end ferrule without plastic collar to DIN 46228/1
- P on drawing = pitch
- We recommend crimp shape A for wire-end ferrules with crimping tool PZ 6/5 (order no. 9011460000) for the larger wire cross-sections.
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

B2L 3.50/../180QV

with cross-connection



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm²	0.08...1		
Solid core H05(07) V-U	**mm²**	**0.2...1**		
Stranded H07 V-R				
Flexible H05(07) V-K	mm²	0.2...1		
Flexible with ferrule	mm²	0.13...0.34		
Ferrule with plastic collar	mm²	0.13...0.34		
Stripping length	mm	7		
Screwdriver blade	mm			
According to norm				
Tightening torque range	Nm			
Rated current, max.	**A**	**10.6**		**9.1**
At ambient temperature		20°C		40°C
For conductor cross-section	mm²	1		
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	**V**	**80**	**160**	**200**
Rated impulse voltage	kV	1.5	2.5	2.5
UL / CUL (Use Group)		**B**	**C**	**D**
Rated voltage	**V**	**150**	**50**	
Rated current	**A**	**7**	**7**	
AWG conductor	**AWG**		**28-18**	
CSA (Use Group)		**B**	**C**	**D**
Rated voltage	V	300		
Rated current	A	7		
AWG conductor	AWG		28-18	
General data				
Type of insulation material		PBT		
UL 94 flammability rating		V-0		
Contact base material		Copper alloy		
Material of contact surface		tinned		
Pin dimensions = d	mm			
Solder eyelet Ø = D	mm			
Solder eyelet Ø tolerance	mm			

Accessories

Note: Refer to the Accessories chapter for additional accessories.

Coding		Order No.
	B2L/S2L 3.5 KO OR	1849730000
	B2L/S2L 3.5 KO SW	1849740000
Hood		
	B2L 3.50-AH 10 SW	1781580000
	B2L 3.50-AH 12 SW	1781590000
	B2L 3.50-AH 14 SW	1781600000
	B2L 3.50-AH 16 SW	1781610000
	B2L 3.50-AH 18 SW	1781620000
	B2L 3.50-AH 20 SW	1781630000
	B2L 3.50-AH 22 SW	1781640000
	B2L 3.50-AH 24 SW	1781650000
	B2L 3.50-AH 26 SW	1781660000
	B2L 3.50-AH 28 SW	1781670000
	B2L 3.50-AH 30 SW	1781680000
	B2L 3.50-AH 32 SW	1781690000
	B2L 3.50-AH 34 SW	1781700000
	B2L 3.50-AH 36 SW	1781710000
	B2L 3.50-AH 6 SW	1781560000
	B2L 3.50-AH 8 SW	1781570000
Screwdriver		
	SDS 0.4X2.5X75	9009030000
Crimping tool		
	PZ 1.5	9005990000
	PZ 6/5	9011460000

Ordering data

Solder pin length

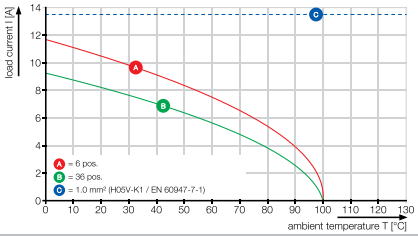
Colour **Black**

Pitch 3.50 mm

Pol.	L1	(inch)	Qty.	Order No.
6	7.00	0.276	50	1944590000
8	10.50	0.413	50	1944600000
10	14.00	0.551	50	1944610000
12	17.50	0.689	50	1944620000
14	21.00	0.827	20	1944630000
16	24.50	0.965	20	1944640000
18	28.00	1.102	20	1944650000

Representative deratings curve

B2L 3.50/../180 QV - S2L 3.50/../90

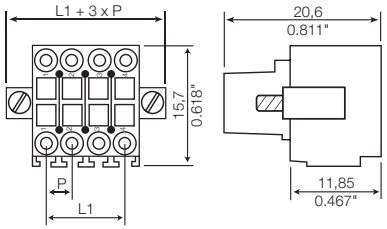


B2L 3.50/../180FQV

with cross-connection and flange



Dimensioned drawing



Ordering data

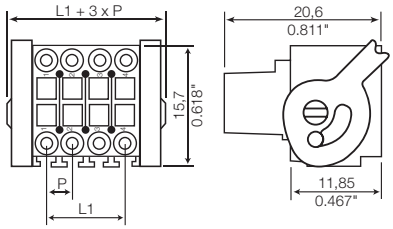
Solder pin length				
Colour				Black
Pitch	**3.50 mm**			
Pol.	L1	(inch)	**Qty.**	**Order No.**
6	7.00	0.276	50	**1944670000**
8	10.50	0.413	50	**1944680000**
10	14.00	0.551	50	**1944690000**
12	17.50	0.689	50	**1944700000**
14	21.00	0.827	20	**1944710000**
16	24.50	0.965	20	**1944720000**
18	28.00	1.102	20	**1944730000**

B2L 3.50/../180LHQV

with cross-connection and release lever



Dimensioned drawing



Ordering data

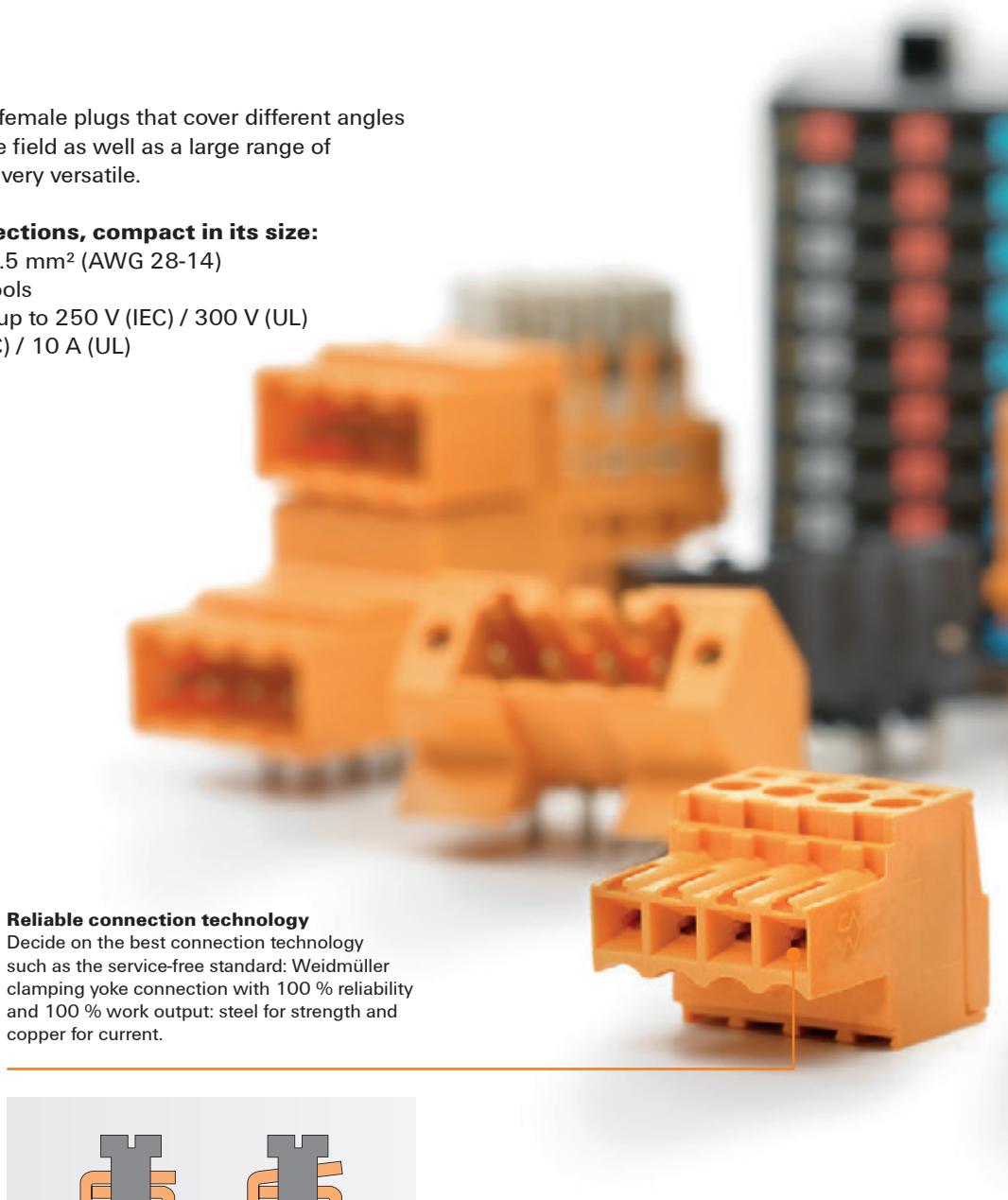
Solder pin length				
Colour				Black
Pitch	**3.50 mm**			
Pol.	L1	(inch)	**Qty.**	**Order No.**
6	7.00	0.276	50	**1944750000**
8	10.50	0.413	50	**1944760000**
10	14.00	0.551	50	**1944770000**
12	17.50	0.689	50	**1944780000**
14	21.00	0.827	20	**1944790000**
16	24.50	0.965	20	**1944800000**
18	28.00	1.102	20	**1944810000**

Excellent design & performance: the single row SL/BL Connector system with 3.50 pitch and the connection of I/Os

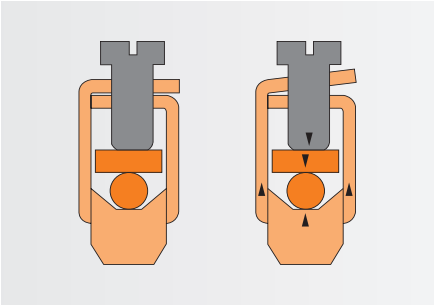
Extensive range of male headers and female plugs that cover different angles to the PCB and conductor angle to the field as well as a large range of accessories make the 3.50 mm pitch very versatile.

Strong in performance and connections, compact in its size:

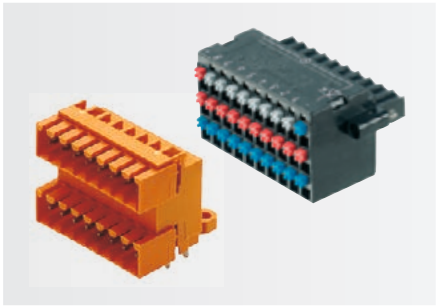
- Wire cross-sections from 0.20 to 1.5 mm² (AWG 28-14)
- Wire connection without special tools
- More than just extra-low voltages: up to 250 V (IEC) / 300 V (UL)
- More than enough: up to 17 A (IEC) / 10 A (UL)



Reliable connection technology
Decide on the best connection technology such as the service-free standard: Weidmüller clamping yoke connection with 100 % reliability and 100 % work output: steel for strength and copper for current.

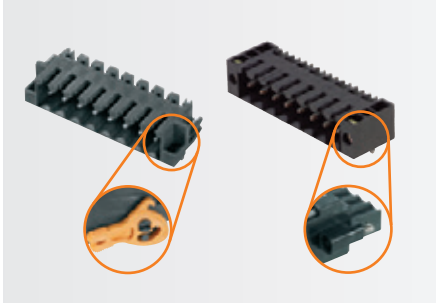


Maximum packing density
Either in a device using double layer male headers SLD or in the field using a 3 row socket connector BL-I/O.

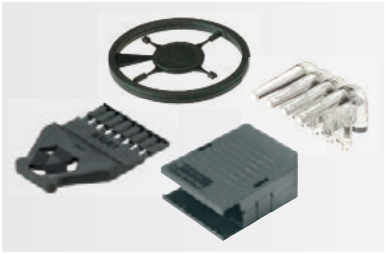




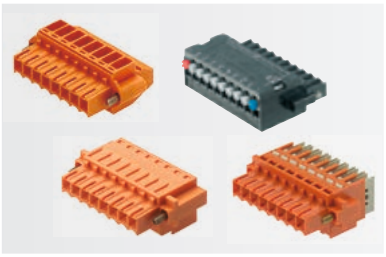
Release latch or screw flange
The release latch guarantees a good connection between the female plug and the device and also, particularly for systems with many pins, ensures an assembly protecting release of the connection. The screw flange creates a vibration and shake-proof connection between the panel connection and the device.



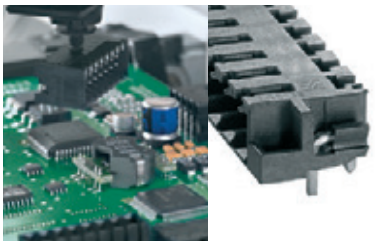
Advanced application possibilities
The extensive range of accessories increases the versatility and permits any desired combination of male headers and female plugs.



Versatile field connection
Choose your individual connection from the classic screw connection BL, the future-proof PUSH IN connection BL-I/O, the proven tension-clamp system BLZF or the quick connection BLIDCB.



Optimum processing
The tape-on-reel packaging for high temperature-resistant male headers made of LCP guarantees a suitable product for automated processing. The integrated solder flange significantly increases the PCB's stability and replaces the screw that would normally be added later.



Small – smaller – BL-I/O: minimal size – maximum functionality

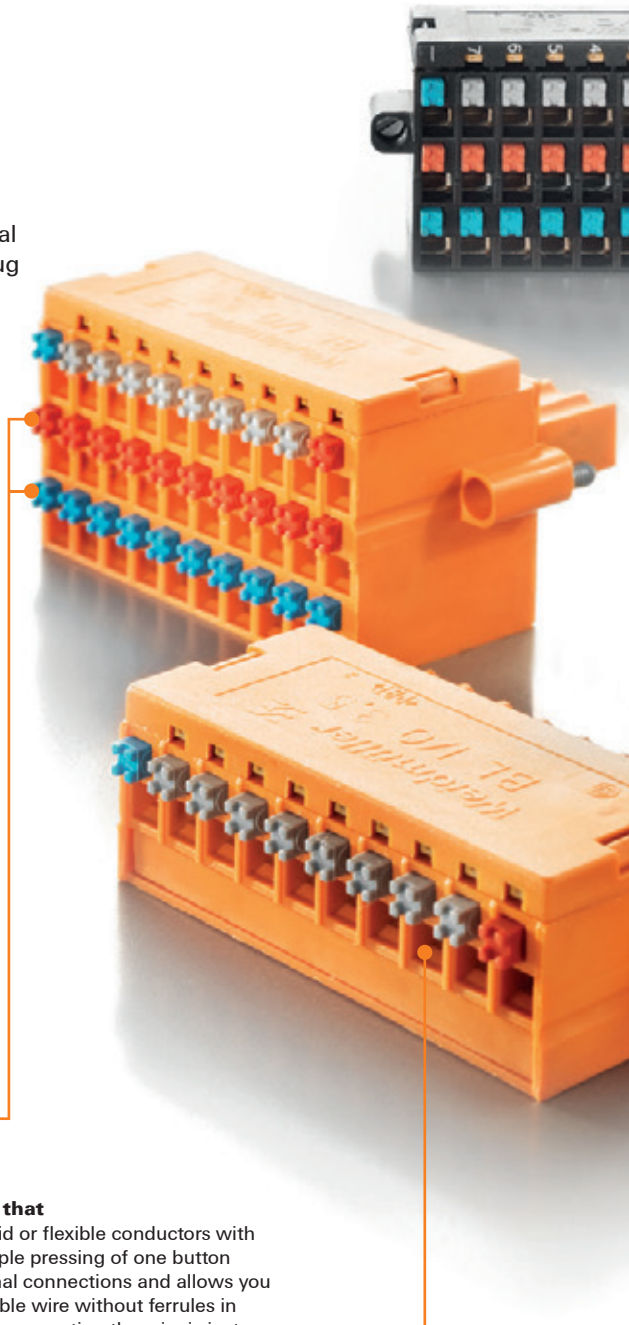
You have a free choice for the field wiring: whether you prefer the compact version with our 3 row female plug BL-I/O 3.50/30-poles or rather conventional systems with terminals or interface modules lowercase's. Since the female plug BL-I/O 3.50 based I/O systems are backwards compatible with existing field connections.

The female plug BL-I/O 3.50 mm pitch is an
- extremely compact,
- 1 or 3 row female plug

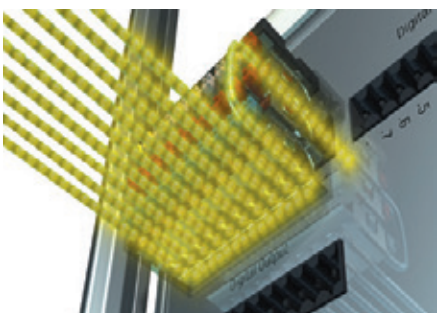
suitable for connection of remote sensors and/or actuators with
- integrated LED display
- integrated cross-connections for potential distribution.

For efficient remote functional units in the field level the female plug BL-I/O 3.50 is a space saving solution to connect I/O components.

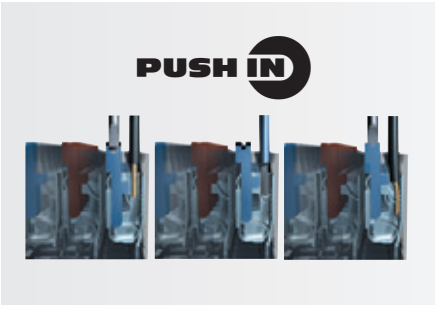
Savings from the female connector BL-I/O are apparent in the development and the manufacturing of the PCB. The layout is simplified by 62 % and fewer layers are required.

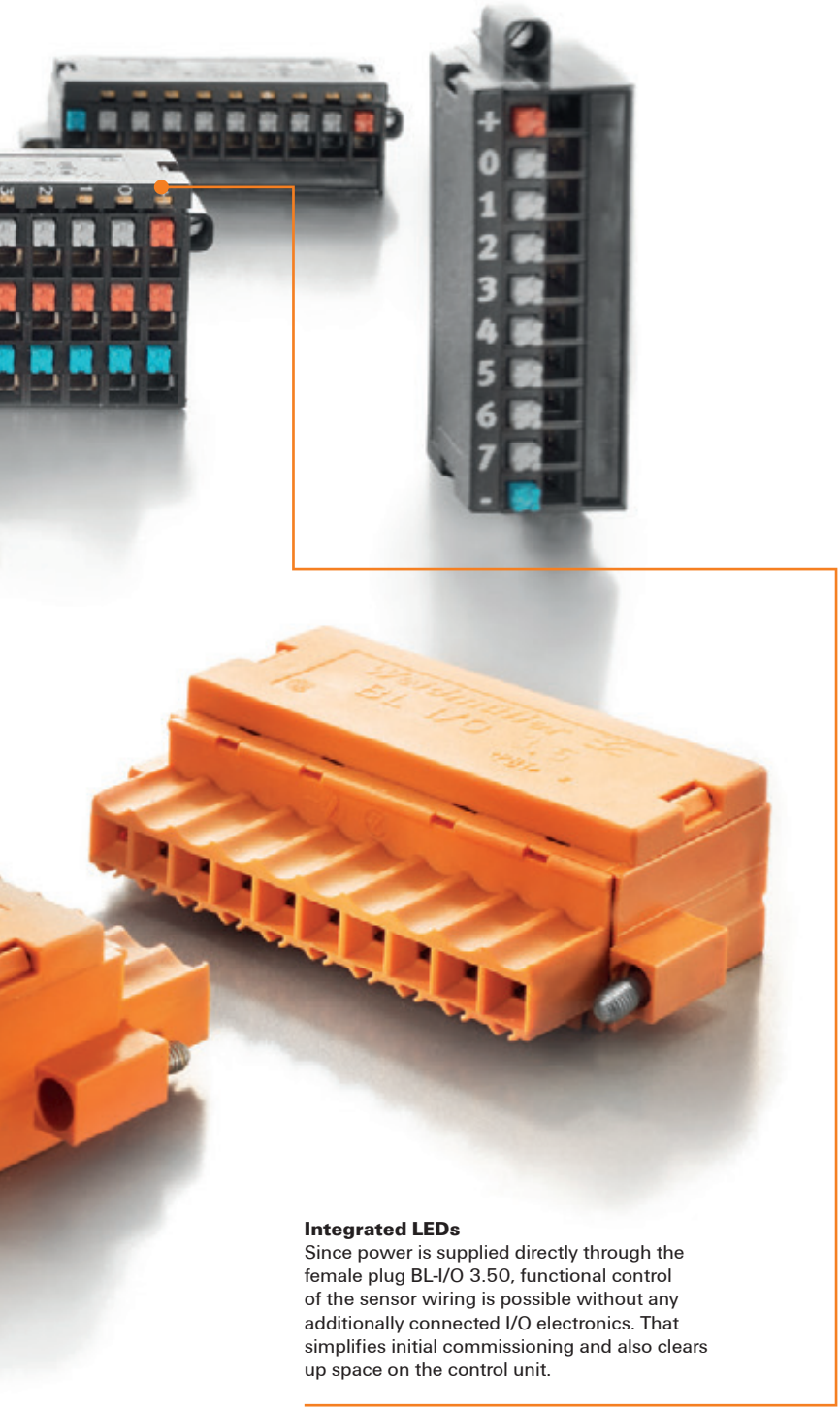


Multiply your potential
Special cross-connectors, that are integrated into the second and third rows of the female plug, distribute the supply voltage to the individual I/O channels. In this way you can input, transfer or bridge the supply voltage. Thus you can save space with the I/O electronics, and you can reduce your wiring overhead.

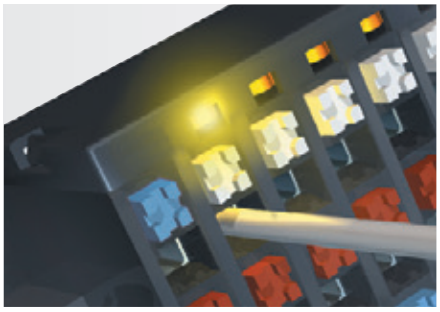


... as simple as that
Simply insert solid or flexible conductors with ferrules. The simple pressing of one button opens the terminal connections and allows you to insert the flexible wire without ferrules in no time at all. Disconnecting the wire is just as easy: press the button and pull out the wire.

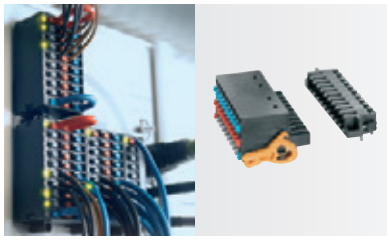




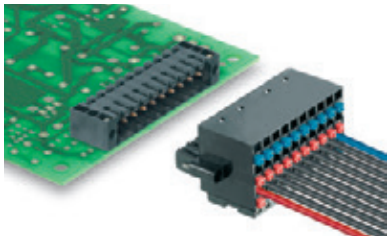
Integrated LEDs
Since power is supplied directly through the female plug BL-I/O 3.50, functional control of the sensor wiring is possible without any additionally connected I/O electronics. That simplifies initial commissioning and also clears up space on the control unit.



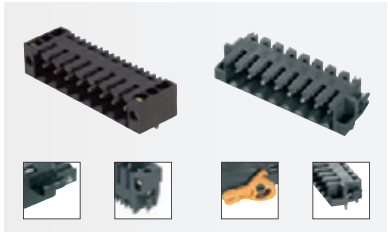
Intuitive locking and releasing
The 3 row female plug BL-I/O 3.50/30/180**LR** with lock & release lever to allow tool free interlocking and electronic assembly protecting release with the new male header SL-SMT 3.50/10/../**RF** with clip-on flange



Rugged screw flange
The 3 row female plug BL-I/O 3-5/30/180F with screw flange for vibration and shock resistant interlocking in conjunction with the male header SL-SMT 3.50/10/../LF with solder flange.



Screwless PCB fastening - suitable for automatic assembly
The male header SL-SMT has a clip-on flange for the release latch and is available as solder flange variant for the screw flange. In both variants the extra solder pin replaces the screw that would have to be added later and significantly increases the mechanical stability to the PCB.

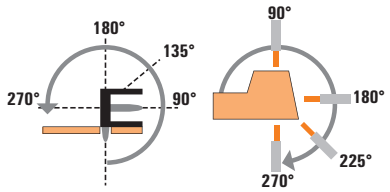


http://www.OMNIMATE.net

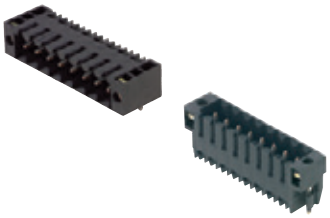
= Wire-to-Board
= Board-to-Board
= Wire-to-Wire
= Board-to-Wire



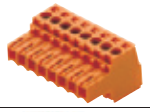
Orientation



Reflow solder connection



BL/SL 3.50 series

							Levels	1	
							Type	**SL-SMT**	**SL-SMT**
							Orientation	90°	180°
							Flange options	G/F/LF/RF	G/F/LF
							IEC / UL	IEC: 320 V/15 A UL: 300 V/10 A	IEC: 320 V/15 A UL: 300 V/10 A
							Page	C.26	C.29
Female plug	Screw: Clamping yoke		**BL**	180°	(G)/F/LH/LR	IEC: 320 V/17 A/0.2 - 1.5 mm² UL: 300 V/10 A/AWG 28 - 14	C.44	○	○
			**BL**	90°	(G)/F	IEC: 320 V/12 A/0.2 - 1.5 mm² UL: 300 V/8 A/AWG 28 - 14	C.46	○	○
			**BL**	270°	(G)/F	IEC: 320 V/12 A/0.2 - 1.5 mm² UL: 300 V/8 A/AWG 28 - 14	C.47	○	○
	Tension clamp		**BLZF**	180°	(G)/F/LH/LR	IEC: 320 V/14.5 A/0.2 - 1.5 mm² UL: 300 V/10 A/AWG 26 - 14	C.48	○	○
	IDC Bus		**BLIDCB**	180°	(G)/F	IEC: 250 V/6 A/0.35 - 0.5 mm² UL: 300 V/7 A/AWG 22 - 20	C.50	○	○
	Spring: PUSH IN		**BL-I/O 10 Pole**	180°	F/LR/FP	IEC: 200 V/2.2 A/0.2 - 1.0 mm² UL: ≤ 200 V/5 A/AWG 22 - 16	C.52	○	○
			**BL-I/O 30 Pole**	180°	F/LR/FP	IEC: 200 V/2.2 A/0.2 - 1.0 mm² UL: ≤ 200 V/5 A/AWG 22 - 16	C.53	○	○

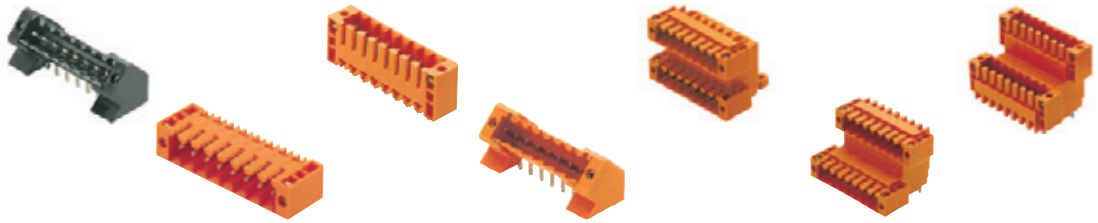
Female plug:
(G)*= Closed (without flange)
F = Screw flange with screw
LH = Release lever
LR = Lock & Release lever
FP = shifted flange

Male header:
(O)*= open
G = Closed (without flange)
F = Flange with nut
LF = Solder flange with nut
RF = Locking flange for LR with solder pin

* not included in the article description

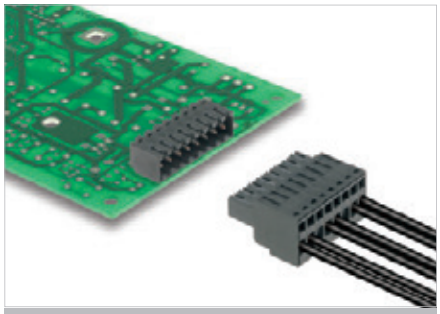
Male header

Solder connection



	1	1			2		
	SL-THR	**SL**	**SL**	**SL**	**SLD**	**SLD V**	**SLD V**
	135°	90°	180°	135°	90°	90°	180°
	F	(O)/G/F	(O)/G/F	F	G/F	G/F	G/F
	IEC: 320 V/15 A UL: 300 V/10 A	IEC: 320 V/15 A UL: 300 V/10 A	IEC: 320 V/15 A UL: 300 V/10 A	IEC: 320 V/15 A UL: 300 V/10 A	IEC: 200 V/10.5 A UL: 300 V/8 A	IEC: 200 V/10.5 A UL: 300 V/8 A	IEC: 200 V/10.5 A UL: 300 V/8 A
	C.37	C.32	C.34	C.36	C.38	C.40	C.42
	○	○	○	○	○	○	○
	○	○	○	○	○	○	○
	○	○	○	○	○	○	○
	○	○	○	○	○	○	○
	○	○	○	○	○	○	○
	○	○	○	○	○	○	○
	○	○	○	○			

SL-SMT 3.50/../90



High-temperature-resistant, angled, male header for all common soldering methods in 3.5 mm pitch.

- Optimised for SMT processing.
- 3.2 mm older pin suitable for reflow and wave soldering.
- The Male headers provide space for labelling and can be coded.
- Available in closed (G) version and with solder flange (LF).
- Packed either in box (BX) or on tape-on-reel (RL).

Product data

IEC: 320 V / 15 A
UL: 300 V / 10 A

For additional articles and information, refer to catalog.weidmueller.com

Note:

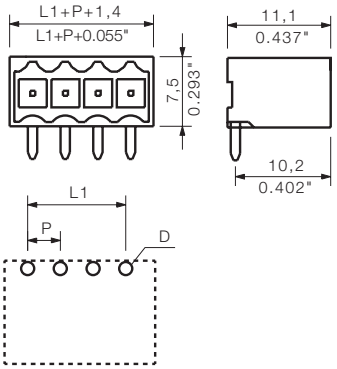
- Gold-plated contact surfaces on request
- Rated current related to rated cross-section & min. No. of poles.
- Diameter of solder eyelet D = 1.5+0.1mm from 9-pole
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

SL-SMT 3.50/../90G Box

closed side



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm²			
Solid core H05(07) V-U	**mm²**			
Stranded H07 V-R				
Flexible H05(07) V-K	mm²			
Flexible with ferrule	mm²			
Ferrule with plastic collar	mm²			
Stripping length	mm			
Screwdriver blade	mm			
According to norm				
Tightening torque range	Nm			
Rated current, max.	**A**	**15**		**13**
At ambient temperature		20°C		40°C
For conductor cross-section	mm²			
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	**V**	**160**	**160**	**320**
Rated impulse voltage	kV	2.5	2.5	2.5
UL / CUL (Use Group)		**B**	**C**	**D**
Rated voltage	**V**	**300**		**300**
Rated current	**A**	**10**		**10**
AWG conductor	**AWG**		-	
CSA (Use Group)		**B**	**C**	**D**
Rated voltage	V	300		300
Rated current	A	10		10
AWG conductor	AWG		-	
General data				
Type of insulation material		LCP GF		
UL 94 flammability rating		V-0		
Contact base material		CuSn		
Material of contact surface		tinned		
Pin dimensions = d	mm	1.2, Octagonal		
Solder eyelet Ø = D	mm	1.4		
Solder eyelet Ø tolerance	mm	+ 0,1		

Accessories

Note: Refer to the Accessories chapter for additional accessories.

Coding		Order No.
	BL SL 3.5 KO OR	1693430000
	BL SL 3.5 KO SW	1610100000
Interlock		
	BL/SL 3.5 VR OR	1669310000
	BL/SL 3.5 VR SW	1669300000
LED light guide		
	SL 3.5 FLA 1.5/1.75/8	1597630000
	SL 3.5 FLA 1.5/8	1597510000
	SL 3.5 FLA 2.3/1.75/8	1597640000
	SL 3.5 FLA 2.3/8	1597520000
	SL 3.5 FLA 4.0/1.75/8	1597650000
	SL 3.5 FLA 4.0/8	1597530000
Mounting screw		
	PTSC KA 2.2X4.5 WN1412	1610740000

Ordering data

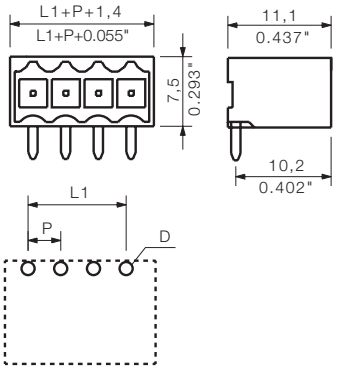
Solder pin length				1.5 mm	3.2 mm
Colour				Black	Black
Pitch	**3.50 mm**				
Pol.	L1	(inch)	**Qty.**	**Order No.**	**Order No.**
2	3.50	0.138	100	1761542001	1841630000
3	7.00	0.276	100	1761552001	1841640000
4	10.50	0.413	100	1761562001	1841650000
5	14.00	0.551	50	1761572001	1841660000
6	17.50	0.689	50	1761582001	1841670000
7	21.00	0.827	50	1761592001	1841680000
8	24.50	0.965	50	1761602001	1841690000
9	28.00	1.102	50	1761612001	1841700000
10	31.50	1.240	50	1761622001	1841710000
11	35.00	1.378	50	1761632001	1841720000
12	38.50	1.516	50	1761642001	1841730000
13	42.00	1.654	50	1761652001	1841740000
14	45.50	1.791	50	1761662001	1841750000
15	49.00	1.929	50	1761672001	1841760000
16	52.50	2.067	50	1761682001	1841770000
17	56.00	2.205	20	1761692001	1841780000
18	59.50	2.343	20	1761702001	1841790000
19	63.00	2.480	20	1761712001	1841800000
20	66.50	2.618	20	1761722001	1841810000
21	70.00	2.756	20	1761732001	1841820000
22	73.50	2.894	20	1761742001	1841830000
23	77.00	3.031	20	1761752001	1841840000
24	80.50	3.169	20	1761762001	1841850000

SL-SMT 3.50/../90G Tape

closed side; tape-on-reel



Dimensioned drawing



Ordering data

Solder pin length				1.5 mm
Colour				Black
Pitch	**3.50 mm**			
Pol.	L1	(inch)	Qty.	Order No.
2	3.50	0.138	385	1761544002
3	7.00	0.276	385	1761554002
4	10.50	0.413	385	1761564002
5	14.00	0.551	385	1761574002
6	17.50	0.689	385	1761584001
7	21.00	0.827	385	1761594001
8	24.50	0.965	385	1761604001
9	28.00	1.102	385	1761614001
10	31.50	1.240	385	1761624001
11	35.00	1.378	385	1761634001

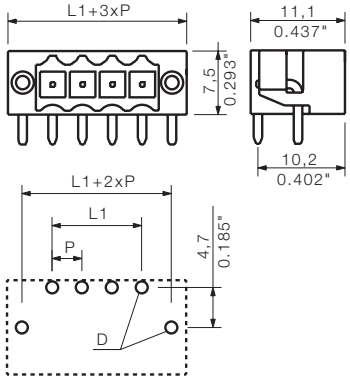
Tape widths: 32, 44, 56, 72, 88

SL-SMT 3.50/../90LF Box

with solder flange



Dimensioned drawing



Ordering data

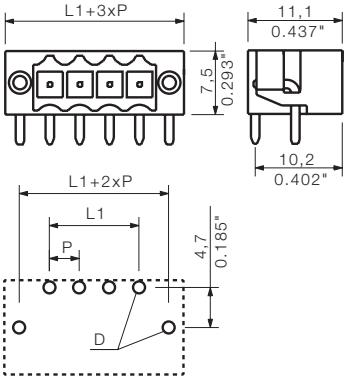
Solder pin length				1.5 mm	3.2 mm
Colour				Black	Black
Pitch	**3.50 mm**				
Pol.	L1	(inch)	Qty.	Order No.	Order No.
2	3.50	0.138	100	1804940000	1841860000
3	7.00	0.276	100	1804950000	1841870000
4	10.50	0.413	100	1804960000	1841880000
5	14.00	0.551	50	1804970000	1841890000
6	17.50	0.689	50	1804980000	1841900000
7	21.00	0.827	50	1804990000	1841910000
8	24.50	0.965	50	1805000000	1841920000
9	28.00	1.102	50	1805010000	1841930000
10	31.50	1.240	50	1805020000	1841940000
11	35.00	1.378	50	1805030000	1841950000
12	38.50	1.516	50	1805040000	1804340000
13	42.00	1.654	50	1805050000	1841960000
14	45.50	1.791	50	1805060000	1841970000
15	49.00	1.929	50	1805070000	1841980000
16	52.50	2.067	50	1805080000	1841990000
17	56.00	2.205	20	1805090000	1842000000
18	59.50	2.343	20	1805100000	1842010000
19	63.00	2.480	20	1805110000	1842020000
20	66.50	2.618	20	1805120000	1842030000
21	70.00	2.756	20	1805130000	1842040000
22	73.50	2.894	20	1805140000	1842050000
23	77.00	3.031	20	1805150000	1842060000
24	80.50	3.169	20	1805160000	1842070000

SL-SMT 3.50/../90LF Tape

with solder flange; tape-on-reel



Dimensioned drawing

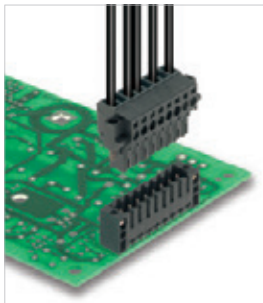


Ordering data

Solder pin length				1.5 mm
Colour				Black
Pitch	**3.50 mm**			
Pol.	L1	(inch)	Qty.	Order No.
2	3.50	0.138	385	1805310000
3	7.00	0.276	385	1805320000
4	10.50	0.413	385	1805330000
5	14.00	0.551	385	1805340000
6	17.50	0.689	385	1805350000
7	21.00	0.827	385	1805360000
8	24.50	0.965	385	1805370000
9	28.00	1.102	385	1805380000
10	31.50	1.240	385	1005180000

Tape widths: 32, 44, 56, 72, 88

SL-SMT 3.50/../ F & RF



High-temperature-resistant, straight and angled, male header for all common soldering methods in 3.5 mm pitch.

- Optimised for the SMT processing.
- 3.2 mm solder pin suitable for reflow and wave soldering.
- Available in screw flange (F) and with solder flange for lock and release lever (RF).

Product data

IEC: 320 V / 15 A
UL: 300 V / 10 A

For additional articles and information, refer to catalog.weidmueller.com

Note:

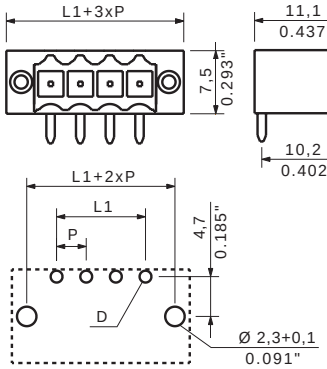
- Gold-plated contact surfaces on request
- Rated current related to rated cross-section & min. No. of poles.
- Diameter of solder eyelet D = 1.5+0.1mm from 9-pole
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

SL-SMT 3.50/../90F Box

with screw flange



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm²			
Solid core H05(07) V-U	**mm²**			
Stranded H07 V-R				
Flexible H05(07) V-K	mm²			
Flexible with ferrule	mm²			
Ferrule with plastic collar	mm²			
Stripping length	mm			
Screwdriver blade	mm			
According to norm				
Tightening torque range	Nm			
Rated current, max.	**A**	**15**		**13**
At ambient temperature		20°C		40°C
For conductor cross-section	mm²			
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	**V**	**160**	**160**	**320**
Rated impulse voltage	kV	2.5	2.5	2.5
UL / CUL (Use Group)		**B**	**C**	**D**
Rated voltage	**V**	**300**		**300**
Rated current	**A**	**10**		**10**
AWG conductor	**AWG**		-	
CSA (Use Group)		**B**	**C**	**D**
Rated voltage	V	300		300
Rated current	A	10		10
AWG conductor	AWG		-	
General data				
Type of insulation material		LCP GF		
UL 94 flammability rating		V-0		
Contact base material		CuSn		
Material of contact surface		tinned		
Pin dimensions = d	mm	1.2, Octagonal		
Solder eyelet Ø = D	mm	1.4		
Solder eyelet Ø tolerance	mm	+ 0,1		

Accessories

Note: Refer to the Accessories chapter for additional accessories.

Coding		Order No.
	BL SL 3.5 KO OR	1693430000
	BL SL 3.5 KO SW	1610100000
Interlock		
	BL/SL 3.5 VR OR	1669310000
	BL/SL 3.5 VR SW	1669300000
LED light guide		
	SL 3.5 FLA 1.5/1.75/8	1597630000
	SL 3.5 FLA 1.5/8	1597510000
	SL 3.5 FLA 2.3/1.75/8	1597640000
	SL 3.5 FLA 2.3/8	1597520000
	SL 3.5 FLA 4.0/1.75/8	1597650000
	SL 3.5 FLA 4.0/8	1597530000

Ordering data

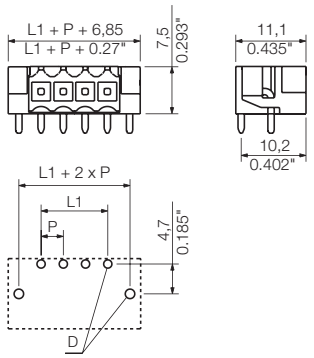
Solder pin length				3.2 mm
Colour				Black
Pitch	**3.50 mm**			
Pol.	**L1**	**(inch)**	**Qty.**	**Order No.**
2	3.50	0.138	100	1842080000
3	7.00	0.276	100	1842090000
4	10.50	0.413	100	1842100000
5	14.00	0.551	50	1842110000
6	17.50	0.689	50	1842120000
7	21.00	0.827	50	1842130000
8	24.50	0.965	50	1842140000
9	28.00	1.102	50	1842150000
10	31.50	1.240	50	1842160000
11	35.00	1.378	50	1842170000
12	38.50	1.516	50	1842180000
13	42.00	1.654	50	1842190000
14	45.50	1.791	50	1842200000
15	49.00	1.929	50	1842210000
16	52.50	2.067	50	1842220000
17	56.00	2.205	20	1842230000
18	59.50	2.343	20	1842240000
19	63.00	2.480	20	1842250000
20	66.50	2.618	20	1842260000
21	70.00	2.756	20	1842270000
22	73.50	2.894	20	1842280000
23	77.00	3.031	20	1842290000
24	80.50	3.169	20	1842300000

SL-SMT 3.50/../90RF Box

with snap-on solder flange



Dimensioned drawing



Ordering data

Solder pin length				1.5 mm
Colour				Black
Pitch	**3.50 mm**			
Pol.	L1	(inch)	**Qty.**	**Order No.**
2	3.50	0.138	100	**1379610000**
3	7.00	0.276	100	**1060810000**
4	10.50	0.413	100	**1000600000**
5	14.00	0.551	50	**1000610000**
6	17.50	0.689	50	**1000620000**
7	21.00	0.827	50	**1000630000**
8	24.50	0.965	50	**1000640000**
9	28.00	1.102	50	**1000650000**
10	31.50	0.138	50	**1060780000**
11	35.00	1.378	50	**1000660000**
12	38.50	1.516	50	**1000670000**
13	42.00	1.654	50	**1000680000**
14	45.50	1.791	50	**1000690000**
15	49.00	1.929	50	**1000700000**
16	52.50	2.067	50	**1060820000**

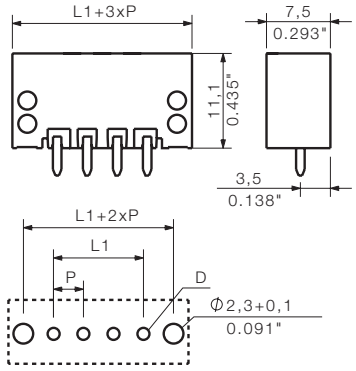
Compatible with release latch (LR)

SL-SMT 3.50/../180F Box

with screw flange



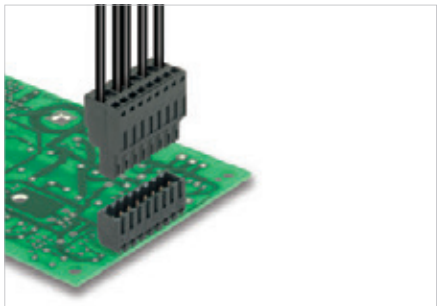
Dimensioned drawing



Ordering data

Solder pin length				3.2 mm
Colour				Black
Pitch	**3.50 mm**			
Pol.	L1	(inch)	**Qty.**	**Order No.**
2	3.50	0.138	100	**1842770000**
3	7.00	0.276	100	**1842780000**
4	10.50	0.413	100	**1842790000**
5	14.00	0.551	50	**1842800000**
6	17.50	0.689	50	**1842810000**
7	21.00	0.827	50	**1842820000**
8	24.50	0.965	50	**1842830000**
9	28.00	1.102	50	**1842840000**
10	31.50	1.240	50	**1842850000**
11	35.00	1.378	50	**1842860000**
12	38.50	1.516	50	**1842870000**
13	42.00	1.654	50	**1842880000**
14	45.50	1.791	50	**1842890000**
15	49.00	1.929	50	**1842900000**
16	52.50	2.067	50	**1842910000**
17	56.00	2.205	20	**1842920000**
18	59.50	2.343	20	**1842930000**
19	63.00	2.480	20	**1842940000**
20	66.50	2.618	20	**1842950000**
21	70.00	2.756	20	**1842960000**
22	73.50	2.894	20	**1842970000**
23	77.00	3.031	20	**1842980000**
24	80.50	3.169	20	**1842990000**

SL-SMT 3.50/../180



High-temperature-resistant, straight male header in 3.50 mm pitch for all conventional soldering methods.

- Optimised for the SMT processing.
- 3.2 mm solder pin suitable for reflow and wave soldering.
- Available in screw flange (F) and with solder flange (LF).
- Packed either in box (BX) or on tape-on-reel (RL).

Product data

IEC: 320 V / 15 A
UL: 300 V / 10 A

For additional articles and information, refer to catalog.weidmueller.com

Note:

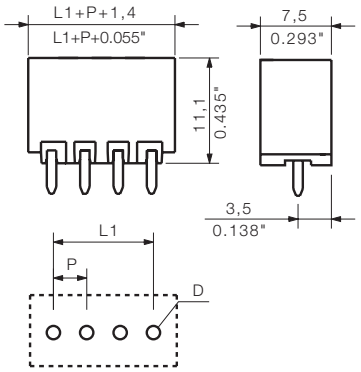
- Gold-plated contact surfaces on request
- Rated current related to rated cross-section & min. No. of poles.
- Diameter of solder eyelet D = 1.5+0.1mm from 9-pole
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

SL SMT 3.50/../180G Box

with solder flange



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm²			
Solid core H05(07) V-U	**mm²**			
Stranded H07 V-R				
Flexible H05(07) V-K	mm²			
Flexible with ferrule	mm²			
Ferrule with plastic collar	mm²			
Stripping length	mm			
Screwdriver blade	mm			
According to norm				
Tightening torque range	Nm			
Rated current, max.	**A**	**15**		**13**
At ambient temperature		20°C		40°C
For conductor cross-section	mm²			
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	**V**	**160**	**160**	**320**
Rated impulse voltage	kV	2.5	2.5	2.5
UL / CUL (Use Group)		**B**	**C**	**D**
Rated voltage	**V**	**300**		**300**
Rated current	**A**	**10**		**10**
AWG conductor	**AWG**		-	
CSA (Use Group)		**B**	**C**	**D**
Rated voltage	V	300		300
Rated current	A	10		10
AWG conductor	AWG		-	
General data				
Type of insulation material		LCP GF		
UL 94 flammability rating		V-0		
Contact base material		CuSn		
Material of contact surface		tinned		
Pin dimensions = d	mm	1.2, Octagonal		
Solder eyelet Ø = D	mm	1.4		
Solder eyelet Ø tolerance	mm	+ 0,1		

Accessories

Note: Refer to the Accessories chapter for additional accessories.

Coding		Order No.
	BL SL 3.5 KO OR	1693430000
	BL SL 3.5 KO SW	1610100000
Interlock		
	BL/SL 3.5 VR OR	1669310000
	BL/SL 3.5 VR SW	1669300000

Ordering data

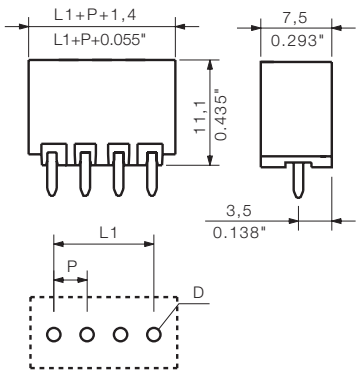
Solder pin length				1.5 mm	3.2 mm
Colour				Black	Black
Pitch	**3.50 mm**				
Pol.	L1	(inch)	**Qty.**	**Order No.**	**Order No.**
2	3.50	0.138	100	1752982001	1842320000
3	7.00	0.276	100	1752992001	1842330000
4	10.50	0.413	100	1753002001	1842340000
5	14.00	0.551	50	1753012001	1842350000
6	17.50	0.689	50	1753022001	1842360000
7	21.00	0.827	50	1753032001	1842370000
8	24.50	0.965	50	1753042001	1842380000
9	28.00	1.102	50	1753052001	1842390000
10	31.50	1.240	50	1753062001	1836990000
11	35.00	1.378	50	1753072001	1842400000
12	38.50	1.516	50	1753082001	1842410000
13	42.00	1.654	50	1753092001	1842420000
14	45.50	1.791	50	1753102001	1842430000
15	49.00	1.929	50	1753112001	1842440000
16	52.50	2.067	50	1753122001	1842450000
17	56.00	2.205	20	1753132001	1842460000
18	59.50	2.343	20	1753142001	1842470000
19	63.00	2.480	20	1753152001	1842480000
20	66.50	2.618	20	1753162001	1842490000
21	70.00	2.756	20	1753172001	1842500000
22	73.50	2.894	20	1753182001	1842510000
23	77.00	3.031	20	1753192001	1842520000
24	80.50	3.169	20	1753202001	1842530000

SL SMT 3.50/../180G Tape

with solder flange



Dimensioned drawing



Ordering data

Solder pin length				1.5 mm
Colour				Black
Pitch	**3.50 mm**			
Pol.	L1	(inch)	**Qty.**	**Order No.**
2	3.50	0.138	265	**1752984002**
3	7.00	0.276	265	**1752994002**
4	10.50	0.413	265	**1753004002**
5	14.00	0.551	265	**1753014002**
6	17.50	0.689	265	**1753024001**
7	21.00	0.827	265	**1753034001**
8	24.50	0.965	265	**1753044001**
9	28.00	1.102	265	**1753054001**
10	31.50	1.240	265	**1753064001**
11	35.00	1.378	265	**1753074001**

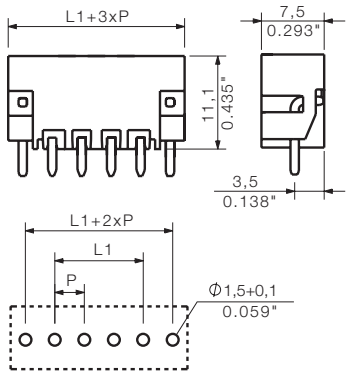
Tape widths: 32, 44, 56, 72, 88

SL SMT 3.50/../180LF Box

with solder flange



Dimensioned drawing



Ordering data

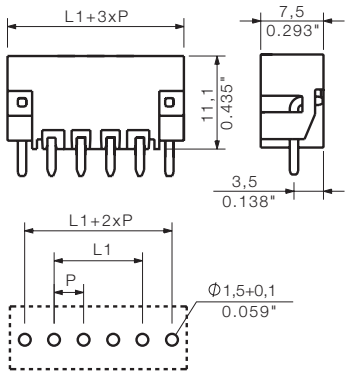
Solder pin length				1.5 mm	3.2 mm
Colour				Black	Black
Pitch	**3.50 mm**				
Pol.	L1	(inch)	**Qty.**	**Order No.**	**Order No.**
2	3.50	0.138	100	**1804700000**	**1842540000**
3	7.00	0.276	100	**1804710000**	**1842550000**
4	10.50	0.413	100	**1804720000**	**1842560000**
5	14.00	0.551	50	**1804730000**	**1842570000**
6	17.50	0.689	50	**1804740000**	**1842580000**
7	21.00	0.827	50	**1804750000**	**1842590000**
8	24.50	0.965	50	**1804760000**	**1842600000**
9	28.00	1.102	50	**1804770000**	**1842610000**
10	31.50	1.240	50	**1804780000**	**1842620000**
11	35.00	1.378	50	**1804790000**	**1842630000**
12	38.50	1.516	50	**1804800000**	**1842640000**
13	42.00	1.654	50	**1804810000**	**1842650000**
14	45.50	1.791	50	**1804820000**	**1842660000**
15	49.00	1.929	50	**1804830000**	**1842670000**
16	52.50	2.067	50	**1804840000**	**1842680000**
17	56.00	2.205	20	**1804850000**	**1842690000**
18	59.50	2.343	20	**1804860000**	**1842700000**
19	63.00	2.480	20	**1804870000**	**1842710000**
20	66.50	2.618	20	**1804890000**	**1842720000**
21	70.00	2.756	20	**1804900000**	**1842730000**
22	73.50	2.894	20	**1804910000**	**1842740000**
23	77.00	3.031	20	**1804920000**	**1842750000**
24	80.50	3.169	20	**1804930000**	**1842760000**

SL SMT 3.50/../180LF Tape

with solder flange



Dimensioned drawing

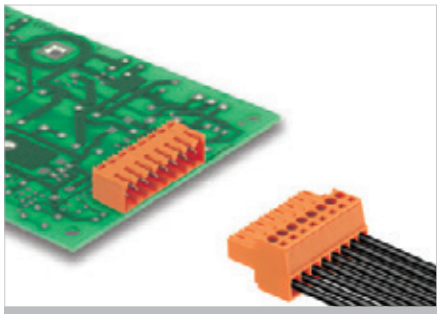


Ordering data

Solder pin length				1.5 mm
Colour				Black
Pitch	**3.50 mm**			
Pol.	L1	(inch)	**Qty.**	**Order No.**
2	3.50	0.138	265	**1805210000**
3	7.00	0.276	265	**1805230000**
4	10.50	0.413	265	**1805240000**
5	14.00	0.551	265	**1805250000**
6	17.50	0.689	265	**1805270000**
7	21.00	0.827	265	**1805280000**
8	24.50	0.965	265	**1805290000**
9	28.00	1.102	265	**1805300000**

Tape widths: 32, 44, 56, 72, 88

SL 3.50/../90



Angled male header (90° orientation) for wave soldering in 3.5 mm pitch. The male header is available in open, closed (G) and flange (F) versions. Packed in cardboard box.

Product data

IEC: 320 V / 17 A
UL: 300 V / 10 A

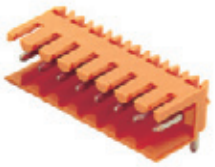
For additional articles and information, refer to catalog.weidmueller.com

Note:

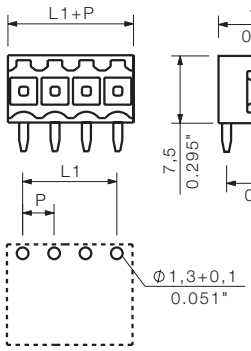
- Additional colours on request
- Gold-plated contact surfaces on request
- Rated current related to rated cross-section & min. No. of poles.
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

SL 3.50/../90

open side



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm²			
Solid core H05(07) V-U	**mm²**			
Stranded H07 V-R				
Flexible H05(07) V-K	mm²			
Flexible with ferrule	mm²			
Ferrule with plastic collar	mm²			
Stripping length	mm			
Screwdriver blade	mm			
According to norm				
Tightening torque range	Nm			
Rated current, max.	**A**	**17**		**14.5**
At ambient temperature		20°C		40°C
For conductor cross-section	mm²			
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	**V**	**160**	**160**	**320**
Rated impulse voltage	kV	2.5	2.5	2.5
UL / CUL (Use Group)		**B**	**C**	**D**
Rated voltage	**V**	**300**		**300**
Rated current	**A**	**10**		**10**
AWG conductor	**AWG**		-	
CSA (Use Group)		**B**	**C**	**D**
Rated voltage	V	300		300
Rated current	A	10		10
AWG conductor	AWG		-	
General data				
Type of insulation material		PBT		
UL 94 flammability rating		V-0		
Contact base material		CuSn		
Material of contact surface		tinned		
Pin dimensions = d	mm	1.2, Octagonal		
Solder eyelet Ø = D	mm	1.3		
Solder eyelet Ø tolerance	mm	+ 0,1		

Accessories

Note: Refer to the Accessories chapter for additional accessories.

Coding		Order No.
	BL SL 3.5 KO OR	1693430000
	BL SL 3.5 KO SW	1610100000
Interlock		
	BL/SL 3.5 VR OR	1669310000
	BL/SL 3.5 VR SW	1669300000
LED light guide		
	SL 3.5 FLA 1.5/1.75/8	1597630000
	SL 3.5 FLA 1.5/8	1597510000
	SL 3.5 FLA 2.3/1.75/8	1597640000
	SL 3.5 FLA 2.3/8	1597520000
	SL 3.5 FLA 4.0/1.75/8	1597650000
	SL 3.5 FLA 4.0/8	1597530000
Mounting screw		
	PTSC KA 2.2X4.5 WN1412	1610740000

Ordering data

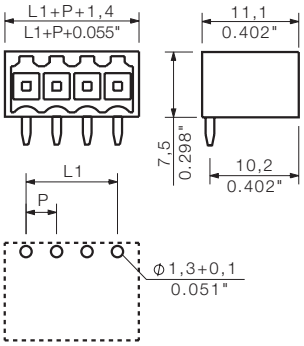
Solder pin length				3.2 mm
Colour				Orange
Pitch	**3.50 mm**			
Pol.	**L1**	**(inch)**	**Qty.**	**Order No.**
2	3.50	0.138	100	1597210000
3	7.00	0.276	100	1597220000
4	10.50	0.413	100	1597230000
5	14.00	0.551	50	1597240000
6	17.50	0.689	50	1597250000
7	21.00	0.827	50	1597260000
8	24.50	0.965	50	1597270000
9	28.00	1.102	50	1597280000
10	31.50	1.240	50	1597290000
11	35.00	1.378	50	1597300000
12	38.50	1.516	50	1597310000
13	42.00	1.654	50	1597320000
14	45.50	1.791	50	1597330000
15	49.00	1.929	50	1597340000
16	52.50	2.067	50	1597350000
17	56.00	2.205	20	1618990000
18	59.50	2.343	20	1619000000
19	63.00	2.480	20	1619010000
20	66.50	2.618	20	1619020000
21	70.00	2.756	20	1619030000
22	73.50	2.894	20	1619040000
23	77.00	3.031	20	1619050000
24	80.50	3.169	20	1619060000

SL 3.50/../90G

closed side



Dimensioned drawing

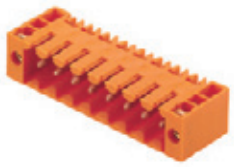


Ordering data

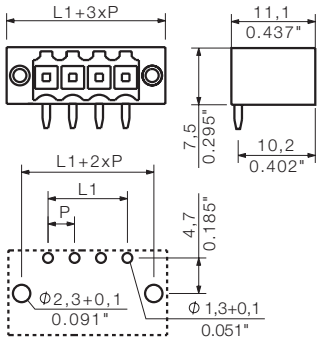
Solder pin length				3.2 mm
Colour				Orange
Pitch	**3.50 mm**			
Pol.	L1	(inch)	Qty.	Order No.
2	3.50	0.138	100	1605070000
3	7.00	0.276	100	1605080000
4	10.50	0.413	100	1605090000
5	14.00	0.551	50	1605100000
6	17.50	0.689	50	1605110000
7	21.00	0.827	50	1605120000
8	24.50	0.965	50	1605130000
9	28.00	1.102	50	1605140000
10	31.50	1.240	50	1605150000
11	35.00	1.378	50	1605160000
12	38.50	1.516	50	1605170000
13	42.00	1.654	50	1605180000
14	45.50	1.791	50	1605190000
15	49.00	1.929	50	1605200000
16	52.50	2.067	50	1605210000
17	56.00	2.205	20	1619380000
18	59.50	2.343	20	1619390000
19	63.00	2.480	20	1619400000
20	66.50	2.618	20	1619410000
21	70.00	2.756	20	1619420000
22	73.50	2.894	20	1619430000
23	77.00	3.031	20	1619440000
24	80.50	3.169	20	1619450000

SL 3.50/../90F

with screw flange



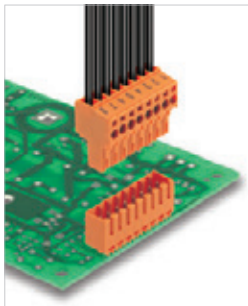
Dimensioned drawing



Ordering data

Solder pin length				3.2 mm
Colour				Orange
Pitch	**3.50 mm**			
Pol.	L1	(inch)	Qty.	Order No.
2	3.50	0.138	100	1607040000
3	7.00	0.276	100	1607050000
4	10.50	0.413	100	1607060000
5	14.00	0.551	50	1607070000
6	17.50	0.689	50	1607080000
7	21.00	0.827	50	1607090000
8	24.50	0.965	50	1607100000
9	28.00	1.102	50	1607110000
10	31.50	1.240	50	1607120000
11	35.00	1.378	50	1607130000
12	38.50	1.516	50	1607140000
13	42.00	1.654	50	1607150000
14	45.50	1.791	50	1607160000
15	49.00	1.929	50	1607170000
16	52.50	2.067	50	1607180000
17	56.00	2.205	20	1619770000
18	59.50	2.343	20	1619780000
19	63.00	2.480	20	1619790000
20	66.50	2.618	20	1619800000
21	70.00	2.756	20	1619810000
22	73.50	2.894	20	1619820000
23	77.00	3.031	20	1619830000
24	80.50	3.169	20	1619840000

SL 3.50/../180



Straight male header (180° orientation) for wave soldering in 3.5 mm pitch. The male header is available in open, closed (G) and flange (F) versions. Packed in cardboard box.

Product data

IEC: 320 V / 17 A
UL: 300 V / 10 A

For additional articles and information, refer to catalog.weidmueller.com

Note:

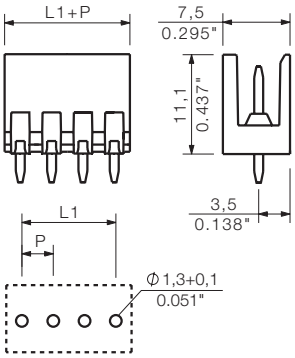
- Additional colours on request
- Gold-plated contact surfaces on request
- Rated current related to rated cross-section & min. No. of poles.
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

SL 3.50/../180

open side



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm²			
Solid core H05(07) V-U	**mm²**			
Stranded H07 V-R				
Flexible H05(07) V-K	mm²			
Flexible with ferrule	mm²			
Ferrule with plastic collar	mm²			
Stripping length	mm			
Screwdriver blade	mm			
According to norm				
Tightening torque range	Nm			
Rated current, max.	**A**	**17**		**14.5**
At ambient temperature		20°C		40°C
For conductor cross-section	mm²			
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	**V**	**160**	**160**	**320**
Rated impulse voltage	kV	2.5	2.5	2.5
UL / CUL (Use Group)		**B**	**C**	**D**
Rated voltage	**V**	**300**		**300**
Rated current	**A**	**10**		**10**
AWG conductor	**AWG**		-	
CSA (Use Group)		**B**	**C**	**D**
Rated voltage	V	300		300
Rated current	A	10		10
AWG conductor	AWG		-	
General data				
Type of insulation material		PBT		
UL 94 flammability rating		V-0		
Contact base material		CuSn		
Material of contact surface		tinned		
Pin dimensions = d	mm	1.2, Octagonal		
Solder eyelet Ø = D	mm	1.3		
Solder eyelet Ø tolerance	mm	+ 0,1		

Accessories

Note: Refer to the Accessories chapter for additional accessories.

Coding		Order No.
	BL SL 3.5 KO OR	**1693430000**
	BL SL 3.5 KO SW	**1610100000**
Interlock		
	BL/SL 3.5 VR OR	**1669310000**
	BL/SL 3.5 VR SW	**1669300000**
Mounting screw		
	PTSC KA 2.2X4.5 WN1412	**1610740000**

Ordering data

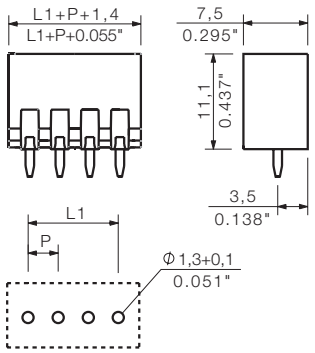
Solder pin length				3.2 mm
Colour				Orange
Pitch	**3.50 mm**			
Pol.	L1	(inch)	Qty.	Order No.
2	3.50	0.138	100	**1604770000**
3	7.00	0.276	100	**1604780000**
4	10.50	0.413	100	**1604790000**
5	14.00	0.551	50	**1604800000**
6	17.50	0.689	50	**1604810000**
7	21.00	0.827	50	**1604820000**
8	24.50	0.965	50	**1604830000**
9	28.00	1.102	50	**1604840000**
10	31.50	1.240	50	**1604850000**
11	35.00	1.378	50	**1604860000**
12	38.50	1.516	50	**1604870000**
13	42.00	1.654	50	**1604880000**
14	45.50	1.791	50	**1604890000**
15	49.00	1.929	50	**1604900000**
16	52.50	2.067	50	**1604910000**
17	56.00	2.205	20	**1621400000**
18	59.50	2.343	20	**1621410000**
19	63.00	2.480	20	**1621420000**
20	66.50	2.618	20	**1621430000**
21	70.00	2.756	20	**1621440000**
22	73.50	2.894	20	**1621450000**
23	77.00	3.031	20	**1621460000**
24	80.50	3.169	20	**1621470000**

SL 3.50/../180G

closed side



Dimensioned drawing

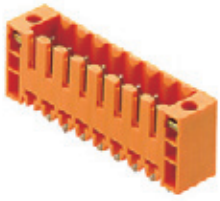


Ordering data

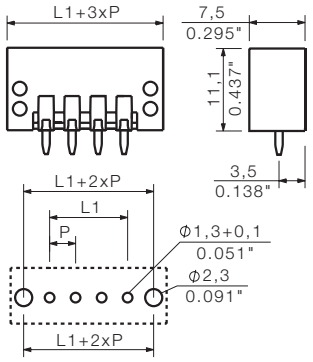
Solder pin length				3.2 mm
Colour				Orange
Pitch	**3.50 mm**			
Pol.	L1	(inch)	Qty.	Order No.
2	3.50	0.138	100	1604470000
3	7.00	0.276	100	1604480000
4	10.50	0.413	100	1604490000
5	14.00	0.551	50	1604500000
6	17.50	0.689	50	1604510000
7	21.00	0.827	50	1604520000
8	24.50	0.965	50	1604530000
9	28.00	1.102	50	1604540000
10	31.50	1.240	50	1604550000
11	35.00	1.378	50	1604560000
12	38.50	1.516	50	1604570000
13	42.00	1.654	50	1604580000
14	45.50	1.791	50	1604590000
15	49.00	1.929	50	1604600000
16	52.50	2.067	50	1604610000
17	56.00	2.205	20	1621790000
18	59.50	2.343	20	1621800000
19	63.00	2.480	20	1621810000
20	66.50	2.618	20	1621820000
21	70.00	2.756	20	1621830000
22	73.50	2.894	20	1621840000
23	77.00	3.031	20	1621850000
24	80.50	3.169	20	1621860000

SL 3.50/../180F

with screw flange



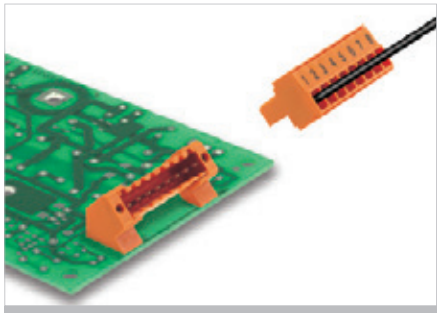
Dimensioned drawing



Ordering data

Solder pin length				3.2 mm
Colour				Orange
Pitch	**3.50 mm**			
Pol.	L1	(inch)	Qty.	Order No.
2	3.50	0.138	100	1607500000
3	7.00	0.276	100	1607510000
4	10.50	0.413	100	1607520000
5	14.00	0.551	50	1607530000
6	17.50	0.689	50	1607540000
7	21.00	0.827	50	1607550000
8	24.50	0.965	50	1607560000
9	28.00	1.102	50	1607570000
10	31.50	1.240	50	1607580000
11	35.00	1.378	50	1607590000
12	38.50	1.516	50	1607600000
13	42.00	1.654	50	1607610000
14	45.50	1.791	50	1607620000
15	49.00	1.929	50	1607630000
16	52.50	2.067	50	1607640000
17	56.00	2.205	20	1622180000
18	59.50	2.343	20	1622190000
19	63.00	2.480	20	1622200000
20	66.50	2.618	20	1622210000
21	70.00	2.756	20	1622220000
22	73.50	2.894	20	1622230000
23	77.00	3.031	20	1622240000
24	80.50	3.169	20	1622250000

SL 3.50/../135



Angled male header (135° orientation) for wave soldering in 3.5 mm pitch. The male header is available in closed (G) and flange (F) versions.

Product data

IEC: 320 V / 15 A
UL: 300 V / 10 A

For additional articles and information, refer to catalog.weidmueller.com

Note:

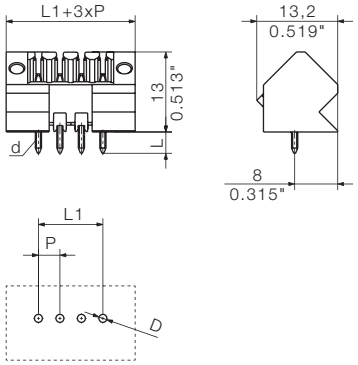
- Additional colours on request
- Gold-plated contact surfaces on request
- Rated current related to rated cross-section & min. No. of poles.
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

SL 3.50/../135F

with screw flange



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm²			
Solid core H05(07) V-U	**mm²**			
Stranded H07 V-R				
Flexible H05(07) V-K	mm²			
Flexible with ferrule	mm²			
Ferrule with plastic collar	mm²			
Stripping length	mm			
Screwdriver blade	mm			
According to norm				
Tightening torque range	Nm			
Rated current, max.	**A**	**15**		**13**
At ambient temperature		20°C		40°C
For conductor cross-section	mm²			
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	**V**	**160**	**160**	**320**
Rated impulse voltage	kV	2.5	2.5	2.5
UL / CUL (Use Group)		**B**	**C**	**D**
Rated voltage	**V**	**300**		**300**
Rated current	**A**	**10**		**10**
AWG conductor	**AWG**		-	
CSA (Use Group)		**B**	**C**	**D**
Rated voltage	V	300		300
Rated current	A	10		10
AWG conductor	AWG		-	
General data				
Type of insulation material		PBT		
UL 94 flammability rating		V-0		
Contact base material		CuSn		
Material of contact surface		tinned		
Pin dimensions = d	mm	1.2, Octagonal		
Solder eyelet Ø = D	mm	1.3		
Solder eyelet Ø tolerance	mm	+ 0,1		

Accessories

Note: Refer to the Accessories chapter for additional accessories.

Coding		Order No.
	BL SL 3.5 KO OR	1693430000
	BL SL 3.5 KO SW	1610100000
Interlock		
	BL/SL 3.5 VR OR	1669310000
	BL/SL 3.5 VR SW	1669300000

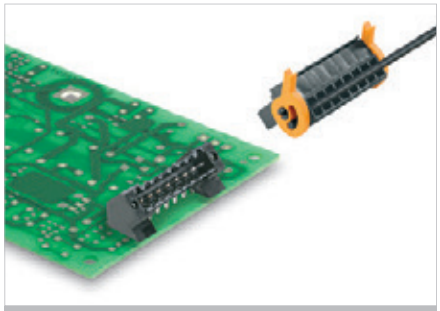
Ordering data

Solder pin length 3.2 mm
Colour Orange

Pitch 3.50 mm

Pol.	L1	(inch)	Qty.	Order No.
2	3.50	0.138	100	1643330000
3	7.00	0.276	100	1643340000
4	10.50	0.413	100	1643350000
5	14.00	0.551	50	1643360000
6	17.50	0.689	50	1643370000
7	21.00	0.827	50	1643380000
8	24.50	0.965	50	1643390000
9	28.00	1.102	50	1643400000
10	31.50	1.240	50	1643410000
11	35.00	1.378	50	1643420000
12	38.50	1.516	50	1643430000
13	42.00	1.654	50	1643440000
14	45.50	1.791	50	1643450000
15	49.00	1.929	50	1643460000
16	52.50	2.067	50	1643470000
17	56.00	2.205	20	1643480000
18	59.50	2.343	20	1643490000
19	63.00	2.480	20	1643500000
20	66.50	2.618	20	1643510000
21	70.00	2.756	20	1643520000
22	73.50	2.894	20	1643530000
23	77.00	3.031	20	1643540000
24	80.50	3.169	20	1643550000

SL-THR 3.50/../135



High-temperature-resistant, 135° angled, male header for all common soldering methods in 3.5 mm pitch. 3.2 mm solder pin suitable for reflow and wave soldering. The pin headers provide space for labelling and can be coded.

Product data

IEC: 320 V / 15 A
UL: 300 V / 10 A

For additional articles and information, refer to catalog.weidmueller.com

Note:

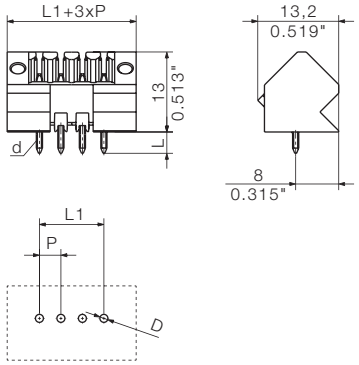
- Gold-plated contact surfaces on request
- Rated current related to rated cross-section & min. No. of poles.
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

SL-THR 3.50/../135F

with screw flange



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm²			
Solid core H05(07) V-U	**mm²**			
Stranded H07 V-R				
Flexible H05(07) V-K	mm²			
Flexible with ferrule	mm²			
Ferrule with plastic collar	mm²			
Stripping length	mm			
Screwdriver blade	mm			
According to norm				
Tightening torque range	Nm			
Rated current, max.	**A**	**15**		**13**
At ambient temperature		20°C		40°C
For conductor cross-section	mm²			
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	**V**	**160**	**160**	**320**
Rated impulse voltage	kV	2.5	2.5	2.5
UL / CUL (Use Group)		**B**	**C**	**D**
Rated voltage	**V**	**300**		**300**
Rated current	**A**	**10**		**10**
AWG conductor	**AWG**		-	
CSA (Use Group)		**B**	**C**	**D**
Rated voltage	V	300		300
Rated current	A	10		10
AWG conductor	AWG		-	
General data				
Type of insulation material		LCP GF		
UL 94 flammability rating		V-0		
Contact base material		CuSn		
Material of contact surface		tinned		
Pin dimensions = d	mm	1.2, Octagonal		
Solder eyelet Ø = D	mm	1.3		
Solder eyelet Ø tolerance	mm	+ 0,1		

Accessories

Note: Refer to the Accessories chapter for additional accessories.

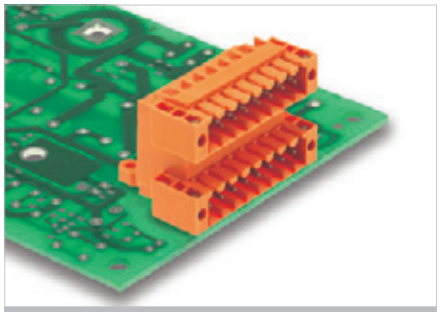
Coding		Order No.
	BL SL 3.5 KO OR	**1693430000**
	BL SL 3.5 KO SW	**1610100000**
Interlock		
	BL/SL 3.5 VR OR	**1669310000**
	BL/SL 3.5 VR SW	**1669300000**

Ordering data

Solder pin length 3.2 mm
Colour Black
Pitch 3.50 mm

Pol.	L1	(inch)	Qty.	Order No.
2	3.50	0.138	100	**1003510000**
3	7.00	0.276	100	**1003520000**
4	10.50	0.413	100	**1003530000**
5	14.00	0.551	50	**1003540000**
6	17.50	0.689	50	**1003550000**
7	21.00	0.827	50	**1003560000**
8	24.50	0.965	50	**1003570000**
9	28.00	1.102	50	**1003580000**
10	31.50	1.240	50	**1003590000**
11	35.00	1.378	50	**1003600000**
12	38.50	1.516	50	**1003620000**
13	42.00	1.654	50	**1003630000**
14	45.50	1.791	50	**1003640000**
15	49.00	1.929	50	**1003650000**
16	52.50	2.067	50	**1003660000**
17	56.00	2.205	20	**1003670000**
18	59.50	2.343	20	**1003680000**
19	63.00	2.480	20	**1003690000**
20	66.50	2.618	20	**1003700000**
21	70.00	2.756	20	**1003710000**
22	73.50	2.894	20	**1003720000**
23	77.00	3.031	20	**1003730000**
24	80.50	3.169	20	**1003740000**

SLD 3.50/../90



Double-level, angled male header (90° orientation) for wave soldering in 3.5 mm pitch. The male header is available in open, closed (G) and flange (F) versions.

Product data

IEC: 200 V / 10.5 A
UL: 300 V / 8 A

For additional articles and information, refer to catalog.weidmueller.com

Note:

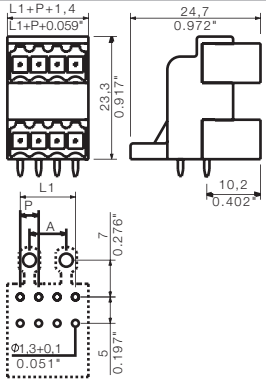
- Additional colours on request
- Gold-plated contact surfaces on request
- Rated current related to rated cross-section & min. No. of poles.
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

SLD 3.50/../90G

closed side



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm²			
Solid core H05(07) V-U	**mm²**			
Stranded H07 V-R				
Flexible H05(07) V-K	mm²			
Flexible with ferrule	mm²			
Ferrule with plastic collar	mm²			
Stripping length	mm			
Screwdriver blade	mm			
According to norm				
Tightening torque range	Nm			
Rated current, max.	**A**	**10.5**		**9**
At ambient temperature		20°C		40°C
For conductor cross-section	mm²			
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	**V**	**125**	**160**	**200**
Rated impulse voltage	kV	2.5	2.5	2.5
UL / CUL (Use Group)		**B**	**C**	**D**
Rated voltage	**V**	**300**		**300**
Rated current	**A**	**8**		**8**
AWG conductor	**AWG**		-	
CSA (Use Group)		**B**	**C**	**D**
Rated voltage	V	300		300
Rated current	A	8		8
AWG conductor	AWG		-	
General data				
Type of insulation material		PBT		
UL 94 flammability rating		V-0		
Contact base material		CuSn		
Material of contact surface		tinned		
Pin dimensions = d	mm	1.2, Octagonal		
Solder eyelet Ø = D	mm	1.3		
Solder eyelet Ø tolerance	mm	+ 0,1		

Accessories

Note: Refer to the Accessories chapter for additional accessories.

Coding		Order No.
	BL SL 3.5 KO OR	1693430000
	BL SL 3.5 KO SW	1610100000

Ordering data

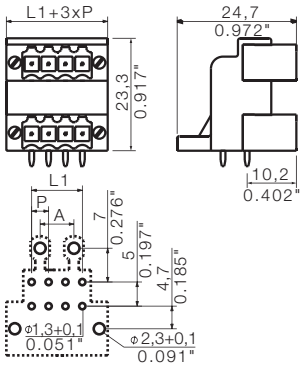
Solder pin length				3.2 mm
Colour				Orange
Pitch	**3.50 mm**			
Pol.	L1	(inch)	Qty.	Order No.
4	3.50	0.138	50	1633580000
6	7.00	0.276	50	1633590000
8	10.50	0.413	50	1633600000
10	14.00	0.551	50	1633610000
12	17.50	0.689	50	1633620000
14	21.00	0.827	20	1633630000
16	24.50	0.965	20	1633640000
18	28.00	1.102	20	1633650000
20	31.50	1.240	20	1633660000
22	35.00	1.378	10	1633670000
24	38.50	1.516	10	1633680000
26	42.00	1.654	10	1633690000
28	45.50	1.791	10	1633700000
30	49.00	1.929	10	1633710000
32	52.50	2.067	10	1633720000
34	56.00	2.205	10	1633730000
36	59.50	2.343	10	1633740000
38	63.00	2.480	10	1633750000
40	66.50	2.618	10	1633760000
42	70.00	2.756	10	1633770000
44	73.50	2.894	10	1633780000
46	77.00	3.031	10	1633790000
48	80.50	3.169	10	1633800000

SLD 3.50/../90F

with screw flange



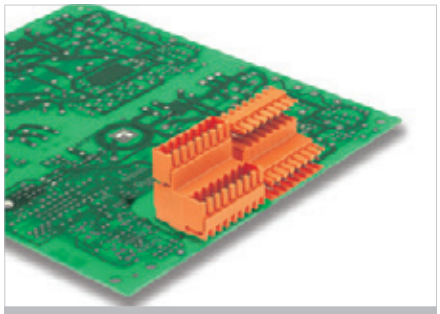
Dimensioned drawing



Ordering data

Solder pin length				3.2 mm
Colour				Orange
Pitch	**3.50 mm**			
Pol.	L1	(inch)	**Qty.**	**Order No.**
4	3.50	0.138	50	**1633810000**
6	7.00	0.276	50	**1633820000**
8	10.50	0.413	50	**1633830000**
10	14.00	0.551	50	**1633840000**
12	17.50	0.689	50	**1633850000**
14	21.00	0.827	20	**1633860000**
16	24.50	0.965	20	**1633870000**
18	28.00	1.102	20	**1633880000**
20	31.50	1.240	20	**1633890000**
22	35.00	1.378	10	**1633900000**
24	38.50	1.516	10	**1633910000**
26	42.00	1.654	10	**1633920000**
28	45.50	1.791	10	**1633930000**
30	49.00	1.929	10	**1633940000**
32	52.50	2.067	10	**1633950000**
34	56.00	2.205	10	**1633960000**
36	59.50	2.343	10	**1633970000**
38	63.00	2.480	10	**1633980000**
40	66.50	2.618	10	**1633990000**
42	70.00	2.756	10	**1634000000**
44	73.50	2.894	10	**1634010000**
46	77.00	3.031	10	**1634020000**
48	80.50	3.169	10	**1634030000**

SLD 3.50V/../90



Double-level, staggered male header with angled 90° wire outlet for wave soldering in 3.5 mm pitch. The male header is available in open, closed (G) and flange (F) versions.

Product data

IEC: 200 V / 10.5 A
UL: 300 V / 8 A

For additional articles and information, refer to catalog.weidmueller.com

Note:

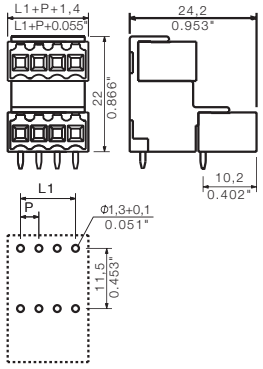
- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Spacing between rows: see hole layout
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

SLD 3.50V/../90G

closed side



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm²			
Solid core H05(07) V-U	**mm²**			
Stranded H07 V-R				
Flexible H05(07) V-K	mm²			
Flexible with ferrule	mm²			
Ferrule with plastic collar	mm²			
Stripping length	mm			
Screwdriver blade	mm			
According to norm				
Tightening torque range	Nm			
Rated current, max.	**A**	**10.5**		**9**
At ambient temperature		20°C		40°C
For conductor cross-section	mm²			
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	**V**	**125**	**160**	**200**
Rated impulse voltage	kV	2.5	2.5	2.5
UL / CUL (Use Group)		**B**	**C**	**D**
Rated voltage	**V**	**300**		**300**
Rated current	**A**	**8**		**8**
AWG conductor	**AWG**		-	
CSA (Use Group)		**B**	**C**	**D**
Rated voltage	V	300		300
Rated current	A	8		8
AWG conductor	AWG		-	
General data				
Type of insulation material		PBT		
UL 94 flammability rating		V-0		
Contact base material		CuSn		
Material of contact surface		tinned		
Pin dimensions = d	mm	1.2, Octagonal		
Solder eyelet Ø = D	mm	1.3		
Solder eyelet Ø tolerance	mm	+ 0,1		

Accessories

Note: Refer to the Accessories chapter for additional accessories.

Coding		Order No.
	BL SL 3.5 KO OR	1693430000
	BL SL 3.5 KO SW	1610100000

Ordering data

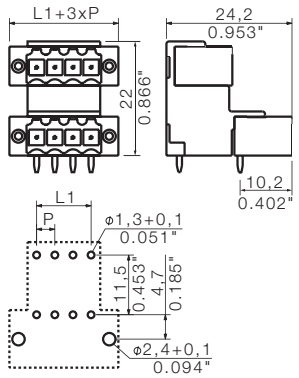
Solder pin length				3.2 mm
Colour				Orange
Pitch	**3.50 mm**			
Pol.	**L1**	**(inch)**	**Qty.**	**Order No.**
4	3.50	0.138	50	1642240000
6	7.00	0.276	50	1890600000
8	10.50	0.413	50	1642250000
10	14.00	0.551	50	1866770000
12	17.50	0.689	50	1642260000
14	21.00	0.827	20	1890610000
16	24.50	0.965	20	1642270000
18	28.00	1.102	20	1890620000
20	31.50	1.240	20	1642280000
22	35.00	1.378	10	1669650000
24	38.50	1.516	10	1642290000
26	42.00	1.654	10	1890630000
28	45.50	1.791	10	1642300000
30	49.00	1.929	10	1890640000
32	52.50	2.067	10	1642310000
34	56.00	2.205	10	1890650000
36	59.50	2.343	10	1642320000
38	63.00	2.480	10	1890660000
40	66.50	2.618	10	1642330000
42	70.00	2.756	10	1890670000
44	73.50	2.894	10	1642340000
46	77.00	3.031	10	1890680000
48	80.50	3.169	10	1642350000

SLD 3.50V/../90F

with screw flange



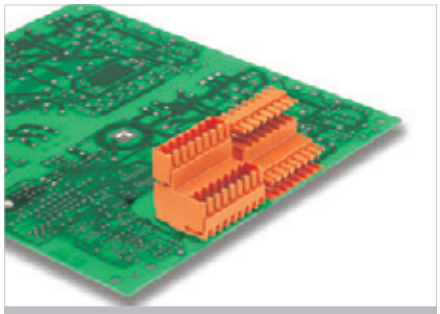
Dimensioned drawing



Ordering data

Solder pin length				3.2 mm
Colour				Orange
Pitch	**3.50 mm**			
Pol.	L1	(inch)	**Qty.**	**Order No.**
4	3.50	0.138	50	**1642370000**
6	7.00	0.276	50	**1890790000**
8	10.50	0.413	50	**1642380000**
10	14.00	0.551	50	**1890800000**
12	17.50	0.689	50	**1642390000**
14	21.00	0.827	20	**1890810000**
16	24.50	0.965	20	**1642400000**
18	28.00	1.102	20	**1890820000**
20	31.50	1.240	20	**1642410000**
22	35.00	1.378	10	**1669660000**
24	38.50	1.516	10	**1642420000**
26	42.00	1.654	10	**1890830000**
28	45.50	1.791	10	**1642430000**
30	49.00	1.929	10	**1890840000**
32	52.50	2.067	10	**1642440000**
34	56.00	2.205	10	**1890850000**
36	59.50	2.343	10	**1642450000**
38	63.00	2.480	10	**1890860000**
40	66.50	2.618	10	**1642460000**
42	70.00	2.756	10	**1890870000**
44	73.50	2.894	10	**1642470000**
46	77.00	3.031	10	**1890880000**
48	80.50	3.169	10	**1642480000**

SLD 3.50V/../180



Double-level, staggered male header with straight 180° wire outlet for wave soldering in 3.5 mm pitch. The male header is available in closed (G) and flange (F) versions.

Product data

IEC: 200 V / 10.5 A
UL: 300 V / 8 A

For additional articles and information, refer to catalog.weidmueller.com

Note:

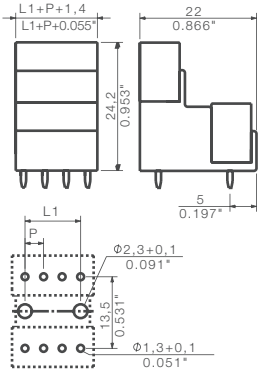
- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Spacing between rows: see hole layout
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

SLD 3.50V/../180G

closed side



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm²			
Solid core H05(07) V-U	**mm²**			
Stranded H07 V-R				
Flexible H05(07) V-K	mm²			
Flexible with ferrule	mm²			
Ferrule with plastic collar	mm²			
Stripping length	mm			
Screwdriver blade	mm			
According to norm				
Tightening torque range	Nm			
Rated current, max.	**A**	**10.5**		**9**
At ambient temperature		20°C		40°C
For conductor cross-section	mm²			
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	**V**	**125**	**160**	**200**
Rated impulse voltage	kV	2.5	2.5	2.5
UL / CUL (Use Group)		**B**	**C**	**D**
Rated voltage	**V**	**300**		**300**
Rated current	**A**	**8**		**8**
AWG conductor	**AWG**		-	
CSA (Use Group)		**B**	**C**	**D**
Rated voltage	V	300		300
Rated current	A	8		8
AWG conductor	AWG		-	
General data				
Type of insulation material		PBT		
UL 94 flammability rating		V-0		
Contact base material		CuSn		
Material of contact surface		tinned		
Pin dimensions = d	mm	1.2, Octagonal		
Solder eyelet Ø = D	mm	1.3		
Solder eyelet Ø tolerance	mm	+ 0,1		

Accessories

Note: Refer to the Accessories chapter for additional accessories.

Coding		Order No.
	BL SL 3.5 KO OR	1693430000
	BL SL 3.5 KO SW	1610100000

Ordering data

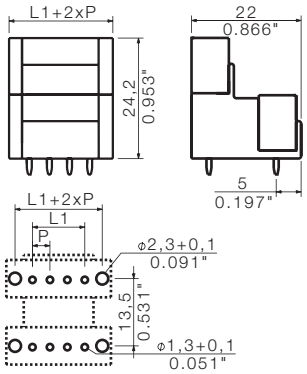
Solder pin length				3.2 mm
Colour				Orange
Pitch	**3.50 mm**			
Pol.	**L1**	**(inch)**	**Qty.**	**Order No.**
4	3.50	0.138	50	1641110000
6	7.00	0.276	50	1891190000
8	10.50	0.413	50	1641120000
10	14.00	0.551	50	1891200000
12	17.50	0.689	50	1641130000
16	24.50	0.965	20	1641140000
20	31.50	1.240	20	1641150000
24	38.50	1.516	10	1641160000
28	45.50	1.791	10	1641170000
32	52.50	2.067	10	1641180000
34	56.00	2.205	10	1891260000
36	59.50	2.343	10	1641190000
38	63.00	2.480	10	1891270000
40	66.50	2.618	10	1641200000
42	70.00	2.756	10	1891280000
44	73.50	2.894	10	1641210000
46	77.00	3.031	10	1891290000
48	80.50	3.169	10	1641220000

SLD 3.50V/../180F

with screw flange



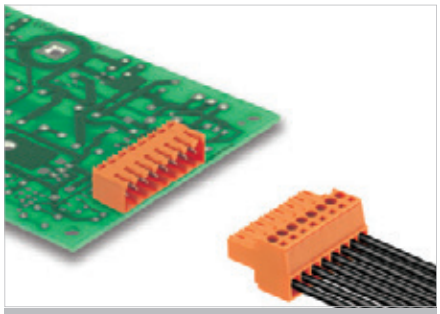
Dimensioned drawing



Ordering data

Solder pin length				3.2 mm
Colour				Orange
Pitch	**3.50 mm**			
Pol.	L1	(inch)	**Qty.**	**Order No.**
4	3.50	0.138	50	**1641240000**
6	7.00	0.276	50	**1891060000**
8	10.50	0.413	50	**1641250000**
10	14.00	0.551	50	**1891070000**
12	17.50	0.689	50	**1641260000**
14	21.00	0.827	20	**1891080000**
16	24.50	0.965	20	**1641270000**
18	28.00	1.102	20	**1891090000**
20	31.50	1.240	20	**1641280000**
22	35.00	1.378	20	**1891100000**
24	38.50	1.516	10	**1641290000**
26	42.00	1.654	10	**1891110000**
28	45.50	1.791	10	**1641300000**
30	49.00	1.929	10	**1891120000**
32	52.50	2.067	10	**1641310000**
34	56.00	2.205	10	**1891130000**
36	59.50	2.343	10	**1641320000**
38	63.00	2.480	10	**1891140000**
40	66.50	2.618	10	**1641330000**
42	70.00	2.756	10	**1891150000**
44	73.50	2.894	10	**1641340000**
46	77.00	3.031	10	**1891160000**
48	80.50	3.169	10	**1641350000**

BL 3.50/../180



Female plug with clamping-yoke screw system for connecting wires with straight outlet direction in 3.5 mm pitch. Available with a screw flange (F), release lever (LH) or lock and release lever (LR). They include space for labelling and can be coded.

Product data

IEC: 320 V / 17 A / 0.2 - 1.5 mm²
UL: 300 V / 10 A / AWG 28 - 14

For additional articles and information, refer to catalog.weidmueller.com

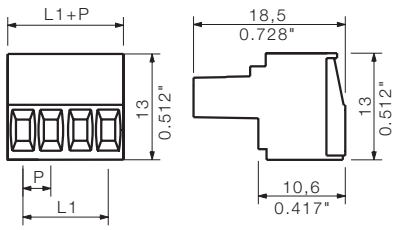
Note:

- Additional colours on request
- Gold-plated contact surfaces on request
- Rated current related to rated cross-section & min. No. of poles.
- Max. outer diameter of the conductor: 2.9 mm
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

BL 3.50/../180



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm²	0.08...1.5		
Solid core H05(07) V-U	**mm²**	**0.2...1.5**		
Stranded H07 V-R				
Flexible H05(07) V-K	mm²	0.2...1.5		
Flexible with ferrule	mm²	0.2...1.5		
Ferrule with plastic collar	mm²	0.2...1.5		
Stripping length	mm	6		
Screwdriver blade	mm	0.4 x 2.5		
According to norm		DIN 5264		
Tightening torque range	Nm	0.2...0.25		
Rated current, max.	**A**	**17**		**14.5**
At ambient temperature		20°C		40°C
For conductor cross-section	mm²		1.5	
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	**V**	**160**	**160**	**320**
Rated impulse voltage	kV	2.5	2.5	2.5
UL / CUL (Use Group)		**B**	**C**	**D**
Rated voltage	**V**	**300**		**300**
Rated current	**A**	**10**		**10**
AWG conductor	**AWG**		**28-14**	
CSA (Use Group)		**B**	**C**	**D**
Rated voltage	V	300		300
Rated current	A	10		10
AWG conductor	AWG		28-14	
General data				
Type of insulation material			PBT	
UL 94 flammability rating			V-0	
Contact base material			Copper alloy	
Material of contact surface			tinned	
Pin dimensions = d	mm			
Solder eyelet Ø = D	mm			
Solder eyelet Ø tolerance	mm			

Accessories

Note: Refer to the Accessories chapter for additional accessories.

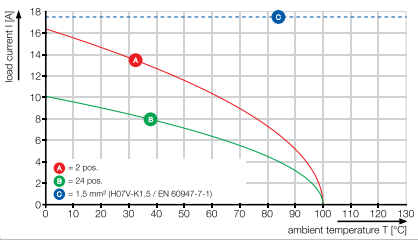
Coding		Order No.
	BL SL 3.5 KO OR	1693430000
	BL SL 3.5 KO SW	1610100000
Hood		
	BL 3.5 AH 10 SW	1745650000
	BL 3.5 AH 11 SW	1745660000
	BL 3.5 AH 12 SW	1745670000
	BL 3.5 AH 13 SW	1745680000
	BL 3.5 AH 14 SW	1745690000
	BL 3.5 AH 15 SW	1745700000
	BL 3.5 AH 16 SW	1745710000
	BL 3.5 AH 3 SW	1745580000
	BL 3.5 AH 4 SW	1745590000
	BL 3.5 AH 5 SW	1745600000
	BL 3.5 AH 6 SW	1745610000
	BL 3.5 AH 7 SW	1745620000
	BL 3.5 AH 8 SW	1745630000
	BL 3.5 AH 9 SW	1745640000
Strain relief		
	BL 3.5 ZE 3 OR	1629680000
	BL 3.5 ZE 3 SW	1627820000
	BL 3.5 ZE 8 OR	1629690000
	BL 3.5 ZE 8 SW	1627830000
Interlock		
	BL/SL 3.5 VR OR	1669310000
	BL/SL 3.5 VR SW	1669300000
Screwdriver		
	SDIS 0.4X2.5X75	9008370000
	SDS 0.4X2.5X75	9009030000

Ordering data

Solder pin length

Colour				Orange	Black
Pitch	**3.50 mm**				
Pol.	L1	(inch)	Qty.	Order No.	Order No.
2	3.50	0.138	100	1597360000	1615670000
3	7.00	0.276	100	1597370000	1615680000
4	10.50	0.413	100	1597380000	1615690000
5	14.00	0.551	50	1597390000	1614090000
6	17.50	0.689	50	1597400000	1610180000
7	21.00	0.827	50	1597410000	1610190000
8	24.50	0.965	50	1597420000	1615700000
9	28.00	1.102	50	1597430000	1615710000
10	31.50	1.240	50	1597440000	1610200000
11	35.00	1.378	50	1597450000	1615720000
12	38.50	1.516	50	1597460000	1615730000
13	42.00	1.654	50	1597470000	1615740000
14	45.50	1.791	50	1597480000	1615750000
15	49.00	1.929	50	1597490000	1615760000
16	52.50	2.067	50	1597500000	1615770000
17	56.00	2.205	20	1620290000	1620370000
18	59.50	2.343	20	1620300000	1620380000
19	63.00	2.480	20	1620310000	1620390000
20	66.50	2.618	20	1620320000	1620400000
21	70.00	2.756	20	1620330000	1620410000
22	73.50	2.894	20	1620340000	1620420000
23	77.00	3.031	20	1620350000	1620430000
24	80.50	3.169	20	1620360000	1620440000

BL 3.50/../180 - SL-SMT 3.50/../90

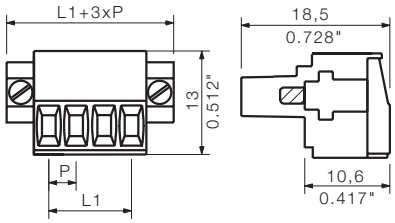


BL 3.50/../180F

with screw flange



Dimensioned drawing



Ordering data

Solder pin length

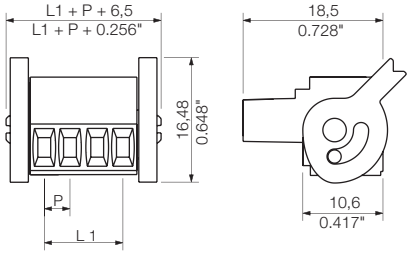
Colour				Orange	Black
Pitch	**3.50 mm**				
Pol.	L1	(inch)	**Qty.**	**Order No.**	**Order No.**
2	3.50	0.138	100	**1606640000**	**1615780000**
3	7.00	0.276	100	**1606650000**	**1615790000**
4	10.50	0.413	100	**1606660000**	**1615800000**
5	14.00	0.551	50	**1606670000**	**1615810000**
6	17.50	0.689	50	**1606680000**	**1615820000**
7	21.00	0.827	50	**1606690000**	**1615830000**
8	24.50	0.965	50	**1606700000**	**1615840000**
9	28.00	1.102	50	**1606710000**	**1615850000**
10	31.50	1.240	50	**1606720000**	**1615860000**
11	35.00	1.378	50	**1606730000**	**1615870000**
12	38.50	1.516	50	**1606740000**	**1615880000**
13	42.00	1.654	50	**1606750000**	**1615890000**
14	45.50	1.791	50	**1606760000**	**1615900000**
15	49.00	1.929	50	**1606770000**	**1615910000**
16	52.50	2.067	50	**1606780000**	**1615920000**
17	56.00	2.205	20	**1620760000**	**1620840000**
18	59.50	2.343	20	**1620770000**	**1620850000**
19	63.00	2.480	20	**1620780000**	**1620860000**
20	66.50	2.618	20	**1620790000**	**1620870000**
21	70.00	2.756	20	**1620800000**	**1620880000**
22	73.50	2.894	20	**1620810000**	**1620890000**
23	77.00	3.031	20	**1620820000**	**1620900000**
24	80.50	3.169	20	**1620830000**	**1620910000**

BL 3.50/../180LH

with release lever



Dimensioned drawing



Ordering data

Solder pin length

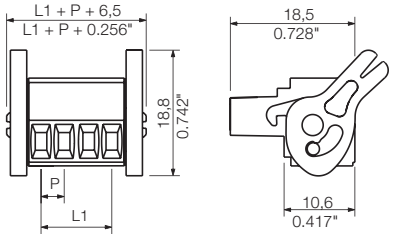
Colour				Orange	Black
Pitch	**3.50 mm**				
Pol.	L1	(inch)	**Qty.**	**Order No.**	**Order No.**
2	3.50	0.138	100	**1687650000**	**1687880000**
3	7.00	0.276	100	**1687660000**	**1687890000**
4	10.50	0.413	100	**1687670000**	**1687900000**
5	14.00	0.551	50	**1687680000**	**1687910000**
6	17.50	0.689	50	**1687690000**	**1687920000**
7	21.00	0.827	50	**1687700000**	**1687930000**
8	24.50	0.965	50	**1687710000**	**1687940000**
9	28.00	1.102	50	**1687720000**	**1687950000**
10	31.50	1.240	50	**1687730000**	**1687960000**
11	35.00	1.378	50	**1687740000**	**1687970000**
12	38.50	1.516	50	**1687750000**	**1687980000**
13	42.00	1.654	50	**1687760000**	**1687990000**
14	45.50	1.791	50	**1687770000**	**1688000000**
15	49.00	1.929	50	**1687780000**	**1688010000**
16	52.50	2.067	50	**1687790000**	**1688020000**
17	56.00	2.205	20	**1687800000**	**1688030000**
18	59.50	2.343	20	**1687810000**	**1688040000**
19	63.00	2.480	20	**1687820000**	**1688050000**
20	66.50	2.618	20	**1687830000**	**1688060000**
21	70.00	2.756	20	**1687840000**	**1688070000**
22	73.50	2.894	20	**1687850000**	**1688080000**
23	77.00	3.031	20	**1687860000**	**1688090000**
24	80.50	3.169	20	**1687870000**	**1688100000**

BL 3.50/../180LR

with release latch



Dimensioned drawing



Ordering data

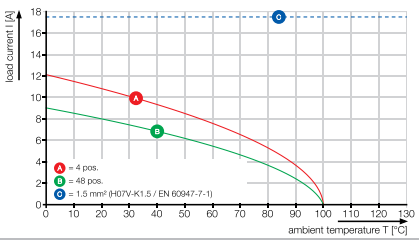
Solder pin length

Colour				Orange
Pitch	**3.50 mm**			
Pol.	L1	(inch)	**Qty.**	**Order No.**
2	3.50	0.138	100	**1379600000**
3	7.00	0.276	100	**1134310000**
4	10.50	0.413	100	**1134320000**
5	14.00	0.551	50	**1134330000**
6	17.50	0.689	50	**1134340000**
7	21.00	0.827	50	**1134350000**
8	24.50	0.965	50	**1134360000**
9	28.00	1.102	50	**1134370000**
10	31.50	1.240	50	**1134380000**
11	35.00	1.378	50	**1134390000**
12	38.50	1.516	50	**1134400000**
13	42.00	1.654	50	**1134410000**
14	45.50	1.791	50	**1134420000**
15	49.00	1.929	50	**1134430000**
16	52.50	2.067	50	**1134440000**

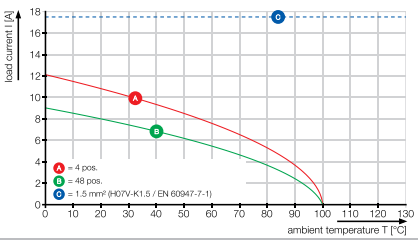
Compatible with SL-SMT 3.50/../90RF

Additional deratings curves

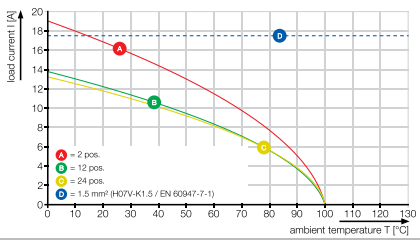
BL 3.50/../180 - SLD 3.50/../90



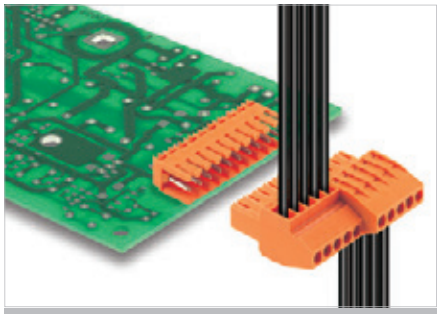
BL 3.50/../180 - SLD 3.50V/../180



BL 3.50/../180 - SL 3.50/../90



BL 3.50/../90 & 270



Female plug with clamping-yoke screw system for connecting wires with 90° and 270° angled orientation in 3.5 mm pitch. The female plugs are also available with a flange (F). They include space for labelling and can be coded.

Product data

IEC: 320 V / 12 A / 0.2 - 1.5 mm²
UL: 300 V / 8 A / AWG 28 - 14

For additional articles and information, refer to catalog.weidmueller.com

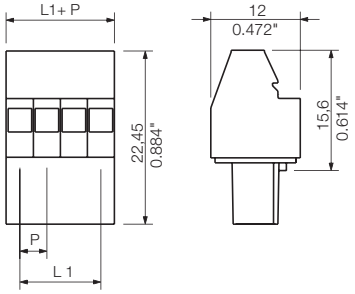
Note:

- Additional colours on request
- Gold-plated contact surfaces on request
- Rated current related to rated cross-section & min. No. of poles.
- Max. outer diameter of the conductor: 2.9 mm
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

BL 3.50/../90



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm²	0.08...1.5		
Solid core H05(07) V-U	**mm²**	**0.2...1.5**		
Stranded H07 V-R				
Flexible H05(07) V-K	mm²	0.2...1.5		
Flexible with ferrule	mm²	0.2...1.5		
Ferrule with plastic collar	mm²	0.2...1.5		
Stripping length	mm	6		
Screwdriver blade	mm	0.4 x 2.5		
According to norm		DIN 5264		
Tightening torque range	Nm	0.2...0.25		
Rated current, max.	**A**	**12**		**10**
At ambient temperature		20°C		40°C
For conductor cross-section	mm²	1.5		
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	**V**	**160**	**160**	**320**
Rated impulse voltage	kV	2.5	2.5	2.5
UL / CUL (Use Group)		**B**	**C**	**D**
Rated voltage	**V**	**300**		**300**
Rated current	**A**	**8**		**8**
AWG conductor	**AWG**	**28-14**		
CSA (Use Group)		**B**	**C**	**D**
Rated voltage	V	300		300
Rated current	A	10		10
AWG conductor	AWG	28-14		
General data				
Type of insulation material		PBT		
UL 94 flammability rating		V-0		
Contact base material		Copper alloy		
Material of contact surface		tinned		
Pin dimensions = d	mm			
Solder eyelet Ø = D	mm			
Solder eyelet Ø tolerance	mm			

Accessories

Note: Refer to the Accessories chapter for additional accessories.

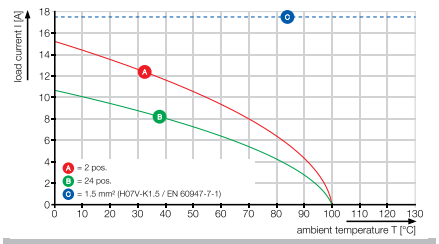
Coding		Order No.
	BL SL 3.5 KO OR	1693430000
	BL SL 3.5 KO SW	1610100000
Screwdriver		
	SDIS 0.4X2.5X75	9008370000
	SDS 0.4X2.5X75	9009030000

Ordering data

Solder pin length

Colour				Orange	Black
Pitch	**3.50 mm**				
Pol.	**L1**	**(inch)**	**Qty.**	**Order No.**	**Order No.**
2	3.50	0.138	100	1638550000	1638780000
3	7.00	0.276	100	1638560000	1638790000
4	10.50	0.413	100	1638570000	1638800000
5	14.00	0.551	50	1638580000	1638810000
6	17.50	0.689	50	1638590000	1638820000
7	21.00	0.827	50	1638600000	1638830000
8	24.50	0.965	50	1638610000	1638840000
9	28.00	1.102	50	1638620000	1638850000
10	31.50	1.240	50	1638630000	1638860000
11	35.00	1.378	50	1638640000	1638870000
12	38.50	1.516	50	1638650000	1638880000
13	42.00	1.654	50	1638660000	1638890000
14	45.50	1.791	50	1638670000	1638900000
15	49.00	1.929	50	1638680000	1638910000
16	52.50	2.067	50	1638690000	1638920000
17	56.00	2.205	20	1638700000	1638930000
18	59.50	2.343	20	1638710000	1638940000
19	63.00	2.480	20	1638720000	1638950000
20	66.50	2.618	20	1638730000	1638960000
21	70.00	2.756	20	1638740000	1638970000
22	73.50	2.894	20	1638750000	1638980000
23	77.00	3.031	20	1638760000	1638990000
24	80.50	3.169	20	1638770000	1639000000

BL 3.50/../90 & /270 - SL 3.50/../90

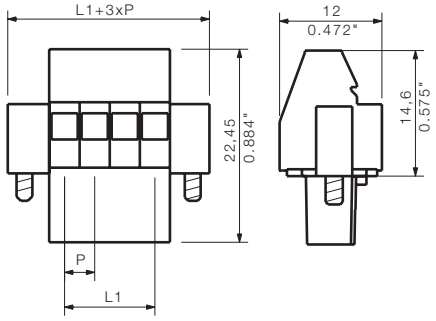


BL 3.50/../90F

with screw flange



Dimensioned drawing



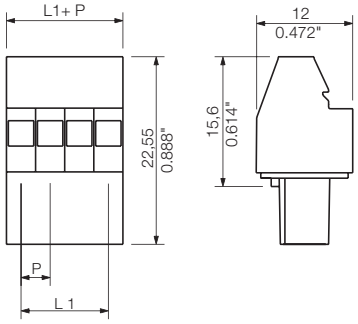
Ordering data

Solder pin length					
Colour				Orange	Black
Pitch	3.50 mm				
Pol.	L1	(inch)	Qty.	Order No.	Order No.
2	3.50	0.138	100	1639010000	1639240000
3	7.00	0.276	100	1639020000	1639250000
4	10.50	0.413	100	1639030000	1639260000
5	14.00	0.551	50	1639040000	1639270000
6	17.50	0.689	50	1639050000	1639280000
7	21.00	0.827	50	1639060000	1639290000
8	24.50	0.965	50	1639070000	1639300000
9	28.00	1.102	50	1639080000	1639310000
10	31.50	1.240	50	1639090000	1639320000
11	35.00	1.378	50	1639100000	1639330000
12	38.50	1.516	50	1639110000	1639340000
13	42.00	1.654	50	1639120000	1639350000
14	45.50	1.791	50	1639130000	1639360000
15	49.00	1.929	50	1639140000	1639370000
16	52.50	2.067	50	1639150000	1639380000
17	56.00	2.205	20	1639160000	1639390000
18	59.50	2.343	20	1639170000	1639400000
19	63.00	2.480	20	1639180000	1639410000
20	66.50	2.618	20	1639190000	1639420000
21	70.00	2.756	20	1639200000	1639430000
22	73.50	2.894	20	1639210000	1639440000
23	77.00	3.031	20	1639220000	1639450000
24	80.50	3.169	20	1639230000	1639460000

BL 3.50/../270



Dimensioned drawing



Ordering data

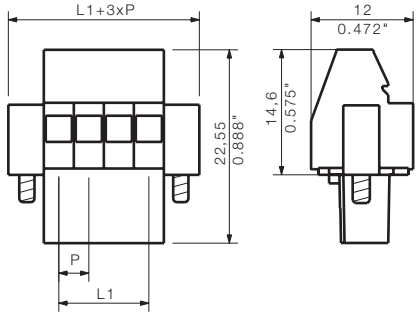
Solder pin length					
Colour				Orange	Black
Pitch	3.50 mm				
Pol.	L1	(inch)	Qty.	Order No.	Order No.
2	3.50	0.138	100	1639470000	1639700000
3	7.00	0.276	100	1639480000	1639710000
4	10.50	0.413	100	1639490000	1639720000
5	14.00	0.551	50	1639500000	1639730000
6	17.50	0.689	50	1639510000	1639740000
7	21.00	0.827	50	1639520000	1639750000
8	24.50	0.965	50	1639530000	1639760000
9	28.00	1.102	50	1639540000	1639770000
10	31.50	1.240	50	1639550000	1639780000
11	35.00	1.378	50	1639560000	1639790000
12	38.50	1.516	50	1639570000	1639800000
13	42.00	1.654	50	1639580000	1639810000
14	45.50	1.791	50	1639590000	1639820000
15	49.00	1.929	50	1639600000	1639830000
16	52.50	2.067	50	1639610000	1639840000
17	56.00	2.205	20	1639620000	1639850000
18	59.50	2.343	20	1639630000	1639860000
19	63.00	2.480	20	1639640000	1639870000
20	66.50	2.618	20	1639650000	1639880000
21	70.00	2.756	20	1639660000	1639890000
22	73.50	2.894	20	1639670000	1639900000
23	77.00	3.031	20	1639680000	1639910000
24	80.50	3.169	20	1639690000	1639920000

BL 3.50/../270F

with screw flange



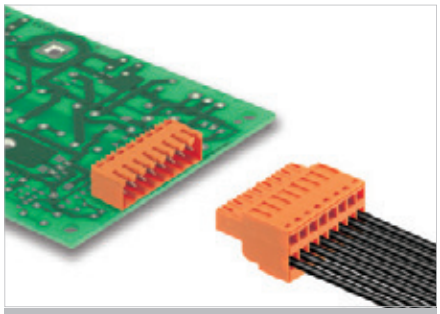
Dimensioned drawing



Ordering data

Solder pin length					
Colour				Orange	Black
Pitch	3.50 mm				
Pol.	L1	(inch)	Qty.	Order No.	Order No.
2	3.50	0.138	100	1639930000	1640160000
3	7.00	0.276	100	1639940000	1640170000
4	10.50	0.413	100	1639950000	1640180000
5	14.00	0.551	50	1639960000	1640190000
6	17.50	0.689	50	1639970000	1640200000
7	21.00	0.827	50	1639980000	1640210000
8	24.50	0.965	50	1639990000	1640220000
9	28.00	1.102	50	1640000000	1640230000
10	31.50	1.240	50	1640010000	1640240000
11	35.00	1.378	50	1640020000	1640250000
12	38.50	1.516	50	1640030000	1640260000
13	42.00	1.654	50	1640040000	1640270000
14	45.50	1.791	50	1640050000	1640280000
15	49.00	1.929	50	1640060000	1640290000
16	52.50	2.067	50	1640070000	1640300000
17	56.00	2.205	20	1640080000	1640310000
18	59.50	2.343	20	1640090000	1640320000
19	63.00	2.480	20	1640100000	1640330000
20	66.50	2.618	20	1640110000	1640340000
21	70.00	2.756	20	1640120000	1640350000
22	73.50	2.894	20	1640130000	1640360000
23	77.00	3.031	20	1640140000	1640370000
24	80.50	3.169	20	1640150000	1640380000

BLZF 3.50/../180



Female plug with tension-clamp wire connection in 3.5 mm pitch. Available with a screw flange (F), release lever (LH) or lock and release lever (LR). They include space for labelling and can be coded.

Product data

IEC: 320 V / 14.5 A / 0.2 - 1.5 mm²
UL: 300 V / 10 A / AWG 26 - 14

For additional articles and information, refer to catalog.weidmueller.com

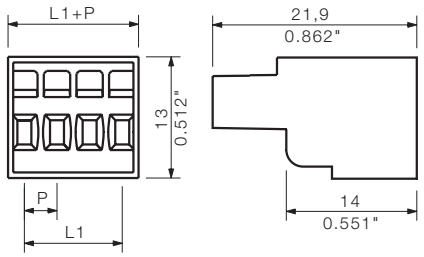
Note:

- Additional colours on request
- Gold-plated contact surfaces on request
- Rated current related to rated cross-section & min. No. of poles.
- Max. outer diameter of the conductor: 2.9 mm
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- Crimp shape A for wire-end ferrules with crimping tools PZ 1,5 (order no. 9005990000) or PZ 6/5 (order no. 9011460000) for larger wire cross-sections recommended.
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

BLZF 3.50/../180



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm²	0.13...1.5		
Solid core H05(07) V-U	**mm²**	**0.2...1.5**		
Stranded H07 V-R				
Flexible H05(07) V-K	mm²	0.2...1.5		
Flexible with ferrule	mm²	0.2...1.5		
Ferrule with plastic collar	mm²	0.2...1		
Stripping length	mm	10		
Screwdriver blade	mm	0.4 x 2.5		
According to norm		DIN 5264-A		
Tightening torque range	Nm			
Rated current, max.	**A**	**14.5**		**12**
At ambient temperature		20°C		40°C
For conductor cross-section	mm²	1.5		
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	**V**	**160**	**160**	**320**
Rated impulse voltage	kV	2.5	2.5	2.5
UL / CUL (Use Group)		**B**	**C**	**D**
Rated voltage	**V**	**300**		**300**
Rated current	**A**	**10**		**10**
AWG conductor	**AWG**	**26-14**		
CSA (Use Group)		**B**	**C**	**D**
Rated voltage	V	300		300
Rated current	A	10		10
AWG conductor	AWG	26-14		
General data				
Type of insulation material		PBT		
UL 94 flammability rating		V-0		
Contact base material		Copper alloy		
Material of contact surface		tinned		
Pin dimensions = d	mm			
Solder eyelet Ø = D	mm			
Solder eyelet Ø tolerance	mm			

Accessories

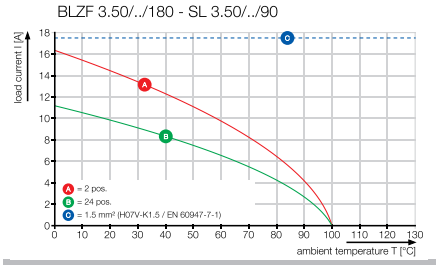
Note: Refer to the Accessories chapter for additional accessories.

Coding		Order No.
	BL SL 3.5 KO OR	1693430000
	BL SL 3.5 KO SW	1610100000
Strain relief		
	BL 3.5 ZE 3 OR	1629680000
	BL 3.5 ZE 3 SW	1627820000
	BL 3.5 ZE 8 OR	1629690000
	BL 3.5 ZE 8 SW	1627830000
Screwdriver		
	SDS 0.4X2.5X75	9009030000
Crimping tool		
	PZ 1.5	9005990000
	PZ 6/5	9011460000

Ordering data

Solder pin length

Colour				Orange	Black
Pitch	**3.50 mm**				
Pol.	L1	(inch)	Qty.	Order No.	Order No.
2	3.50	0.138	100	1690190000	1690420000
3	7.00	0.276	100	1690200000	1690430000
4	10.50	0.413	100	1690210000	1690440000
5	14.00	0.551	50	1690220000	1690450000
6	17.50	0.689	50	1690230000	1690460000
7	21.00	0.827	50	1690240000	1690470000
8	24.50	0.965	50	1690250000	1690480000
9	28.00	1.102	50	1690260000	1690490000
10	31.50	1.240	50	1690270000	1690500000
11	35.00	1.378	50	1690280000	1690510000
12	38.50	1.516	50	1690290000	1690520000
13	42.00	1.654	50	1690300000	1690530000
14	45.50	1.791	50	1690310000	1690540000
15	49.00	1.929	50	1690320000	1690550000
16	52.50	2.067	50	1690330000	1690560000
17	56.00	2.205	20	1690340000	1690570000
18	59.50	2.343	20	1690350000	1690580000
19	63.00	2.480	20	1690360000	1690590000
20	66.50	2.618	20	1690370000	1690600000
21	70.00	2.756	20	1690380000	1690610000
22	73.50	2.894	20	1690390000	1690620000
23	77.00	3.031	20	1690400000	1690630000
24	80.50	3.169	20	1690410000	1690640000

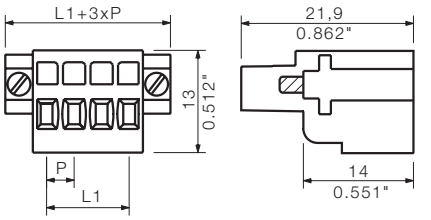


BLZF 3.50/../180F

with screw flange



Dimensioned drawing



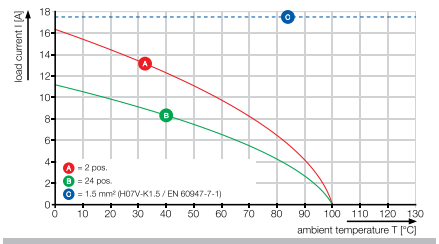
Ordering data

Solder pin length

Colour				Orange	Black
Pitch	**3.50 mm**				
Pol.	L1	(inch)	**Qty.**	**Order No.**	**Order No.**
2	3.50	0.138	100	**1690880000**	**1691110000**
3	7.00	0.276	100	**1690890000**	**1691120000**
4	10.50	0.413	100	**1690900000**	**1691130000**
5	14.00	0.551	50	**1690910000**	**1691140000**
6	17.50	0.689	50	**1690920000**	**1691150000**
7	21.00	0.827	50	**1690930000**	**1691160000**
8	24.50	0.965	50	**1690940000**	**1691170000**
9	28.00	1.102	50	**1690950000**	**1691180000**
10	31.50	1.240	50	**1690960000**	**1691190000**
11	35.00	1.378	50	**1690970000**	**1691200000**
12	38.50	1.516	50	**1690980000**	**1691210000**
13	42.00	1.654	50	**1690990000**	**1691220000**
14	45.50	1.791	50	**1691000000**	**1691230000**
15	49.00	1.929	50	**1691010000**	**1691240000**
16	52.50	2.067	50	**1691020000**	**1691250000**
17	56.00	2.205	20	**1691030000**	**1691260000**
18	59.50	2.343	20	**1691040000**	**1691270000**
19	63.00	2.480	20	**1691050000**	**1691280000**
20	66.50	2.618	20	**1691060000**	**1691290000**
21	70.00	2.756	20	**1691070000**	**1691300000**
22	73.50	2.894	20	**1691080000**	**1691310000**
23	77.00	3.031	20	**1691090000**	**1691320000**
24	80.50	3.169	20	**1691100000**	**1691330000**

Additional deratings curves

BLZF 3.50/../180 - SL 3.50/../180

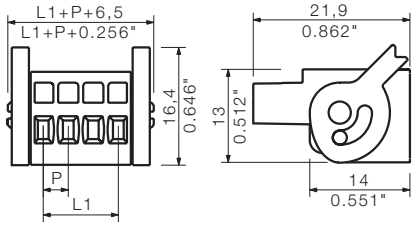


BLZF 3.50/../180LH

with release lever



Dimensioned drawing



Ordering data

Solder pin length

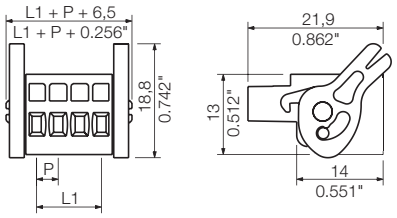
Colour				Orange	Black
Pitch	**3.50 mm**				
Pol.	L1	(inch)	**Qty.**	**Order No.**	**Order No.**
2	3.50	0.138	100	**1691570000**	**1691800000**
3	7.00	0.276	100	**1691580000**	**1691810000**
4	10.50	0.413	100	**1691590000**	**1691820000**
5	14.00	0.551	50	**1691600000**	**1691830000**
6	17.50	0.689	50	**1691610000**	**1691840000**
7	21.00	0.827	50	**1691620000**	**1691850000**
8	24.50	0.965	50	**1691630000**	**1691860000**
9	28.00	1.102	50	**1691640000**	**1691870000**
10	31.50	1.240	50	**1691650000**	**1691880000**
11	35.00	1.378	50	**1691660000**	**1691890000**
12	38.50	1.516	50	**1691670000**	**1691900000**
13	42.00	1.654	50	**1691680000**	**1691910000**
14	45.50	1.791	50	**1691690000**	**1691920000**
15	49.00	1.929	50	**1691700000**	**1691930000**
16	52.50	2.067	50	**1691710000**	**1691940000**
17	56.00	2.205	20	**1691720000**	**1691950000**
18	59.50	2.343	20	**1691730000**	**1691960000**
19	63.00	2.480	20	**1691740000**	**1691970000**
20	66.50	2.618	20	**1691750000**	**1691980000**
21	70.00	2.756	20	**1691760000**	**1691990000**
22	73.50	2.894	20	**1691770000**	**1692000000**
23	77.00	3.031	20	**1691780000**	**1692010000**
24	80.50	3.169	20	**1691790000**	**1692020000**

BLZF 3.50/../180LR

with release latch



Dimensioned drawing



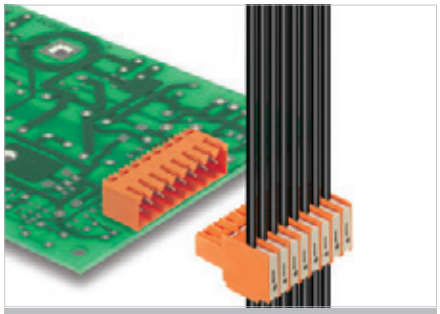
Ordering data

Solder pin length

Colour				Orange
Pitch	**3.50 mm**			
Pol.	L1	(inch)	**Qty.**	**Order No.**
2	3.50	0.138	100	**1379590000**
3	7.00	0.276	100	**1134450000**
4	10.50	0.413	100	**1134460000**
5	14.00	0.551	50	**1134470000**
6	17.50	0.689	50	**1134480000**
7	21.00	0.827	50	**1134490000**
8	24.50	0.965	50	**1134510000**
9	28.00	1.102	50	**1134520000**
10	31.50	1.240	50	**1134530000**
11	35.00	1.378	50	**1134540000**
12	38.50	1.516	50	**1134550000**
13	42.00	1.654	50	**1134560000**
14	45.50	1.791	50	**1134570000**
15	49.00	1.929	50	**1134580000**
16	52.50	2.067	50	**1134590000**

Compatible with SL-SMT 3.50/../90RF

BLIDCB 3.50/../180



Female plug provides quick IDC wire connections in 3.5 mm pitch for bus applications. The female plugs are also available with a flange (F). They include space for labelling and can be coded.

Product data

IEC: 250 V / 6 A / 0.35 - 0.5 mm²
UL: 300 V / 7 A / AWG 22 - 20

For additional articles and information, refer to catalog.weidmueller.com

Note:

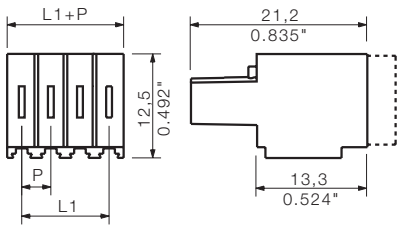
- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- For IDC contact 0.5: cable acc. to DIN EN 60352-4
- AWG conductor: solid, 7 or 19 strands only
- Temperature range -20 to +80 °C
- BLIDC 3.5 and BLIDCB 3.5 conductors „solid"/"flexible" to DIN 47726
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

BLIDCB 3.50/../180

Bus version



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm²	0.32...0.5		
Solid core H05(07) V-U	**mm²**	**0.35...0.5**		
Stranded H07 V-R				
Flexible H05(07) V-K	mm²	0.35...0.5		
Flexible with ferrule	mm²			
Ferrule with plastic collar	mm²			
Stripping length	mm			
Screwdriver blade	mm	0.4 x 2.5		
According to norm		DIN 5264-A		
Tightening torque range	Nm			
Rated current, max.	**A**	**6**		**6**
At ambient temperature		20°C		40°C
For conductor cross-section	mm²	0.5		
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	**V**	**160**	**160**	**250**
Rated impulse voltage	kV	2.5	2.5	2.5
UL / CUL (Use Group)		**B**	**C**	**D**
Rated voltage	**V**	**300**		**300**
Rated current	**A**	**7**		**7**
AWG conductor	**AWG**		**22-20**	
CSA (Use Group)		**B**	**C**	**D**
Rated voltage	V	300		300
Rated current	A	7		7
AWG conductor	AWG		22-20	
General data				
Type of insulation material		PBT		
UL 94 flammability rating		V-0		
Contact base material		CuSn		
Material of contact surface		tinned		
Pin dimensions = d	mm			
Solder eyelet Ø = D	mm			
Solder eyelet Ø tolerance	mm			

Accessories

Note: Refer to the Accessories chapter for additional accessories.

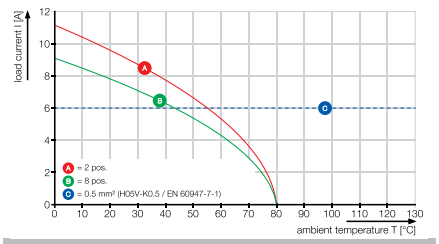
Coding		Order No.
	BL SL 3.5 KO OR	1693430000
	BL SL 3.5 KO SW	1610100000
Mounting block		
	BLIDCB 3.5 ASB	1770310000
Screwdriver		
	SDIS 0.4X2.5X75	9008370000
	SDS 0.4X2.5X75	9009030000

Ordering data

Solder pin length

Colour				Orange	Black
Pitch	**3.50 mm**				
Pol.	L1	(inch)	Qty.	Order No.	Order No.
2	3.50	0.138	10	1751380000	1770670000
3	7.00	0.276	10	1751390000	1770680000
4	10.50	0.413	10	1751400000	1770690000
5	14.00	0.551	10	1751410000	1770700000
6	17.50	0.689	10	1751420000	1770710000
7	21.00	0.827	10	1751430000	1770720000
8	24.50	0.965	10	1751440000	1770730000

BLIDCB 3.5/../180 - SL 3.50/../90

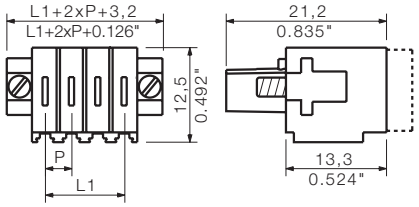


BLIDCB 3.50/../180F

Bus version; with screw flange



Dimensioned drawing

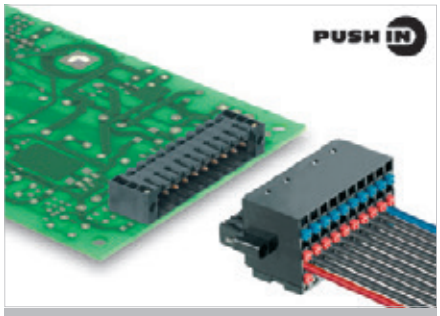


Ordering data

Solder pin length

Colour				Orange	Black
Pitch	**3.50 mm**				
Pol.	L1	(inch)	**Qty.**	**Order No.**	**Order No.**
2	3.50	0.138	10	**1751450000**	**1770740000**
3	7.00	0.276	10	**1751460000**	**1770750000**
4	10.50	0.413	10	**1751470000**	**1770760000**
5	14.00	0.551	10	**1751480000**	**1770770000**
6	17.50	0.689	10	**1751490000**	**1770780000**
7	21.00	0.827	10	**1751500000**	**1770790000**
8	24.50	0.965	10	**1751510000**	**1770800000**

BL-I/O 3.5/../180



Female plug provides pluggable connection level for decentralized I/O electronics. It is used together with male headers in 3.5 mm pitch. Available with a screw flange (F) or a lock and release lever (LR).

Product data

IEC: 200 V / 2.2 A / 0.2 - 1 mm²
UL: 50 V / 5 A / AWG 22 - 16

For additional articles and information, refer to catalog.weidmueller.com

Note:

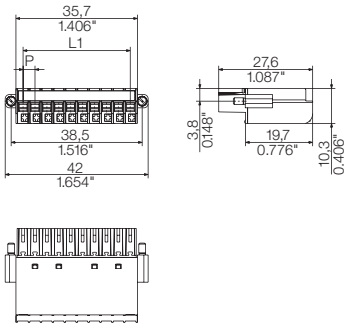
- Additional colours on request
- Crimp shape A for wire-end ferrules with crimping tools PZ 1,5 (order no. 9005990000) or PZ 6/5 (order no. 9011460000) for larger wire cross-sections recommended.
- Total load-carrying capacity of the potential bridges when feeding with 1.5 mm² is max. 17.5 A (so the capacity is 2.18 A for poles 2 through 9)
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- Conductor < 0.2 mm² tinned
- Max. outer diameter of the conductor: 2.9 mm
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

BL-I/O 3.50/10/180F

with screw flange



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm²	0.2...1		
Solid core H05(07) V-U	**mm²**	**0.2...1**		
Stranded H07 V-R				
Flexible H05(07) V-K	mm²	0.2...1		
Flexible with ferrule	mm²	0.2...1		
Ferrule with plastic collar	mm²	0.2...1		
Stripping length	mm	8		
Screwdriver blade	mm	0.4 x 2.5		
According to norm		DIN 5264		
Tightening torque range	Nm			
Rated current, max.	**A**	**2.2**		**2.2**
At ambient temperature		20°C		40°C
For conductor cross-section	mm²	1		
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	**V**	**50**	**160**	**200**
Rated impulse voltage	kV	0.8	2.5	2.5
UL / CUL (Use Group)		**B**	**C**	**D**
Rated voltage	**V**	**50**		**50**
Rated current	**A**	**5**		**5**
AWG conductor	**AWG**		**22-16**	
CSA (Use Group)		**B**	**C**	**D**
Rated voltage	V	50		50
Rated current	A	5		5
AWG conductor	AWG		22-16	
General data				
Type of insulation material			PBT	
UL 94 flammability rating			V-0	
Contact base material			Copper alloy	
Material of contact surface			tinned	
Pin dimensions = d	mm			
Solder eyelet Ø = D	mm			
Solder eyelet Ø tolerance	mm			

Accessories

Note: Refer to the Accessories chapter for additional accessories.

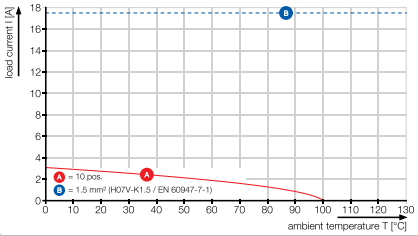
Coding		Order No.
	BL SL 3.5 KO OR	1693430000
	BL SL 3.5 KO SW	1610100000
Screwdriver		
	SDIS 0.4X2.5X75	9008370000
	SDS 0.4X2.5X75	9009030000
Crimping tool		
	PZ 1.5	9005990000
	PZ 6/5	9011460000

Ordering data

Solder pin length

Colour				Light Grey	Black
Pitch	**3.50 mm**				
Pol.	L1	(inch)	Qty.	Order No.	Order No.
10	31.50	1.240	20	**1871690000**	**1779880000**

BL-I/O 3.5/10/180 - SL 3.50/../90

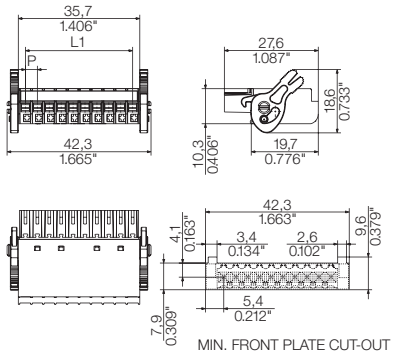


BL-I/O 3.50/10/180LR

with release latch



Dimensioned drawing



Ordering data

Solder pin length

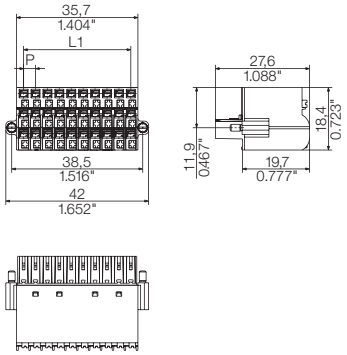
Colour				Black
Pitch	**3.50 mm**			
Pol.	L1	(inch)	**Qty.**	**Order No.**
10	31.50	1.240	20	**1000540000**

BL-I/O 3.50/30/180F

with screw flange



Dimensioned drawing



Ordering data

Solder pin length

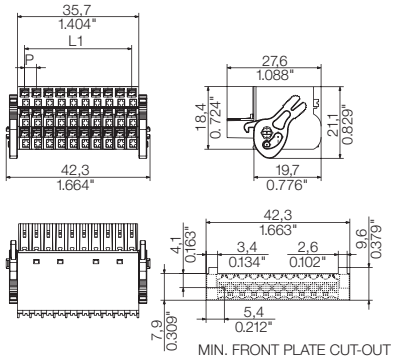
Colour				Light Grey	Black
Pitch	**3.50 mm**				
Pol.	L1	(inch)	**Qty.**	**Order No.**	**Order No.**
30	31.50	1.240	20	**1965910000**	**1779920000**

BL-I/O 3.50/30/180LR

with release latch



Dimensioned drawing

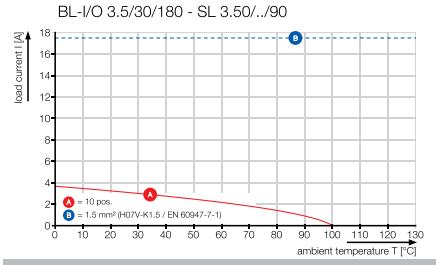


Ordering data

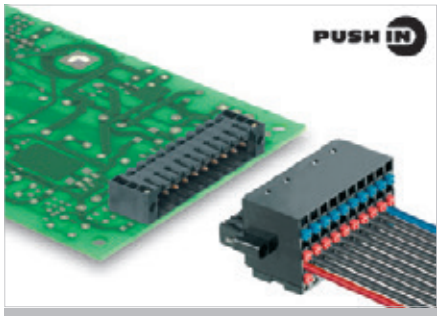
Solder pin length

Colour				Black
Pitch	**3.50 mm**			
Pol.	L1	(inch)	**Qty.**	**Order No.**
30	31.50	1.240	20	**1000550000**

Additional deratings curves



BL-I/O 3.50/../180 PNP LED



Female plug provides pluggable connection level with common minus (PNP sensor) for decentralized I/O electronics with integrated LED display; used together with male headers in 3.5 mm pitch. Available with a screw flange (F) or a lock an release lever (LR).

Product data

IEC: / 2.2 A / 0.2 - 1 mm²
UL: 50 V / 5 A / AWG 22 - 16

For additional articles and information, refer to catalog.weidmueller.com

Note:

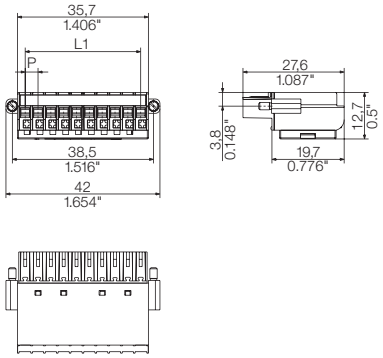
- LED operating voltage: 10 - 30V; LED operating current: 0.8mA at 24V
- Crimp shape A for wire-end ferrules with crimping tools PZ 1,5 (order no. 9005990000) or PZ 6/5 (order no. 9011460000) for larger wire cross-sections recommended.
- Total load-carrying capacity of the potential bridges when feeding with 1.5 mm² is max. 17.5 A (so the capacity is 2.18 A for poles 2 through 9)
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- Conductor < 0.2 mm² tinned
- Max. outer diameter of the conductor: 2.9 mm
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

BL-I/O 3.50/10/180F PNP LED

with screw flange



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm²	0.2...1		
Solid core H05(07) V-U	**mm²**	**0.2...1**		
Stranded H07 V-R				
Flexible H05(07) V-K	mm²	0.2...1		
Flexible with ferrule	mm²	0.2...1		
Ferrule with plastic collar	mm²	0.2...1		
Stripping length	mm	8		
Screwdriver blade	mm	0.4 x 2.5		
According to norm		DIN 5264		
Tightening torque range	Nm			
Rated current, max.	**A**	**2.2**		**2.2**
At ambient temperature		20°C		40°C
For conductor cross-section	mm²	1		
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	**V**	**50**		
Rated impulse voltage	kV	0.8		
UL / CUL (Use Group)		**B**	**C**	**D**
Rated voltage	**V**	**50**		**50**
Rated current	**A**	**5**		**5**
AWG conductor	**AWG**	**22-16**		
CSA (Use Group)		**B**	**C**	**D**
Rated voltage	V	50		50
Rated current	A	5		5
AWG conductor	AWG	22-16		
General data				
Type of insulation material		PBT		
UL 94 flammability rating		V-0		
Contact base material		Copper alloy		
Material of contact surface		tinned		
Pin dimensions = d	mm			
Solder eyelet Ø = D	mm			
Solder eyelet Ø tolerance	mm			

Accessories

Note: Refer to the Accessories chapter for additional accessories.

Coding		Order No.
	BL SL 3.5 KO OR	1693430000
	BL SL 3.5 KO SW	1610100000
Screwdriver		
	SDIS 0.4X2.5X75	9008370000
	SDS 0.4X2.5X75	9009030000
Crimping tool		
	PZ 1.5	9005990000
	PZ 6/5	9011460000

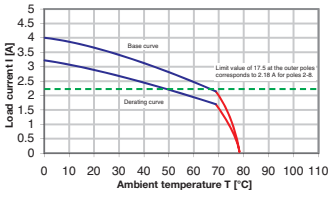
Ordering data

Solder pin length

Colour				Light Grey	Black
Pitch	**3.50 mm**				
Pol.	L1	(inch)	**Qty.**	**Order No.**	**Order No.**
10	31.50	1.240	20	**1965940000**	**1789090000**

LED series resistors designed for 24 V

BL-I/O / 10-pole 24 V



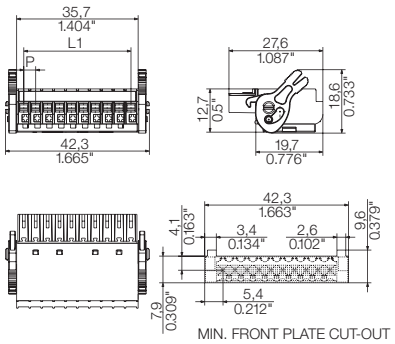
LED series resistors designed for 24 V

BL-I/O 3.50/10/180LR PNP LED

with release latch



Dimensioned drawing

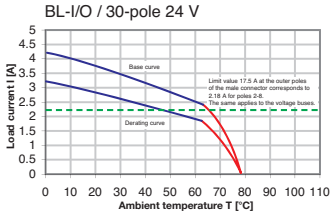


Ordering data

Solder pin length				
Colour				Black
Pitch	3.50 mm			
Pol.	L1	(inch)	Qty.	Order No.
10	31.50	1.240	20	1000560000

LED series resistors designed for 24 V

Additional deratings curves

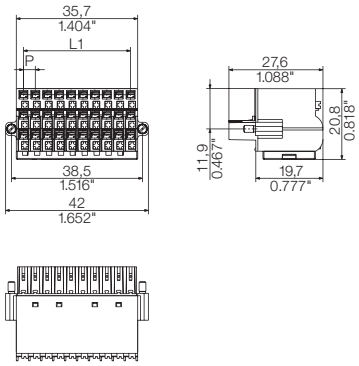


BL-I/O 3.50/30/180F PNP LED

with screw flange



Dimensioned drawing



Ordering data

Solder pin length					
Colour				Light Grey	Black
Pitch	3.50 mm				
Pol.	L1	(inch)	Qty.	Order No.	Order No.
30	31.50	1.240	20	1965970000	1789110000

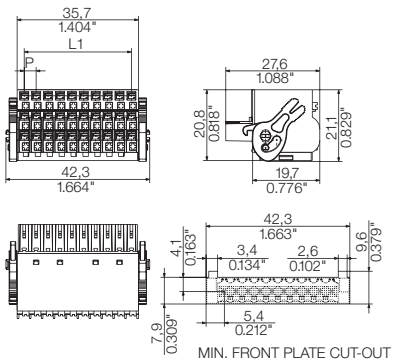
LED series resistors designed for 24 V

BL-I/O 3.50/30/180LR PNP LED

with release latch



Dimensioned drawing

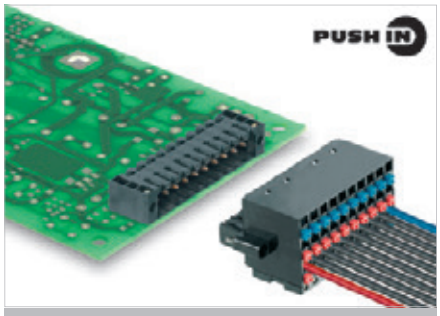


Ordering data

Solder pin length				
Colour				Black
Pitch	3.50 mm			
Pol.	L1	(inch)	Qty.	Order No.
30	31.50	1.240	20	1000570000

LED series resistors designed for 24 V

BL-I/O 3.50/../180 NPN LED



Female plug provides pluggable connection level with common positive (NPN sensor) for decentralized I/O electronics with integrated LED display; used together with male headers in 3.5 mm pitch. Available with a screw flange (F) or a lock an release lever (LR).

Product data

IEC: / 2.2 A / 0.2 - 1 mm²
UL: 50 V / 5 A / AWG 22 - 16

For additional articles and information, refer to catalog.weidmueller.com

Note:

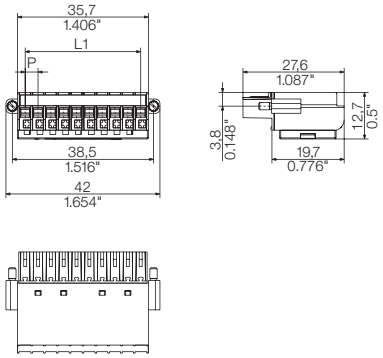
- LED operating voltage: 10 - 30V; LED operating current: 0.8mA at 24V
- Crimp shape A for wire-end ferrules with crimping tools PZ 1,5 (order no. 9005990000) or PZ 6/5 (order no. 9011460000) for larger wire cross-sections recommended.
- Total load-carrying capacity of the potential bridges when feeding with 1.5 mm² is max. 17.5 A (so the capacity is 2.18 A for poles 2 through 9)
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- Conductor < 0.2 mm² tinned
- Max. outer diameter of the conductor: 2.9 mm
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

BL-I/O 3.50/10/180F NPN LED

with screw flange



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm²	0.2...1		
Solid core H05(07) V-U	**mm²**	**0.2...1**		
Stranded H07 V-R				
Flexible H05(07) V-K	mm²	0.2...1		
Flexible with ferrule	mm²	0.2...1		
Ferrule with plastic collar	mm²	0.2...1		
Stripping length	mm	8		
Screwdriver blade	mm	0.4 x 2.5		
According to norm		DIN 5264		
Tightening torque range	Nm			
Rated current, max.	**A**	**2.2**		**2.2**
At ambient temperature		20°C		40°C
For conductor cross-section	mm²	1		
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	**V**	**50**		
Rated impulse voltage	kV	0.8		
UL / CUL (Use Group)		**B**	**C**	**D**
Rated voltage	**V**	**50**		**50**
Rated current	**A**	**5**		**5**
AWG conductor	**AWG**	**22-16**		
CSA (Use Group)		**B**	**C**	**D**
Rated voltage	V	50		50
Rated current	A	5		5
AWG conductor	AWG	22-16		
General data				
Type of insulation material		PBT		
UL 94 flammability rating		V-0		
Contact base material		Copper alloy		
Material of contact surface		tinned		
Pin dimensions = d	mm			
Solder eyelet Ø = D	mm			
Solder eyelet Ø tolerance	mm			

Accessories

Note: Refer to the Accessories chapter for additional accessories.

Coding		Order No.
	BL SL 3.5 KO OR	1693430000
	BL SL 3.5 KO SW	1610100000
Screwdriver		
	SDIS 0.4X2.5X75	9008370000
	SDS 0.4X2.5X75	9009030000
Crimping tool		
	PZ 1.5	9005990000
	PZ 6/5	9011460000

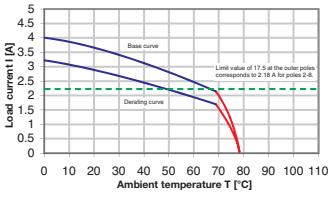
Ordering data

Solder pin length

Colour				Light Grey	Black
Pitch	**3.50 mm**				
Pol.	L1	(inch)	Qty.	Order No.	Order No.
10	31.50	1.240	20	**1965950000**	**1938010000**

LED series resistors designed for 24 V

BL-I/O / 10-pole 24 V



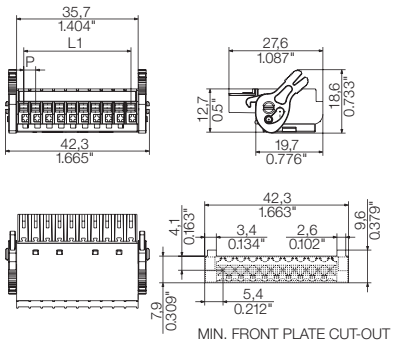
LED series resistors designed for 24 V

BL-I/O 3.50/10/180LR NPN LED

with release latch



Dimensioned drawing

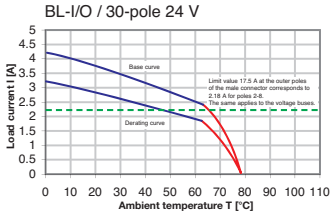


Ordering data

Solder pin length				
Colour				Black
Pitch	3.50 mm			
Pol.	L1	(inch)	Qty.	Order No.
10	31.50	1.240	20	1000580000

LED series resistors designed for 24 V

Additional deratings curves

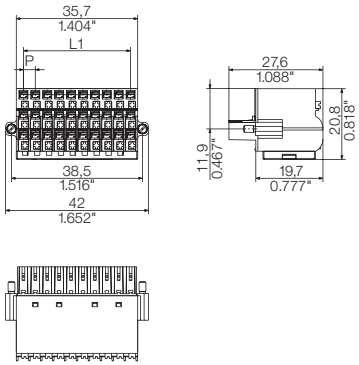


BL-I/O 3.50/30/180F NPN LED

with screw flange



Dimensioned drawing



Ordering data

Solder pin length					
Colour				Light Grey	Black
Pitch	3.50 mm				
Pol.	L1	(inch)	Qty.	Order No.	Order No.
30	31.50	1.240	20	1965980000	1938020000

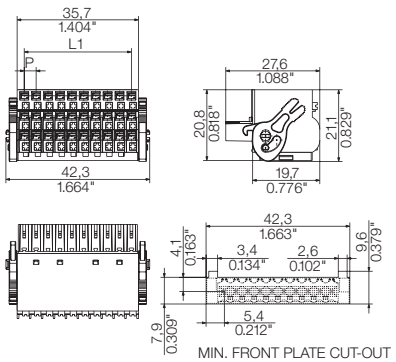
LED series resistors designed for 24 V

BL-I/O 3.50/30/180LR NPN LED

with release latch



Dimensioned drawing



Ordering data

Solder pin length				
Colour				Black
Pitch	3.50 mm			
Pol.	L1	(inch)	Qty.	Order No.
30	31.50	1.240	20	1000590000

LED series resistors designed for 24 V

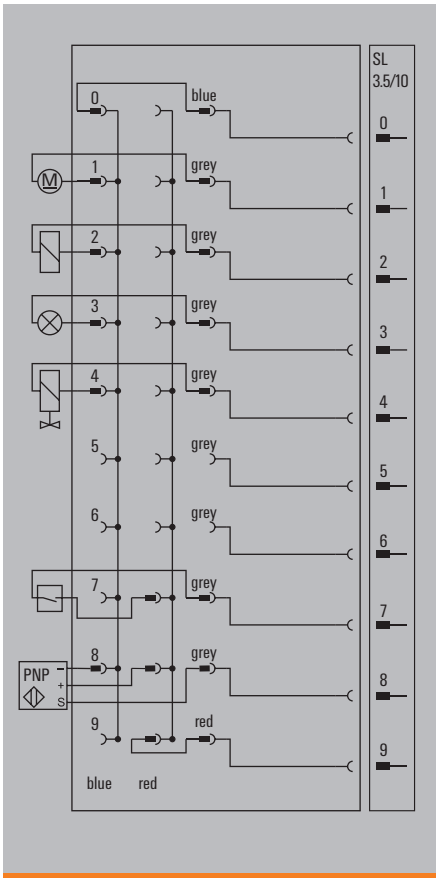
BL-I/O 3.50/../180

BL-I/O 3.5 30-pin

- Pluggable connection terminals for remote I/O electronics
- Directly from the control or industrial PC etc. to the sensor or actuator level
- Significant space savings as well as savings in design time and wiring.

Diagram of BL-I/O 30 pin with SL 3.5 10 pin

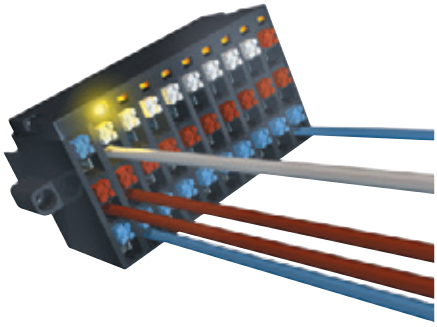
- Direct connection possibilities for sensors and actuators including their power supply
- Can be used for external or internal power supply sources



BL-I/O 3.50/../180 PNP LED

BL-I/O 3.5 30-pin

- Pluggable connection terminals for remote I/O electronics
- Directly from the control or industrial PC etc. to the sensor or actuator level
- Significant space savings as well as savings in design time and wiring.

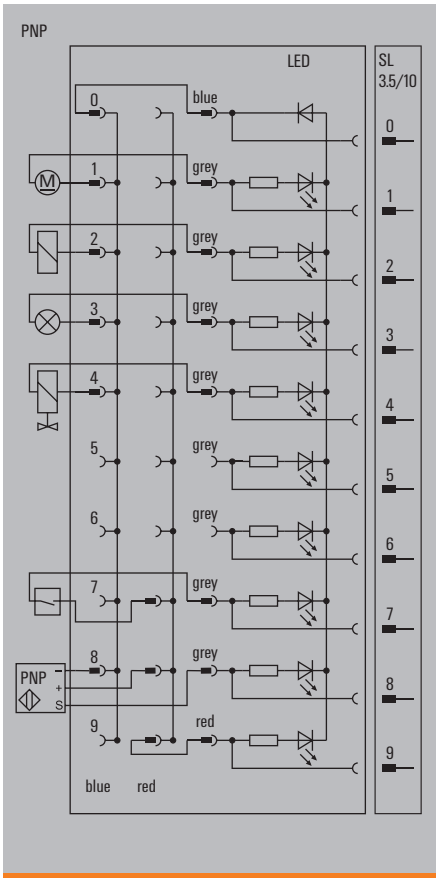


Integrated LED version

- Available for all the BL-I/Os
- Test the sensor or actuator cabling before commissioning the controller
- Eliminates the need for function displays in the housing

Diagram of BL-I/O 30 pin with SL 3.5 10 pin

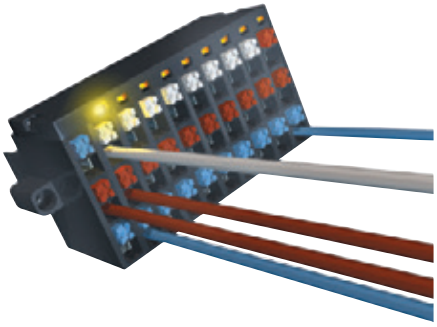
- Direct connection possibilities for sensors and actuators including their power supply
- Can be used for external or internal power supply sources



BL-I/O 3.50/../180 NPN LED

BL-I/O 3.5 30-pin

- Pluggable connection terminals for remote I/O electronics
- Directly from the control or industrial PC etc. to the sensor or actuator level
- Significant space savings as well as savings in design time and wiring.

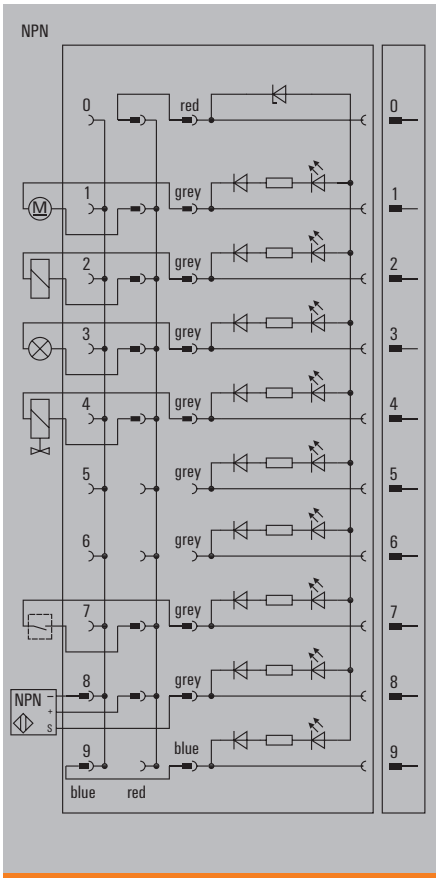


Integrated LED version

- Available for all the BL-I/Os
- Test the sensor or actuator cabling before commissioning the controller
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Diagram of BL-I/O 30 pin with SL 3.5 10 pin

- Direct connection possibilities for sensors and actuators including their power supply
- Can be used for external or internal power supply sources



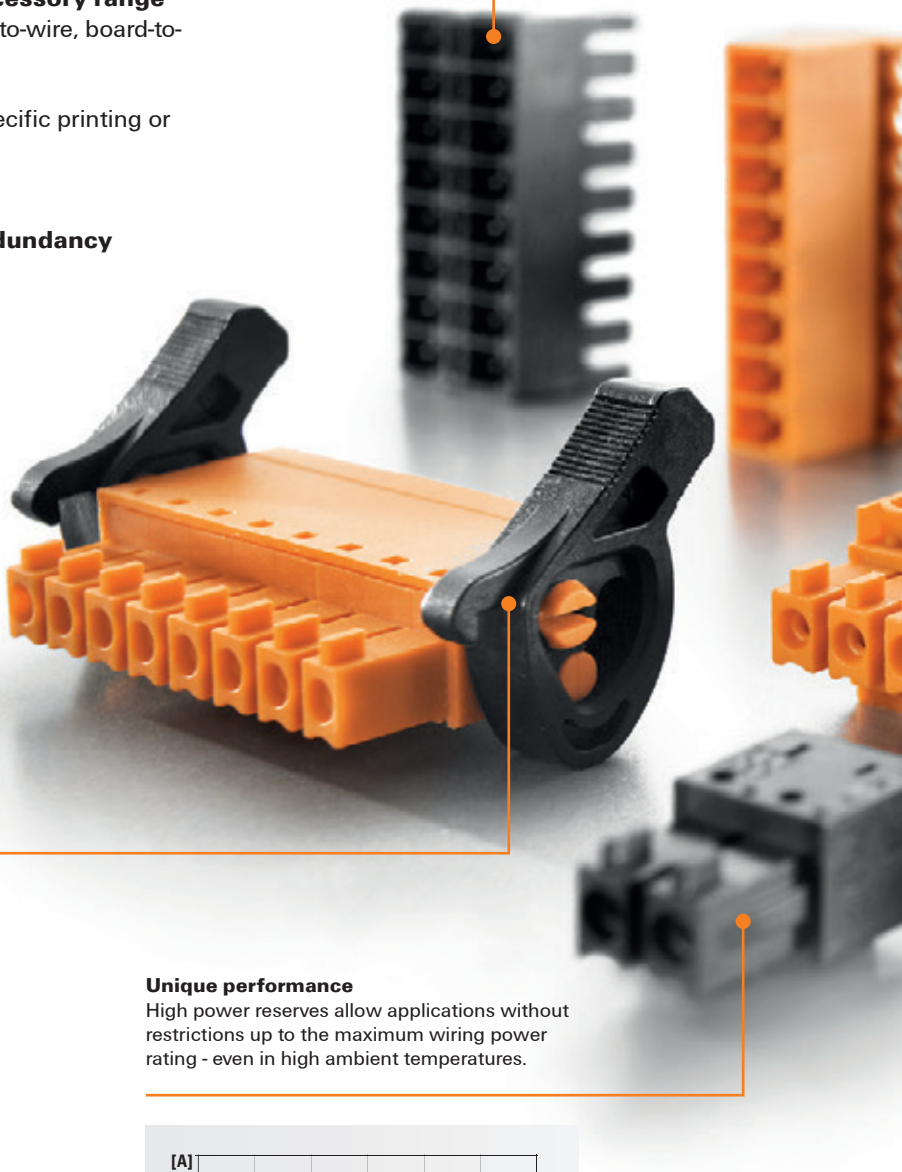
Plug-in connector OMNIMATE Signal 3.81

Opens up new dimensions for your application:

Large variety of products and an extensive accessory range
- All combinations are possible: wire-to-board, wire-to-wire, board-to-board, board-to-wire
- Wide range of reflow ready strips
- Individually configurable with accessories and specific printing or coding
- Compact design to connect 1.5 mm² wires

Unique performance offering high levels of redundancy
- Rated current: 17.5 A
- Up to 65 °C without derating
- Ambient temperature up to 120 °C

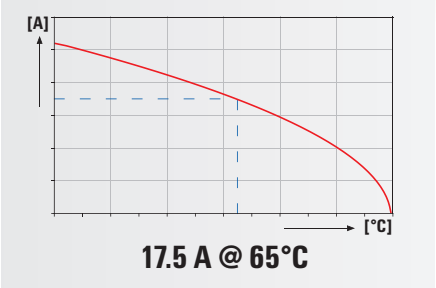
Safe handling characteristics
- Lock & Release lever allows tool-free locking and module-safe loosening
- Vibration resistant PUSH IN connection offers tool free wiring connection
- Proven screw connection



Simple handling
Reliable flange connections are easy to use and protect the electronic modules when they are removed: screw flange, release lever or lock & release lever.



Unique performance
High power reserves allow applications without restrictions up to the maximum wiring power rating - even in high ambient temperatures.

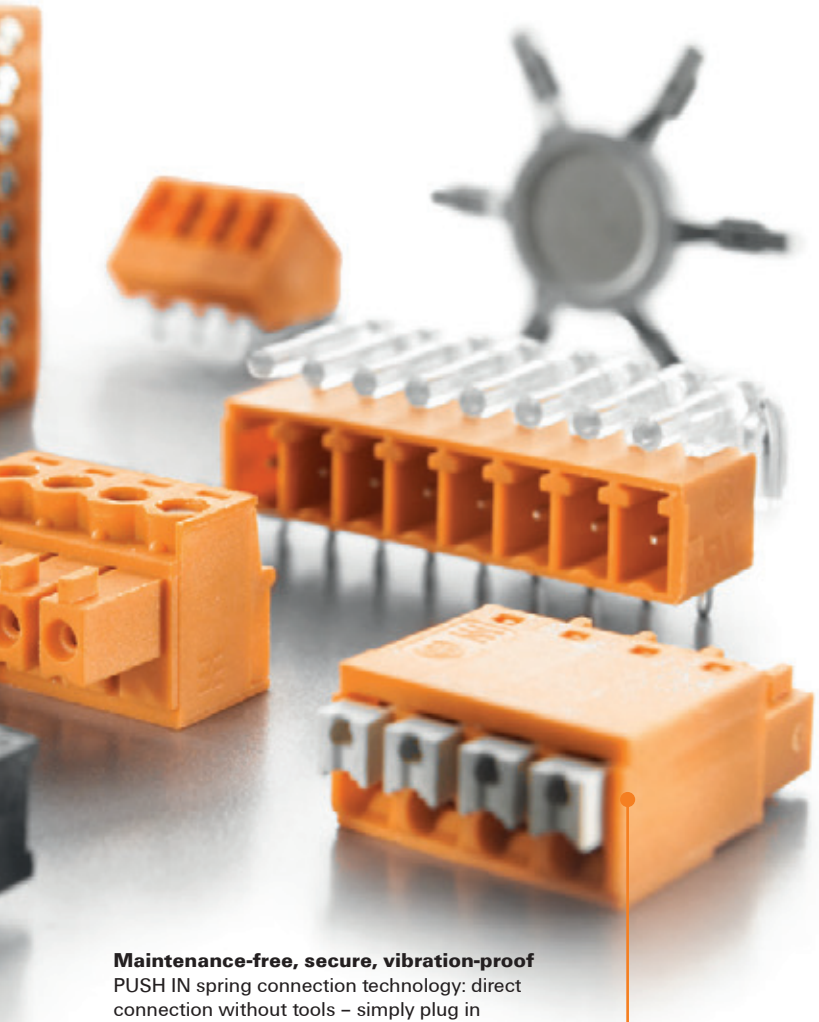


17.5 A @ 65°C

Less space required PUSH IN

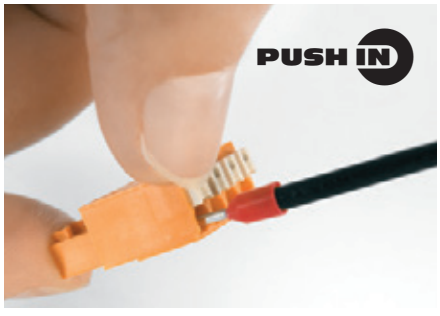
Minimum stack height, maximum clamping force and PUSH IN: the SCDN 3.81 simply handles two 7.9 mm flat BCF 3.81 with 1.5 mm² wire end ferrules.





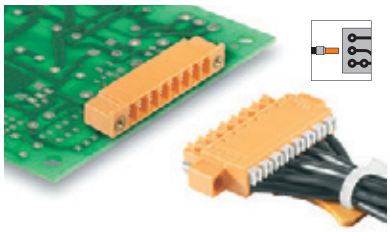
Maintenance-free, secure, vibration-proof

PUSH IN spring connection technology: direct connection without tools – simply plug in the prepared conductors – finished! Intuitive operation using large release buttons.

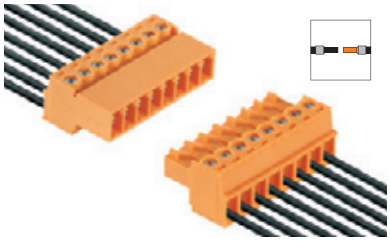


Complete system for all possible combinations and a comprehensive range of accessories

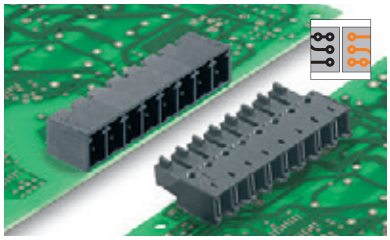
Wire-to-Board



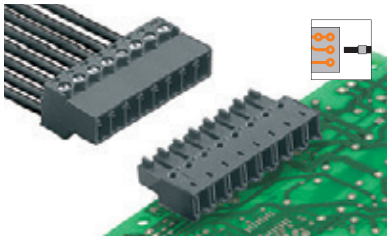
Wire-to-Wire



Board-to-Board



Board-to-Wire



Accessories

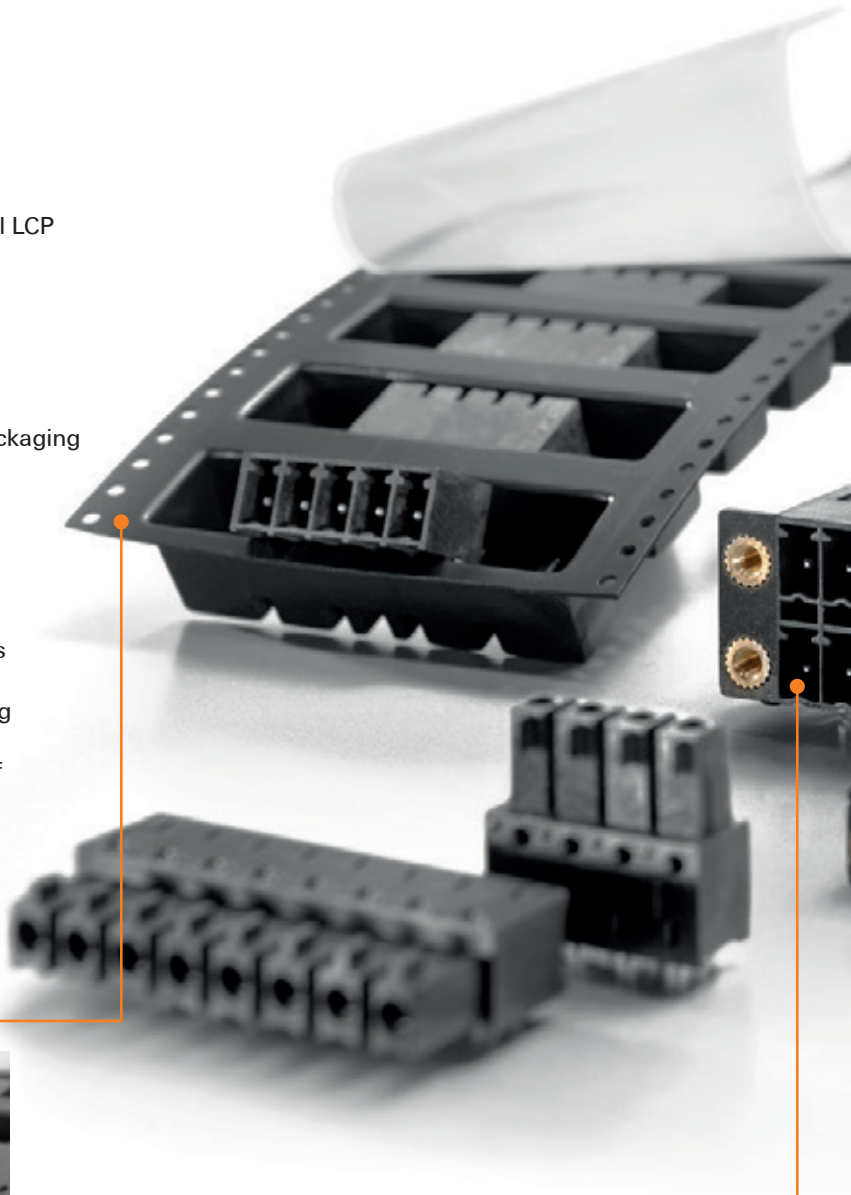
Coding	Light guide	Cover hood
SC-SMT KO GR	display SC FLA	BCZ AH



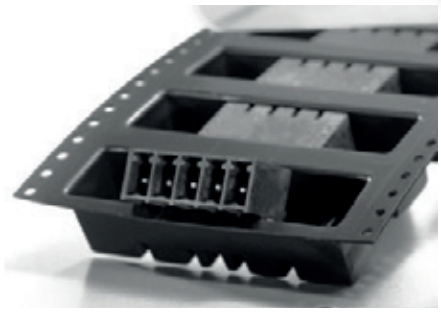
Plug-in connector OMNIMATE Signal 3.81
Brings new dimensions into handling

Best choice for reflow soldering
- Reflow strips made from the high temperature material LCP
- Form at high soldering temperatures stability
- Dimensionally stable
- Can be processed without drying (MSL 1)
- Thermal expansion properties similar to a FR4 PCB

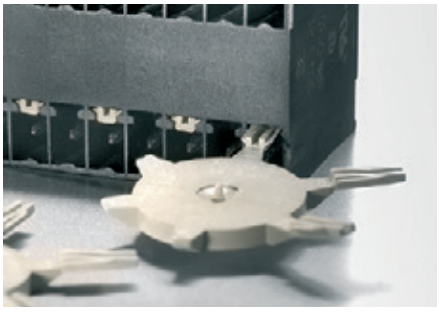
Unique handling
- Suitable for automatic machine handling, antistatic packaging in tape, tray or tube
- Optional Pick & Place pad supports feeder systems
- Solder flange fixes the strip to the PCB without the use of screws
- An optimised pin end which permits AOI (automated optical inspection)
- Variable pin length to support placement on both sides of the PCB
- Integrated spacing bars improve the flow of heat during the solder process
- Free space in the pin area facilitate the development of the solder meniscus.

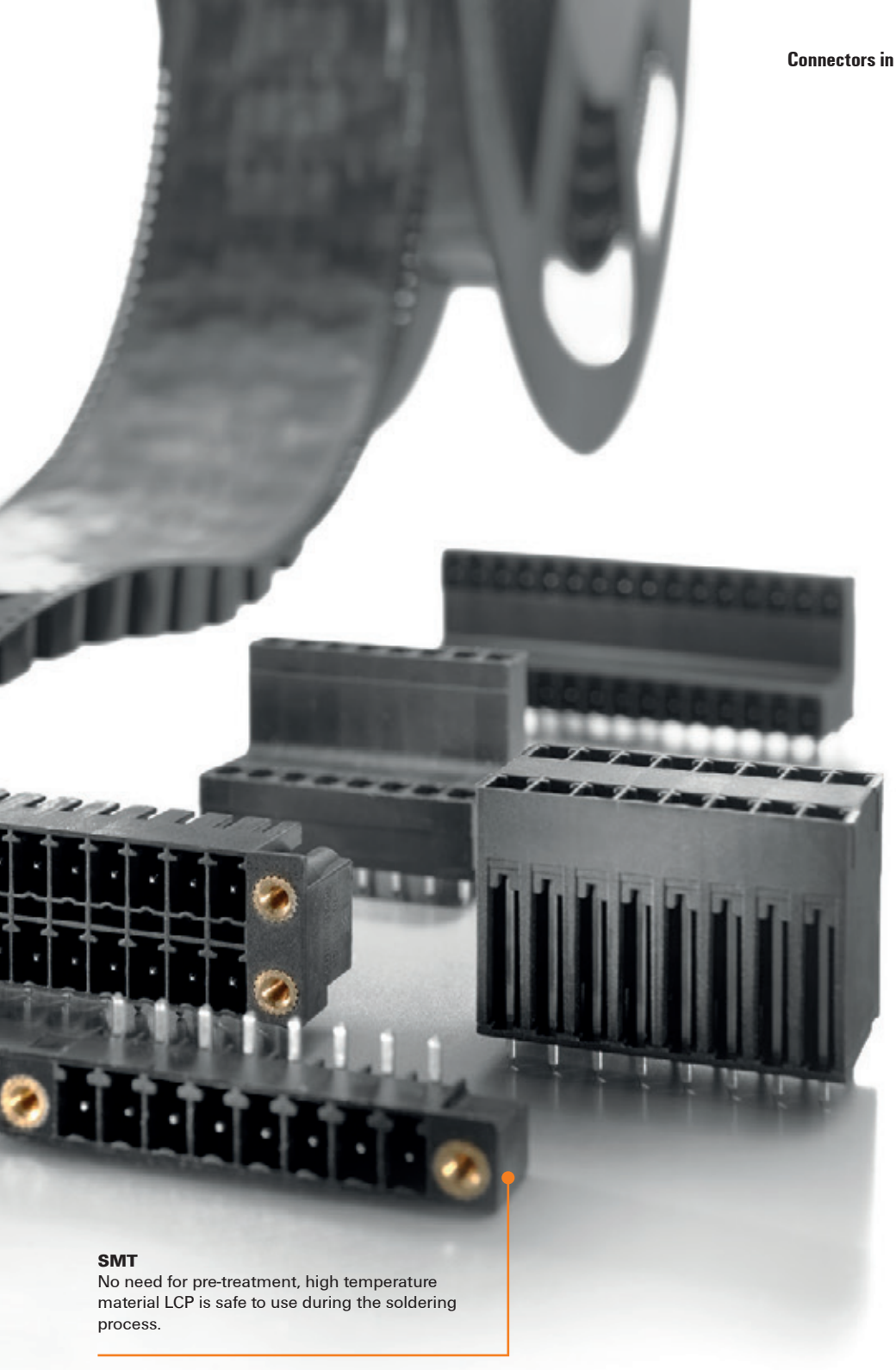


Packaging suitable for use in automated assembly
Standard belt widths for simple integration into the assembly process.

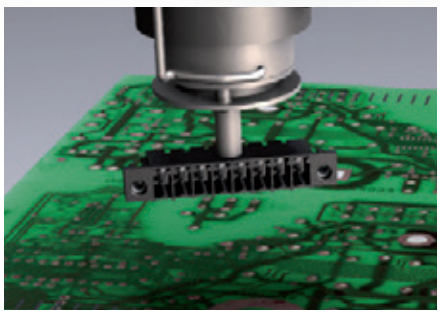


Code in advance – process universally
No additional work required for factory-side reflow-compatible coding.

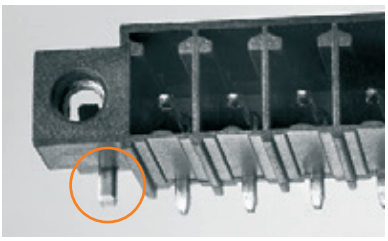




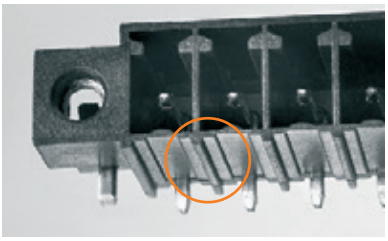
SMT
No need for pre-treatment, high temperature material LCP is safe to use during the soldering process.



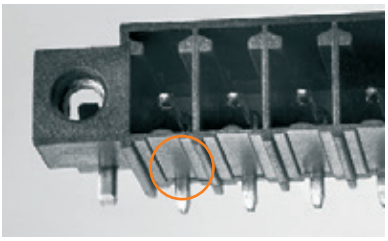
Solder flange pin
Secures to the PCB without a screw



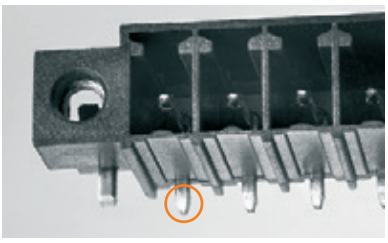
Integrated bars
Optimal airflow during reflow soldering



Rebates in the area of the pin
Space for the development of the solder meniscus



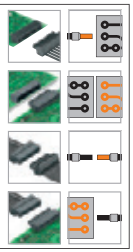
Pin tips
Optimal recognition by the automatic optical inspection device (AOI)



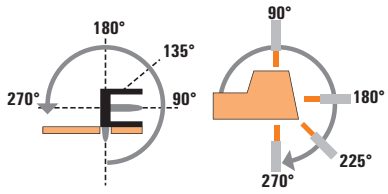
BC/SC 3.81 series

http://www.OMNIMATE.net

= Wire-to-Board
= Board-to-Board
= Wire-to-Wire
= Board-to-Wire



Orientation



Male header

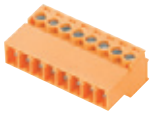


							Levels	1	
							Orientation	90°	180°
							IEC / UL	IEC: 320 V/17.5 A UL: 300 V/10 A	IEC: 320 V/17.5 A UL: 300 V/10 A
								Solder connection	
							Type	**SC**	**SC**
							Flange options	G/F	G/F
							Page	C.84	C.86
								Reflow solder connection	
							Type	**SC-SMT**	**SC-SMT**
							Flange options	G/LF	G/LF
							Page	C.66	C.68
Female plug	Screw		**BCZ**	180°	(G)/F/LR	IEC: 320 V/17.5 A/0.2 - 1.5 mm² UL: 300 V/10 A/AWG 28 - 16	C.106	○	○
			**BCZ**	90°	(G)/F	IEC: 320 V/17.5 A/0.2 - 1.5 mm² UL: 300 V/10 A/AWG 28 - 16	C.110	○	○
			**BCZ**	270°	(G)/F	IEC: 320 V/17.5 A/0.2 - 1.5 mm² UL: 300 V/10 A/AWG 28 - 16	C.111	○	○
	PUSH IN		**BCF**	180°	(G)/F/LR	IEC: 320 V/17.5 A/0.14 - 1.5 mm² UL: 300 V/10 A/AWG 24 - 16	C.112	○	○
Female header	Solder connection		**BCL SMT**	90°	(G)/F/LFI	IEC: 320 V/17.5 A UL: 300 V/10 A	C.116	●	●
			**BCL SMT**	180°	(G)/LFI	IEC: 320 V/17.5 A UL: 300 V/10 A	C.118	●	●

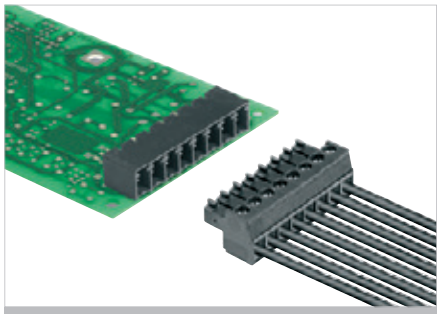
Female plug and header:
(G)* = Closed (without flange)
F = Flange with screw
LFI = Inverted solder flange with nut
LR = Lock & Release lever

Male header and plug:
G = Closed (without flange)
F = Screw flange with nut
LF = Solder flange with nut
LR = Lock & Release lever
FI = Inverted flange with screw

* not included in the article description

Male header							Male plug
							
1			2				1
135°	270°	90°	180°	90°	90°	180°	180°
IEC: 320 V/17.5 A UL: 300 V/10 A	IEC: 320 V/17.5 A UL: 300 V/10 A	IEC: 320 V/17.5 A UL: 300 V/10 A	IEC: 320 V/17.5 A UL: 300 V/10 A	IEC: 320 V/17.5 A UL: 300 V/10 A	IEC: 320 V/17.5 A UL: 300 V/10 A	IEC: 320 V/17.5 A UL: 300 V/10 A	IEC: 320 V/17.5 A/ 0.2 - 1.5 mm² UL: 300 V/10 A/ AWG 28 - 16
Solder connection							Screw
SC	**SC**	**SCD**	**SCD**	**SCDN**	**SCDV**	**SCDV**	**SCZ**
G/F	G/F	G/F	G/F	G/F	G/F	G/F	G/F/FI/LR
C.88	C.90	C.92	C.94	C.96	C.98	C.100	
Reflow solder connection							
SC-SMT	**SC-SMT**	**SCD-THR**	**SCD-THR**	**SCDN-THR**	**SCDV-THR**	**SCDV-THR**	
G/LF	G/F	G/F	G/F	G/F	G/F	G/F	
C.70	C.72	C.74	C.76	C.78	C.80	C.82	C.102
○	○	○	○		○	○	●
○	○	○	○		○	○	●
○	○	○	○		○	○	●
○	○	○	○	○	○	○	●
●	●	●	●	●	●	●	■
●	●	●	●	●	●	●	■

SC-SMT 3.81/../90



High-temperature-resistant male header.
- Plugging direction parallel to PCB
- Available in closed (G) and with solder flange (LF).
- Packed either in box (BX) or on anti-static roll (tape-on-reel, RL)
- Pin length of either 1.5 mm or 3.2 mm

Weidmüller's 3.81 mm pitch (0.15 inch) plug-in connectors are compatible with the layouts of standard connectors and offer space for labelling and coding.

Product data

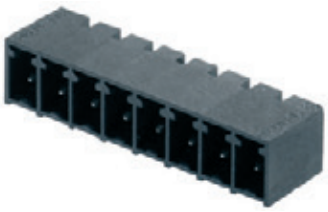
IEC: 320 V / 17.5 A
UL: 300 V / 10 A

For additional articles and information, refer to catalog.weidmueller.com

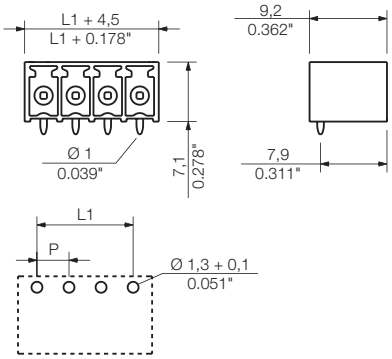
Note:
- Gold-plated contact surfaces on request
- Rated current related to rated cross-section & min. No. of poles.
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- P on drawing = pitch

SC-SMT 3.81/../90G Box

closed side



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm²			
Solid core H05(07) V-U	**mm²**			
Stranded H07 V-R				
Flexible H05(07) V-K	mm²			
Flexible with ferrule	mm²			
Ferrule with plastic collar	mm²			
Stripping length	mm			
Screwdriver blade	mm			
According to norm				
Tightening torque range	Nm			
Rated current, max.	**A**	**17.5**		**17**
At ambient temperature		20°C		40°C
For conductor cross-section	mm²			
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	**V**	**160**	**160**	**320**
Rated impulse voltage	kV	2.5	2.5	2.5
UL / CUL (Use Group)		**B**	**C**	**D**
Rated voltage	**V**	**300**		**300**
Rated current	**A**	**10**		**10**
AWG conductor	**AWG**		-	
CSA (Use Group)		**B**	**C**	**D**
Rated voltage	V	300		300
Rated current	A	10		10
AWG conductor	AWG		-	
General data				
Type of insulation material		LCP GF		
UL 94 flammability rating		V-0		
Contact base material		Copper alloy		
Material of contact surface		tinned		
Pin dimensions = d	mm	1.0, Octagonal		
Solder eyelet Ø = D	mm	1.3		
Solder eyelet Ø tolerance	mm	+ 0,1		

Accessories

Note: Refer to the Accessories chapter for additional accessories.

Coding		Order No.
	SC-SMT 3.81 KO GR	**1968900000**

Ordering data

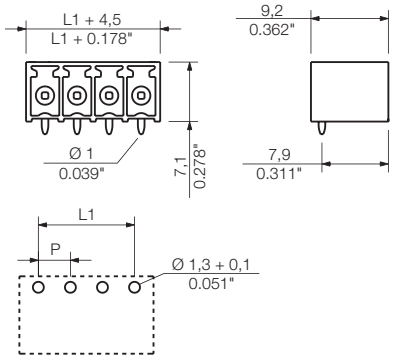
Solder pin length				1.5 mm	3.2 mm
Colour				Black	Black
Pitch	**3.81 mm**				
Pol.	L1	(inch)	**Qty.**	**Order No.**	**Order No.**
2	3.81	0.150	50	**1862960000**	**1862460000**
3	7.62	0.300	50	**1862970000**	**1862480000**
4	11.43	0.450	50	**1862980000**	**1862490000**
5	15.24	0.600	50	**1862990000**	**1862500000**
6	19.05	0.750	50	**1863000000**	**1862510000**
7	22.86	0.900	50	**1863040000**	**1862520000**
8	26.67	1.050	50	**1863050000**	**1862530000**
9	30.48	1.200	50	**1863060000**	**1862540000**
10	34.29	1.350	50	**1863070000**	**1862550000**
11	38.10	1.500	50	**1863080000**	**1862570000**
12	41.91	1.650	50	**1863090000**	**1862730000**
13	45.72	1.800	50	**1863100000**	**1862740000**
14	49.53	1.950	50	**1863110000**	**1862760000**
15	53.34	2.100	50	**1863120000**	**1862780000**
16	57.15	2.250	50	**1863130000**	**1862800000**

SC-SMT 3.81/../90G Tape

closed side; tape-on-reel



Dimensioned drawing



Ordering data

Solder pin length				1.5 mm	3.2 mm
Colour				Black	Black
Pitch	3.81 mm				
Pol.	L1	(inch)	Qty.	Order No.	Order No.
2	3.81	0.150	400	1863140000	1862810000
3	7.62	0.300	400	1863150000	1862840000
4	11.43	0.450	400	1863160000	1862860000
5	15.24	0.600	400	1863170000	1862870000
6	19.05	0.750	400	1863180000	1862880000
7	22.86	0.900	400	1863190000	1862890000
8	26.67	1.050	400	1863200000	1862900000
9	30.48	1.200	400	1863210000	1862910000
10	34.29	1.350	400	1863220000	1862930000

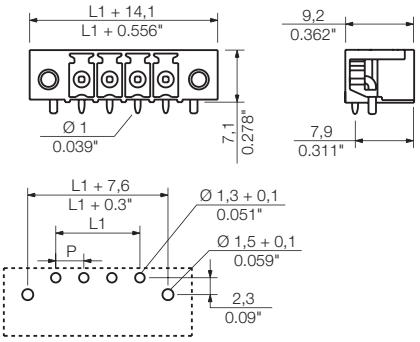
Tape widths: 32, 44, 56, 72, 88

SC-SMT 3.81/../90LF Box

with solder flange



Dimensioned drawing



Ordering data

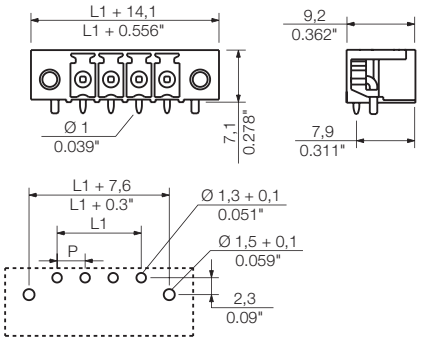
Solder pin length				1.5 mm	3.2 mm
Colour				Black	Black
Pitch	3.81 mm				
Pol.	L1	(inch)	Qty.	Order No.	Order No.
2	3.81	0.150	50	1862560000	1863670000
3	7.62	0.300	50	1862580000	1863680000
4	11.43	0.450	50	1862590000	1863690000
5	15.24	0.600	50	1862600000	1863700000
6	19.05	0.750	50	1862610000	1863710000
7	22.86	0.900	50	1862620000	1863740000
8	26.67	1.050	50	1862630000	1863760000
9	30.48	1.200	50	1862640000	1863770000
10	34.29	1.350	50	1862650000	1863790000
11	38.10	1.500	50	1862660000	1863810000
12	41.91	1.650	50	1862670000	1863820000
13	45.72	1.800	50	1862680000	1863840000
14	49.53	1.950	50	1862690000	1863850000
15	53.34	2.100	50	1862700000	1863860000
16	57.15	2.250	50	1862710000	1863870000

SC-SMT 3.81/../90LF Tape

with solder flange; tape-on-reel



Dimensioned drawing

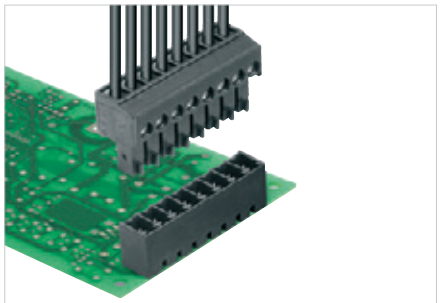


Ordering data

Solder pin length				1.5 mm	3.2 mm
Colour				Black	Black
Pitch	3.81 mm				
Pol.	L1	(inch)	Qty.	Order No.	Order No.
2	3.81	0.150	400	1862720000	1863890000
3	7.62	0.300	400	1862750000	1863970000
4	11.43	0.450	400	1862770000	1863980000
5	15.24	0.600	400	1862790000	1863990000
6	19.05	0.750	400	1862820000	1864000000
7	22.86	0.900	400	1862830000	1864010000
8	26.67	1.050	400	1862850000	1864020000

Tape widths: 32, 44, 56, 72, 88

SC-SMT 3.81/../180



High-temperature-resistant male header.
- Plugging direction is perpendicular to PCB
- Available in closed (G) and with solder flange (LF).
- Packed either in box (BX) or on anti-static roll (tape-on-reel, RL)
- Pin length of either 1.5 mm or 3.2 mm

Weidmüller's 3.81 mm pitch (0.15 inch) plug-in connectors are compatible with the layouts of standard connectors and offer space for labelling and coding.

Product data

IEC: 320 V / 17.5 A
UL: 300 V / 10 A

For additional articles and information, refer to catalog.weidmueller.com

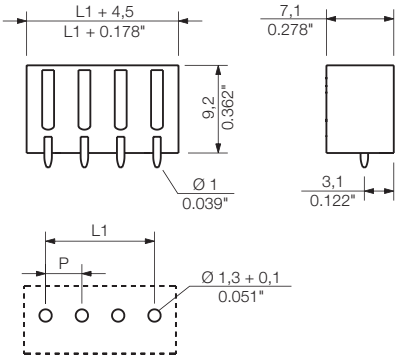
Note:
- Gold-plated contact surfaces on request
- Rated current related to rated cross-section & min. No. of poles.
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- P on drawing = pitch

SC-SMT 3.81/../180G Box

closed side



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm²			
Solid core H05(07) V-U	**mm²**			
Stranded H07 V-R				
Flexible H05(07) V-K	mm²			
Flexible with ferrule	mm²			
Ferrule with plastic collar	mm²			
Stripping length	mm			
Screwdriver blade	mm			
According to norm				
Tightening torque range	Nm			
Rated current, max.	**A**	**17.5**		**17**
At ambient temperature		20°C		40°C
For conductor cross-section	mm²			
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	**V**	**160**	**160**	**320**
Rated impulse voltage	kV	2.5	2.5	2.5
UL / CUL (Use Group)		**B**	**C**	**D**
Rated voltage	**V**	**300**		**300**
Rated current	**A**	**10**		**10**
AWG conductor	**AWG**		-	
CSA (Use Group)		**B**	**C**	**D**
Rated voltage	V	300		300
Rated current	A	10		10
AWG conductor	AWG		-	
General data				
Type of insulation material		LCP GF		
UL 94 flammability rating		V-0		
Contact base material		Copper alloy		
Material of contact surface		tinned		
Pin dimensions = d	mm	1.0, Octagonal		
Solder eyelet Ø = D	mm	1.3		
Solder eyelet Ø tolerance	mm	+ 0,1		

Accessories

Note: Refer to the Accessories chapter for additional accessories.

Coding		Order No.
	SC-SMT 3.81 KO GR	1968900000

Ordering data

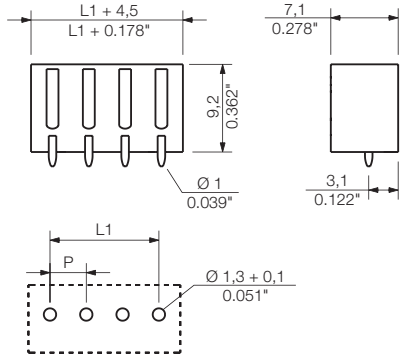
Solder pin length				1.5 mm	3.2 mm
Colour				Black	Black
Pitch	**3.81 mm**				
Pol.	L1	(inch)	Qty.	Order No.	Order No.
2	3.81	0.150	50	1863720000	1862920000
3	7.62	0.300	50	1863730000	1862940000
4	11.43	0.450	50	1863750000	1862950000
5	15.24	0.600	50	1863780000	1863010000
6	19.05	0.750	50	1863830000	1863020000
7	22.86	0.900	50	1863880000	1863030000
8	26.67	1.050	50	1863900000	1863240000
9	30.48	1.200	50	1863910000	1863270000
10	34.29	1.350	50	1863920000	1863290000
11	38.10	1.500	50	1863930000	1863320000
12	41.91	1.650	50	1863940000	1863330000
13	45.72	1.800	50	1863950000	1863350000
14	49.53	1.950	50	1863960000	1863370000
15	53.34	2.100	50	1864030000	1863400000
16	57.15	2.250	50	1864040000	1863420000

SC-SMT 3.81/../180G Tape

closed side; tape-on-reel



Dimensioned drawing



Ordering data

Solder pin length				1.5 mm	3.2 mm
Colour				Black	Black
Pitch	3.81 mm				
Pol.	L1	(inch)	Qty.	Order No.	Order No.
2	3.81	0.150	300	1864050000	1863450000
3	7.62	0.300	300	1864060000	1863470000
4	11.43	0.450	300	1864290000	1863490000
5	15.24	0.600	300	1864300000	1863540000
6	19.05	0.750	300	1864310000	1863560000
7	22.86	0.900	300	1864320000	1863570000
8	26.67	1.050	300	1864330000	1863590000
9	30.48	1.200	300	1864340000	1863630000
10	34.29	1.350	300	1864350000	1863660000

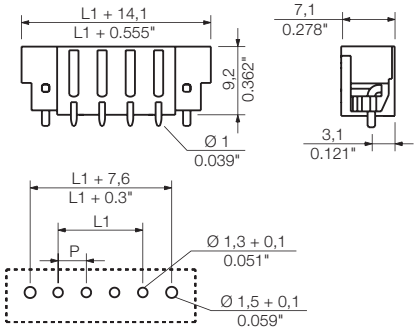
Tape widths: 32, 44, 56, 72, 88

SC-SMT 3.81/../180LF Box

with solder flange



Dimensioned drawing



Ordering data

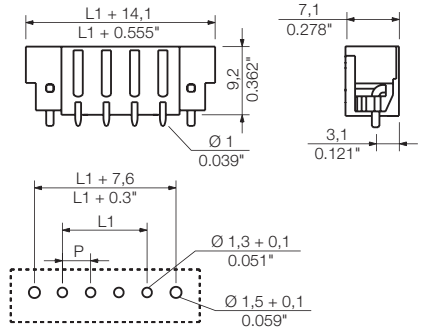
Solder pin length				1.5 mm	3.2 mm
Colour				Black	Black
Pitch	3.81 mm				
Pol.	L1	(inch)	Qty.	Order No.	Order No.
2	3.81	0.150	50	1864070000	1863230000
3	7.62	0.300	50	1864080000	1863250000
4	11.43	0.450	50	1864090000	1863260000
5	15.24	0.600	50	1864100000	1863280000
6	19.05	0.750	50	1864110000	1863300000
7	22.86	0.900	50	1864120000	1863310000
8	26.67	1.050	50	1864130000	1863340000
9	30.48	1.200	50	1864140000	1863360000
10	34.29	1.350	50	1864150000	1863380000
11	38.10	1.500	50	1864160000	1863390000
12	41.91	1.650	50	1864170000	1863410000
13	45.72	1.800	50	1864180000	1863430000
14	49.53	1.950	50	1864190000	1863440000
15	53.34	2.100	50	1864200000	1863460000
16	57.15	2.250	50	1864210000	1863480000

SC-SMT 3.81/../180LF Tape

with solder flange; tape-on-reel



Dimensioned drawing

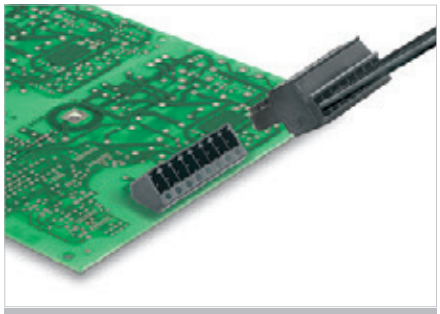


Ordering data

Solder pin length				1.5 mm	3.2 mm
Colour				Black	Black
Pitch	3.81 mm				
Pol.	L1	(inch)	Qty.	Order No.	Order No.
2	3.81	0.150	300	1864220000	1863500000
3	7.62	0.300	300	1864230000	1863510000
4	11.43	0.450	300	1864240000	1863530000
5	15.24	0.600	300	1864250000	1863580000
6	19.05	0.750	300	1864260000	1863600000
7	22.86	0.900	300	1864270000	1863620000
8	26.67	1.050	300	1864280000	1863640000

Tape widths: 32, 44, 56, 72, 88

SC-SMT 3.81/../135



Male header with 135° plugging angle (135° angle between the plugging direction and the solder pin). This corresponds to a 45° angle between the wire orientation and the circuit board.

- Reflow compatible
- Available in closed (G) and with solder flange (LF).
- Pin length of either 1.5 mm or 3.2 mm

Weidmüller's 3.81 mm pitch (0.15 inch) plug-in connectors are compatible with the layouts of standard connectors and offer space for labelling and coding.

Product data

IEC: 320 V / 17.5 A
UL: 300 V / 10 A

For additional articles and information, refer to catalog.weidmueller.com

Note:

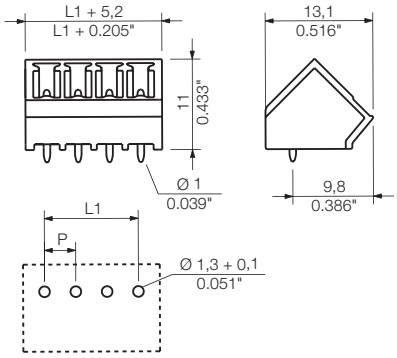
- Gold-plated contact surfaces on request
- Rated current related to rated cross-section & min. No. of poles.
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- P on drawing = pitch

SC-SMT 3.81/../135G

closed side



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm²			
Solid core H05(07) V-U	**mm²**			
Stranded H07 V-R				
Flexible H05(07) V-K	mm²			
Flexible with ferrule	mm²			
Ferrule with plastic collar	mm²			
Stripping length	mm			
Screwdriver blade	mm			
According to norm				
Tightening torque range	Nm			
Rated current, max.	**A**	**17.5**		**17.5**
At ambient temperature		20°C		40°C
For conductor cross-section	mm²			
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	**V**	**160**	**160**	**320**
Rated impulse voltage	kV	2.5	2.5	2.5
UL / CUL (Use Group)		**B**	**C**	**D**
Rated voltage	**V**	**300**		**300**
Rated current	**A**	**10**		**10**
AWG conductor	**AWG**		-	
CSA (Use Group)		**B**	**C**	**D**
Rated voltage	V	300		300
Rated current	A	10		10
AWG conductor	AWG		-	
General data				
Type of insulation material		LCP GF		
UL 94 flammability rating		V-0		
Contact base material		Copper alloy		
Material of contact surface		tinned		
Pin dimensions = d	mm	1.0, Octagonal		
Solder eyelet Ø = D	mm	1.3		
Solder eyelet Ø tolerance	mm	+ 0,1		

Accessories

Note: Refer to the Accessories chapter for additional accessories.

Coding		Order No.
	SC-SMT 3.81 KO GR	**1968900000**

Ordering data

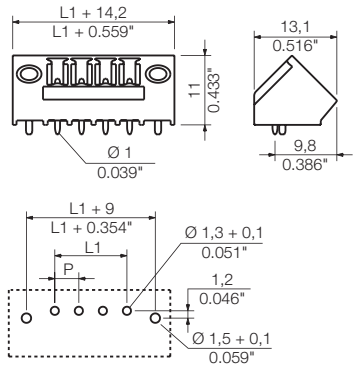
Solder pin length				1.5 mm	3.2 mm
Colour				Black	Black
Pitch	**3.81 mm**				
Pol.	L1	(inch)	**Qty.**	**Order No.**	**Order No.**
2	3.81	0.150	50	**1977930000**	**1977200000**
3	7.62	0.300	50	**1977940000**	**1977210000**
4	11.43	0.450	50	**1977950000**	**1977220000**
5	15.24	0.600	50	**1977960000**	**1977230000**
6	19.05	0.750	50	**1977970000**	**1977240000**
7	22.86	0.900	50	**1977980000**	**1977250000**
8	26.67	1.050	50	**1977990000**	**1977690000**
9	30.48	1.200	50	**1978000000**	**1977700000**
10	34.29	1.350	50	**1978010000**	**1977710000**
11	38.10	1.500	50	**1978020000**	**1977720000**
12	41.91	1.650	50	**1978030000**	**1977730000**
13	45.72	1.800	50	**1978040000**	**1977740000**
14	49.53	1.950	50	**1978050000**	**1977750000**
15	53.34	2.100	50	**1978060000**	**1977760000**
16	57.15	2.250	50	**1978070000**	**1977770000**

SC-SMT 3.81/../135LF

with solder flange



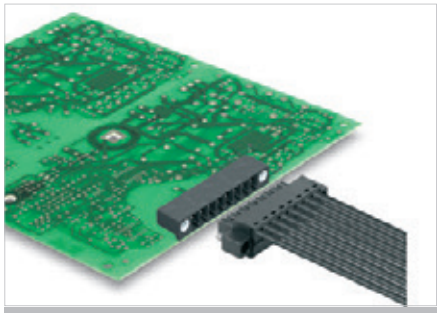
Dimensioned drawing



Ordering data

Solder pin length				1.5 mm	3.2 mm
Colour				Black	Black
Pitch	**3.81 mm**				
Pol.	L1	(inch)	Qty.	Order No.	Order No.
2	3.81	0.150	50	1978380000	1978080000
3	7.62	0.300	50	1978390000	1978090000
4	11.43	0.450	50	1978400000	1978100000
5	15.24	0.600	50	1978410000	1978110000
6	19.05	0.750	50	1978420000	1978120000
7	22.86	0.900	50	1978430000	1978130000
8	26.67	1.050	50	1978440000	1978140000
9	30.48	1.200	50	1978450000	1978150000
10	34.29	1.350	50	1978460000	1978160000
11	38.10	1.500	50	1978470000	1978170000
12	41.91	1.650	50	1978480000	1978180000
13	45.72	1.800	50	1978490000	1978190000
14	49.53	1.950	50	1978500000	1978200000
15	53.34	2.100	50	1978510000	1978210000
16	57.15	2.250	50	1978520000	1978220000

SC-SMT 3.81/../270



High-temperature-resistant male header with 270° plugging angle (the angle between the plugging direction and the solder pin). This angle has a plugging direction that is parallel to the circuit board with female plugs plugged in upside down.

- Reflow compatible
- Available in closed (G) version and with screw flange (F).
- Pin length of either 1.5 mm or 3.2 mm

Weidmüller's 3.81 mm pitch (0.15 inch) plug-in connectors are compatible with the layouts of standard connectors and offer space for labelling and coding.

Product data

IEC: 320 V / 17.5 A
UL: 300 V / 10 A

For additional articles and information, refer to catalog.weidmueller.com

Note:

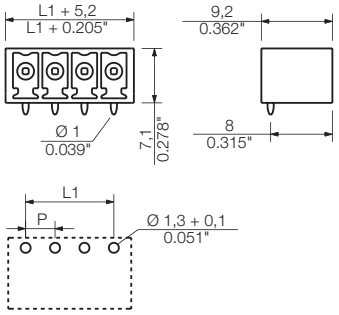
- Gold-plated contact surfaces on request
- Rated current related to rated cross-section & min. No. of poles.
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- P on drawing = pitch

SC-SMT 3.81/../270G

closed side



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm²			
Solid core H05(07) V-U	**mm²**			
Stranded H07 V-R				
Flexible H05(07) V-K	mm²			
Flexible with ferrule	mm²			
Ferrule with plastic collar	mm²			
Stripping length	mm			
Screwdriver blade	mm			
According to norm				
Tightening torque range	Nm			
Rated current, max.	**A**	**17.5**		**17.5**
At ambient temperature		20°C		40°C
For conductor cross-section	mm²			
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	**V**	**160**	**160**	**320**
Rated impulse voltage	kV	2.5	2.5	2.5
UL / CUL (Use Group)		**B**	**C**	**D**
Rated voltage	**V**	**300**		**300**
Rated current	**A**	**10**		**10**
AWG conductor	**AWG**		-	
CSA (Use Group)		**B**	**C**	**D**
Rated voltage	V	300		300
Rated current	A	10		10
AWG conductor	AWG		-	
General data				
Type of insulation material		LCP GF		
UL 94 flammability rating		V-0		
Contact base material		Copper alloy		
Material of contact surface		tinned		
Pin dimensions = d	mm	1.0, Octagonal		
Solder eyelet Ø = D	mm	1.3		
Solder eyelet Ø tolerance	mm	+ 0,1		

Accessories

Note: Refer to the Accessories chapter for additional accessories.

Coding		Order No.
	SC-SMT 3.81 KO GR	**1968900000**

Ordering data

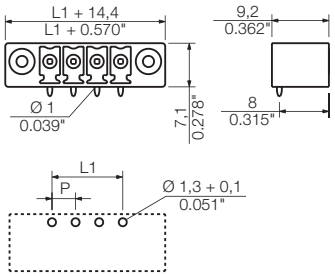
Solder pin length				1.5 mm	3.2 mm
Colour				Black	Black
Pitch	**3.81 mm**				
Pol.	L1	(inch)	**Qty.**	**Order No.**	**Order No.**
2	3.81	0.150	50	**1036830000**	**1036480000**
3	7.62	0.300	50	**1036840000**	**1036490000**
4	11.43	0.450	50	**1036850000**	**1036510000**
5	15.24	0.600	50	**1036860000**	**1036520000**
6	19.05	0.750	50	**1036870000**	**1036530000**
7	22.86	0.900	50	**1036880000**	**1036540000**
8	26.67	1.050	50	**1036890000**	**1036550000**
9	30.48	1.200	50	**1036910000**	**1036560000**
10	34.29	1.350	50	**1036920000**	**1036570000**
11	38.10	1.500	50	**1036930000**	**1036580000**
12	41.91	1.650	50	**1036940000**	**1036590000**
13	45.72	1.800	50	**1036950000**	**1036610000**
14	49.53	1.950	50	**1036960000**	**1036620000**
15	53.34	2.100	50	**1036970000**	**1036630000**
16	57.15	2.250	50	**1036980000**	**1036640000**

SC-SMT 3.81/../270F

with screw flange



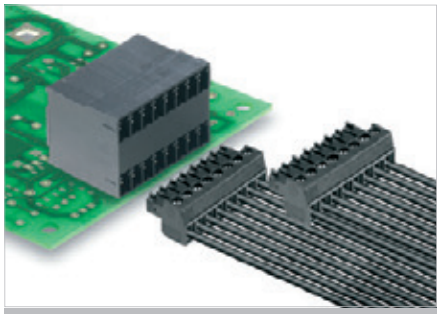
Dimensioned drawing



Ordering data

Solder pin length				1.5 mm	3.2 mm
Colour				Black	Black
Pitch	**3.81 mm**				
Pol.	L1	(inch)	Qty.	Order No.	Order No.
2	3.81	0.150	50	1037330000	1036990000
3	7.62	0.300	50	1037340000	1037010000
4	11.43	0.450	50	1037350000	1037020000
5	15.24	0.600	50	1037360000	1037030000
6	19.05	0.750	50	1037370000	1037040000
7	22.86	0.900	50	1037380000	1037050000
8	26.67	1.050	50	1037390000	1037060000
9	30.48	1.200	50	1037400000	1037070000
10	34.29	1.350	50	1037410000	1037080000
11	38.10	1.500	50	1037420000	1037090000
12	41.91	1.650	50	1037440000	1037110000
13	45.72	1.800	50	1037450000	1037120000
14	49.53	1.950	50	1037460000	1037130000
15	53.34	2.100	50	1037470000	1037140000
16	57.15	2.250	50	1037480000	1037150000

SCD-THR 3.81/../90



High-temperature-resistant, double-level male header for reflow soldering.

- Orientation: 90°
- Designed for front panel applications.
- Available in closed (G) version and with screw flange (F).

Weidmüller's 3.81 mm pitch (0.15 inch) plug-in connectors are compatible with the layouts of standard connectors and offer space for labelling and coding.

Product data

IEC: 320 V / 17.5 A
UL: 300 V / 10 A

For additional articles and information, refer to catalog.weidmueller.com

Note:

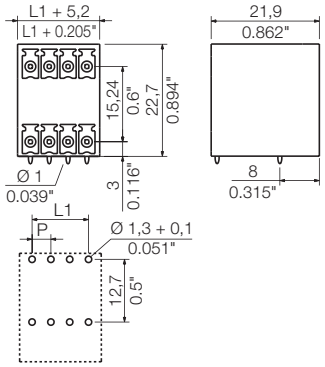
- Gold-plated contact surfaces on request
- Rated current related to rated cross-section & min. No. of poles.
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- P on drawing = pitch

SCD-THR 3.81/../90G

closed side



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm²			
Solid core H05(07) V-U	**mm²**			
Stranded H07 V-R				
Flexible H05(07) V-K	mm²			
Flexible with ferrule	mm²			
Ferrule with plastic collar	mm²			
Stripping length	mm			
Screwdriver blade	mm			
According to norm				
Tightening torque range	Nm			
Rated current, max.	**A**	**17.5**		**17**
At ambient temperature		20°C		40°C
For conductor cross-section	mm²			
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	**V**	**160**	**160**	**320**
Rated impulse voltage	kV	2.5	2.5	2.5
UL / CUL (Use Group)		**B**	**C**	**D**
Rated voltage	**V**	**300**		**300**
Rated current	**A**	**10**		**10**
AWG conductor	**AWG**		-	
CSA (Use Group)		**B**	**C**	**D**
Rated voltage	V	300		300
Rated current	A	10		10
AWG conductor	AWG		-	
General data				
Type of insulation material		LCP GF		
UL 94 flammability rating		V-0		
Contact base material		Copper alloy		
Material of contact surface		tinned		
Pin dimensions = d	mm	1.0, Octagonal		
Solder eyelet Ø = D	mm	1.3		
Solder eyelet Ø tolerance	mm	+ 0,1		

Accessories

Note: Refer to the Accessories chapter for additional accessories.

Coding		Order No.
	SC-SMT 3.81 KO GR	**1968900000**

Ordering data

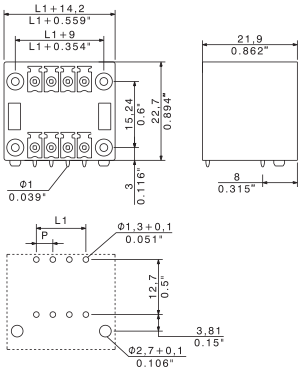
Solder pin length				1.5 mm	3.2 mm
Colour				Black	Black
Pitch	**3.81 mm**				
Pol.	L1	(inch)	**Qty.**	**Order No.**	**Order No.**
4	3.81	0.150	50	**1974030000**	**1973730000**
6	7.62	0.300	50	**1974040000**	**1973740000**
8	11.43	0.450	50	**1974050000**	**1973750000**
10	15.24	0.600	50	**1974060000**	**1973760000**
12	19.05	0.750	50	**1974070000**	**1973770000**
14	22.86	0.900	50	**1974080000**	**1973780000**
16	26.67	1.050	50	**1974090000**	**1973790000**
18	30.48	1.200	50	**1974100000**	**1973800000**
20	34.29	1.350	50	**1974110000**	**1973810000**
22	38.10	1.500	50	**1974120000**	**1973820000**
24	41.91	1.650	50	**1974130000**	**1973830000**
26	45.72	1.800	20	**1974140000**	**1973840000**
28	49.53	1.950	20	**1974150000**	**1973850000**
30	53.34	2.100	20	**1974160000**	**1973860000**
32	57.15	2.250	20	**1974170000**	**1973870000**

SCD-THR 3.81/../90F

with screw flange



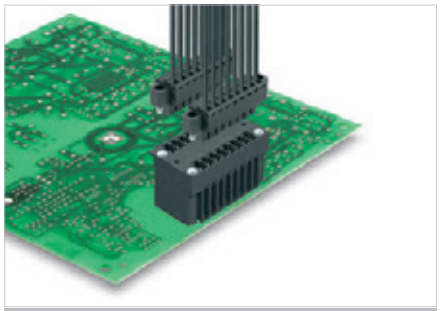
Dimensioned drawing



Ordering data

Solder pin length				1.5 mm	3.2 mm
Colour				Black	Black
Pitch	**3.81 mm**				
Pol.	L1	(inch)	Qty.	Order No.	Order No.
4	3.81	0.150	50	1974830000	1974180000
6	7.62	0.300	50	1974870000	1974190000
8	11.43	0.450	50	1974900000	1974200000
10	15.24	0.600	50	1974920000	1974210000
12	19.05	0.750	50	1974950000	1974220000
14	22.86	0.900	50	1974980000	1974230000
16	26.67	1.050	50	1974990000	1974240000
18	30.48	1.200	50	1975010000	1974250000
20	34.29	1.350	50	1975040000	1974290000
22	38.10	1.500	50	1975090000	1974310000
24	41.91	1.650	50	1975110000	1974330000
26	45.72	1.800	20	1975130000	1974350000
28	49.53	1.950	20	1975140000	1974440000
30	53.34	2.100	20	1975170000	1974470000
32	57.15	2.250	20	1975190000	1974490000

SCD-THR 3.81/../180



High-temperature-resistant, double-level male header for reflow soldering.

- It allows you to use two interfaces on only one surface and with only one step in the work flow.
- Outlet direction: 180° (recumbent)
- Connections at the same level and with access that is flush over the front board.
- Space for labelling and coding
- Packed in cardboard box.

Weidmüller's 3.81 mm pitch (0.15 inch) plug-in connectors are compatible with the layouts of standard connectors and offer space for labelling and coding.

Product data

IEC: 320 V / 17.5 A
UL: 300 V / 10 A

For additional articles and information, refer to catalog.weidmueller.com

Note:

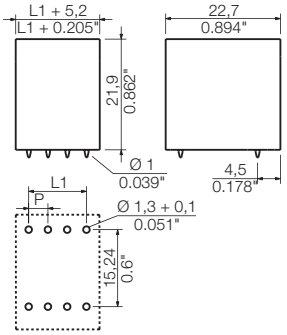
- Gold-plated contact surfaces on request
- Rated current related to rated cross-section & min. No. of poles.
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- P on drawing = pitch

SCD-THR 3.81/../180G

closed side



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm²			
Solid core H05(07) V-U	**mm²**			
Stranded H07 V-R				
Flexible H05(07) V-K	mm²			
Flexible with ferrule	mm²			
Ferrule with plastic collar	mm²			
Stripping length	mm			
Screwdriver blade	mm			
According to norm				
Tightening torque range	Nm			
Rated current, max.	**A**	**17.5**		**17**
At ambient temperature		20°C		40°C
For conductor cross-section	mm²			
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	**V**	**160**	**160**	**320**
Rated impulse voltage	kV	2.5	2.5	2.5
UL / CUL (Use Group)		**B**	**C**	**D**
Rated voltage	**V**	**300**		**300**
Rated current	**A**	**10**		**10**
AWG conductor	**AWG**		-	
CSA (Use Group)		**B**	**C**	**D**
Rated voltage	V	300		300
Rated current	A	10		10
AWG conductor	AWG		-	
General data				
Type of insulation material		LCP GF		
UL 94 flammability rating		V-0		
Contact base material		Copper alloy		
Material of contact surface		tinned		
Pin dimensions = d	mm	1.0, Octagonal		
Solder eyelet Ø = D	mm	1.3		
Solder eyelet Ø tolerance	mm	+ 0,1		

Accessories

Note: Refer to the Accessories chapter for additional accessories.

Coding		Order No.
	SC-SMT 3.81 KO GR	**1968900000**
Mounting screw		
	PTSC KA 2.2X4.5 WN1412	**1610740000**

Ordering data

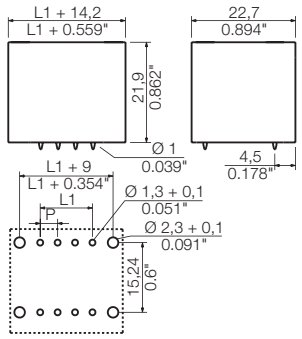
Solder pin length				1.5 mm	3.2 mm
Colour				Black	Black
Pitch	**3.81 mm**				
Pol.	L1	(inch)	**Qty.**	**Order No.**	**Order No.**
4	3.81	0.150	50	**1031290000**	**1030950000**
6	7.62	0.300	50	**1031310000**	**1030960000**
8	11.43	0.450	50	**1031320000**	**1030970000**
10	15.24	0.600	50	**1031330000**	**1030980000**
12	19.05	0.750	50	**1031340000**	**1030990000**
14	22.86	0.900	50	**1031350000**	**1031010000**
16	26.67	1.050	50	**1031360000**	**1031020000**
18	30.48	1.200	50	**1031370000**	**1031030000**
20	34.29	1.350	50	**1031380000**	**1031040000**
22	38.10	1.500	50	**1031390000**	**1031050000**
24	41.91	1.650	50	**1031410000**	**1031060000**
26	45.72	1.800	20	**1031420000**	**1031070000**
28	49.53	1.950	20	**1031430000**	**1031080000**
30	53.34	2.100	20	**1031440000**	**1031090000**
32	57.15	2.250	20	**1031450000**	**1031110000**

SCD-THR 3.81/../180F

with screw flange



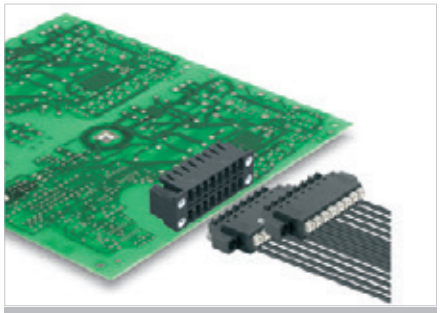
Dimensioned drawing



Ordering data

Solder pin length				1.5 mm	3.2 mm
Colour				Black	Black
Pitch	**3.81 mm**				
Pol.	L1	(inch)	Qty.	Order No.	Order No.
4	3.81	0.150	50	1031860000	1031460000
6	7.62	0.300	50	1031870000	1031470000
8	11.43	0.450	50	1031890000	1031490000
10	15.24	0.600	50	1031910000	1031510000
12	19.05	0.750	50	1031920000	1031520000
14	22.86	0.900	50	1031930000	1031530000
16	26.67	1.050	50	1031940000	1031540000
18	30.48	1.200	50	1031950000	1031560000
20	34.29	1.350	50	1031960000	1031570000
22	38.10	1.500	50	1031970000	1031590000
24	41.91	1.650	50	1031990000	1031610000
26	45.72	1.800	20	1032040000	1031620000
28	49.53	1.950	20	1032050000	1031630000
30	53.34	2.100	20	1032060000	1031640000
32	57.15	2.250	20	1032070000	1031660000

SCDN-THR 3.81/../90



Compact double-level male header for reflow soldering process. For use with BCF 3.81 plugs.

- Orientation: 90°
- Designed for front panel applications.
- Available in closed (G) version and with screw flange (F).

Weidmüller's 3.81 mm pitch (0.15 inch) plug-in connectors are compatible with the layouts of standard connectors and offer space for labelling and coding.

Product data

IEC: 320 V / 17.5 A
UL: 300 V / 10 A

For additional articles and information, refer to catalog.weidmueller.com

Note:

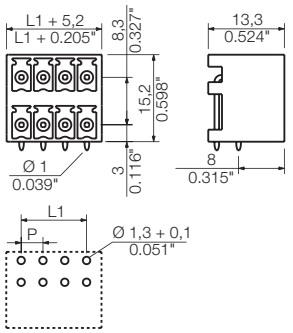
- Gold-plated contact surfaces on request
- Rated current related to rated cross-section & min. No. of poles.
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- P on drawing = pitch

SCDN-THR 3.81/../90G

closed side



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm²			
Solid core H05(07) V-U	**mm²**			
Stranded H07 V-R				
Flexible H05(07) V-K	mm²			
Flexible with ferrule	mm²			
Ferrule with plastic collar	mm²			
Stripping length	mm			
Screwdriver blade	mm			
According to norm				
Tightening torque range	Nm			
Rated current, max.	**A**	**17.5**		**17**
At ambient temperature		20°C		40°C
For conductor cross-section	mm²			
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	**V**	**160**	**160**	**320**
Rated impulse voltage	kV	2.5	2.5	2.5
UL / CUL (Use Group)		**B**	**C**	**D**
Rated voltage	**V**	**300**		**300**
Rated current	**A**	**10**		**10**
AWG conductor	**AWG**		-	
CSA (Use Group)		**B**	**C**	**D**
Rated voltage	V	300		300
Rated current	A	10		10
AWG conductor	AWG		-	
General data				
Type of insulation material		LCP GF		
UL 94 flammability rating		V-0		
Contact base material		Copper alloy		
Material of contact surface		tinned		
Pin dimensions = d	mm	1.0, Octagonal		
Solder eyelet Ø = D	mm	1.3		
Solder eyelet Ø tolerance	mm	+ 0,1		

Accessories

Note: Refer to the Accessories chapter for additional accessories.

Coding		Order No.
	SC-SMT 3.81 KO GR	1968900000

Ordering data

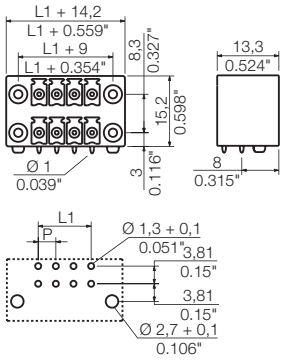
Solder pin length				1.5 mm	3.2 mm
Colour				Black	Black
Pitch	**3.81 mm**				
Pol.	L1	(inch)	**Qty.**	**Order No.**	**Order No.**
4	3.81	0.150	50	1039270000	1038950000
6	7.62	0.300	50	1039280000	1038960000
8	11.43	0.450	50	1039290000	1038970000
10	15.24	0.600	50	1039300000	1038980000
12	19.05	0.750	50	1039310000	1038990000
14	22.86	0.900	50	1039320000	1039010000
16	26.67	1.050	50	1039330000	1039020000
18	30.48	1.200	50	1039340000	1039030000
20	34.29	1.350	50	1039350000	1039040000
22	38.10	1.500	50	1039370000	1039050000
24	41.91	1.650	50	1039380000	1039060000
26	45.72	1.800	20	1039390000	1039070000
28	49.53	1.950	20	1039410000	1039080000
30	53.34	2.100	20	1039420000	1039090000
32	57.15	2.250	20	1039430000	1039100000

SCDN-THR 3.81/../90F

with screw flange



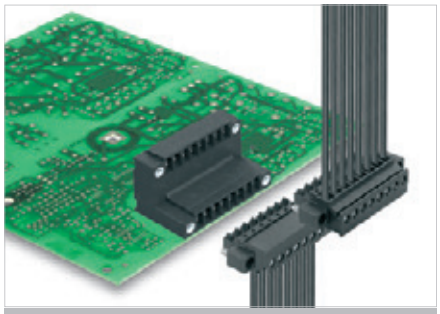
Dimensioned drawing



Ordering data

Solder pin length				1.5 mm	3.2 mm
Colour				Black	Black
Pitch	**3.81 mm**				
Pol.	L1	(inch)	Qty.	Order No.	Order No.
4	3.81	0.150	50	1040070000	1039440000
6	7.62	0.300	50	1040090000	1039450000
8	11.43	0.450	50	1040140000	1039460000
10	15.24	0.600	50	1040150000	1039520000
12	19.05	0.750	50	1040170000	1039530000
14	22.86	0.900	50	1040190000	1039540000
16	26.67	1.050	50	1040230000	1039550000
18	30.48	1.200	50	1040250000	1039560000
20	34.29	1.350	50	1040260000	1039570000
22	38.10	1.500	50	1040270000	1039580000
24	41.91	1.650	50	1040280000	1039590000
26	45.72	1.800	20	1040290000	1039610000
28	49.53	1.950	20	1040300000	1039720000
30	53.34	2.100	20	1040380000	1039730000
32	57.15	2.250	20	1040390000	1039740000

SCDV-THR 3.81/../90



High-temperature-resistant, double-level male header for reflow soldering.

- Orientation: 90°
- Connections at two offset levels and open access to each row.
- Available in closed (G) version and with screw flange (F).

Weidmüller's 3.81 mm pitch (0.15 inch) plug-in connectors are compatible with the layouts of standard connectors and offer space for labelling and coding.

Product data

IEC: 320 V / 17.5 A
UL: 300 V / 10 A

For additional articles and information, refer to catalog.weidmueller.com

Note:

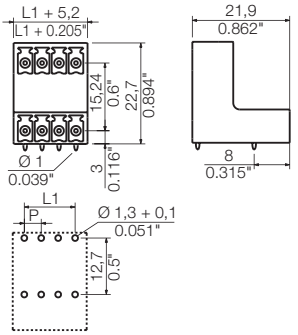
- Gold-plated contact surfaces on request
- Rated current related to rated cross-section & min. No. of poles.
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- P on drawing = pitch

SCDV-THR 3.81/../90G

closed side



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm²			
Solid core H05(07) V-U	**mm²**			
Stranded H07 V-R				
Flexible H05(07) V-K	mm²			
Flexible with ferrule	mm²			
Ferrule with plastic collar	mm²			
Stripping length	mm			
Screwdriver blade	mm			
According to norm				
Tightening torque range	Nm			
Rated current, max.	**A**	**17.5**		**17**
At ambient temperature		20°C		40°C
For conductor cross-section	mm²			
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	**V**	**160**	**160**	**320**
Rated impulse voltage	kV	2.5	2.5	2.5
UL / CUL (Use Group)		**B**	**C**	**D**
Rated voltage	**V**	**300**		**300**
Rated current	**A**	**10**		**10**
AWG conductor	**AWG**		-	
CSA (Use Group)		**B**	**C**	**D**
Rated voltage	V	300		300
Rated current	A	10		10
AWG conductor	AWG		-	
General data				
Type of insulation material		LCP GF		
UL 94 flammability rating		V-0		
Contact base material		Copper alloy		
Material of contact surface		tinned		
Pin dimensions = d	mm	1.0, Octagonal		
Solder eyelet Ø = D	mm	1.3		
Solder eyelet Ø tolerance	mm	+ 0,1		

Accessories

Note: Refer to the Accessories chapter for additional accessories.

Coding		Order No.
	SC-SMT 3.81 KO GR	1968900000

Ordering data

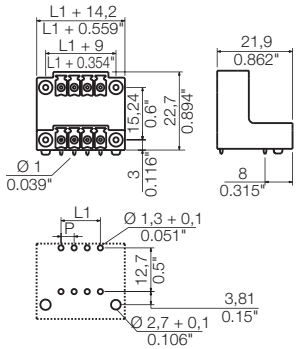
Solder pin length				1.5 mm	3.2 mm
Colour				Black	Black
Pitch	**3.81 mm**				
Pol.	L1	(inch)	Qty.	Order No.	Order No.
4	3.81	0.150	50	1033820000	1033490000
6	7.62	0.300	50	1033830000	1033510000
8	11.43	0.450	50	1033840000	1033520000
10	15.24	0.600	50	1033850000	1033530000
12	19.05	0.750	50	1033860000	1033540000
14	22.86	0.900	50	1033870000	1033550000
16	26.67	1.050	50	1033880000	1033560000
18	30.48	1.200	50	1033890000	1033570000
20	34.29	1.350	50	1033900000	1033580000
22	38.10	1.500	50	1033910000	1033590000
24	41.91	1.650	50	1033920000	1033600000
26	45.72	1.800	20	1033930000	1033610000
28	49.53	1.950	20	1033940000	1033620000
30	53.34	2.100	20	1033950000	1033630000
32	57.15	2.250	20	1033960000	1033640000

SCDV-THR 3.81/../90F

with screw flange



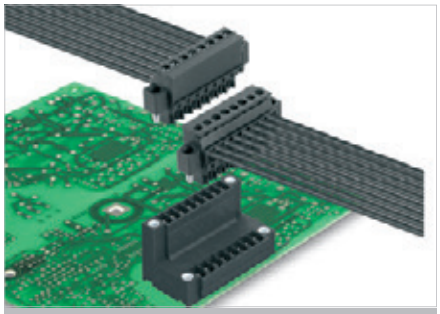
Dimensioned drawing



Ordering data

Solder pin length				1.5 mm	3.2 mm
Colour				Black	Black
Pitch	**3.81 mm**				
Pol.	L1	(inch)	Qty.	Order No.	Order No.
4	3.81	0.150	50	1034310000	1033970000
6	7.62	0.300	50	1034320000	1033980000
8	11.43	0.450	50	1034330000	1033990000
10	15.24	0.600	50	1034340000	1034010000
12	19.05	0.750	50	1034350000	1034020000
14	22.86	0.900	50	1034360000	1034030000
16	26.67	1.050	50	1034370000	1034040000
18	30.48	1.200	50	1034380000	1034050000
20	34.29	1.350	50	1034390000	1034060000
22	38.10	1.500	50	1034410000	1034070000
24	41.91	1.650	50	1034420000	1034080000
26	45.72	1.800	20	1034430000	1034090000
28	49.53	1.950	20	1034440000	1034110000
30	53.34	2.100	20	1034450000	1034120000
32	57.15	2.250	20	1034460000	1034130000

SCDV-THR 3.81/../180



High-temperature-resistant, double-level male header for reflow soldering.

- Outlet direction: 180°
- Connections at two offset levels and open access to each row.
- Available in closed (G) version and with screw flange (F).

Weidmüller's 3.81 mm pitch (0.15 inch) plug-in connectors are compatible with the layouts of standard connectors and offer space for labelling and coding.

Product data

IEC: 320 V / 17.5 A
UL: 300 V / 10 A

For additional articles and information, refer to catalog.weidmueller.com

Note:

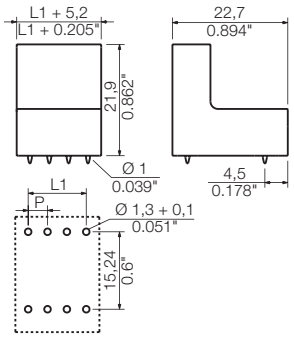
- Gold-plated contact surfaces on request
- Rated current related to rated cross-section & min. No. of poles.
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- P on drawing = pitch

SCDV-THR 3.81/../180G

closed side



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm²			
Solid core H05(07) V-U	**mm²**			
Stranded H07 V-R				
Flexible H05(07) V-K	mm²			
Flexible with ferrule	mm²			
Ferrule with plastic collar	mm²			
Stripping length	mm			
Screwdriver blade	mm			
According to norm				
Tightening torque range	Nm			
Rated current, max.	**A**	**17.5**		**17**
At ambient temperature		20°C		40°C
For conductor cross-section	mm²			
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	**V**	**160**	**160**	**320**
Rated impulse voltage	kV	2.5	2.5	2.5
UL / CUL (Use Group)		**B**	**C**	**D**
Rated voltage	**V**	**300**		**300**
Rated current	**A**	**10**		**10**
AWG conductor	**AWG**		-	
CSA (Use Group)		**B**	**C**	**D**
Rated voltage	V	300		300
Rated current	A	10		10
AWG conductor	AWG		-	
General data				
Type of insulation material		LCP GF		
UL 94 flammability rating		V-0		
Contact base material		Copper alloy		
Material of contact surface		tinned		
Pin dimensions = d	mm	1.0, Octagonal		
Solder eyelet Ø = D	mm	1.3		
Solder eyelet Ø tolerance	mm	+ 0,1		

Accessories

Note: Refer to the Accessories chapter for additional accessories.

Coding		Order No.
	SC-SMT 3.81 KO GR	**1968900000**
Mounting screw		
	PTSC KA 2.2X4.5 WN1412	**1610740000**

Ordering data

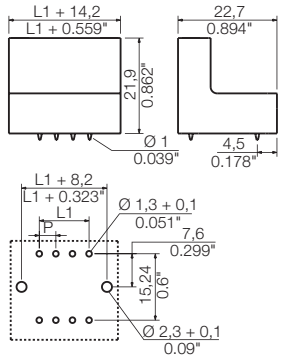
Solder pin length				1.5 mm	3.2 mm
Colour				Black	Black
Pitch	**3.81 mm**				
Pol.	L1	(inch)	**Qty.**	**Order No.**	**Order No.**
4	3.81	0.150	50	**1035790000**	**1035470000**
6	7.62	0.300	50	**1035800000**	**1035480000**
8	11.43	0.450	50	**1035810000**	**1035490000**
10	15.24	0.600	50	**1035820000**	**1035510000**
12	19.05	0.750	50	**1035830000**	**1035520000**
14	22.86	0.900	50	**1035840000**	**1035530000**
16	26.67	1.050	50	**1035850000**	**1035540000**
18	30.48	1.200	50	**1035860000**	**1035550000**
20	34.29	1.350	50	**1035870000**	**1035560000**
22	38.10	1.500	50	**1035880000**	**1035570000**
24	41.91	1.650	50	**1035890000**	**1035580000**
26	45.72	1.800	20	**1035910000**	**1035590000**
28	49.53	1.950	20	**1035920000**	**1035610000**
30	53.34	2.100	20	**1035930000**	**1035620000**
32	57.15	2.250	20	**1035940000**	**1035630000**

SCDV-THR 3.81/../180F

with screw flange



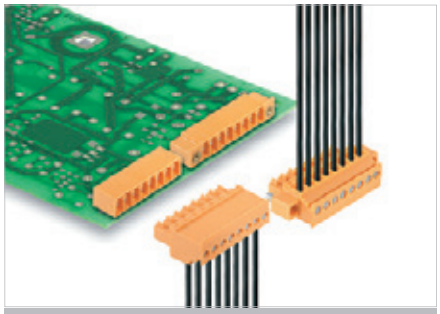
Dimensioned drawing



Ordering data

Solder pin length				1.5 mm	3.2 mm
Colour				Black	Black
Pitch	**3.81 mm**				
Pol.	L1	(inch)	Qty.	Order No.	Order No.
4	3.81	0.150	50	1036320000	1035950000
6	7.62	0.300	50	1036330000	1035960000
8	11.43	0.450	50	1036340000	1035970000
10	15.24	0.600	50	1036350000	1035980000
12	19.05	0.750	50	1036360000	1035990000
14	22.86	0.900	50	1036370000	1036010000
16	26.67	1.050	50	1036380000	1036020000
18	30.48	1.200	50	1036390000	1036030000
20	34.29	1.350	50	1036410000	1036040000
22	38.10	1.500	50	1036420000	1036050000
24	41.91	1.650	50	1036430000	1036060000
26	45.72	1.800	20	1036440000	1036070000
28	49.53	1.950	20	1036450000	1036080000
30	53.34	2.100	20	1036460000	1036090000
32	57.15	2.250	20	1036470000	1036110000

SC 3.81/../90



Male header with plugging direction in parallel to the circuit board.

- Available in closed (G) version and with screw flange (F)

Weidmüller's 3.81 mm pitch (0.15 inch) plug-in connectors are compatible with the layouts of standard connectors. They support a flood-light display and offer space for labelling and coding.

Product data

IEC: 320 V / 17.5 A
UL: 300 V / 10 A

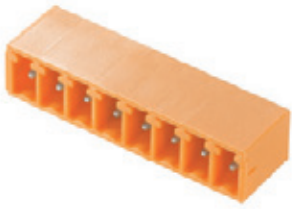
For additional articles and information, refer to catalog.weidmueller.com

Note:

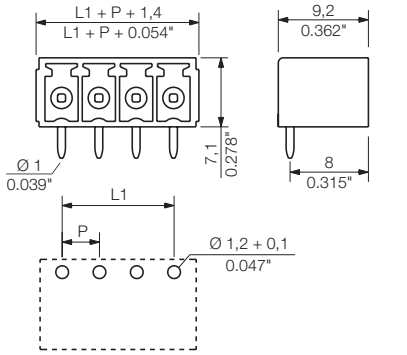
- Additional colours on request
- Gold-plated contact surfaces on request
- Rated current related to rated cross-section & min. No. of poles.
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- P on drawing = pitch

SC 3.81/../90G

closed side



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm²			
Solid core H05(07) V-U	**mm²**			
Stranded H07 V-R				
Flexible H05(07) V-K	mm²			
Flexible with ferrule	mm²			
Ferrule with plastic collar	mm²			
Stripping length	mm			
Screwdriver blade	mm			
According to norm				
Tightening torque range	Nm			
Rated current, max.	**A**	**17.5**		**17.5**
At ambient temperature		20°C		40°C
For conductor cross-section	mm²			
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	**V**	**160**	**160**	**320**
Rated impulse voltage	kV	2.5	2.5	2.5
UL / CUL (Use Group)		**B**	**C**	**D**
Rated voltage	**V**	**300**		**300**
Rated current	**A**	**10**		**10**
AWG conductor	**AWG**		-	
CSA (Use Group)		**B**	**C**	**D**
Rated voltage	V	300		300
Rated current	A	10		10
AWG conductor	AWG		-	
General data				
Type of insulation material		PA GF		
UL 94 flammability rating		V-0		
Contact base material		Copper alloy		
Material of contact surface		tinned		
Pin dimensions = d	mm	1.0, Octagonal		
Solder eyelet Ø = D	mm	1.2		
Solder eyelet Ø tolerance	mm	+ 0,1		

Accessories

Note: Refer to the Accessories chapter for additional accessories.

Coding		Order No.
	SC-SMT 3.81 KO GR	1968900000
LED light guide		
	SC 3.81 FLA 1.5/14.25	1979730000
	SC 3.81 FLA 1.5/16	1979720000
	SC 3.81 FLA 2.3/14.25	1979750000
	SC 3.81 FLA 2.3/16	1979740000

Ordering data

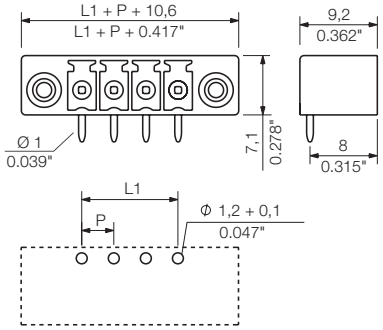
Solder pin length				3.2 mm	3.2 mm
Colour				Orange	Black
Pitch	**3.81 mm**				
Pol.	L1	(inch)	**Qty.**	**Order No.**	**Order No.**
2	3.81	0.150	50	1942020000	1793130000
3	7.62	0.300	50	1942040000	1793140000
4	11.43	0.450	50	1942070000	1793150000
5	15.24	0.600	50	1942090000	1793160000
6	19.05	0.750	50	1942100000	1793170000
7	22.86	0.900	50	1942120000	1942350000
8	26.67	1.050	50	1942130000	1793180000
9	30.48	1.200	50	1942140000	1942360000
10	34.29	1.350	50	1942150000	1793190000
11	38.10	1.500	50	1942160000	1942370000
12	41.91	1.650	50	1942170000	1793200000
13	45.72	1.800	50	1942180000	1942380000
14	49.53	1.950	50	1942190000	1942390000
15	53.34	2.100	50	1942200000	1942400000
16	57.15	2.250	50	1942210000	1793210000
17	60.96	2.400	50	1942220000	1942410000
18	64.77	2.550	50	1942230000	1942420000
19	68.58	2.700	50	1942240000	1942430000
20	72.39	2.850	50	1942250000	1942440000

SC 3.81/../90F

with screw flange



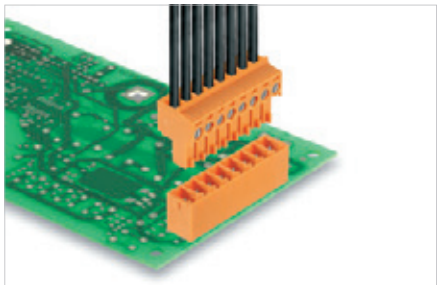
Dimensioned drawing



Ordering data

Solder pin length				3.2 mm	3.2 mm
Colour				Orange	Black
Pitch	**3.81 mm**				
Pol.	L1	(inch)	Qty.	Order No.	Order No.
2	3.81	0.150	50	1942450000	1793330000
3	7.62	0.300	50	1942460000	1793340000
4	11.43	0.450	50	1942470000	1793350000
5	15.24	0.600	50	1942480000	1793360000
6	19.05	0.750	50	1942490000	1793370000
7	22.86	0.900	50	1942500000	1942740000
8	26.67	1.050	50	1942510000	1793380000
9	30.48	1.200	50	1942520000	1942750000
10	34.29	1.350	50	1942530000	1793390000
11	38.10	1.500	50	1942540000	1942760000
12	41.91	1.650	50	1942550000	1793400000
13	45.72	1.800	50	1942560000	1942770000
14	49.53	1.950	50	1942570000	1942780000
15	53.34	2.100	50	1942580000	1942790000
16	57.15	2.250	50	1942590000	1793410000
17	60.96	2.400	50	1942600000	1942800000
18	64.77	2.550	50	1942610000	1942810000
19	68.58	2.700	50	1942620000	1942820000
20	72.39	2.850	50	1942630000	1942830000

SC 3.81/../180



The 180° male header has a perpendicular plugging direction in relation to the circuit board. It is available in closed (G) and screw flange (F) versions.

Weidmüller's 3.81 mm pitch (0.15 inch) plug-in connectors are compatible with the layouts of standard connectors and offer space for labelling and coding.

Product data

IEC: 320 V / 17.5 A
UL: 300 V / 10 A

For additional articles and information, refer to catalog.weidmueller.com

Note:

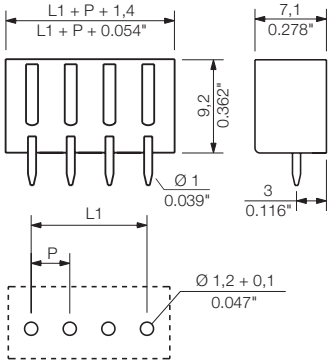
- Additional colours on request
- Gold-plated contact surfaces on request
- Rated current related to rated cross-section & min. No. of poles.
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- P on drawing = pitch

SC 3.81/../180G

closed side



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm²			
Solid core H05(07) V-U	**mm²**			
Stranded H07 V-R				
Flexible H05(07) V-K	mm²			
Flexible with ferrule	mm²			
Ferrule with plastic collar	mm²			
Stripping length	mm			
Screwdriver blade	mm			
According to norm				
Tightening torque range	Nm			
Rated current, max.	**A**	**17.5**		**17.5**
At ambient temperature		20°C		40°C
For conductor cross-section	mm²			
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	**V**	**160**	**160**	**320**
Rated impulse voltage	kV	2.5	2.5	2.5
UL / CUL (Use Group)		**B**	**C**	**D**
Rated voltage	**V**	**300**		**300**
Rated current	**A**	**10**		**10**
AWG conductor	**AWG**		-	
CSA (Use Group)		**B**	**C**	**D**
Rated voltage	V	300		300
Rated current	A	10		10
AWG conductor	AWG		-	
General data				
Type of insulation material		PA GF		
UL 94 flammability rating		V-0		
Contact base material		Copper alloy		
Material of contact surface		tinned		
Pin dimensions = d	mm	1.0, Octagonal		
Solder eyelet Ø = D	mm	1.2		
Solder eyelet Ø tolerance	mm	+ 0,1		

Accessories

Note: Refer to the Accessories chapter for additional accessories.

Coding		Order No.
	SC-SMT 3.81 KO GR	**1968900000**
Mounting screw		
	PTSC KA 2.2X4.5 WN1412	**1610740000**

Ordering data

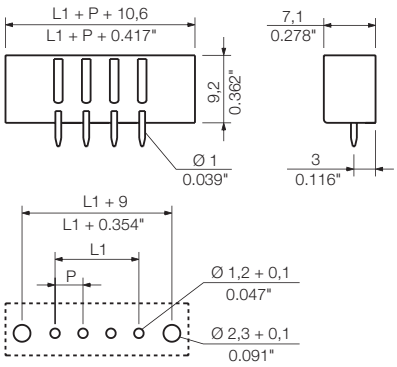
Solder pin length				3.2 mm	3.2 mm
Colour				Orange	Black
Pitch	**3.81 mm**				
Pol.	L1	(inch)	**Qty.**	**Order No.**	**Order No.**
2	3.81	0.150	50	**1942840000**	**1793520000**
3	7.62	0.300	50	**1942850000**	**1793530000**
4	11.43	0.450	50	**1942860000**	**1793540000**
5	15.24	0.600	50	**1942870000**	**1793550000**
6	19.05	0.750	50	**1942880000**	**1793560000**
7	22.86	0.900	50	**1942890000**	**1871490000**
8	26.67	1.050	50	**1942900000**	**1793570000**
9	30.48	1.200	50	**1942910000**	**1871470000**
10	34.29	1.350	50	**1942920000**	**1793580000**
11	38.10	1.500	50	**1942930000**	**1943100000**
12	41.91	1.650	50	**1942940000**	**1793590000**
13	45.72	1.800	50	**1942950000**	**1943110000**
14	49.53	1.950	50	**1942960000**	**1943120000**
15	53.34	2.100	50	**1942970000**	**1943130000**
16	57.15	2.250	50	**1942980000**	**1793600000**
17	60.96	2.400	50	**1942990000**	**1943140000**
18	64.77	2.550	50	**1943000000**	**1943150000**
19	68.58	2.700	50	**1943010000**	**1943160000**
20	72.39	2.850	50	**1943020000**	**1943170000**

SC 3.81/../180F

with screw flange



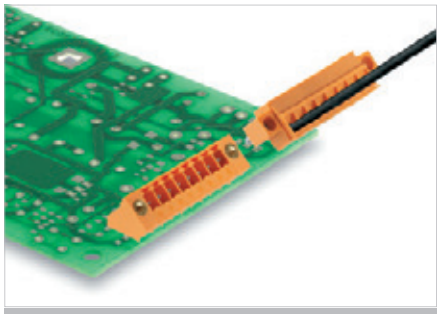
Dimensioned drawing



Ordering data

Solder pin length				3.2 mm	3.2 mm
Colour				Orange	Black
Pitch	**3.81 mm**				
Pol.	L1	(inch)	Qty.	Order No.	Order No.
2	3.81	0.150	50	1943180000	1793700000
3	7.62	0.300	50	1943190000	1793710000
4	11.43	0.450	50	1943200000	1793720000
5	15.24	0.600	50	1943210000	1793730000
6	19.05	0.750	50	1943220000	1793740000
7	22.86	0.900	50	1943230000	1837010000
8	26.67	1.050	50	1943240000	1793750000
9	30.48	1.200	50	1943250000	1943470000
10	34.29	1.350	50	1943260000	1793760000
11	38.10	1.500	50	1943270000	1943480000
12	41.91	1.650	50	1943280000	1793770000
13	45.72	1.800	50	1943290000	1943490000
14	49.53	1.950	50	1943300000	1943500000
15	53.34	2.100	50	1943310000	1943510000
16	57.15	2.250	50	1943320000	1793780000
17	60.96	2.400	50	1943330000	1943520000
18	64.77	2.550	50	1943340000	1943530000
19	68.58	2.700	50	1943350000	1943540000
20	72.39	2.850	50	1943360000	1943550000

SC 3.81/../135



Male header with 135° plugging angle – (135° angle between the plugging direction and the solder pin). This corresponds to a 45° angle between the wire outlet and the circuit board.

- Available in Closed (G) version and with screw flange (F).

Weidmüller's 3.81 mm pitch (0.15 inch) plug-in connectors are compatible with the layouts of standard connectors and offer space for labelling and coding.

Product data

IEC: 320 V / 17.5 A
UL: 300 V / 10 A

For additional articles and information, refer to catalog.weidmueller.com

Note:

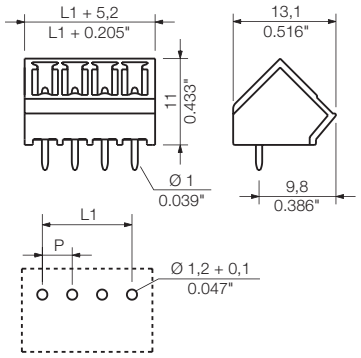
- Additional colours on request
- Gold-plated contact surfaces on request
- Rated current related to rated cross-section & min. No. of poles.
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- P on drawing = pitch

SC 3.81/../135G

closed side



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm²			
Solid core H05(07) V-U	**mm²**			
Stranded H07 V-R				
Flexible H05(07) V-K	mm²			
Flexible with ferrule	mm²			
Ferrule with plastic collar	mm²			
Stripping length	mm			
Screwdriver blade	mm			
According to norm				
Tightening torque range	Nm			
Rated current, max.	**A**	**17.5**		**17.5**
At ambient temperature		20°C		40°C
For conductor cross-section	mm²			
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	**V**	**160**	**160**	**320**
Rated impulse voltage	kV	2.5	2.5	2.5
UL / CUL (Use Group)		**B**	**C**	**D**
Rated voltage	**V**	**300**		**300**
Rated current	**A**	**10**		**10**
AWG conductor	**AWG**		-	
CSA (Use Group)		**B**	**C**	**D**
Rated voltage	V	300		300
Rated current	A	10		10
AWG conductor	AWG		-	
General data				
Type of insulation material		PA GF		
UL 94 flammability rating		V-0		
Contact base material		Copper alloy		
Material of contact surface		tinned		
Pin dimensions = d	mm	1.0, Octagonal		
Solder eyelet Ø = D	mm	1.2		
Solder eyelet Ø tolerance	mm	+ 0,1		

Accessories

Note: Refer to the Accessories chapter for additional accessories.

Coding		Order No.
	SC-SMT 3.81 KO GR	1968900000

Ordering data

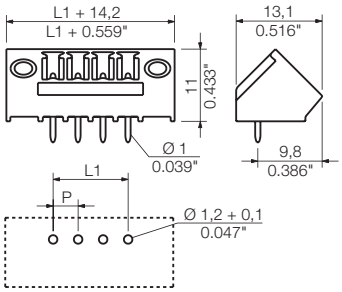
Solder pin length				3.2 mm	3.2 mm
Colour				Orange	Black
Pitch	**3.81 mm**				
Pol.	L1	(inch)	**Qty.**	**Order No.**	**Order No.**
2	3.81	0.150	50	1975720000	1976380000
3	7.62	0.300	50	1975770000	1976400000
4	11.43	0.450	50	1975800000	1976420000
5	15.24	0.600	50	1975810000	1976450000
6	19.05	0.750	50	1975880000	1976460000
7	22.86	0.900	50	1975900000	1976510000
8	26.67	1.050	50	1975920000	1976540000
9	30.48	1.200	50	1975930000	1976560000
10	34.29	1.350	50	1975940000	1976600000
11	38.10	1.500	50	1975950000	1976630000
12	41.91	1.650	50	1975960000	1976660000
13	45.72	1.800	50	1975970000	1976700000
14	49.53	1.950	50	1975980000	1976710000
15	53.34	2.100	50	1975990000	1976720000
16	57.15	2.250	50	1976000000	1976730000

SC 3.81/../135F

with screw flange



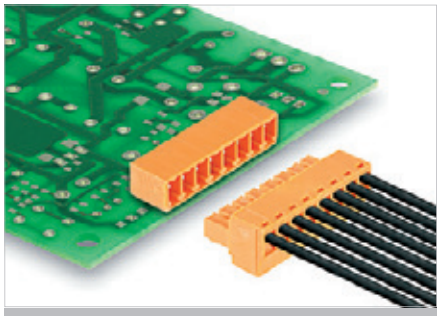
Dimensioned drawing



Ordering data

Solder pin length				3.2 mm	3.2 mm
Colour				Orange	Black
Pitch	**3.81 mm**				
Pol.	L1	(inch)	Qty.	Order No.	Order No.
2	3.81	0.150	50	1976740000	1977040000
3	7.62	0.300	50	1976750000	1977050000
4	11.43	0.450	50	1976760000	1977060000
5	15.24	0.600	50	1976770000	1977070000
6	19.05	0.750	50	1976780000	1977080000
7	22.86	0.900	50	1976790000	1977090000
8	26.67	1.050	50	1976800000	1977100000
9	30.48	1.200	50	1976810000	1977110000
10	34.29	1.350	50	1976820000	1977120000
11	38.10	1.500	50	1976830000	1977130000
12	41.91	1.650	50	1976840000	1977140000
13	45.72	1.800	50	1976850000	1977150000
14	49.53	1.950	50	1976860000	1977160000
15	53.34	2.100	50	1976870000	1977170000
16	57.15	2.250	50	1976880000	1977180000

SC 3.81/../270



Male header with 270° plugging angle (270° angle between the plugging direction and the solder pin). This angle has a plugging direction that is parallel to the circuit board with female plugs plugged in upside down.

- Available in closed (G) version and with screw flange (F).

Weidmüller's 3.81 mm pitch (0.15 inch) plug-in connectors are compatible with the layouts of standard connectors and offer space for labelling and coding.

Product data

IEC: 320 V / 17.5 A
UL: 300 V / 10 A

For additional articles and information, refer to catalog.weidmueller.com

Note:

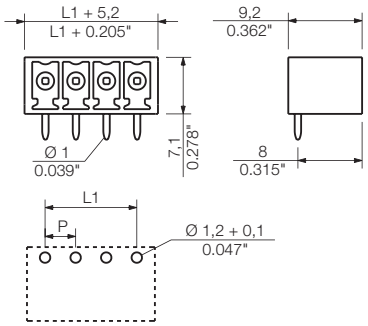
- Additional colours on request
- Gold-plated contact surfaces on request
- Rated current related to rated cross-section & min. No. of poles.
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- P on drawing = pitch

SC 3.81/../270G

closed side



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm²			
Solid core H05(07) V-U	**mm²**			
Stranded H07 V-R				
Flexible H05(07) V-K	mm²			
Flexible with ferrule	mm²			
Ferrule with plastic collar	mm²			
Stripping length	mm			
Screwdriver blade	mm			
According to norm				
Tightening torque range	Nm			
Rated current, max.	**A**	**17.5**		**17.5**
At ambient temperature		20°C		40°C
For conductor cross-section	mm²			
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	**V**	**160**	**160**	**320**
Rated impulse voltage	kV	2.5	2.5	2.5
UL / CUL (Use Group)		**B**	**C**	**D**
Rated voltage	**V**	**300**		**300**
Rated current	**A**	**10**		**10**
AWG conductor	**AWG**		-	
CSA (Use Group)		**B**	**C**	**D**
Rated voltage	V	300		300
Rated current	A	10		10
AWG conductor	AWG		-	
General data				
Type of insulation material		PA GF		
UL 94 flammability rating		V-0		
Contact base material		Copper alloy		
Material of contact surface		tinned		
Pin dimensions = d	mm	1.0, Octagonal		
Solder eyelet Ø = D	mm	1.2		
Solder eyelet Ø tolerance	mm	+ 0,1		

Accessories

Note: Refer to the Accessories chapter for additional accessories.

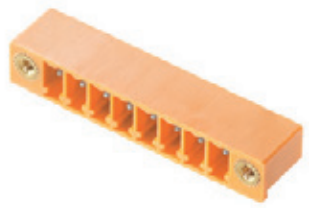
Coding		Order No.
	SC-SMT 3.81 KO GR	1968900000

Ordering data

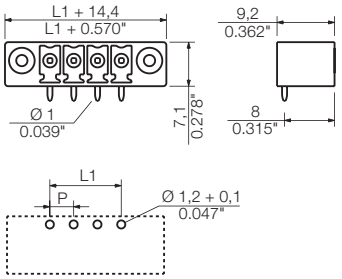
Solder pin length				3.2 mm	3.2 mm
Colour				Orange	Black
Pitch	**3.81 mm**				
Pol.	L1	(inch)	Qty.	Order No.	Order No.
2	3.81	0.150	50	1037490000	1037870000
3	7.62	0.300	50	1037510000	1037880000
4	11.43	0.450	50	1037520000	1037890000
5	15.24	0.600	50	1037530000	1037910000
6	19.05	0.750	50	1037540000	1037920000
7	22.86	0.900	50	1037550000	1037930000
8	26.67	1.050	50	1037560000	1921620000
9	30.48	1.200	50	1037570000	1037940000
10	34.29	1.350	50	1037580000	1037950000
11	38.10	1.500	50	1037590000	1037960000
12	41.91	1.650	50	1037610000	1037970000
13	45.72	1.800	50	1037620000	1037980000
14	49.53	1.950	50	1037630000	1037990000
15	53.34	2.100	50	1037640000	1038010000
16	57.15	2.250	50	1037650000	1038020000

SC 3.81/../270F

with screw flange



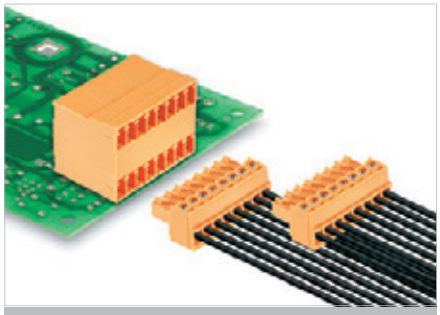
Dimensioned drawing



Ordering data

Solder pin length				3.2 mm	3.2 mm
Colour				Orange	Black
Pitch	**3.81 mm**				
Pol.	L1	(inch)	Qty.	Order No.	Order No.
2	3.81	0.150	50	1038040000	1038410000
3	7.62	0.300	50	1038050000	1038420000
4	11.43	0.450	50	1038060000	1038430000
5	15.24	0.600	50	1038070000	1038440000
6	19.05	0.750	50	1038080000	1038450000
7	22.86	0.900	50	1038090000	1038460000
8	26.67	1.050	50	1038110000	1038470000
9	30.48	1.200	50	1038130000	1038480000
10	34.29	1.350	50	1038140000	1038490000
11	38.10	1.500	50	1038150000	1038510000
12	41.91	1.650	50	1038160000	1038520000
13	45.72	1.800	50	1038170000	1038530000
14	49.53	1.950	50	1038180000	1038540000
15	53.34	2.100	50	1038190000	1038550000
16	57.15	2.250	50	1038210000	1038560000

SCD 3.81/../90



Double-level male header for wave soldering.
- Outlet direction: 90°
- Connections at the same level with access that is flush over the front of the board.
- Available in closed (G) version and with screw flange (F).

Weidmüller's 3.81 mm pitch (0.15 inch) plug-in connectors are compatible with the layouts of standard connectors and offer space for labelling and coding.

Product data

IEC: 320 V / 17.5 A
UL: 300 V / 10 A

For additional articles and information, refer to catalog.weidmueller.com

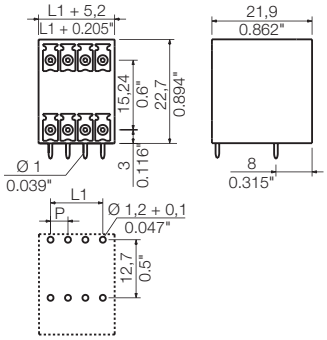
Note:
- Additional colours on request
- Gold-plated contact surfaces on request
- Rated current related to rated cross-section & min. No. of poles.
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- P on drawing = pitch

SCD 3.81/../90G

closed side



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm²			
Solid core H05(07) V-U	**mm²**			
Stranded H07 V-R				
Flexible H05(07) V-K	mm²			
Flexible with ferrule	mm²			
Ferrule with plastic collar	mm²			
Stripping length	mm			
Screwdriver blade	mm			
According to norm				
Tightening torque range	Nm			
Rated current, max.	**A**	**17.5**		**17**
At ambient temperature		20°C		40°C
For conductor cross-section	mm²			
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	**V**	**160**	**160**	**320**
Rated impulse voltage	kV	2.5	2.5	2.5
UL / CUL (Use Group)		**B**	**C**	**D**
Rated voltage	**V**	**300**		**300**
Rated current	**A**	**10**		**10**
AWG conductor	**AWG**		-	
CSA (Use Group)		**B**	**C**	**D**
Rated voltage	V	300		300
Rated current	A	10		10
AWG conductor	AWG		-	
General data				
Type of insulation material		PA GF		
UL 94 flammability rating		V-0		
Contact base material		Copper alloy		
Material of contact surface		tinned		
Pin dimensions = d	mm	1.0, Octagonal		
Solder eyelet Ø = D	mm	1.2		
Solder eyelet Ø tolerance	mm	+ 0,1		

Accessories

Note: Refer to the Accessories chapter for additional accessories.

Coding		Order No.
	SC-SMT 3.81 KO GR	1968900000

Ordering data

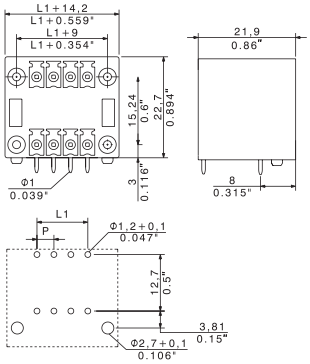
Solder pin length				3.2 mm	3.2 mm
Colour				Orange	Black
Pitch	**3.81 mm**				
Pol.	L1	(inch)	**Qty.**	**Order No.**	**Order No.**
4	3.81	0.150	50	1972790000	1973100000
6	7.62	0.300	50	1972800000	1973110000
8	11.43	0.450	50	1972810000	1973120000
10	15.24	0.600	50	1972820000	1973130000
12	19.05	0.750	50	1972830000	1973140000
14	22.86	0.900	50	1972840000	1973150000
16	26.67	1.050	50	1972850000	1973160000
18	30.48	1.200	50	1972860000	1973170000
20	34.29	1.350	50	1972870000	1973180000
22	38.10	1.500	50	1972880000	1973200000
24	41.91	1.650	50	1972890000	1973210000
26	45.72	1.800	20	1972900000	1973220000
28	49.53	1.950	20	1972910000	1973230000
30	53.34	2.100	20	1972920000	1973240000
32	57.15	2.250	20	1972930000	1973250000

SCD 3.81/../90F

with screw flange



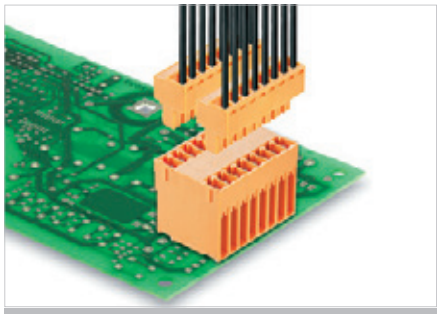
Dimensioned drawing



Ordering data

Solder pin length				3.2 mm	3.2 mm
Colour				Orange	Black
Pitch	**3.81 mm**				
Pol.	L1	(inch)	Qty.	Order No.	Order No.
4	3.81	0.150	50	1973260000	1973580000
6	7.62	0.300	50	1973270000	1973590000
8	11.43	0.450	50	1973280000	1973600000
10	15.24	0.600	50	1973290000	1973610000
12	19.05	0.750	50	1973300000	1973620000
14	22.86	0.900	50	1973310000	1973630000
16	26.67	1.050	50	1973320000	1973640000
18	30.48	1.200	50	1973330000	1973650000
20	34.29	1.350	50	1973340000	1973660000
22	38.10	1.500	50	1973350000	1973670000
24	41.91	1.650	50	1973360000	1973680000
26	45.72	1.800	20	1973370000	1973690000
28	49.53	1.950	20	1973380000	1973700000
30	53.34	2.100	20	1973390000	1973710000
32	57.15	2.250	20	1973400000	1973720000

SCD 3.81/../180



Double-level male header for wave soldering.
- Outlet direction: 180°
- Available in closed (G) version and with screw flange (F).

Weidmüller's 3.81 mm pitch (0.15 inch) plug-in connectors are compatible with the layouts of standard connectors and offer space for labelling and coding.

Product data

IEC: 320 V / 17.5 A
UL: 300 V / 10 A

For additional articles and information, refer to catalog.weidmueller.com

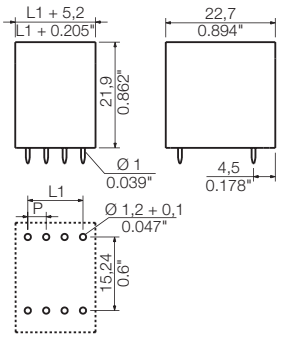
Note:
- Additional colours on request
- Gold-plated contact surfaces on request
- Rated current related to rated cross-section & min. No. of poles.
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- P on drawing = pitch

SCD 3.81/../180G

closed side



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm²			
Solid core H05(07) V-U	**mm²**			
Stranded H07 V-R				
Flexible H05(07) V-K	mm²			
Flexible with ferrule	mm²			
Ferrule with plastic collar	mm²			
Stripping length	mm			
Screwdriver blade	mm			
According to norm				
Tightening torque range	Nm			
Rated current, max.	**A**	**17.5**		**17**
At ambient temperature		20°C		40°C
For conductor cross-section	mm²			
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	**V**	**160**	**160**	**320**
Rated impulse voltage	kV	2.5	2.5	2.5
UL / CUL (Use Group)		**B**	**C**	**D**
Rated voltage	**V**	**300**		**300**
Rated current	**A**	**10**		**10**
AWG conductor	**AWG**		-	
CSA (Use Group)		**B**	**C**	**D**
Rated voltage	V	300		300
Rated current	A	10		10
AWG conductor	AWG		-	
General data				
Type of insulation material		PA GF		
UL 94 flammability rating		V-0		
Contact base material		Copper alloy		
Material of contact surface		tinned		
Pin dimensions = d	mm	1.0, Octagonal		
Solder eyelet Ø = D	mm	1.2		
Solder eyelet Ø tolerance	mm	+ 0,1		

Accessories

Note: Refer to the Accessories chapter for additional accessories.

Coding		Order No.
	SC-SMT 3.81 KO GR	**1968900000**
Mounting screw		
	PTSC KA 2.2X4.5 WN1412	**1610740000**

Ordering data

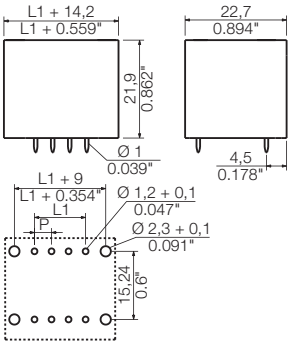
Solder pin length				3.2 mm	3.2 mm
Colour				Orange	Black
Pitch	**3.81 mm**				
Pol.	L1	(inch)	**Qty.**	**Order No.**	**Order No.**
4	3.81	0.150	50	**1029920000**	**1030260000**
6	7.62	0.300	50	**1029940000**	**1030270000**
8	11.43	0.450	50	**1029950000**	**1030280000**
10	15.24	0.600	50	**1029960000**	**1030290000**
12	19.05	0.750	50	**1029970000**	**1030310000**
14	22.86	0.900	50	**1029980000**	**1030320000**
16	26.67	1.050	50	**1029990000**	**1030340000**
18	30.48	1.200	50	**1030010000**	**1030350000**
20	34.29	1.350	50	**1030020000**	**1030360000**
22	38.10	1.500	50	**1030030000**	**1030370000**
24	41.91	1.650	50	**1030040000**	**1030380000**
26	45.72	1.800	20	**1030050000**	**1030390000**
28	49.53	1.950	20	**1030060000**	**1030410000**
30	53.34	2.100	20	**1030070000**	**1030420000**
32	57.15	2.250	20	**1030080000**	**1030430000**

SCD 3.81/../180F

with screw flange



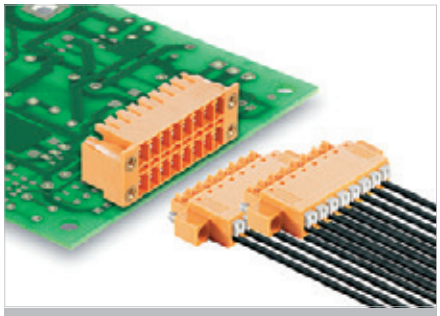
Dimensioned drawing



Ordering data

Solder pin length				3.2 mm	3.2 mm
Colour				Orange	Black
Pitch	**3.81 mm**				
Pol.	L1	(inch)	Qty.	Order No.	Order No.
4	3.81	0.150	50	1030440000	1030780000
6	7.62	0.300	50	1030450000	1030790000
8	11.43	0.450	50	1030460000	1030810000
10	15.24	0.600	50	1030470000	1030820000
12	19.05	0.750	50	1030480000	1030830000
14	22.86	0.900	50	1030490000	1030840000
16	26.67	1.050	50	1030510000	1030850000
18	30.48	1.200	50	1030520000	1030860000
20	34.29	1.350	50	1030530000	1030870000
22	38.10	1.500	50	1030540000	1030880000
24	41.91	1.650	50	1030550000	1030890000
26	45.72	1.800	20	1030560000	1030910000
28	49.53	1.950	20	1030570000	1030920000
30	53.34	2.100	20	1030580000	1030930000
32	57.15	2.250	20	1030590000	1030940000

SCDN 3.81/../90



Compact double-level male header for wave soldering.
- For use with BCF 3.81 (PUSH IN) plugs.
- Orientation: 90°
- Designed for front panel applications.
- Available in closed (G) version or with screw flange (F).

Weidmüller's 3.81 mm pitch (0.15 inch) plug-in connectors are compatible with the layouts of standard connectors and offer space for labelling and coding.

Product data

IEC: 320 V / 17.5 A
UL: 300 V / 10 A

For additional articles and information, refer to catalog.weidmueller.com

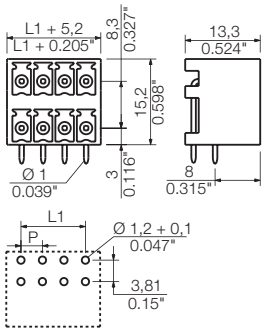
Note:
- Additional colours on request
- Gold-plated contact surfaces on request
- Rated current related to rated cross-section & min. No. of poles.
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- P on drawing = pitch

SCDN 3.81/../90G

closed side



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm²			
Solid core H05(07) V-U	**mm²**			
Stranded H07 V-R				
Flexible H05(07) V-K	mm²			
Flexible with ferrule	mm²			
Ferrule with plastic collar	mm²			
Stripping length	mm			
Screwdriver blade	mm			
According to norm				
Tightening torque range	Nm			
Rated current, max.	**A**	**17.5**		**17**
At ambient temperature		20°C		40°C
For conductor cross-section	mm²			
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	**V**	**160**	**160**	**320**
Rated impulse voltage	kV	2.5	2.5	2.5
UL / CUL (Use Group)		**B**	**C**	**D**
Rated voltage	**V**	**300**		**300**
Rated current	**A**	**10**		**10**
AWG conductor	**AWG**		-	
CSA (Use Group)		**B**	**C**	**D**
Rated voltage	V	300		300
Rated current	A	10		10
AWG conductor	AWG		-	
General data				
Type of insulation material		PA GF		
UL 94 flammability rating		V-0		
Contact base material		Copper alloy		
Material of contact surface		tinned		
Pin dimensions = d	mm	1.0, Octagonal		
Solder eyelet Ø = D	mm	1.2		
Solder eyelet Ø tolerance	mm	+ 0,1		

Accessories

Note: Refer to the Accessories chapter for additional accessories.

Coding		Order No.
	SC-SMT 3.81 KO GR	1968900000

Ordering data

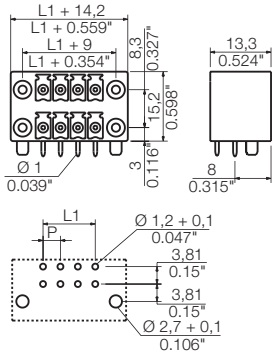
Solder pin length				3.2 mm	3.2 mm
Colour				Orange	Black
Pitch	**3.81 mm**				
Pol.	L1	(inch)	Qty.	Order No.	Order No.
4	3.81	0.150	50	1040410000	1040790000
6	7.62	0.300	50	1040420000	1040810000
8	11.43	0.450	50	1040430000	1040820000
10	15.24	0.600	50	1040440000	1040830000
12	19.05	0.750	50	1040450000	1040840000
14	22.86	0.900	50	1040460000	1040850000
16	26.67	1.050	50	1040470000	1040860000
18	30.48	1.200	50	1040490000	1040870000
20	34.29	1.350	50	1040510000	1040890000
22	38.10	1.500	50	1040520000	1040900000
24	41.91	1.650	50	1040530000	1040910000
26	45.72	1.800	20	1040540000	1040920000
28	49.53	1.950	20	1040550000	1040930000
30	53.34	2.100	20	1040560000	1040940000
32	57.15	2.250	20	1040570000	1040950000

SCDN 3.81/../90F

with screw flange



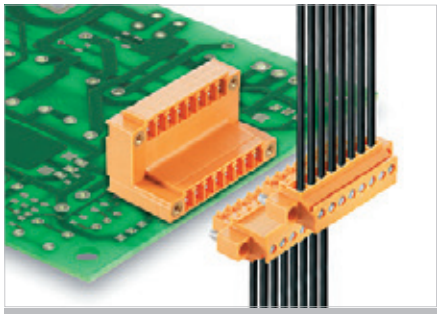
Dimensioned drawing



Ordering data

Solder pin length				3.2 mm	3.2 mm
Colour				Orange	Black
Pitch	**3.81 mm**				
Pol.	L1	(inch)	Qty.	Order No.	Order No.
4	3.81	0.150	50	1040960000	1041290000
6	7.62	0.300	50	1040970000	1041310000
8	11.43	0.450	50	1040980000	1041320000
10	15.24	0.600	50	1040990000	1041330000
12	19.05	0.750	50	1041000000	1041340000
14	22.86	0.900	50	1041010000	1041350000
16	26.67	1.050	50	1041020000	1041360000
18	30.48	1.200	50	1041030000	1041370000
20	34.29	1.350	50	1041040000	1041380000
22	38.10	1.500	50	1041050000	1041390000
24	41.91	1.650	50	1041060000	1041430000
26	45.72	1.800	20	1041070000	1041450000
28	49.53	1.950	20	1041080000	1041460000
30	53.34	2.100	20	1041090000	1041470000
32	57.15	2.250	20	1041110000	1041480000

SCDV 3.81/../90



Double level male header for wave soldering.

- Orientation: 90°
- Connections at two offset levels with open access to each row.
- Available in closed (G) version or with screw flange (F).

Weidmüller's 3.81 mm pitch (0.15 inch) plug-in connectors are compatible with the layouts of standard connectors and offer space for labelling and coding.

Product data

IEC: 320 V / 17.5 A
UL: 300 V / 10 A

For additional articles and information, refer to catalog.weidmueller.com

Note:

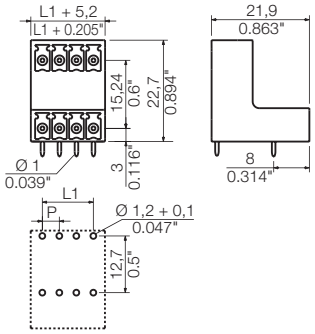
- Additional colours on request
- Gold-plated contact surfaces on request
- Rated current related to rated cross-section & min. No. of poles.
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- P on drawing = pitch

SCDV 3.81/../90G

closed side



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm²			
Solid core H05(07) V-U	**mm²**			
Stranded H07 V-R				
Flexible H05(07) V-K	mm²			
Flexible with ferrule	mm²			
Ferrule with plastic collar	mm²			
Stripping length	mm			
Screwdriver blade	mm			
According to norm				
Tightening torque range	Nm			
Rated current, max.	**A**	**17.5**		**17**
At ambient temperature		20°C		40°C
For conductor cross-section	mm²			
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	**V**	**160**	**160**	**320**
Rated impulse voltage	kV	2.5	2.5	2.5
UL / CUL (Use Group)		**B**	**C**	**D**
Rated voltage	**V**	**300**		**300**
Rated current	**A**	**10**		**10**
AWG conductor	**AWG**		-	
CSA (Use Group)		**B**	**C**	**D**
Rated voltage	V	300		300
Rated current	A	10		10
AWG conductor	AWG		-	
General data				
Type of insulation material		PA GF		
UL 94 flammability rating		V-0		
Contact base material		Copper alloy		
Material of contact surface		tinned		
Pin dimensions = d	mm	1.0, Octagonal		
Solder eyelet Ø = D	mm	1.2		
Solder eyelet Ø tolerance	mm	+ 0,1		

Accessories

Note: Refer to the Accessories chapter for additional accessories.

Coding		Order No.
	SC-SMT 3.81 KO GR	1968900000

Ordering data

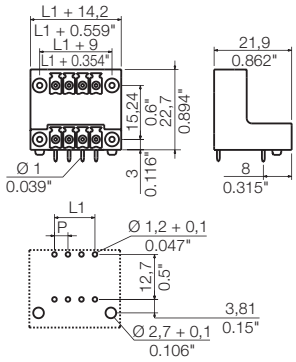
Solder pin length				3.2 mm	3.2 mm
Colour				Orange	Black
Pitch	**3.81 mm**				
Pol.	L1	(inch)	**Qty.**	**Order No.**	**Order No.**
4	3.81	0.150	50	1032090000	1032430000
6	7.62	0.300	50	1032110000	1032440000
8	11.43	0.450	50	1032120000	1032450000
10	15.24	0.600	50	1032130000	1032460000
12	19.05	0.750	50	1032140000	1032470000
14	22.86	0.900	50	1032150000	1032480000
16	26.67	1.050	50	1032160000	1032490000
18	30.48	1.200	50	1032170000	1032500000
20	34.29	1.350	50	1032190000	1032510000
22	38.10	1.500	50	1032200000	1032520000
24	41.91	1.650	50	1032210000	1032530000
26	45.72	1.800	20	1032220000	1032540000
28	49.53	1.950	20	1032230000	1032550000
30	53.34	2.100	20	1032240000	1032560000
32	57.15	2.250	20	1032250000	1032570000

SCDV 3.81/../90F

with screw flange



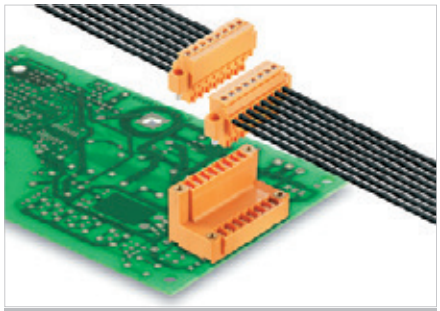
Dimensioned drawing



Ordering data

Solder pin length				3.2 mm	3.2 mm
Colour				Orange	Black
Pitch	**3.81 mm**				
Pol.	L1	(inch)	Qty.	Order No.	Order No.
4	3.81	0.150	50	1032580000	1032920000
6	7.62	0.300	50	1032590000	1032930000
8	11.43	0.450	50	1032600000	1032940000
10	15.24	0.600	50	1032610000	1032950000
12	19.05	0.750	50	1032620000	1032960000
14	22.86	0.900	50	1032630000	1032970000
16	26.67	1.050	50	1032640000	1032990000
18	30.48	1.200	50	1032650000	1033010000
20	34.29	1.350	50	1032660000	1033020000
22	38.10	1.500	50	1032670000	1033030000
24	41.91	1.650	50	1032680000	1033040000
26	45.72	1.800	20	1032690000	1033050000
28	49.53	1.950	20	1032710000	1033060000
30	53.34	2.100	20	1032720000	1033070000
32	57.15	2.250	20	1032730000	1033090000

SCDV 3.81/../180



Double-level male header for wave soldering.
- Orientation: 180°.
- Connections at two offset levels with open access to each row.
- Available in closed (G) version or with screw flange (F).

Weidmüller's 3.81 mm pitch (0.15 inch) plug-in connectors are compatible with the layouts of standard connectors and offer space for labelling and coding.

Product data

IEC: 320 V / 17.5 A
UL: 300 V / 10 A

For additional articles and information, refer to catalog.weidmueller.com

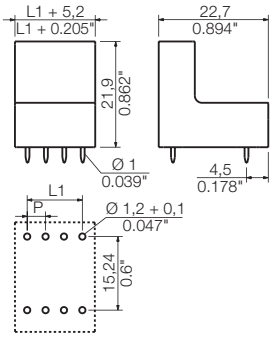
Note:
- Additional colours on request
- Gold-plated contact surfaces on request
- Rated current related to rated cross-section & min. No. of poles.
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- P on drawing = pitch

SCDV 3.81/../180G

closed side



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm²			
Solid core H05(07) V-U	**mm²**			
Stranded H07 V-R				
Flexible H05(07) V-K	mm²			
Flexible with ferrule	mm²			
Ferrule with plastic collar	mm²			
Stripping length	mm			
Screwdriver blade	mm			
According to norm				
Tightening torque range	Nm			
Rated current, max.	**A**	**17.5**		**17**
At ambient temperature		20°C		40°C
For conductor cross-section	mm²			
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	**V**	**160**	**160**	**320**
Rated impulse voltage	kV	2.5	2.5	2.5
UL / CUL (Use Group)		**B**	**C**	**D**
Rated voltage	**V**	**300**		**300**
Rated current	**A**	**10**		**10**
AWG conductor	**AWG**		-	
CSA (Use Group)		**B**	**C**	**D**
Rated voltage	V	300		300
Rated current	A	10		10
AWG conductor	AWG		-	
General data				
Type of insulation material		PA GF		
UL 94 flammability rating		V-0		
Contact base material		Copper alloy		
Material of contact surface		tinned		
Pin dimensions = d	mm	1.0, Octagonal		
Solder eyelet Ø = D	mm	1.2		
Solder eyelet Ø tolerance	mm	+ 0,1		

Accessories

Note: Refer to the Accessories chapter for additional accessories.

Coding		Order No.
	SC-SMT 3.81 KO GR	**1968900000**
Mounting screw		
	PTSC KA 2.2X4.5 WN1412	**1610740000**

Ordering data

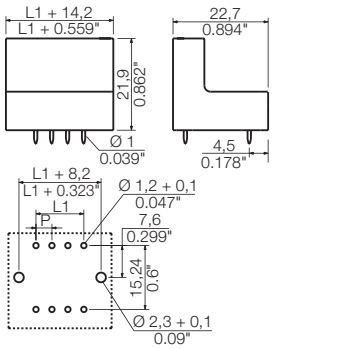
Solder pin length				3.2 mm	3.2 mm
Colour				Orange	Black
Pitch	**3.81 mm**				
Pol.	L1	(inch)	**Qty.**	**Order No.**	**Order No.**
4	3.81	0.150	50	**1034470000**	**1034820000**
6	7.62	0.300	50	**1034490000**	**1034830000**
8	11.43	0.450	50	**1034510000**	**1034840000**
10	15.24	0.600	50	**1034520000**	**1034850000**
12	19.05	0.750	50	**1034530000**	**1034860000**
14	22.86	0.900	50	**1034540000**	**1034870000**
16	26.67	1.050	50	**1034550000**	**1034880000**
18	30.48	1.200	50	**1034560000**	**1034890000**
20	34.29	1.350	50	**1034570000**	**1034910000**
22	38.10	1.500	50	**1034580000**	**1034920000**
24	41.91	1.650	50	**1034590000**	**1034930000**
26	45.72	1.800	20	**1034610000**	**1034940000**
28	49.53	1.950	20	**1034620000**	**1034950000**
30	53.34	2.100	20	**1034630000**	**1034960000**
32	57.15	2.250	20	**1034640000**	**1034970000**

SCDV 3.81/../180F

with screw flange



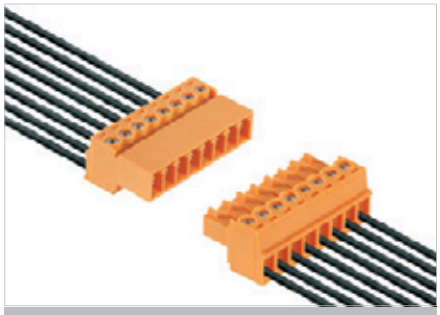
Dimensioned drawing



Ordering data

Solder pin length				3.2 mm	3.2 mm
Colour				Orange	Black
Pitch	**3.81 mm**				
Pol.	L1	(inch)	Qty.	Order No.	Order No.
4	3.81	0.150	50	1034980000	1035310000
6	7.62	0.300	50	1034990000	1035320000
8	11.43	0.450	50	1035010000	1035330000
10	15.24	0.600	50	1035020000	1035340000
12	19.05	0.750	50	1035030000	1035350000
14	22.86	0.900	50	1035040000	1035360000
16	26.67	1.050	50	1035050000	1035370000
18	30.48	1.200	50	1035060000	1035380000
20	34.29	1.350	50	1035070000	1035390000
22	38.10	1.500	50	1035080000	1035410000
24	41.91	1.650	50	1035090000	1035420000
26	45.72	1.800	20	1035110000	1035430000
28	49.53	1.950	20	1035120000	1035440000
30	53.34	2.100	20	1035130000	1035450000
32	57.15	2.250	20	1035140000	1035460000

SCZ 3.81/../ 180



Inverted male plug with screw connection:
- Wire-to-wire connection with the BCZ female plug
- Board-to-wire connection with the BCL-SMT female header.
- Available in closed (G) version, screw flange (F), inverted flange (FI) and with lock and release lever (LR).

Weidmüller's 3.81 mm pitch (0.15 inch) plug-in connectors are compatible with the layouts of standard connectors and offer space for labelling and coding.

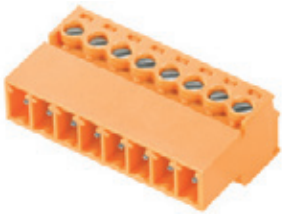
Product data

IEC: 320 V / 17.5 A / 0.2 - 1.5 mm²
UL: 300 V / 10 A / AWG 28 - 16

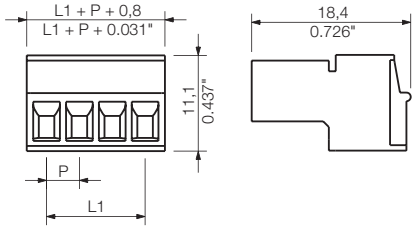
For additional articles and information, refer to catalog.weidmueller.com

Note:
- Additional colours on request
- Gold-plated contact surfaces on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule with plastic collar to DIN 46228/4
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

SCZ 3.81/../180G



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm²	0.08...1.5		
Solid core H05(07) V-U	**mm²**	**0.2...1.5**		
Stranded H07 V-R				
Flexible H05(07) V-K	mm²	0.2...1.5		
Flexible with ferrule	mm²	0.2...1.5		
Ferrule with plastic collar	mm²	0.2...1.5		
Stripping length	mm	7		
Screwdriver blade	mm	0.4 x 2.5		
According to norm		DIN 5264		
Tightening torque range	Nm	0.2...0.25		
Rated current, max.	**A**	**17.5**		**17.5**
At ambient temperature		20°C		40°C
For conductor cross-section	mm²	1		
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	**V**	**160**	**160**	**320**
Rated impulse voltage	kV	2.5	2.5	2.5
UL / CUL (Use Group)		**B**	**C**	**D**
Rated voltage	**V**	**300**		**300**
Rated current	**A**	**10**		**10**
AWG conductor	**AWG**		**28-16**	
CSA (Use Group)		**B**	**C**	**D**
Rated voltage	V	300		300
Rated current	A	10		10
AWG conductor	AWG		28-16	
General data				
Type of insulation material		PA GF		
UL 94 flammability rating		V-0		
Contact base material		Copper alloy		
Material of contact surface		tinned		
Pin dimensions = d	mm			
Solder eyelet Ø = D	mm			
Solder eyelet Ø tolerance	mm			

Accessories

Note: Refer to the Accessories chapter for additional accessories.

Coding		Order No.
	SC-SMT 3.81 KO GR	**1968900000**
Screwdriver		
	SDIS 0.4X2.5X75	**9008370000**
	SDS 0.4X2.5X75	**9009030000**

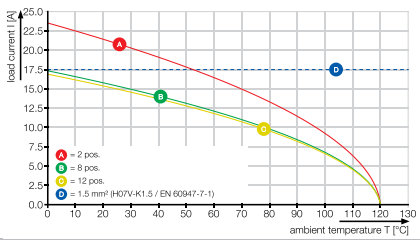
Ordering data

Solder pin length

Colour				Orange	Black
Pitch	**3.81 mm**				
Pol.	**L1**	**(inch)**	**Qty.**	**Order No.**	**Order No.**
2	3.81	0.150	50	**1969520000**	**1970010000**
3	7.62	0.300	50	**1969540000**	**1970020000**
4	11.43	0.450	50	**1969560000**	**1970030000**
5	15.24	0.600	50	**1969570000**	**1970050000**
6	19.05	0.750	50	**1969580000**	**1970060000**
7	22.86	0.900	50	**1969590000**	**1970070000**
8	26.67	1.050	50	**1969610000**	**1970080000**
9	30.48	1.200	50	**1969630000**	**1970090000**
10	34.29	1.350	50	**1969640000**	**1970100000**
11	38.10	1.500	50	**1969660000**	**1970110000**
12	41.91	1.650	50	**1969670000**	**1970120000**

Representative deratings curve

BCL-SMT 3.81/../90 - SCZ 3.81/../180

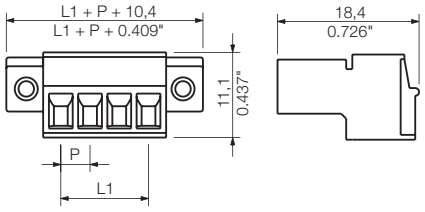


SCZ 3.81/../ 180F

with screw flange



Dimensioned drawing



Ordering data

Solder pin length

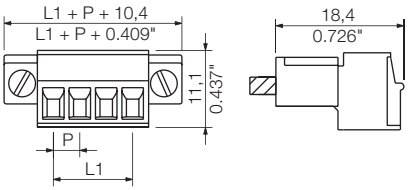
Colour				Orange	Black
Pitch	**3.81 mm**				
Pol.	**L1**	**(inch)**	**Qty.**	**Order No.**	**Order No.**
2	3.81	0.150	50	**1970910000**	**1971290000**
3	7.62	0.300	50	**1970920000**	**1971310000**
4	11.43	0.450	50	**1970930000**	**1971320000**
5	15.24	0.600	50	**1970940000**	**1971340000**
6	19.05	0.750	50	**1970960000**	**1971350000**
7	22.86	0.900	50	**1970970000**	**1971360000**
8	26.67	1.050	50	**1970980000**	**1971370000**
9	30.48	1.200	50	**1970990000**	**1971400000**
10	34.29	1.350	50	**1971000000**	**1971410000**
11	38.10	1.500	50	**1971010000**	**1971510000**
12	41.91	1.650	50	**1971020000**	**1971520000**

SCZ 3.81/../180FI

with inverted flange



Dimensioned drawing



Ordering data

Solder pin length

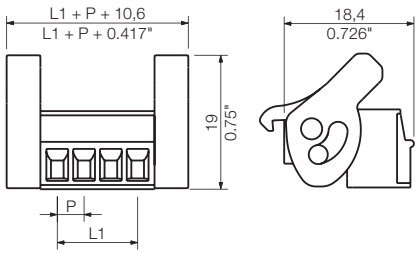
Colour				Orange	Black
Pitch	**3.81 mm**				
Pol.	**L1**	**(inch)**	**Qty.**	**Order No.**	**Order No.**
2	3.81	0.150	50	**1970260000**	**1970700000**
3	7.62	0.300	50	**1970270000**	**1970710000**
4	11.43	0.450	50	**1970310000**	**1970720000**
5	15.24	0.600	50	**1970320000**	**1970740000**
6	19.05	0.750	50	**1970340000**	**1970760000**
7	22.86	0.900	50	**1970350000**	**1970770000**
8	26.67	1.050	50	**1970360000**	**1970780000**
9	30.48	1.200	50	**1970390000**	**1970790000**
10	34.29	1.350	50	**1970410000**	**1970800000**
11	38.10	1.500	50	**1970420000**	**1970810000**
12	41.91	1.650	50	**1970430000**	**1970830000**

SCZ 3.81/../180LR

with release latch



Dimensioned drawing



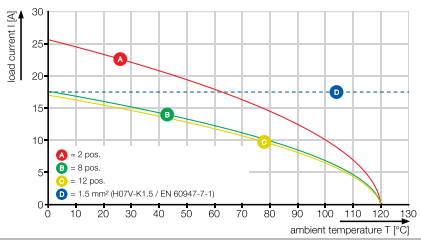
Ordering data

Solder pin length

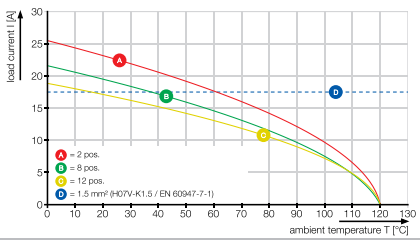
Colour				Orange	Black
Pitch	**3.81 mm**				
Pol.	**L1**	**(inch)**	**Qty.**	**Order No.**	**Order No.**
2	3.81	0.150	50	**1971580000**	**1971980000**
3	7.62	0.300	50	**1971600000**	**1971990000**
4	11.43	0.450	50	**1971610000**	**1972010000**
5	15.24	0.600	50	**1971630000**	**1972020000**
6	19.05	0.750	50	**1971640000**	**1972040000**
7	22.86	0.900	50	**1971660000**	**1972050000**
8	26.67	1.050	50	**1971670000**	**1972060000**
9	30.48	1.200	50	**1971680000**	**1972080000**
10	34.29	1.350	50	**1971690000**	**1972090000**
11	38.10	1.500	50	**1971700000**	**1972110000**
12	41.91	1.650	50	**1971710000**	**1972120000**

Additional deratings curves

BCL-SMT 3.81/../180 - SCZ 3.81/../180



BCZ 3.81/../180 - SCZ 3.81/../180



SCZ 3.81/../180 ZE



Inverted male plug with screw connection and strain relief for the connected cable.

- Wire-to-wire connection with female plugs.
- Board-to-wire connection with BCL-SMT female header.
- Available in closed (G) version, screw flange (F), inverted flange (FI) and with lock and release lever (LR).

Weidmüller's 3.81 mm pitch (0.15 inch) plug-in connectors are compatible with the layouts of standard connectors and offer space for labelling and coding.

Product data

IEC: 320 V / 17.5 A / 0.2 - 1.5 mm²
UL: 300 V / 10 A / AWG 28 - 16

For additional articles and information, refer to catalog.weidmueller.com

Note:

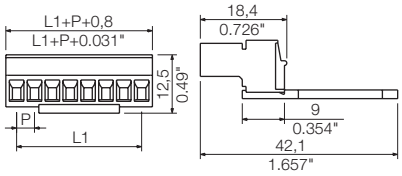
- Additional colours on request
- Gold-plated contact surfaces on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule with plastic collar to DIN 46228/4
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

SCZ 3.81/../180GZE

with strain relief



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm²	0.08...1.5		
Solid core H05(07) V-U	**mm²**	**0.2...1.5**		
Stranded H07 V-R				
Flexible H05(07) V-K	mm²	0.2...1.5		
Flexible with ferrule	mm²	0.2...1.5		
Ferrule with plastic collar	mm²	0.2...1.5		
Stripping length	mm	7		
Screwdriver blade	mm	0.4 x 2.5		
According to norm		DIN 5264		
Tightening torque range	Nm	0.2...0.25		
Rated current, max.	**A**	**17.5**		**17.5**
At ambient temperature		20°C		40°C
For conductor cross-section	mm²	1		
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	**V**	**160**	**160**	**320**
Rated impulse voltage	kV	2.5	2.5	2.5
UL / CUL (Use Group)		**B**	**C**	**D**
Rated voltage	**V**	**300**		**300**
Rated current	**A**	**10**		**10**
AWG conductor	**AWG**		**28-16**	
CSA (Use Group)		**B**	**C**	**D**
Rated voltage	V	300		300
Rated current	A	10		10
AWG conductor	AWG		28-16	
General data				
Type of insulation material			PA GF	
UL 94 flammability rating			V-0	
Contact base material			Copper alloy	
Material of contact surface			tinned	
Pin dimensions = d	mm			
Solder eyelet Ø = D	mm			
Solder eyelet Ø tolerance	mm			

Accessories

Note: Refer to the Accessories chapter for additional accessories.

Coding		Order No.
	SC-SMT 3.81 KO GR	1968900000
Screwdriver		
	SDIS 0.4X2.5X75	9008370000
	SDS 0.4X2.5X75	9009030000

Ordering data

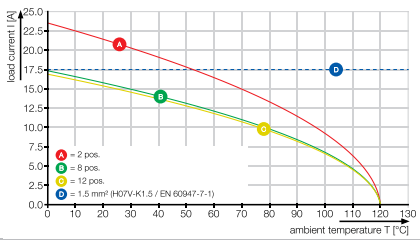
Solder pin length

Colour				Orange	Black
Pitch	**3.81 mm**				
Pol.	**L1**	**(inch)**	**Qty.**	**Order No.**	**Order No.**
4	11.43	0.450	50	1237000000	1236990000
5	15.24	0.600	50	1237010000	1071710000
6	19.05	0.750	50	1237020000	1071720000
7	22.86	0.900	50	1237030000	1071730000
8	26.67	1.050	50	1237040000	1071740000
9	30.48	1.200	50	1237070000	1071750000
10	34.29	1.350	50	1237080000	1071760000
11	38.10	1.500	50	1237090000	1071770000
12	41.91	1.650	50	1237100000	1071780000

from 10 pole 2 strain reliefs per plug-in connector

Representative deratings curve

BCL-SMT 3.81/../90 - SCZ 3.81/../180



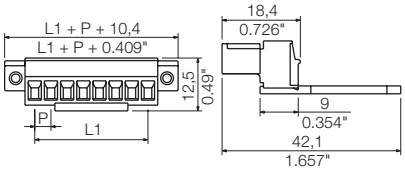
from 10 pole 2 strain reliefs per plug-in connector

SCZ 3.81/../180FZE

with screw flange and strain relief



Dimensioned drawing



Ordering data

Solder pin length

Colour				Orange	Black
Pitch	**3.81 mm**				
Pol.	L1	(inch)	**Qty.**	**Order No.**	**Order No.**
4	11.43	0.450	50	**1237120000**	**1237110000**
5	15.24	0.600	50	**1237130000**	**1071790000**
6	19.05	0.750	50	**1237140000**	**1071810000**
7	22.86	0.900	50	**1237170000**	**1071820000**
8	26.67	1.050	50	**1237180000**	**1071830000**
9	30.48	1.200	50	**1237190000**	**1071840000**
10	34.29	1.350	50	**1237200000**	**1071850000**
11	38.10	1.500	50	**1237210000**	**1071860000**
12	41.91	1.650	50	**1237220000**	**1071870000**

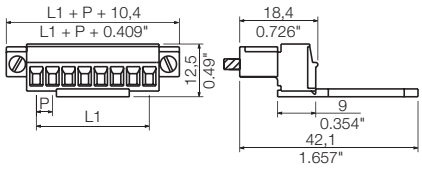
from 10 pole 2 strain reliefs per plug-in connector

SCZ 3.81/../180FIZE

with inverted screw flange and strain relief



Dimensioned drawing



Ordering data

Solder pin length

Colour				Orange	Black
Pitch	**3.81 mm**				
Pol.	L1	(inch)	**Qty.**	**Order No.**	**Order No.**
4	11.43	0.450	50	**1237550000**	**1237440000**
5	15.24	0.600	50	**1237560000**	**1237450000**
6	19.05	0.750	50	**1237570000**	**1237470000**
7	22.86	0.900	50	**1237580000**	**1237480000**
8	26.67	1.050	50	**1237590000**	**1237490000**
9	30.48	1.200	50	**1237610000**	**1237510000**
10	34.29	1.350	50	**1237620000**	**1237520000**
11	38.10	1.500	50	**1237630000**	**1237530000**
12	41.91	1.650	50	**1237640000**	**1237540000**

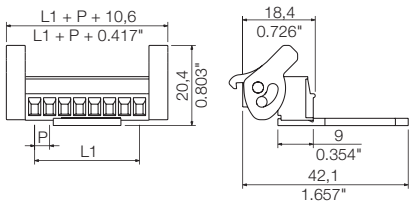
from 10 pole 2 strain reliefs per plug-in connector

SCZ 3.81/../180LRZE

with release latch and strain relief



Dimensioned drawing



Ordering data

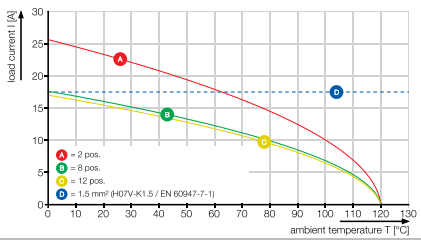
Solder pin length

Colour				Orange	Black
Pitch	**3.81 mm**				
Pol.	L1	(inch)	**Qty.**	**Order No.**	**Order No.**
4	11.43	0.450	50	**1237340000**	**1237230000**
5	15.24	0.600	50	**1237350000**	**1237240000**
6	19.05	0.750	50	**1237370000**	**1237270000**
7	22.86	0.900	50	**1237380000**	**1237280000**
8	26.67	1.050	50	**1237390000**	**1237290000**
9	30.48	1.200	50	**1237400000**	**1237300000**
10	34.29	1.350	50	**1237410000**	**1237310000**
11	38.10	1.500	50	**1237420000**	**1237320000**
12	41.91	1.650	50	**1237430000**	**1237330000**

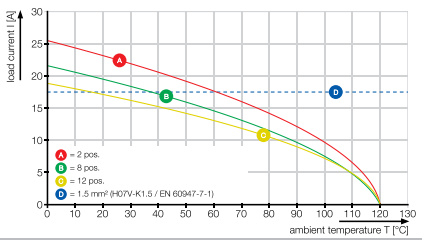
from 10 pole 2 strain reliefs per plug-in connector

Additional deratings curves

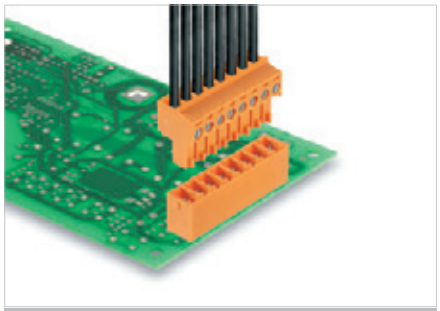
BCL-SMT 3.81/../180 - SCZ 3.81/../180



BCZ 3.81/../180 - SCZ 3.81/../180



BCZ 3.81/../180



Female plug with screw connection. Wire outlet 180° (wire is straight on to the direction of plugging).

- Available in closed version, with screw flange (F) and lock and release-lever (LR).

Weidmüller's 3.81 mm pitch (0.15 inch) plug-in connectors are compatible with the layouts of standard connectors and offer space for labelling and coding.

Product data

IEC: 320 V / 17.5 A / 0.2 - 1.5 mm²
UL: 300 V / 10 A / AWG 28 - 16

For additional articles and information, refer to catalog.weidmueller.com

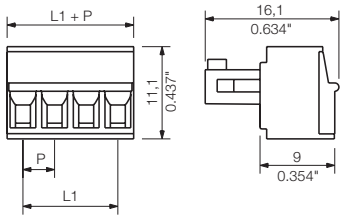
Note:

- Additional colours on request
- Gold-plated contact surfaces on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

BCZ 3.81/../180



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm²	0.08...1.5		
Solid core H05(07) V-U	**mm²**	**0.2...1.5**		
Stranded H07 V-R				
Flexible H05(07) V-K	mm²	0.2...1.5		
Flexible with ferrule	mm²	0.2...1.5		
Ferrule with plastic collar	mm²	0.2...1.5		
Stripping length	mm	7		
Screwdriver blade	mm	0.4 x 2.5		
According to norm		DIN 5264		
Tightening torque range	Nm	0.2...0.25		
Rated current, max.	**A**	**17.5**		**17**
At ambient temperature		20°C		40°C
For conductor cross-section	mm²	1		
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	**V**	**160**	**160**	**320**
Rated impulse voltage	kV	2.5	2.5	2.5
UL / CUL (Use Group)		**B**	**C**	**D**
Rated voltage	**V**	**300**		**300**
Rated current	**A**	**10**		**10**
AWG conductor	**AWG**		**28-16**	
CSA (Use Group)		**B**	**C**	**D**
Rated voltage	V	300		300
Rated current	A	10		10
AWG conductor	AWG		28-16	
General data				
Type of insulation material		PA GF		
UL 94 flammability rating		V-0		
Contact base material		Copper alloy		
Material of contact surface		tinned		
Pin dimensions = d	mm			
Solder eyelet Ø = D	mm			
Solder eyelet Ø tolerance	mm			

Accessories

Note: Refer to the Accessories chapter for additional accessories.

Hood		Order No.
	BCZ 3.81 AH03	1005280000
	BCZ 3.81 AH04	1005290000
	BCZ 3.81 AH05	1005300000
	BCZ 3.81 AH06	1005310000
	BCZ 3.81 AH07	1005320000
	BCZ 3.81 AH08	1005330000
	BCZ 3.81 AH09	1005340000
	BCZ 3.81 AH10	1005350000
	BCZ 3.81 AH12	1005370000
	BCZ 3.81 AH13	1005380000
	BCZ 3.81 AH14	1005390000
	BCZ 3.81 AH15	1005400000
	BCZ 3.81 AH16	1005410000
Screwdriver		
	SDIS 0.4X2.5X75	9008370000
	SDS 0.4X2.5X75	9009030000

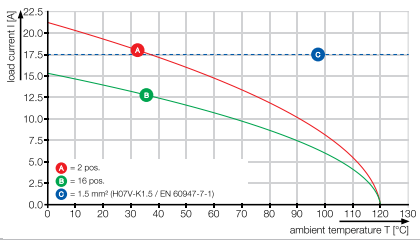
Ordering data

Solder pin length

Colour				Orange	Black
Pitch	**3.81 mm**				
Pol.	L1	(inch)	Qty.	Order No.	Order No.
2	3.81	0.150	50	1940730000	1792770000
3	7.62	0.300	50	1940740000	1792780000
4	11.43	0.450	50	1940750000	1792790000
5	15.24	0.600	50	1940760000	1792800000
6	19.05	0.750	50	1940770000	1792810000
7	22.86	0.900	50	1940780000	1871410000
8	26.67	1.050	50	1940790000	1792820000
9	30.48	1.200	50	1940800000	1871390000
10	34.29	1.350	50	1940810000	1792830000
11	38.10	1.500	50	1940820000	1899400000
12	41.91	1.650	50	1940830000	1792840000
13	45.72	1.800	50	1940840000	1899440000
14	49.53	1.950	50	1940850000	1899480000
15	53.34	2.100	50	1940860000	1899520000
16	57.15	2.250	50	1940870000	1792850000
17	60.96	2.550	50	1940890000	1940970000
18	64.77	2.550	50	1940900000	1940980000
19	68.58	2.700	50	1940910000	1940990000
20	72.39	2.850	50	1940920000	1941000000

Representative deratings curve

BCZ 3.81/../180 - SC-SMT 3.81/../90

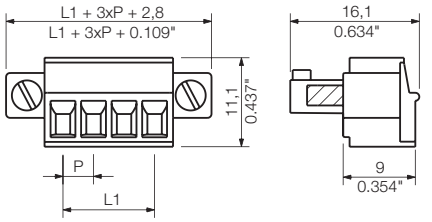


BCZ 3.81/../180F

with screw flange



Dimensioned drawing



Ordering data

Solder pin length

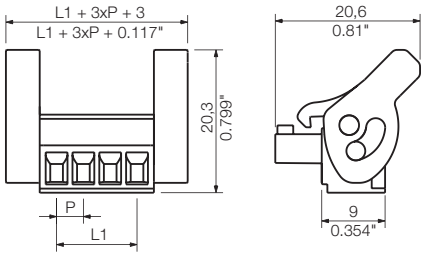
Colour				Orange	Black
Pitch	**3.81 mm**				
Pol.	L1	(inch)	Qty.	Order No.	Order No.
2	3.81	0.150	50	1941010000	1792950000
3	7.62	0.300	50	1941020000	1792960000
4	11.43	0.450	50	1941030000	1792970000
5	15.24	0.600	50	1941040000	1792980000
6	19.05	0.750	50	1941050000	1792990000
7	22.86	0.900	50	1941060000	1837020000
8	26.67	1.050	50	1941070000	1793000000
9	30.48	1.200	50	1941080000	1899530000
10	34.29	1.350	50	1941090000	1793010000
11	38.10	1.500	50	1941100000	1899550000
12	41.91	1.650	50	1941110000	1793020000
13	45.72	1.800	50	1941120000	1899570000
14	49.53	1.950	50	1941130000	1899590000
15	53.34	2.100	50	1941140000	1899610000
16	57.15	2.250	50	1941150000	1793030000
17	60.96	2.400	50	1941160000	1941360000
18	64.77	2.550	50	1941170000	1941370000
19	68.58	2.700	50	1941180000	1941380000
20	72.39	2.850	50	1941190000	1941390000

BCZ 3.81/../180LR

with release latch



Dimensioned drawing



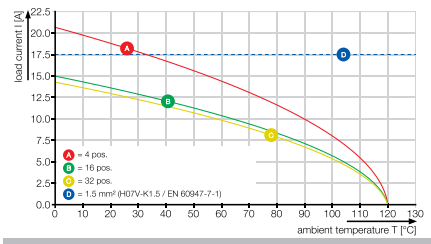
Ordering data

Solder pin length

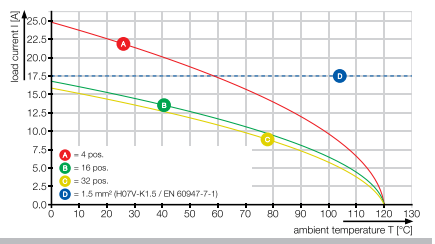
Colour				Orange	Black
Pitch	**3.81 mm**				
Pol.	L1	(inch)	Qty.	Order No.	Order No.
2	3.81	0.150	50	1941400000	1941780000
3	7.62	0.300	50	1941410000	1941790000
4	11.43	0.450	50	1941420000	1941800000
5	15.24	0.600	50	1941430000	1941810000
6	19.05	0.750	50	1941440000	1941820000
7	22.86	0.900	50	1941450000	1941830000
8	26.67	1.050	50	1941460000	1941840000
9	30.48	1.200	50	1941470000	1941850000
10	34.29	1.350	50	1941480000	1941860000
11	38.10	1.500	50	1941490000	1941870000
12	41.91	1.650	50	1941500000	1941880000
13	45.72	1.800	50	1941510000	1941890000
14	49.53	1.950	50	1941520000	1941900000
15	53.34	2.100	50	1941530000	1941910000
16	57.15	2.250	50	1941540000	1941920000
17	60.96	2.400	50	1941550000	1941930000
18	64.77	2.550	50	1941560000	1941940000
19	68.58	2.700	50	1941570000	1941950000
20	72.39	2.850	50	1941580000	1941960000

Additional deratings curves

BCZ 3.81/../180 - SCD-THR 3.81/../90



BCZ 3.81/../180 - SCDV-THR 3.81/../180



BCZ 3.81/../180 ZE



Female plug with screw connection and strain relief for the connected cable. Wire outlet 180° (wire is straight on to the direction of plugging).

- Available in closed version, with screw flange (F) and lock and release-lever (LR).

Weidmüller's 3.81 mm pitch (0.15 inch) plug-in connectors are compatible with the layouts of standard connectors and offer space for labelling and coding.

Product data

IEC: 320 V / 17.5 A / 0.2 - 1.5 mm²
UL: 300 V / 10 A / AWG 28 - 16

For additional articles and information, refer to catalog.weidmueller.com

Note:

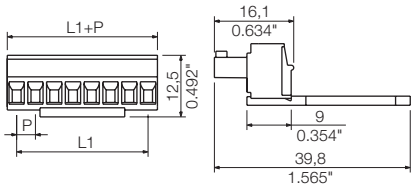
- Additional colours on request
- Gold-plated contact surfaces on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

BCZ 3.81/../180ZE

with strain relief



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm²	0.08...1.5		
Solid core H05(07) V-U	**mm²**	**0.2...1.5**		
Stranded H07 V-R				
Flexible H05(07) V-K	mm²	0.2...1.5		
Flexible with ferrule	mm²	0.2...1.5		
Ferrule with plastic collar	mm²	0.2...1.5		
Stripping length	mm	7		
Screwdriver blade	mm			
According to norm		DIN 5264		
Tightening torque range	Nm	0.2...0.25		
Rated current, max.	**A**	**17.5**		**17**
At ambient temperature		20°C		40°C
For conductor cross-section	mm²	1		
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	**V**	**160**	**160**	**320**
Rated impulse voltage	kV	2.5	2.5	2.5
UL / CUL (Use Group)		**B**	**C**	**D**
Rated voltage	**V**	**300**		**300**
Rated current	**A**	**10**		**10**
AWG conductor	**AWG**		**28-16**	
CSA (Use Group)		**B**	**C**	**D**
Rated voltage	V	300		300
Rated current	A	10		10
AWG conductor	AWG		28-16	
General data				
Type of insulation material		PA GF		
UL 94 flammability rating		V-0		
Contact base material		Copper alloy		
Material of contact surface				
Pin dimensions = d	mm			
Solder eyelet Ø = D	mm			
Solder eyelet Ø tolerance	mm			

Accessories

Note: Refer to the Accessories chapter for additional accessories.

Screwdriver		Order No.
	SDIS 0.4X2.5X75	9008370000
	SDS 0.4X2.5X75	9009030000

Ordering data

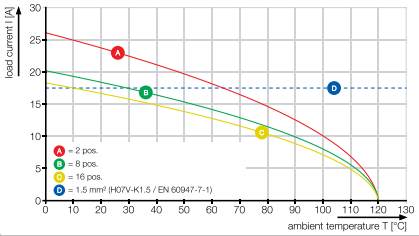
Solder pin length

Colour				Orange	Black
Pitch	**3.81 mm**				
Pol.	**L1**	**(inch)**	**Qty.**	**Order No.**	**Order No.**
5	15.24	0.600	50	1236270000	1071950000
6	19.05	0.750	50	1236280000	1071960000
7	22.86	0.900	50	1236290000	1071970000
8	26.67	1.050	50	1236300000	1941970000
9	30.48	1.200	50	1236320000	1071980000
10	34.29	1.350	50	1236330000	1072010000
11	38.10	1.500	50	1236340000	1072020000
12	41.91	1.650	50	1236370000	1072030000
13	45.72	1.800	50	1236380000	1072040000
14	49.53	1.950	50	1236390000	1072050000
15	53.34	2.100	50	1236400000	1072060000
16	57.15	2.250	50	1236410000	1072070000
17	60.96	2.400	50	1236420000	1072080000
18	64.77	2.550	50	1236430000	1072090000
19	68.58	2.700	50	1236440000	1072110000
20	72.39	2.850	50	1236470000	1072120000

from 10 pole 2 strain reliefs per plug-in connector

Representative deratings curve

BCZ 3.81/../180 - SC-SMT 3.81/../135



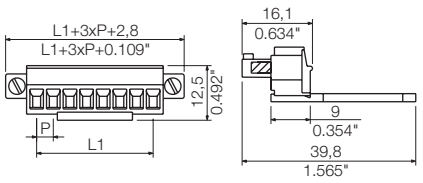
from 10 pole 2 strain reliefs per plug-in connector

BCZ 3.81/../180FZE

with screw flange and strain relief



Dimensioned drawing



Ordering data

Solder pin length

Colour				Orange	Black
Pitch	**3.81 mm**				
Pol.	L1	(inch)	**Qty.**	**Order No.**	**Order No.**
5	15.24	0.600	50	**1236530000**	**1072130000**
6	19.05	0.750	50	**1236540000**	**1072140000**
7	22.86	0.900	50	**1236570000**	**1072150000**
8	26.67	1.050	50	**1236590000**	**1941980000**
9	30.48	1.200	50	**1236600000**	**1072160000**
10	34.29	1.350	50	**1236610000**	**1072170000**
11	38.10	1.500	50	**1236620000**	**1072180000**
12	41.91	1.650	50	**1236630000**	**1072190000**
13	45.72	1.800	50	**1236640000**	**1072220000**
14	49.53	1.950	50	**1236670000**	**1072230000**
15	53.34	2.100	50	**1236680000**	**1072240000**
16	57.15	2.250	50	**1236690000**	**1072250000**
17	60.96	2.400	50	**1236700000**	**1072260000**
18	64.77	2.550	50	**1236720000**	**1072270000**
19	68.58	2.700	50	**1236730000**	**1072280000**
20	72.39	2.850	50	**1236740000**	**1072290000**

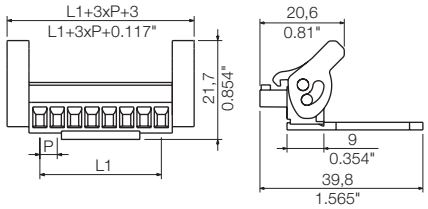
from 10 pole 2 strain reliefs per plug-in connector

BCZ 3.81/../180LRZE

with release latch and strain relief



Dimensioned drawing



Ordering data

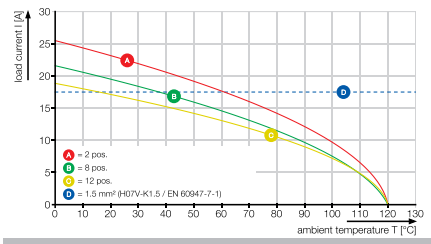
Solder pin length

Colour				Orange	Black
Pitch	**3.81 mm**				
Pol.	L1	(inch)	**Qty.**	**Order No.**	**Order No.**
5	15.24	0.600	50	**1236790000**	**1072310000**
6	19.05	0.750	50	**1236800000**	**1072320000**
7	22.86	0.900	50	**1236810000**	**1072330000**
8	26.67	1.050	50	**1236820000**	**1941990000**
9	30.48	1.200	50	**1236830000**	**1072340000**
10	34.29	1.350	50	**1236840000**	**1072350000**
11	38.10	1.500	50	**1236850000**	**1072360000**
12	41.91	1.650	50	**1236870000**	**1072370000**
13	45.72	1.800	50	**1236880000**	**1072380000**
14	49.53	1.950	50	**1236890000**	**1072390000**
15	53.34	2.100	50	**1236900000**	**1072450000**
16	57.15	2.250	50	**1236910000**	**1072460000**
17	60.96	2.400	50	**1236920000**	**1072470000**
18	64.77	2.550	50	**1236930000**	**1072480000**
19	68.58	2.700	50	**1236940000**	**1072490000**
20	72.39	2.850	50	**1236970000**	**1072510000**

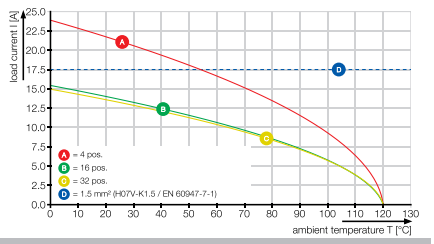
from 10 pole 2 strain reliefs per plug-in connector

Additional deratings curves

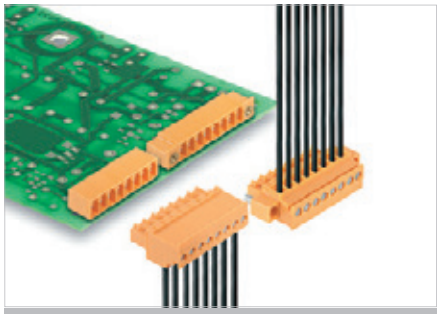
BCZ 3.81/../180 - SCZ 3.81/../180



BCZ 3.81/../180 - SCDV 3.81/../90



BCZ 3.81/../90 & 270



Female plug with screw connection.
Wire outlet direction:
- 90° – wire perpendicular to plugging direction and above
- 270° – wire perpendicular to plugging direction and below
- Available in closed version and with screw flange (F).

Weidmüller's 3.81 mm pitch (0.15 inch) plug-in connectors are compatible with the layouts of standard connectors and offer space for labelling and coding.

Product data

IEC: 320 V / 17.5 A / 0.2 - 1.5 mm²
UL: 300 V / 10 A / AWG 28 - 16

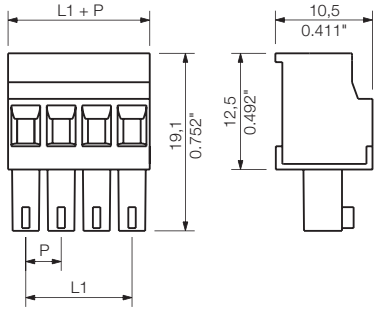
For additional articles and information, refer to catalog.weidmueller.com

Note:
- Additional colours on request
- Gold-plated contact surfaces on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

BCZ 3.81/../90



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm²	0.08...1.5		
Solid core H05(07) V-U	**mm²**	**0.2...1.5**		
Stranded H07 V-R				
Flexible H05(07) V-K	mm²	0.2...1.5		
Flexible with ferrule	mm²	0.2...1.5		
Ferrule with plastic collar	mm²	0.2...1.5		
Stripping length	mm	7		
Screwdriver blade	mm	0.4 x 2.5		
According to norm		DIN 5264		
Tightening torque range	Nm	0.2...0.25		
Rated current, max.	**A**	**17.5**		**17.5**
At ambient temperature		20°C		40°C
For conductor cross-section	mm²	1		
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	**V**	**160**	**160**	**320**
Rated impulse voltage	kV	2.5	2.5	2.5
UL / CUL (Use Group)		**B**	**C**	**D**
Rated voltage	**V**	**300**		**300**
Rated current	**A**	**10**		**10**
AWG conductor	**AWG**		**28-16**	
CSA (Use Group)		**B**	**C**	**D**
Rated voltage	V	300		300
Rated current	A	10		10
AWG conductor	AWG		28-16	
General data				
Type of insulation material		PA GF		
UL 94 flammability rating		V-0		
Contact base material		Copper alloy		
Material of contact surface		tinned		
Pin dimensions = d	mm			
Solder eyelet Ø = D	mm			
Solder eyelet Ø tolerance	mm			

Accessories

Note: Refer to the Accessories chapter for additional accessories.

Screwdriver		Order No.
	SDIS 0.4X2.5X75	9008370000
	SDS 0.4X2.5X75	9009030000

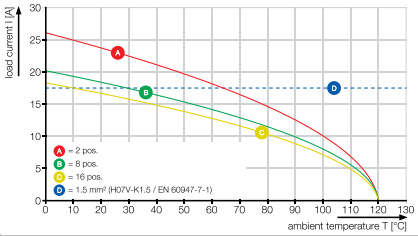
Ordering data

Solder pin length

Colour				Orange	Black
Pitch	**3.81 mm**				
Pol.	L1	(inch)	Qty.	Order No.	Order No.
2	3.81	0.150	50	1939820000	1798500000
3	7.62	0.300	50	1939830000	1798120000
4	11.43	0.450	50	1939840000	1798550000
5	15.24	0.600	50	1939860000	1798570000
6	19.05	0.750	50	1939870000	1798590000
7	22.86	0.900	50	1939880000	1858960000
8	26.67	1.050	50	1939890000	1798130000
9	30.48	1.200	50	1939900000	1871430000
10	34.29	1.350	50	1939910000	1798610000
11	38.10	1.500	50	1939920000	1899380000
12	41.91	1.650	50	1939930000	1798630000
13	45.72	1.800	50	1939940000	1899420000
14	49.53	1.950	50	1939950000	1899460000
15	53.34	2.100	50	1939960000	1899500000
16	57.15	2.250	50	1939970000	1798660000

Representative deratings curve

BCZ 3.81/../90 & /270 - SC-SMT 3.81/../135

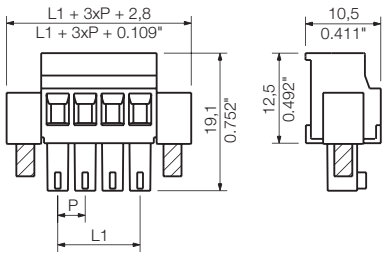


BCZ 3.81/../90F

with screw flange



Dimensioned drawing

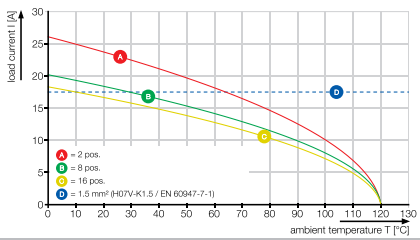


Ordering data

Solder pin length					
Colour				Orange	Black
Pitch	3.81 mm				
Pol.	L1	(inch)	Qty.	Order No.	Order No.
2	3.81	0.150	50	1939980000	1798780000
3	7.62	0.300	50	1939990000	1798140000
4	11.43	0.450	50	1940000000	1798790000
5	15.24	0.600	50	1940010000	1798800000
6	19.05	0.750	50	1940020000	1798810000
7	22.86	0.900	50	1940030000	1845690000
8	26.67	1.050	50	1940040000	1798150000
9	30.48	1.200	50	1940050000	1899540000
10	34.29	1.350	50	1940060000	1798820000
11	38.10	1.500	50	1940070000	1899560000
12	41.91	1.650	50	1940080000	1798830000
13	45.72	1.800	50	1940090000	1899580000
14	49.53	1.950	50	1940100000	1899600000
15	53.34	2.100	50	1940110000	1899620000
16	57.15	2.250	50	1940120000	1798840000

Additional deratings curves

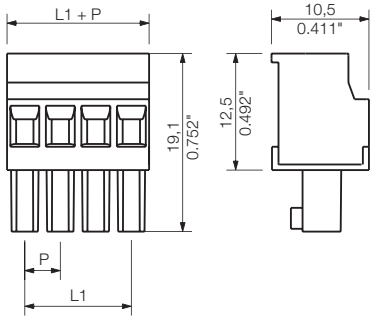
BCZ 3.81/../90 & /270 - SC 3.81../135



BCZ 3.81/../270



Dimensioned drawing



Ordering data

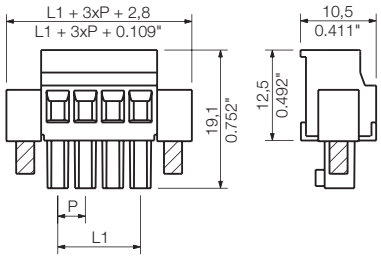
Solder pin length					
Colour				Orange	Black
Pitch	3.81 mm				
Pol.	L1	(inch)	Qty.	Order No.	Order No.
2	3.81	0.150	50	1940190000	1798940000
3	7.62	0.300	50	1940200000	1798160000
4	11.43	0.450	50	1940210000	1798950000
5	15.24	0.600	50	1940220000	1798960000
6	19.05	0.750	50	1940230000	1798970000
7	22.86	0.900	50	1940240000	1940400000
8	26.67	1.050	50	1940250000	1798170000
9	30.48	1.200	50	1940260000	1940410000
10	34.29	1.350	50	1940270000	1798980000
11	38.10	1.500	50	1940280000	1940420000
12	41.91	1.650	50	1940290000	1798990000
13	45.72	1.800	50	1940300000	1940430000
14	49.53	1.950	50	1940310000	1940440000
15	53.34	2.100	50	1940320000	1940450000
16	57.15	2.250	50	1940330000	1799000000

BCZ 3.81/../270F

with screw flange



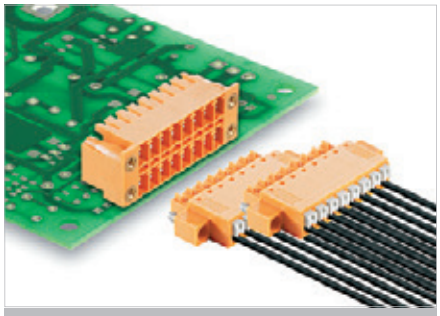
Dimensioned drawing



Ordering data

Solder pin length					
Colour				Orange	Black
Pitch	3.81 mm				
Pol.	L1	(inch)	Qty.	Order No.	Order No.
2	3.81	0.150	50	1940460000	1799100000
3	7.62	0.300	50	1940470000	1798180000
4	11.43	0.450	50	1940480000	1799110000
5	15.24	0.600	50	1940490000	1799120000
6	19.05	0.750	50	1940500000	1799130000
7	22.86	0.900	50	1940510000	1940670000
8	26.67	1.050	50	1940520000	1798190000
9	30.48	1.200	50	1940530000	1940680000
10	34.29	1.350	50	1940540000	1799140000
11	38.10	1.500	50	1940550000	1940690000
12	41.91	1.650	50	1940560000	1799150000
13	45.72	1.800	50	1940570000	1940700000
14	49.53	1.950	50	1940580000	1940710000
15	53.34	2.100	50	1940590000	1940720000
16	57.15	2.250	50	1940600000	1799160000

BCF 3.81/../180



Female plug with PUSH IN wire connection.

- Simply insert the wire and it's ready.
- Integrated push-button for opening the terminal point
- High component density because of very low height, especially when combined with the compact double-level SCDN / SCDN-THR male header.
- Available in closed version, with screw flange (F) and lock an release-lever (LR).

Weidmüller's 3.81 mm pitch (0.15 inch) plug-in connectors are compatible with the layouts of standard connectors and offer space for labelling and coding.

Product data

IEC: 320 V / 17.5 A / 0.14 - 1.5 mm²
UL: 300 V / 10 A / AWG 26 - 16

For additional articles and information, refer to catalog.weidmueller.com

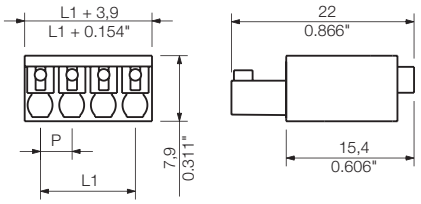
Note:

- Additional colours on request
- Gold-plated contact surfaces on request
- Crimp shape A for wire-end ferrules with crimping tools PZ 1,5 (order no. 9005990000) or PZ 6/5 (order no. 9011460000) for larger wire cross-sections recommended.
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

BCF 3.81/../180



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm²	0.14...1.5		
Solid core H05(07) V-U	**mm²**	**0.14...1.5**		
Stranded H07 V-R				
Flexible H05(07) V-K	mm²	0.14...1.5		
Flexible with ferrule	mm²	0.2...1.5		
Ferrule with plastic collar	mm²	0.2...1.5		
Stripping length	mm	8		
Screwdriver blade	mm	0.4 x 2.5		
According to norm		DIN 5264		
Tightening torque range	Nm			
Rated current, max.	**A**	**17.5**		**17.5**
At ambient temperature		20°C		40°C
For conductor cross-section	mm²	1		
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	**V**	**160**	**160**	**320**
Rated impulse voltage	kV	2.5	2.5	2.5
UL / CUL (Use Group)		**B**	**C**	**D**
Rated voltage	**V**	**300**		**300**
Rated current	**A**	**10**		**10**
AWG conductor	**AWG**	**26-16**		
CSA (Use Group)		**B**	**C**	**D**
Rated voltage	V	300		300
Rated current	A	10		10
AWG conductor	AWG	26-16		
General data				
Type of insulation material		PA 66 GF 30		
UL 94 flammability rating		V-0		
Contact base material		Copper alloy		
Material of contact surface		tinned		
Pin dimensions = d	mm			
Solder eyelet Ø = D	mm			
Solder eyelet Ø tolerance	mm			

Accessories

Note: Refer to the Accessories chapter for additional accessories.

Screwdriver		Order No.
	SDIS 0.4X2.5X75	9008370000
	SDS 0.4X2.5X75	9009030000
Crimping tool		
	PZ 1.5	9005990000
	PZ 6/5	9011460000

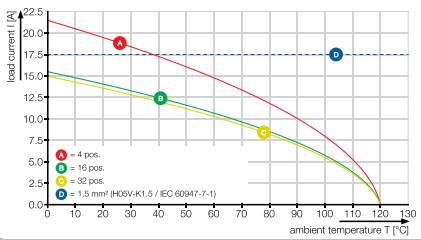
Ordering data

Solder pin length

Colour				Orange	Black
Pitch	**3.81 mm**				
Pol.	**L1**	**(inch)**	**Qty.**	**Order No.**	**Order No.**
2	3.81	0.150	50	1969090000	1969890000
3	7.62	0.300	50	1969100000	1969920000
4	11.43	0.450	50	1969110000	1969950000
5	15.24	0.600	50	1969120000	1969970000
6	19.05	0.750	50	1969130000	1969980000
7	22.86	0.900	50	1969140000	1969990000
8	26.67	1.050	50	1969150000	1970000000
9	30.48	1.200	50	1969160000	1970040000
10	34.29	1.350	50	1969170000	1970130000
11	38.10	1.500	50	1969180000	1970170000
12	41.91	1.650	50	1969190000	1970190000
13	45.72	1.800	50	1969200000	1970200000
14	49.53	1.950	50	1969210000	1970210000
15	53.34	2.100	50	1969220000	1970220000
16	57.15	2.250	50	1969230000	1970230000
17	60.96	2.400	50	1969240000	1970240000
18	64.77	2.550	50	1969250000	1970250000

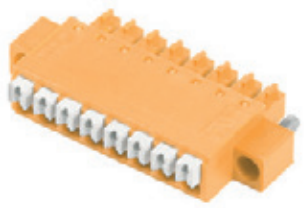
Representative deratings curve

BCF 3.81/../180 - SCDN-THR 3.81/../90

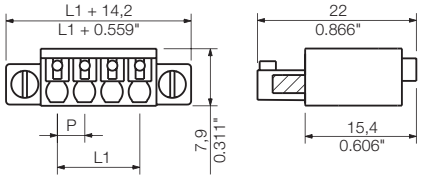


BCF 3.81/../180F

with screw flange



Dimensioned drawing



Ordering data

Solder pin length

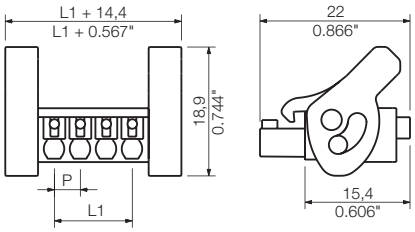
Colour				Orange	Black
Pitch	**3.81 mm**				
Pol.	L1	(inch)	Qty.	Order No.	Order No.
2	3.81	0.150	50	1970300000	1971500000
3	7.62	0.300	50	1970330000	1971570000
4	11.43	0.450	50	1970370000	1971590000
5	15.24	0.600	50	1970380000	1971620000
6	19.05	0.750	50	1970400000	1971650000
7	22.86	0.900	50	1970440000	1971780000
8	26.67	1.050	50	1970550000	1971830000
9	30.48	1.200	50	1970570000	1971850000
10	34.29	1.350	50	1970580000	1971870000
11	38.10	1.500	50	1970620000	1971900000
12	41.91	1.650	50	1970650000	1971940000
13	45.72	1.800	50	1970690000	1971970000
14	49.53	1.950	50	1970730000	1972000000
15	53.34	2.100	50	1970750000	1972030000
16	57.15	2.250	50	1970820000	1972070000
17	60.96	2.400	50	1970850000	1972100000
18	64.77	2.550	50	1970890000	1972170000

BCF 3.81/../180LR

with release latch



Dimensioned drawing



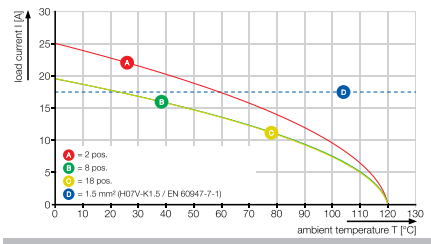
Ordering data

Solder pin length

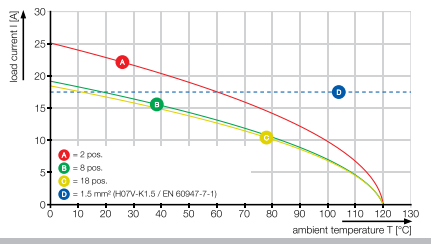
Colour				Orange	Black
Pitch	**3.81 mm**				
Pol.	L1	(inch)	Qty.	Order No.	Order No.
2	3.81	0.150	50	1972200000	1972600000
3	7.62	0.300	50	1972210000	1972610000
4	11.43	0.450	50	1972220000	1972620000
5	15.24	0.600	50	1972230000	1972630000
6	19.05	0.750	50	1972240000	1972640000
7	22.86	0.900	50	1972250000	1972650000
8	26.67	1.050	50	1972260000	1972660000
9	30.48	1.200	50	1972270000	1972670000
10	34.29	1.350	50	1972280000	1972680000
11	38.10	1.500	50	1972290000	1972690000
12	41.91	1.650	50	1972300000	1972700000
13	45.72	1.800	50	1972310000	1972710000
14	49.53	1.950	50	1972320000	1972720000
15	53.34	2.100	50	1972330000	1972730000
16	57.15	2.250	50	1972340000	1972740000
17	60.96	2.400	50	1972350000	1972750000
18	64.77	2.550	50	1972360000	1972760000

Additional deratings curves

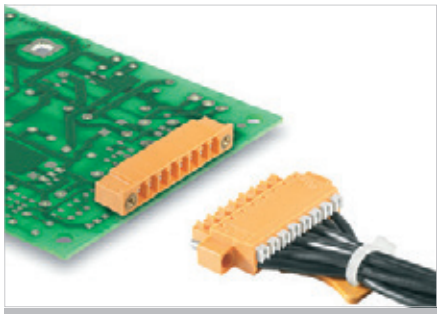
BCF 3.81/../180 - SC 3.81/../90



BCF 3.81/../180 - SC 3.81/../180



BCF 3.81/../180 ZE



Female plug with strain relief (ZE) for the connected cable.

- PUSH IN wire connection method
- Simply insert the prepared wire and attach the strain relief mechanism
- Intuitive handling - since the wire-entry area and handling area are clearly separated.

Weidmüller's 3.81 mm pitch (0.15 inch) plug-in connectors are compatible with the layouts of standard connectors and offer space for labelling and coding.

Product data

IEC: 320 V / 17.5 A / 0.14 - 1.5 mm²
UL: 300 V / 10 A / AWG 24 - 16

For additional articles and information, refer to catalog.weidmueller.com

Note:

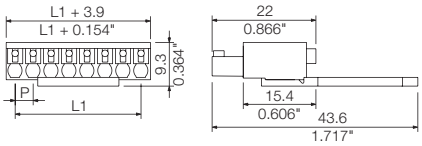
- Additional colours on request
- Gold-plated contact surfaces on request
- Crimp shape A for wire-end ferrules with crimping tools PZ 1,5 (order no. 9005990000) or PZ 6/5 (order no. 9011460000) for larger wire cross-sections recommended.
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

BCF 3.81/../180ZE

with strain relief



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm²	0.14...1.5		
Solid core H05(07) V-U	**mm²**	**0.14...1.5**		
Stranded H07 V-R				
Flexible H05(07) V-K	mm²	0.14...1.5		
Flexible with ferrule	mm²	0.2...1.5		
Ferrule with plastic collar	mm²	0.2...1.5		
Stripping length	mm	8		
Screwdriver blade	mm	0.4 x 2.5		
According to norm		DIN 5264		
Tightening torque range	Nm			
Rated current, max.	**A**	**17.5**		**17.5**
At ambient temperature		20°C		40°C
For conductor cross-section	mm²			
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	**V**	**160**	**160**	**320**
Rated impulse voltage	kV	2.5	2.5	2.5
UL / CUL (Use Group)		**B**	**C**	**D**
Rated voltage	**V**	**300**		**300**
Rated current	**A**	**10**		**10**
AWG conductor	**AWG**		**24-16**	
CSA (Use Group)		**B**	**C**	**D**
Rated voltage	V	300		300
Rated current	A	10		10
AWG conductor	AWG		24-16	
General data				
Type of insulation material		PA 66 GF 30		
UL 94 flammability rating		V-0		
Contact base material		Copper alloy		
Material of contact surface		tinned		
Pin dimensions = d	mm			
Solder eyelet Ø = D	mm			
Solder eyelet Ø tolerance	mm			

Accessories

Note: Refer to the Accessories chapter for additional accessories.

Screwdriver		Order No.
	SDIS 0.4X2.5X75	9008370000
	SDS 0.4X2.5X75	9009030000
Crimping tool		
	PZ 1.5	9005990000
	PZ 6/5	9011460000

Ordering data

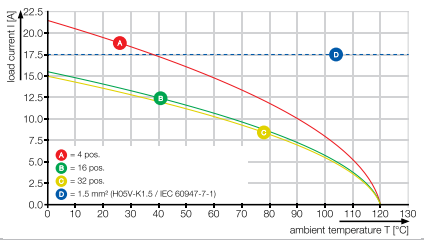
Solder pin length

Colour				Orange	Black
Pitch	**3.81 mm**				
Pol.	**L1**	**(inch)**	**Qty.**	**Order No.**	**Order No.**
5	15.24	0.600	50	**1235790000**	**1231680000**
6	19.05	0.750	50	**1235800000**	**1231690000**
7	22.86	0.900	50	**1235810000**	**1231710000**
8	26.67	1.050	50	**1235820000**	**1231720000**
9	30.48	1.200	50	**1235830000**	**1231730000**
10	34.29	1.350	50	**1235840000**	**1231740000**
11	38.10	1.500	50	**1235870000**	**1231750000**
12	41.91	1.650	50	**1235880000**	**1231760000**
13	45.72	1.800	50	**1235890000**	**1231770000**
14	49.53	1.950	50	**1235900000**	**1231780000**
15	53.34	2.100	50	**1235910000**	**1231790000**
16	57.12	2.250	50	**1235920000**	**1231810000**
17	60.96	2.400	50	**1235930000**	**1231820000**
18	64.77	2.550	50	**1235940000**	**1231830000**

from 10 pole 2 strain reliefs per plug-in connector

Representative deratings curve

BCF 3.81/../180 - SCDN 3.81/../90



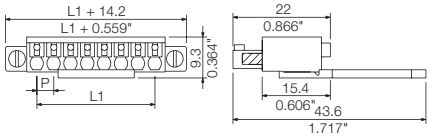
from 10 pole 2 strain reliefs per plug-in connector

BCF 3.81/../180FZE

with screw flange and strain relief



Dimensioned drawing



Ordering data

Solder pin length

Colour				Orange	Black
Pitch	**3.81 mm**				
Pol.	L1	(inch)	**Qty.**	**Order No.**	**Order No.**
5	15.24	0.600	50	**1235970000**	**1231350000**
6	19.05	0.750	50	**1235980000**	**1231360000**
7	22.86	0.900	50	**1235990000**	**1231370000**
8	26.67	1.050	50	**1236000000**	**1231380000**
9	30.48	1.200	50	**1236010000**	**1231390000**
10	34.29	1.350	50	**1236020000**	**1231410000**
11	38.10	1.500	50	**1236030000**	**1231420000**
12	41.91	1.650	50	**1236040000**	**1231430000**
13	45.72	1.800	50	**1236050000**	**1231440000**
14	49.53	1.950	50	**1236070000**	**1231450000**
15	53.34	2.100	50	**1236080000**	**1231460000**
16	57.12	2.250	50	**1236090000**	**1231470000**
17	60.96	2.400	50	**1236100000**	**1231480000**
18	64.77	2.550	50	**1236110000**	**1231490000**

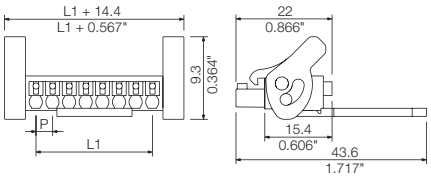
from 10 pole 2 strain reliefs per plug-in connector

BCF 3.81/../180LRZE

with release latch and strain relief



Dimensioned drawing



Ordering data

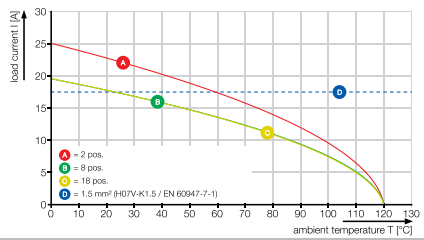
Solder pin length

Colour				Orange	Black
Pitch	**3.81 mm**				
Pol.	L1	(inch)	**Qty.**	**Order No.**	**Order No.**
5	15.24	0.600	50	**1236120000**	**1231520000**
6	19.05	0.750	50	**1236130000**	**1231530000**
7	22.86	0.900	50	**1236140000**	**1231540000**
8	26.67	1.050	50	**1236150000**	**1231550000**
9	30.48	1.200	50	**1236160000**	**1231560000**
10	34.29	1.350	50	**1236170000**	**1231570000**
11	38.10	1.500	50	**1236180000**	**1231580000**
12	41.91	1.650	50	**1236190000**	**1231590000**
13	45.72	1.800	50	**1236200000**	**1231610000**
14	49.53	1.950	50	**1236210000**	**1231620000**
15	53.34	2.100	50	**1236220000**	**1231630000**
16	57.12	2.250	50	**1236230000**	**1231640000**
17	60.96	2.400	50	**1236240000**	**1231650000**
18	64.77	2.550	50	**1236250000**	**1231660000**

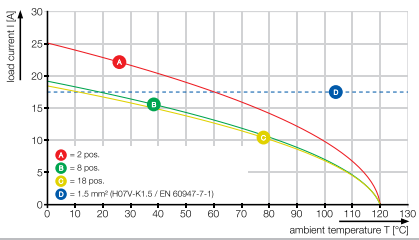
from 10 pole 2 strain reliefs per plug-in connector

Additional deratings curves

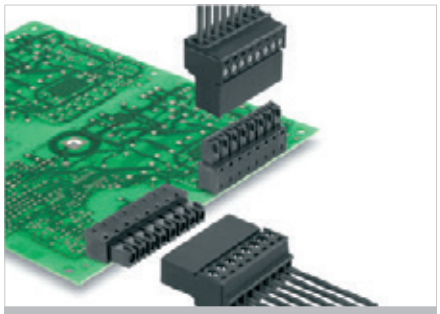
BCF 3.81/../180 - SC 3.81/../90



BCF 3.81/../180 - SC 3.81/../180



BCL-SMT 3.81/../90



Inverted female headers for:
- Touch-safety on the circuit board with board-to-wire connection (with the SCZ)
- Board-to-board component connection (with SC/SC-SMT)
- Works with reflow soldering and automatic placement.
- Orientation: 90°
- Available in closed version with screw Flange (F) and inverted solder flange (LFI).

Weidmüller's 3.81 mm pitch (0.15 inch) plug-in connectors are compatible with the layouts of standard connectors and offer space for labelling and coding.

Product data

IEC: 320 V / 17.5 A
UL: 300 V / 10 A

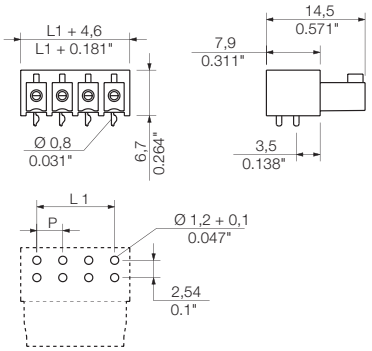
For additional articles and information, refer to catalog.weidmueller.com

Note:
- Gold-plated contact surfaces on request
- Rated current related to rated cross-section & min. No. of poles.
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

BCL-SMT 3.81/../90



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm²			
Solid core H05(07) V-U	**mm²**			
Stranded H07 V-R				
Flexible H05(07) V-K	mm²			
Flexible with ferrule	mm²			
Ferrule with plastic collar	mm²			
Stripping length	mm			
Screwdriver blade	mm			
According to norm				
Tightening torque range	Nm			
Rated current, max.	**A**	**17.5**		**17.5**
At ambient temperature		20°C		40°C
For conductor cross-section	mm²			
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	**V**	**160**	**160**	**320**
Rated impulse voltage	kV	2.5	2.5	2.5
UL / CUL (Use Group)		**B**	**C**	**D**
Rated voltage	**V**	**300**		**300**
Rated current	**A**	**10**		**10**
AWG conductor	**AWG**		-	
CSA (Use Group)		**B**	**C**	**D**
Rated voltage	V	300		300
Rated current	A	10		10
AWG conductor	AWG		-	
General data				
Type of insulation material		LCP GF		
UL 94 flammability rating		V-0		
Contact base material		Copper alloy		
Material of contact surface		tinned		
Pin dimensions = d	mm	0.8		
Solder eyelet Ø = D	mm	1.2		
Solder eyelet Ø tolerance	mm	+ 0,1		

Accessories

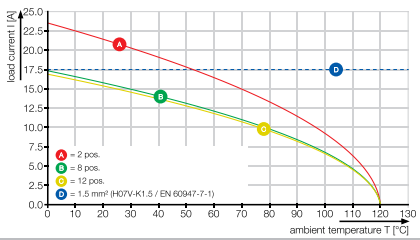
Note: Refer to the Accessories chapter for additional accessories.

Ordering data

Solder pin length				1.5 mm
Colour				Black
Pitch	**3.81 mm**			
Pol.	**L1**	**(inch)**	**Qty.**	**Order No.**
2	3.81	0.150	50	1974750000
3	7.62	0.300	50	1974770000
4	11.43	0.450	50	1974780000
5	15.24	0.600	50	1974800000
6	19.05	0.750	50	1974820000
7	22.86	0.900	50	1974840000
8	26.67	1.050	50	1974850000
9	30.48	1.200	50	1974880000
10	34.29	1.350	50	1974890000
11	38.10	1.500	50	1974910000
12	41.91	1.650	50	1974930000

Representative deratings curve

BCL-SMT 3.81/../90 - SCZ 3.81/../180

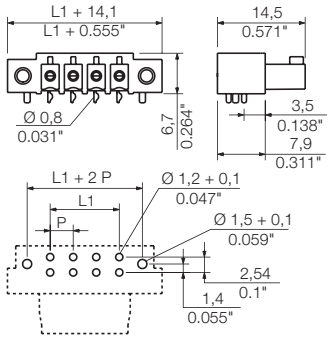


BCL-SMT 3.81/../90LFI

with inverted solder flange



Dimensioned drawing

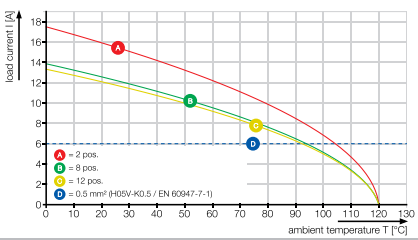


Ordering data

Solder pin length				1.5 mm
Colour				Black
Pitch	**3.81 mm**			
Pol.	L1	(inch)	Qty.	Order No.
2	3.81	0.150	50	1028720000
3	7.62	0.300	50	1028730000
4	11.43	0.450	50	1028740000
5	15.24	0.600	50	1028750000
6	19.05	0.750	50	1028760000
7	22.86	0.900	50	1028770000
8	26.67	1.050	50	1028790000
9	30.48	1.200	50	1028810000
10	34.29	1.350	50	1028820000
11	38.10	1.500	50	1028830000
12	41.91	1.650	50	1028840000

Additional deratings curves

BCL-SMT 3.81/../90 - SCZ 3.81/../180

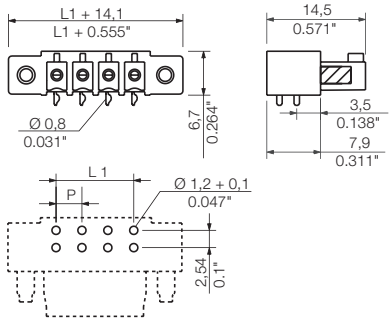


BCL-SMT 3.81/../90F

with screw flange



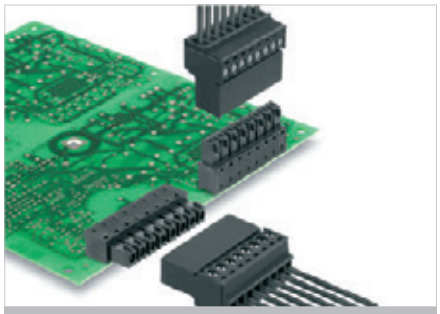
Dimensioned drawing



Ordering data

Solder pin length				1.5 mm
Colour				Black
Pitch	**3.81 mm**			
Pol.	L1	(inch)	Qty.	Order No.
2	3.81	0.150	50	1975690000
3	7.62	0.300	50	1975700000
4	11.43	0.450	50	1975710000
5	15.24	0.600	50	1975730000
6	19.05	0.750	50	1975740000
7	22.86	0.900	50	1975750000
8	26.67	1.050	50	1975760000
9	30.48	1.200	50	1975780000
10	34.29	1.350	50	1975790000
11	38.10	1.500	50	1975820000
12	41.91	1.650	50	1975830000

BCL-SMT 3.81/../180



Inverted female headers for:
- Touch-safety on the circuit board with board-to-wire (when connecting with the SCZ)
- Board-to-board component connection (with SC/SC-SMT)
- Works with reflow soldering and automatic placement.
- Orientation: 180°
- Available in closed version and with invertetd solder flange (LFI).

Weidmüller's 3.81 mm pitch (0.15 inch) plug-in connectors are compatible with the layouts of standard connectors and offer space for labelling and coding.

Product data

IEC: 320 V / 17.5 A
UL: 300 V / 10 A

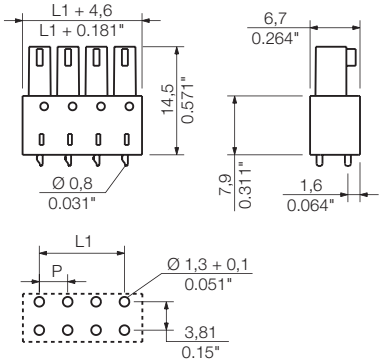
For additional articles and information, refer to catalog.weidmueller.com

Note:
- Gold-plated contact surfaces on request
- Rated current related to rated cross-section & min. No. of poles.
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

BCL-SMT 3.81/../180



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm²			
Solid core H05(07) V-U	**mm²**			
Stranded H07 V-R				
Flexible H05(07) V-K	mm²			
Flexible with ferrule	mm²			
Ferrule with plastic collar	mm²			
Stripping length	mm			
Screwdriver blade	mm			
According to norm				
Tightening torque range	Nm			
Rated current, max.	**A**	**17.5**		**17.5**
At ambient temperature		20°C		40°C
For conductor cross-section	mm²			
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	**V**	**160**	**160**	**320**
Rated impulse voltage	kV	2.5	2.5	2.5
UL / CUL (Use Group)		**B**	**C**	**D**
Rated voltage	**V**	**300**		**300**
Rated current	**A**	**10**		**10**
AWG conductor	**AWG**		-	
CSA (Use Group)		**B**	**C**	**D**
Rated voltage	V	300		300
Rated current	A	10		10
AWG conductor	AWG		-	
General data				
Type of insulation material		LCP GF		
UL 94 flammability rating		V-0		
Contact base material		Copper alloy		
Material of contact surface		tinned		
Pin dimensions = d	mm	0.8		
Solder eyelet Ø = D	mm	1.2		
Solder eyelet Ø tolerance	mm	+ 0,1		

Accessories

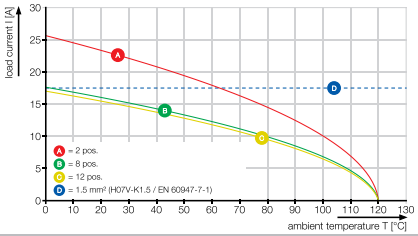
Note: Refer to the Accessories chapter for additional accessories.

Ordering data

Solder pin length				1.5 mm
Colour				Black
Pitch	**3.81 mm**			
Pol.	L1	(inch)	Qty.	Order No.
2	3.81	0.150	50	1976490000
3	7.62	0.300	50	1976500000
4	11.43	0.450	50	1976520000
5	15.24	0.600	50	1976530000
6	19.05	0.750	50	1976550000
7	22.86	0.900	50	1976570000
8	26.67	1.050	50	1976580000
9	30.48	1.200	50	1976590000
10	34.29	1.350	50	1976610000
11	38.10	1.500	50	1976620000
12	41.91	1.650	50	1976640000

Representative deratings curve

BCL-SMT 3.81/../180 - SCZ 3.81/../180

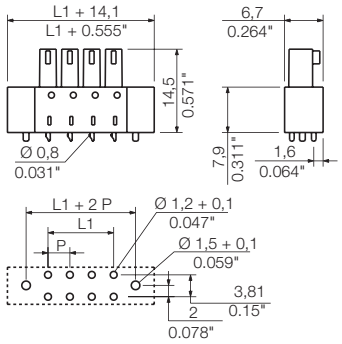


BCL-SMT 3.81/../180LFI

with inverted solder flange



Dimensioned drawing

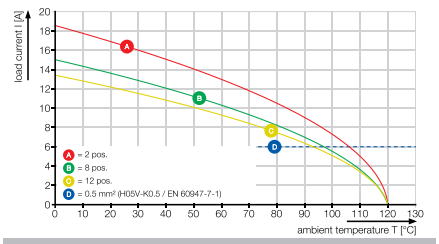


Ordering data

Solder pin length				1.5 mm
Colour				Black
Pitch	**3.81 mm**			
Pol.	L1	(inch)	**Qty.**	**Order No.**
2	3.81	0.150	50	**1029260000**
3	7.62	0.300	50	**1029270000**
4	11.43	0.450	50	**1029280000**
5	15.24	0.600	50	**1029290000**
6	19.05	0.750	50	**1029310000**
7	22.86	0.900	50	**1029320000**
8	26.67	1.050	50	**1029330000**
9	30.48	1.200	50	**1029340000**
10	34.29	1.350	50	**1029350000**
11	38.10	1.500	50	**1029360000**
12	41.91	1.650	50	**1029370000**

Additional deratings curves

BCL-SMT 3.81/../180 - SCZ 3.81/../180



Male header SL-SMT 5.0x and SL-SMarT 5.0x

The connecting element in the reflow process

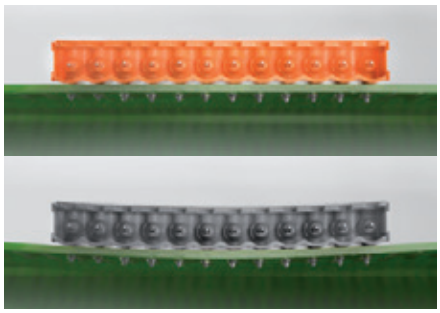


Optimiert für SMT (Surface Mount Technology)

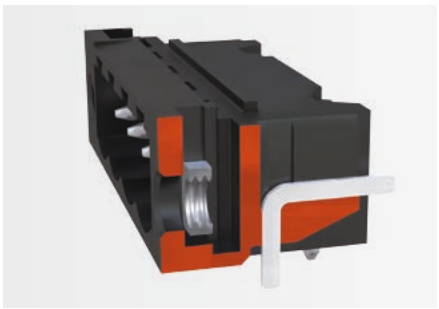
Innovative, application oriented male headers made from high temperature insulating material LCP (Liquid crystal polymer) permits seamless integration of the connections into the automated SMT production process, including reflow soldering.

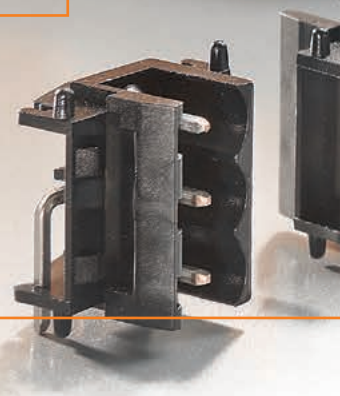
The comprehensive portfolio impresses with significant gains in efficiency in assembly production, i.e. a reduction of manufacturing costs of up to 30 %, with increased process security and proven reliability.

Absolute process reliability
Using glass-fibre reinforced plastic with the SL 5.08 HC and SL-SMT 5.08 pin headers ensures a high level of dimensional stability and prevents what is known as the „banana effect" – the printed-circuit board sagging – in the soldering process.



Standard-compliant fixing
More use with less effort: the soldering flange reduces 3 steps to one while protecting the soldering points from regular mechanical stress. A uniform drill hole diameter, no fixing of the fastening screw – additional fastening takes place automatically in the soldering process.





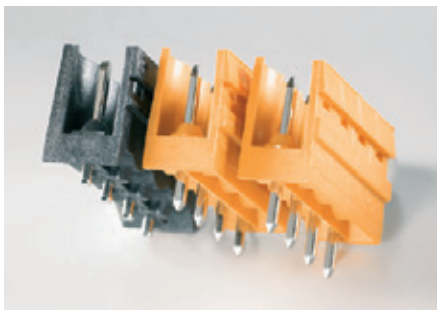
SL-SMarT: designed for automatic machine assembly
All pole numbers on board – only 2 articles on the bearing/in the feeder. The strategy of self-adjusting 2- and 3-pole pin header modules not only reduces the variety, but also the costs. The fact that it can be processed without a pick & place pad boosts process reliability and efficiency even more.



Delivered to fit your process:
Tape packaging with optimised tape pockets customised to match the width and pole count: this ensures that the feeders are used optimally and that the male headers are securely positioned on the tape.

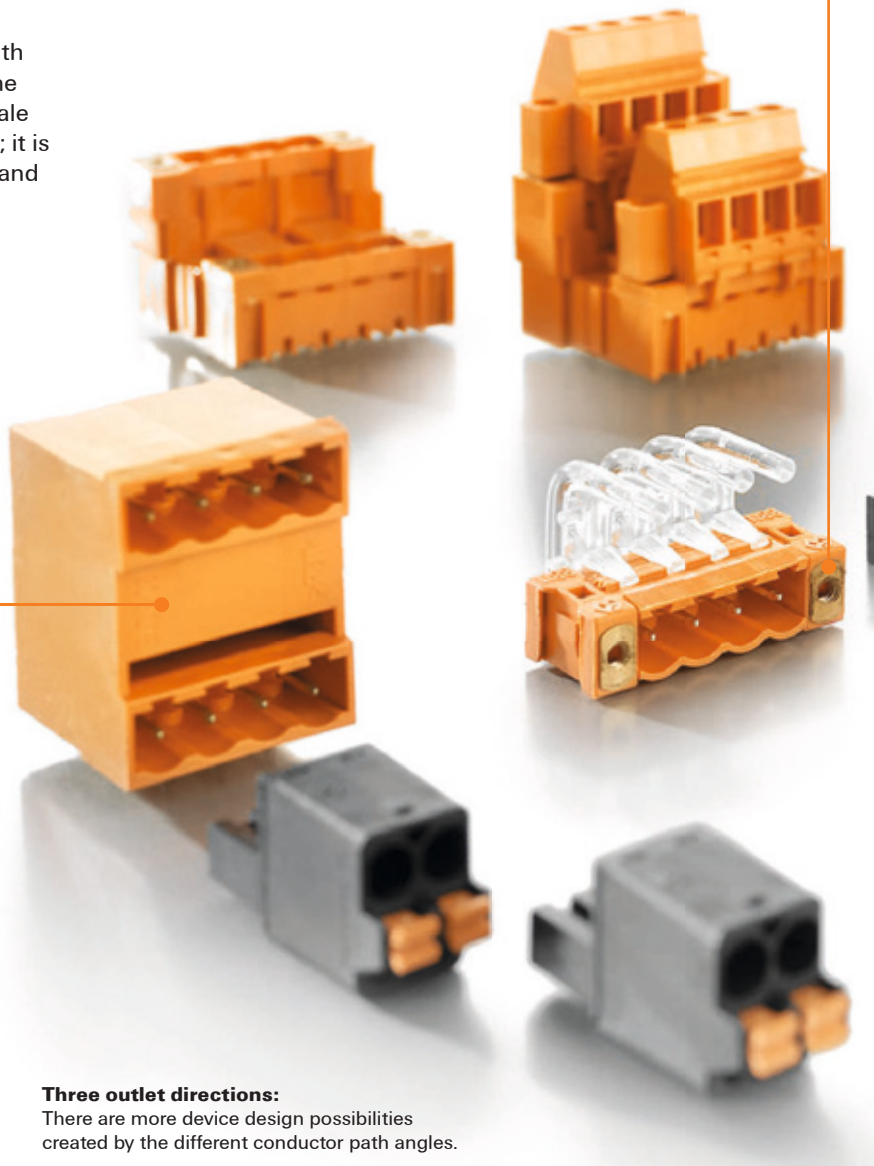


Specified to fit your application:
1.5 mm short pins for flush solder joints permit PCB assembly on both sides in accordance with IPC A-610 and also reduces the solder paste volume significantly. At the same time, the required stroke length of the Pick & Place machine is reduced to a minimum. As an alternative, 3.2 mm pins are available for PCBs thicker than 1.6 mm.

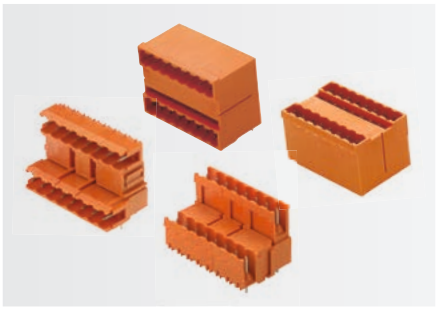


Male header SL 5.0x
Optimised for wave soldering

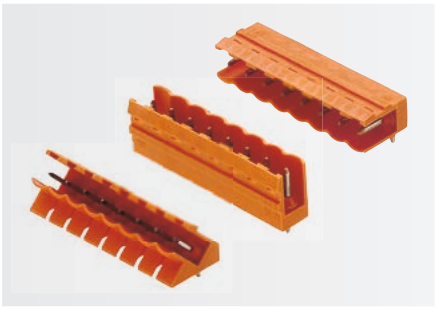
These male headers in 5.00 mm and 5.08 mm pitch with the characteristic wave design in the mating face are the standard headers used in industrial automation. This male header has already enjoyed decades of market success; it is the basis for device connection systems for both wave and manual soldering.



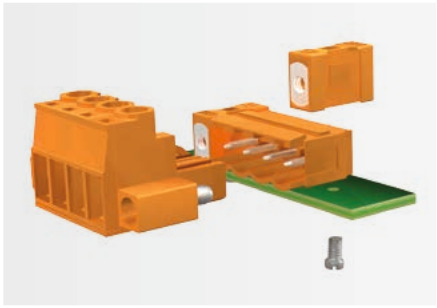
Increased density for device connections:
You can maximise connection density by using doublelevel male headers together with your choice of connection systems on the field side.



Three outlet directions:
There are more device design possibilities created by the different conductor path angles.



Safe under vibration and shock
- Vibration proof connection between male header and female plug
- The male header can also be screwed to the PCB
- Available with gold-plated surfaces





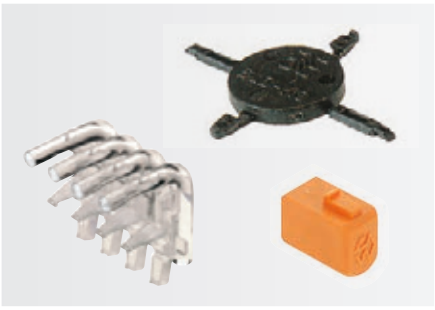
Specified to fit your assembly process
Gold-plated male headers have gold plating on the functional surfaces but not on the solder surfaces. This prevents contamination of the solder bath.



Integrated to fit your design
Adaptable connection system - the colour of the plug connectors fits to the device design and not the other way around.



Extensive accessories
- Light guides carry signals from the PCB LEDs to the front plate
- Partitions can be used to visually separate the different functional areas of the male header.
- All male headers can be manually coded or ordered as pre-coded headers.



Female plug BLZP 5.0x

Pluggable, universal screw connection

WIRE READY

The BLZP is the functional extension of the BLZ series, which has proven itself on the market for decades.

The "P" in the part name stands for an increase in security and efficiency in both fabrication and use. Resulting from this are additional customer benefits, such as a continuous function and safety chain, increased efficiency and process reliability and much more user friendly operation.



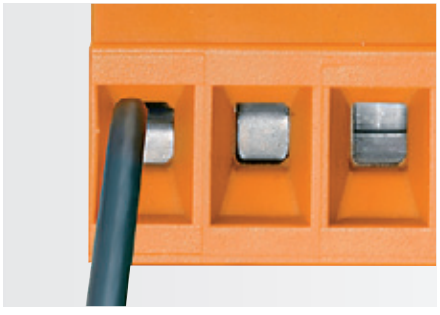
Folded steel clamping yoke
When the screw on the clamp is tightened, there is a counter effect in the clamping yoke's threaded area. This ensures a maintenance free and durable gas-tight connection. In addition, the elastic behaviour of the clamping yoke compensates for the setting of the connected wire and any temperature induced deviations.



Hybrid contacts
The current bar and the tulip contact are made from two different materials and then welded together. The current bar has high conductivity and the tulip contact is characterised by its excellent spring properties.

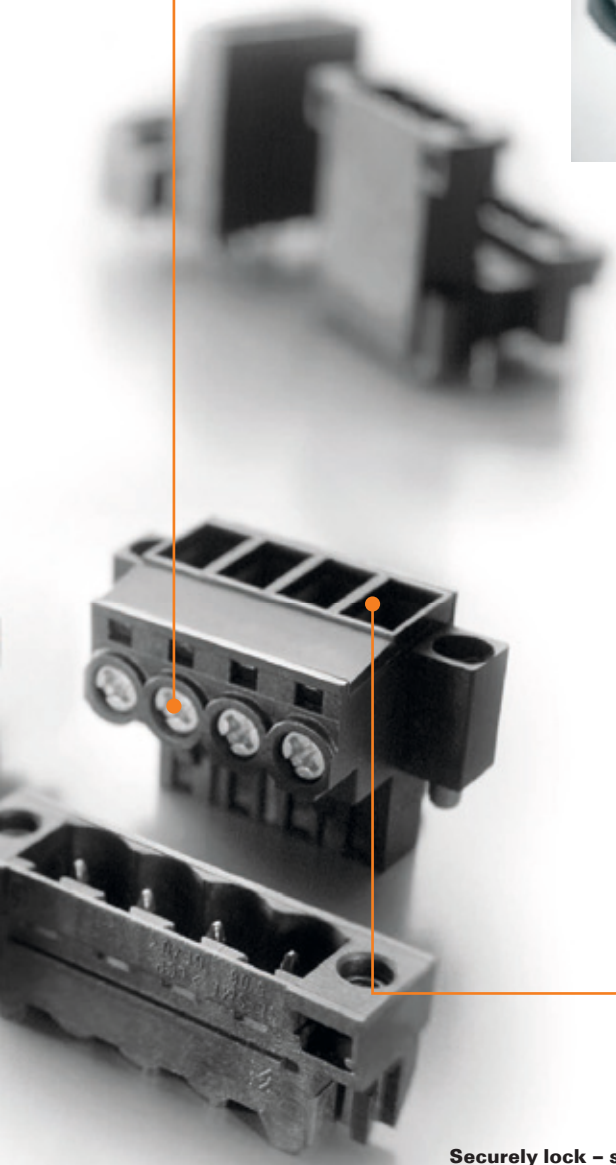


Safe connection – error-free wiring
The integrated "wire guard" feature prevents dangerous insertion of the wire below the clamping area and thus protects against contact or insertion errors.



Safe contacting – universal operation
The globally compatible screw head (in conformity with ISO 2880/2, ISO 8764/2-PH and ISO 8764/2-PHZ) that fits all tools – for non-positive and uncomplicated operation with common hand tools or the efficient use of power tools.





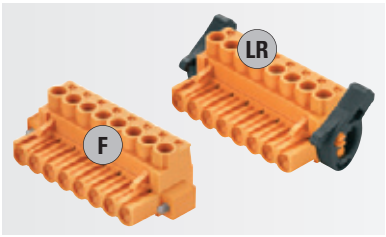
Conductor outlet direction up/down



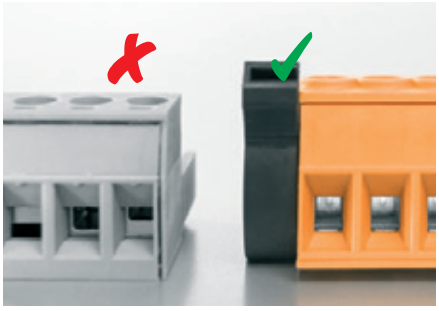
Conductor outlet direction straight/inclined



Locking options
F = screw flange / **LR** = Lock & Release lever



Process-compatible by default – economical processing
Unpack – wire ready – connect up. Our wire-ready technology makes sure that all connecting points are completely opened when delivered, even after global transport (in conformity with ISO 13355).



Securely lock – simply release
Fast, self-locking with the male header for tool-free handling. Releasing of the female plug is gentle on components.



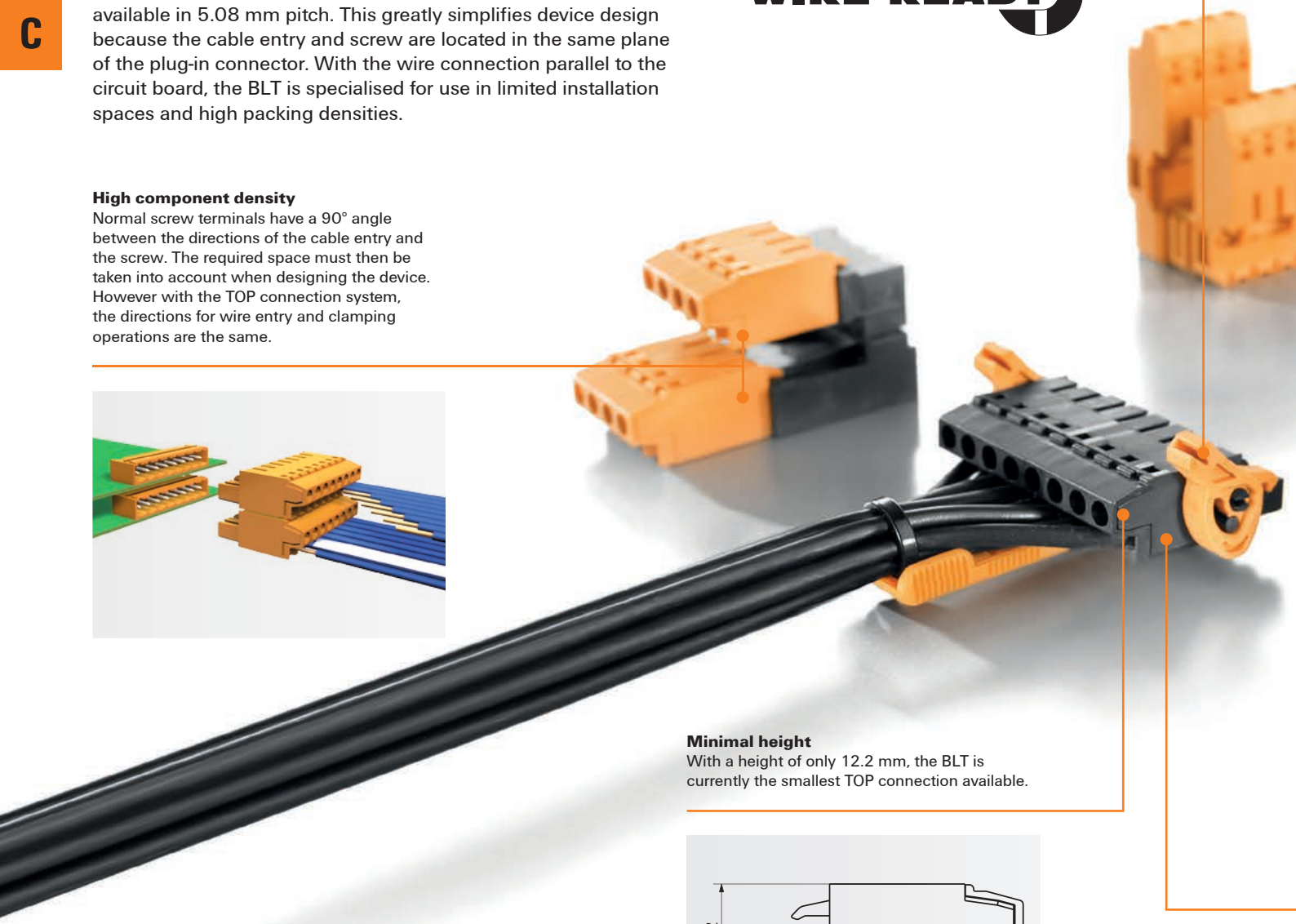
Female plug BLT 5.08

The specialist for tight installation spaces

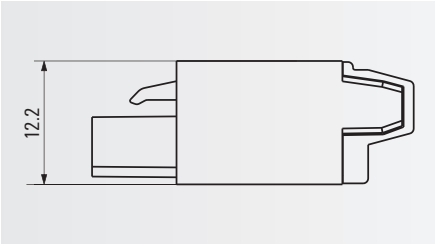
The BLT range is the most compact TOP connection of its type available in 5.08 mm pitch. This greatly simplifies device design because the cable entry and screw are located in the same plane of the plug-in connector. With the wire connection parallel to the circuit board, the BLT is specialised for use in limited installation spaces and high packing densities.

WIRE READY

High component density
Normal screw terminals have a 90° angle between the directions of the cable entry and the screw. The required space must then be taken into account when designing the device. However with the TOP connection system, the directions for wire entry and clamping operations are the same.



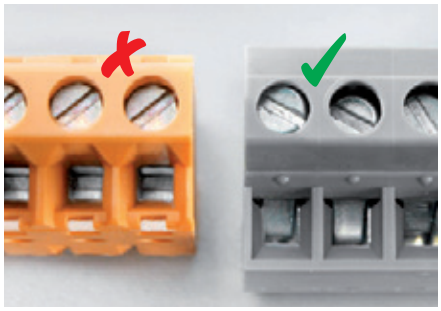
Minimal height
With a height of only 12.2 mm, the BLT is currently the smallest TOP connection available.

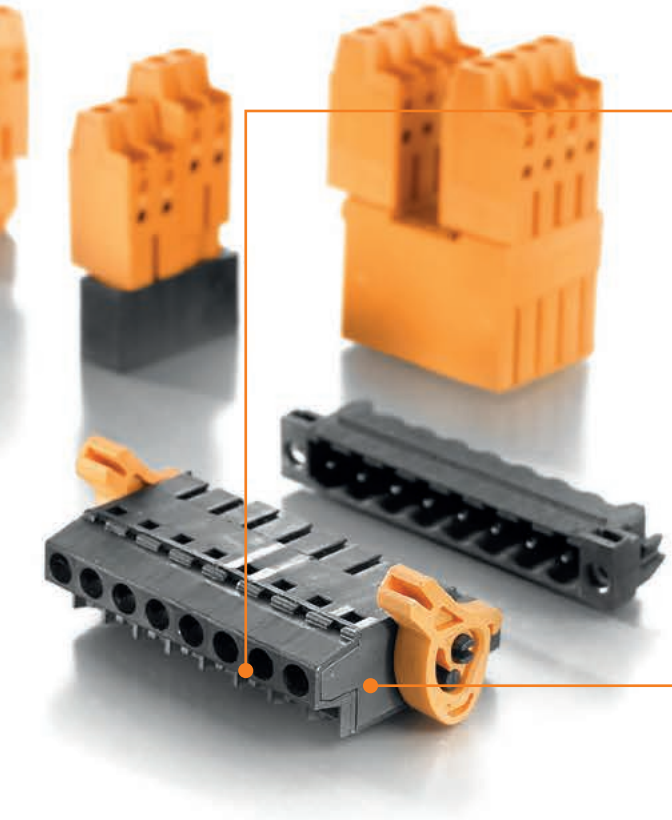


Secure interlock and simple release
Fast, self-locking with the male header for tool-free handling. Releasing of the female plug is gentle on components.



Process-compatible by default – economical processing
Unpack – "Wire Ready" – Connect. The "Wire Ready" technology ensures that all clamping units are fully open on delivery, even after world-wide shipping.





Safe to use with no-fault wiring:
The BLT's "pull effect" ensures that the connected wire is pulled in to the clamping point for a securely established contact.



Hybrid contacts
For every function, the best material. The current bar and the tulip contact are made from two different materials and then welded together. The current bar has high conductivity and the tulip contact is characterised by its excellent spring properties.

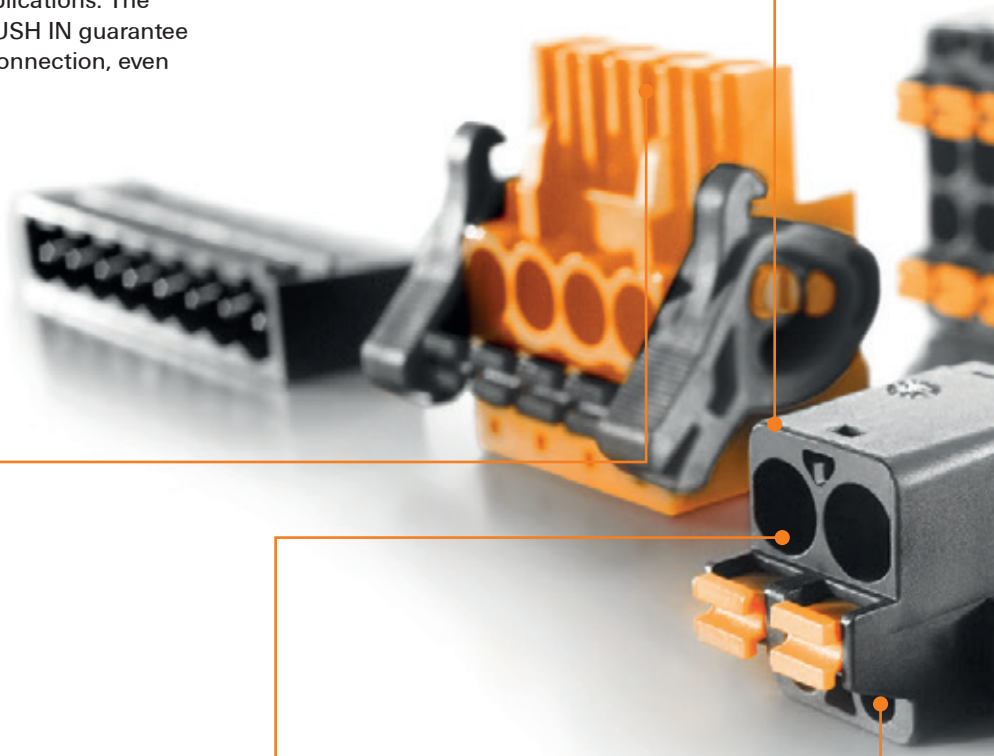


Female plug BLF 5.0x and BLDF 5.08

PUSH IN for fast conductor connection without any tools

PUSH IN

The quick PUSH IN connection is now also available in pitches of 5.00 mm and 5.08 mm. The products are simple, safe and can be used in a variety of applications: The plugs are available for all wire outlet directions (90°, 180° and 270°) and also as a double connector with integrated cross-connection for bus applications. The hybrid contacts used in combination with PUSH IN guarantee a vibration resistant and maintenance free connection, even under extreme conditions.



Hybrid contacts
The current bar and the tulip contact are made from two different materials and then welded together. The current bar has high conductivity and the tulip contact is characterised by its excellent spring properties.



Can be tested at any time:
Simplified functional testing using easily accessible diagnostic test points.

All-purpose usage:
Very large clamping range from 0.2 mm² to 2.5 mm² –even when using ferrules with plastic collars.

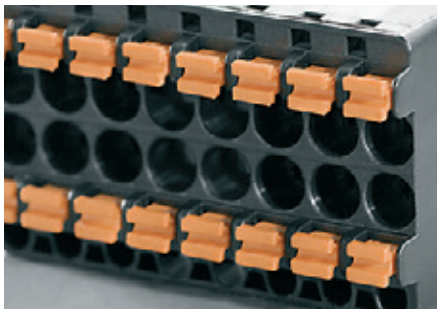


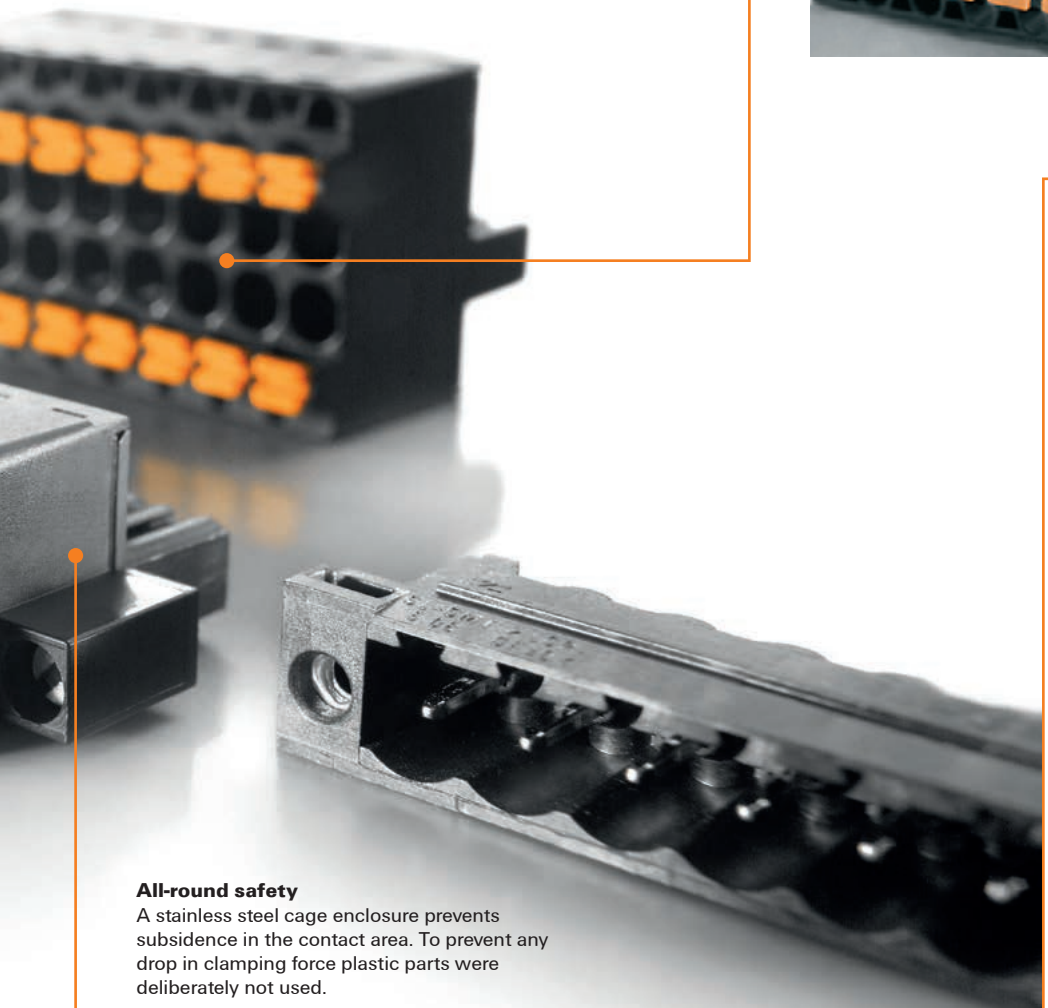


Safe to operate
Rounded edges and large, non-slip control buttons ensure user-friendly operation.



Extremely durable
The integrated cross-connector is designed for a low voltage drop and allows a powerful 22 A bus power which can supply a high number of notes in the bus system.

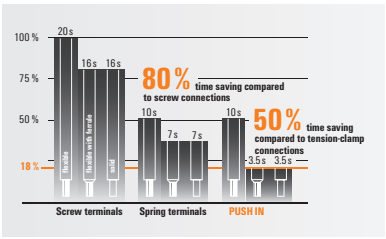




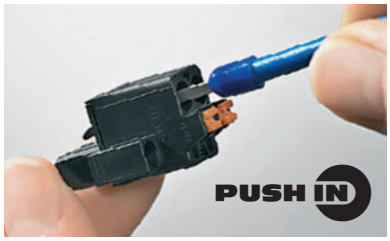
All-round safety
A stainless steel cage enclosure prevents subsidence in the contact area. To prevent any drop in clamping force plastic parts were deliberately not used.



Directly plugged in



Simply fast
PUSH IN: tool-free connections of pre-prepared wires into the wire-entry funnel. **www.PUSH-IN.com**



Simple and self-explanatory
Intuitive opening of the terminal point using conspicuous push buttons.

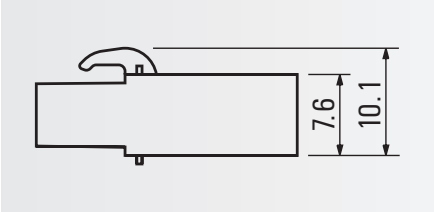


Female plug BLC 5.08

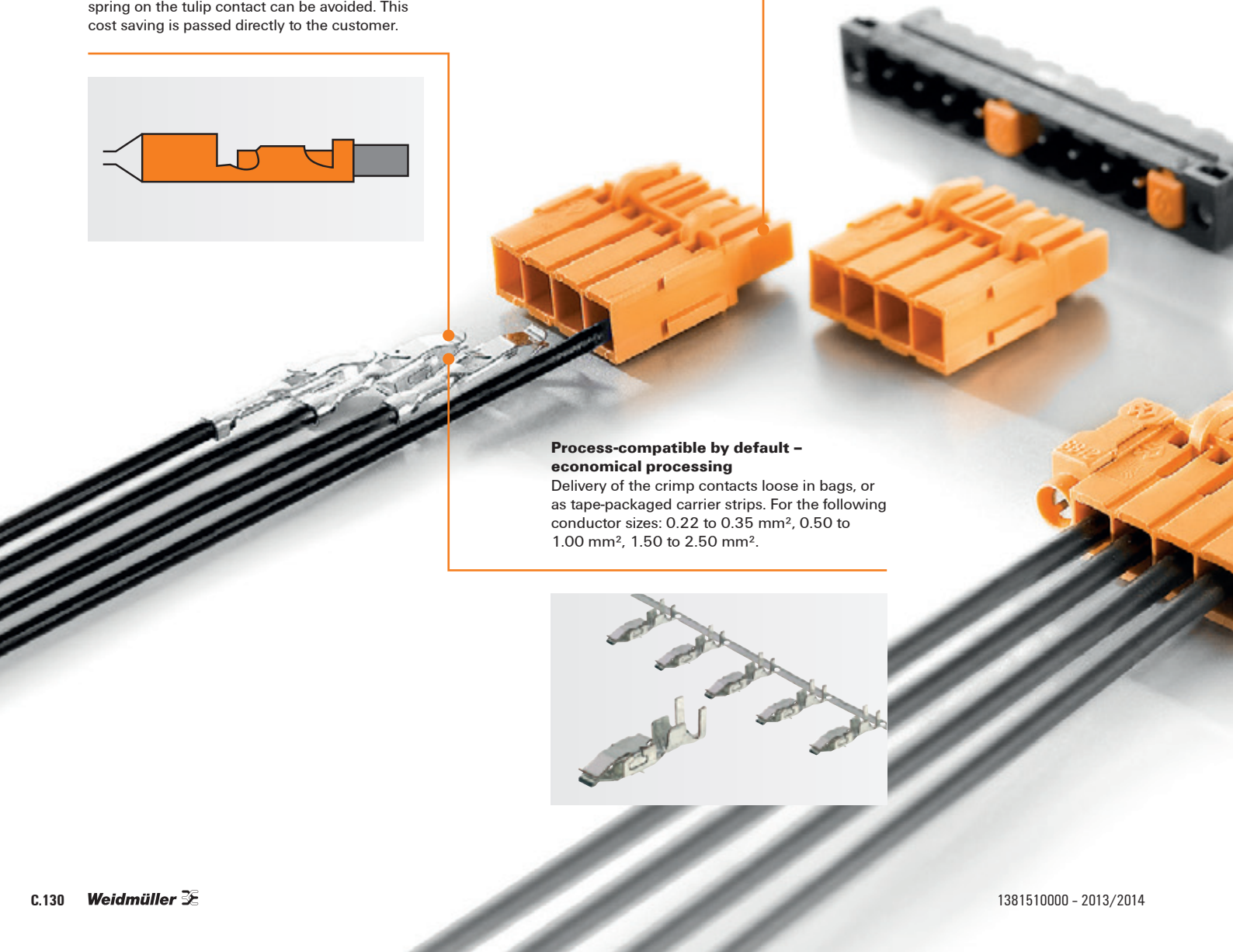
Cost effective and pre-assembled using a crimp connection

The BLC product family with crimp connections provides an affordable solution with pre-assembled female plugs that is also appropriate for large batch jobs. The contacts can be crimped by using hand tools or with a crimping machine in the factory when producing large batches.

Minimal height
With a height of only 12.2 mm, the BLT is currently the smallest TOP connection available.



Effective and cost-effective
By using high performance metals, a costly over-spring on the tulip contact can be avoided. This cost saving is passed directly to the customer.

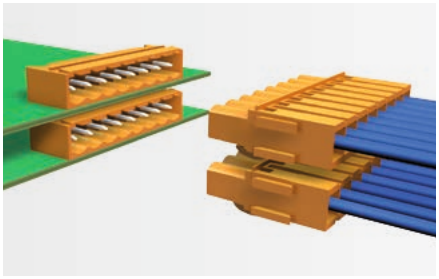


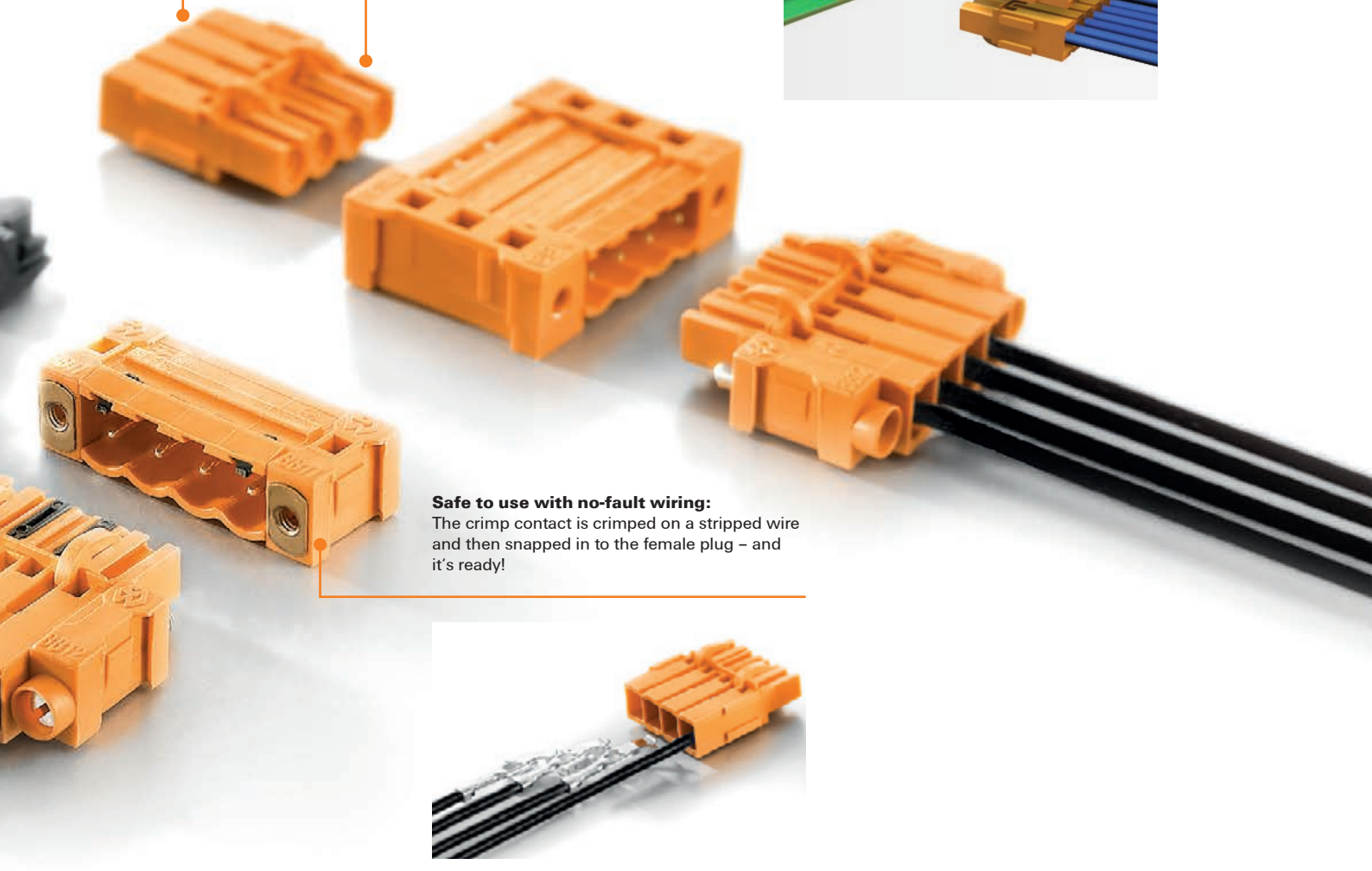
Process-compatible by default – economical processing
Delivery of the crimp contacts loose in bags, or as tape-packaged carrier strips. For the following conductor sizes: 0.22 to 0.35 mm², 0.50 to 1.00 mm², 1.50 to 2.50 mm².

Flexible for a variety of applications
Affordable machine crimping or with hand tools in the field.



High component density
Screw terminals have a 90° angle between the directions of the cable entry and the screw. The required space must then be taken into account when designing the device. In the crimp connector system, however, the conductor insertion and operation is parallel to the circuit board.

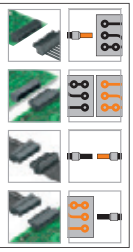




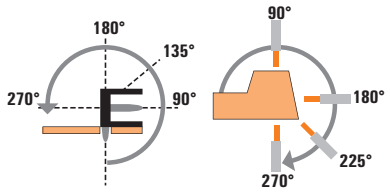
Safe to use with no-fault wiring:
The crimp contact is crimped on a stripped wire and then snapped in to the female plug – and it's ready!

http://www.OMNIMATE.net

= Wire-to-Board
= Board-to-Board
= Wire-to-Wire
= Board-to-Wire

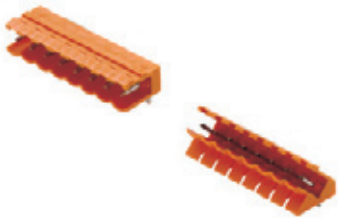


Orientation

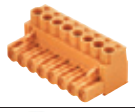


Male header

Solder connection



BL/SL 5.00 series

							Levels	1	
						Type		SL	SL
					Orientation			90°	135°
				Flange options				(O)/B	(O)/B
					IEC / UL			IEC: 400 V/18 A UL: 300 V/15 A	IEC: 400 V/17 A UL: 300 V/15 A
							Page	C.144	C.148
Female plug	Screw: Clamping yoke		**BLZP**	180°	(G)/F/LR	IEC: 400 V/19 A/0.2 - 4 mm² UL: 300 V/10 A/AWG 26 - 12	C.152	○	○
			**BLZP**	90°	(G)/F/LR	IEC: 400 V/15.5 A/0.2 - 4 mm² UL: 300 V/10 A/AWG 26 - 12	C.154	○	○
			**BLZP**	270°	(G)/F/LR	IEC: 400 V/15.5 A/0.2 - 4 mm² UL: 300 V/10 A/AWG 26 - 12	C.156	○	○
	Spring: PUSH IN		**BLF**	180°	(G)/F/LR	IEC:: 400 V/20.5 A/0.2 - 2.5 mm² UL: 300 V/10 A/AWG 26 - 12	C.158	○	○
			**BLF**	90°	(G)/F/LR	IEC:: 400 V/20 A/ 0.2 - 2.5 mm² UL: 300 V/10 A/ AWG 26 - 12	C.160	○	○

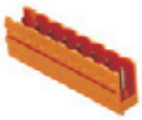
Female plug and header:
(G)* = Closed (without flange)
F = Flange with screw
LR = Lock & Release lever

* not included in the article description

Male header and plug:
(O)* = open
B = Dovetail for fixing blocks with a nut
G = closed
F = Screw flange with nut
LF = Solder flange with nut
GLF = closed with additional solder flange
FLF = Flange with nut and additional solder flange

Male header

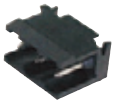
Solder connection





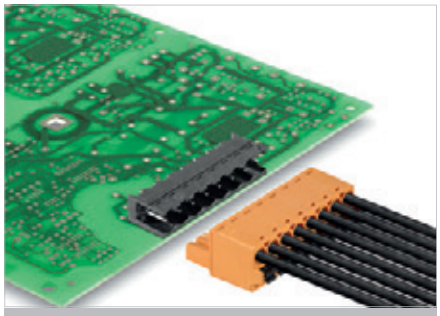
Reflow solder connection




1	2		1		1		2
SL	**SLD**	**SLD**	**SL-SMT**	**SL-SMT**	**SL-SMarT**	**SL-SMarT**	**SLDV-THR**
180°	90°	180°	90°	180°	90°	180°	180°
(0)/B	G	G	(0)/G/LF	(0)/G/LF	(0)	(0)	G/GLF/F/FLF
IEC: 400 V/18 A UL: 300 V/15 A	IEC: 400 V/11 A UL: 300 V/10 A	IEC: 400 V/11 A UL: 300 V/10 A	IEC: 400 V/19 A UL: 300 V/15 A	IEC: 400 V/19 A UL: 300 V/15 A	IEC: 400 V/16.5 A UL: 300 V/15 A	IEC: 400 V/16.5 A UL: 300 V/15 A	IEC: 400 V/15 A UL: 300 V/10 A
C.146	C.150	C.151	C.134	C.138	C.184	C.185	C.142
○	○	○	○	○	○	○	○
○			○	○	○	○	○
○			○	○	○	○	
○	○	○	○	○	○	○	○
○			○	○	○	○	○

SL-SMT 5.00/../90



High-temperature-resistant, 90°-angled male header, optimised for SMT processing. The male headers can be manually coded or ordered as pre-coded headers.

- Available in open, closed (G) or with solder Flange (LF).
- The solder flange makes an additional screw-fixation to the PCB unnecessary and protects the solder joints against mechanical stress.
- Available with 1.5 mm or 3.2 mm solder pins.
- Packed either in box (BX) or an anti-static roll (tape-on-reel, RL)
- The 1.5 mm solder pin reduces the solder paste to a minimum without loosing holding force to the PCB.

Product data

IEC: 400 V / 19 A
UL: 300 V / 15 A

For additional articles and information, refer to catalog.weidmueller.com

Note:

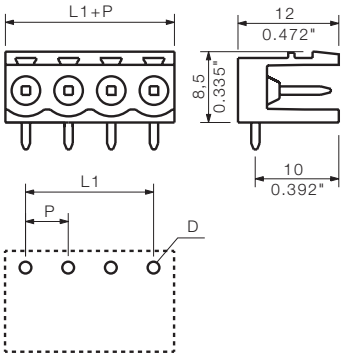
- Gold-plated contact surfaces on request
- Rated current related to rated cross-section & min. No. of poles.
- Diameter of solder eyelet D = 1.4+0.1mm
- Diameter of solder eyelet D = 1.5+0.1mm from 9-pole
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

SL-SMT 5.00/../90 Box

Packaged in box



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm²			
Solid core H05(07) V-U	**mm²**			
Stranded H07 V-R				
Flexible H05(07) V-K	mm²			
Flexible with ferrule	mm²			
Ferrule with plastic collar	mm²			
Stripping length	mm			
Screwdriver blade	mm			
According to norm				
Tightening torque range	Nm			
Rated current, max.	**A**	**19**		**16**
At ambient temperature		20°C		40°C
For conductor cross-section	mm²			
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	**V**	**250**	**320**	**400**
Rated impulse voltage	kV	4	4	4
UL / CUL (Use Group)		**B**	**C**	**D**
Rated voltage	**V**	**300**		**300**
Rated current	**A**	**15**		**10**
AWG conductor	**AWG**		-	
CSA (Use Group)		**B**	**C**	**D**
Rated voltage	V	300		300
Rated current	A	15		10
AWG conductor	AWG		-	
General data				
Type of insulation material		LCP GF		
UL 94 flammability rating		V-0		
Contact base material		CuSn		
Material of contact surface				
Pin dimensions = d	mm	1.2, Octagonal		
Solder eyelet Ø = D	mm	1.5		
Solder eyelet Ø tolerance	mm	+ 0,1		

Accessories

Note: Refer to the Accessories chapter for additional accessories.

Coding		Order No.
	BLZ/SL KO OR	1573010000
	BLZ/SL KO SW	1545710000
Partition element		
	SL AT OR	1598300000
	SL AT SW	1770240000
LED light guide		
	SL FLA 1.5/1	1580100000
	SL FLA 1.5/24	1595850000
	SL FLA 2,3/1	1636670000
	SL FLA 2,3/24	1636680000
	SL FLA 3.8/1	1580110000
	SL FLA 3.8/24	1595860000
	SL FLA 9.0/1	1580120000
	SL FLA 9.0/24	1595870000

Ordering data

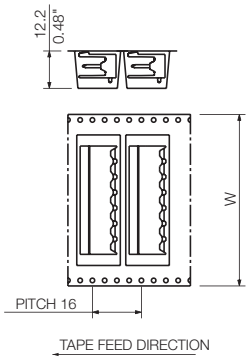
Solder pin length				1.5 mm	3.2 mm
Colour				Black	Black
Pitch	**5.00 mm**				
Pol.	L1	(inch)	**Qty.**	**Order No.**	**Order No.**
2	5.00	0.197	100	1796930000	1839890000
3	10.00	0.394	100	1796940000	1839900000
4	15.00	0.591	100	1796950000	1839910000
5	20.00	0.787	50	1796960000	1839920000
6	25.00	0.984	50	1796970000	1839930000
7	30.00	1.181	50	1796980000	1839940000
8	35.00	1.378	50	1796990000	1839950000
9	40.00	1.575	50	1797000000	1839960000
10	45.00	1.772	50	1797010000	1839970000
11	50.00	1.969	50	1797020000	1839980000
12	55.00	2.165	50	1797030000	1839990000
13	60.00	2.362	50	1797040000	1840000000
14	65.00	2.559	50	1797050000	1840010000
15	70.00	2.756	50	1797060000	1840020000
16	75.00	2.953	50	1797070000	1840030000
17	80.00	3.150	20		1840040000
18	85.00	3.346	20		1840050000
19	90.00	3.543	20		1840060000
20	95.00	3.740	20		1840070000
21	100.00	3.937	20		1840080000
22	105.00	4.134	20		1840090000
23	110.00	4.331	20		1840100000
24	115.00	4.528	20		1840110000

SL-SMT 5.00/../90 Tape

Tape-on-reel



Dimensioned drawing



Ordering data

Solder pin length				1.5 mm
Colour				Black
Pitch	**5.00 mm**			
Pol.	L1	(inch)	Qty.	Order No.
2	5.00	0.197	350	1797620000
3	10.00	0.394	350	1797630000
4	15.00	0.591	350	1797640000
5	20.00	0.787	350	1797650000
6	25.00	0.984	350	1797660000
7	30.00	1.181	350	1797670000
8	35.00	1.378	350	1797680000

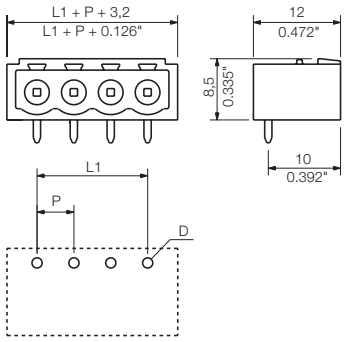
Tape widths: 32, 44, 56, 72, 88

SL-SMT 5.00/../90G Box

Packaged in box



Dimensioned drawing



Ordering data

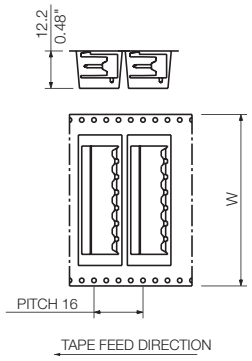
Solder pin length				1.5 mm	3.2 mm
Colour				Black	Black
Pitch	**5.00 mm**				
Pol.	L1	(inch)	Qty.	Order No.	Order No.
2	5.00	0.197	100	1797080000	1840120000
3	10.00	0.394	100	1797090000	1840130000
4	15.00	0.591	100	1797100000	1840140000
5	20.00	0.787	50	1797110000	1840150000
6	25.00	0.984	50	1797120000	1840160000
7	30.00	1.181	50	1797130000	1840170000
8	35.00	1.378	50	1797140000	1840180000
9	40.00	1.575	50	1797150000	1840190000
10	45.00	1.772	50	1797160000	1840200000
11	50.00	1.969	50	1797170000	1840210000
12	55.00	2.165	50	1797180000	1840220000
13	60.00	2.362	50	1797190000	1840230000
14	65.00	2.559	50	1797200000	1840240000
15	70.00	2.756	50	1797210000	1840250000
16	75.00	2.953	50	1797220000	1840260000
17	80.00	3.150	20		1840270000
18	85.00	3.346	20		1840280000
19	90.00	3.543	20		1840290000
20	95.00	3.740	20		1840300000
21	100.00	3.937	20		1840310000
22	105.00	4.134	20		1840320000
23	110.00	4.331	20		1840330000
24	115.00	4.528	20		1840340000

SL-SMT 5.00/../90G Tape

Tape-on-reel



Dimensioned drawing

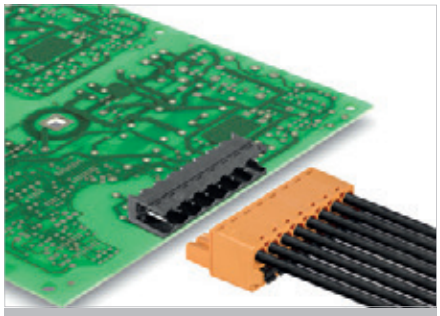


Ordering data

Solder pin length				1.5 mm
Colour				Black
Pitch	**5.00 mm**			
Pol.	L1	(inch)	Qty.	Order No.
2	5.00	0.197	350	1797690000
3	10.00	0.394	350	1797700000
4	15.00	0.591	350	1797710000
5	20.00	0.787	350	1797720000
6	25.00	0.984	350	1797730000
7	30.00	1.181	350	1797740000

Tape widths: 32, 44, 56, 72, 88

SL-SMT 5.00/../90



High-temperature-resistant, 90°-angled male header, optimised for SMT processing. The male headers can be manually coded or ordered as pre-coded headers.

- Available in open, closed (G) or with solder Flange (LF).
- The solder flange makes an additional screw-fixation to the PCB unnecessary and protects the solder joints against mechanical stress.
- Available with 1.5 mm or 3.2 mm solder pins.
- Packed either in box (BX) or an anti-static roll (tape-on-reel, RL)
- The 1.5 mm solder pin reduces the solder paste to a minimum without loosing holding force to the PCB.

Product data

IEC: 400 V / 19 A
UL: 300 V / 15 A

For additional articles and information, refer to catalog.weidmueller.com

Note:

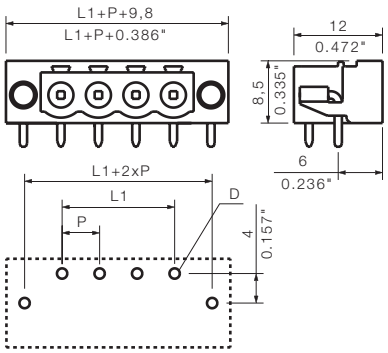
- Gold-plated contact surfaces on request
- Rated current related to rated cross-section & min. No. of poles.
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

SL-SMT 5.00/../90LF Box

Packaged in box; with solder flange



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm²			
Solid core H05(07) V-U	**mm²**			
Stranded H07 V-R				
Flexible H05(07) V-K	mm²			
Flexible with ferrule	mm²			
Ferrule with plastic collar	mm²			
Stripping length	mm			
Screwdriver blade	mm			
According to norm				
Tightening torque range	Nm			
Rated current, max.	**A**	**19**		**16**
At ambient temperature		20°C		40°C
For conductor cross-section	mm²			
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	**V**	**250**	**320**	**400**
Rated impulse voltage	kV	4	4	4
UL / CUL (Use Group)		**B**	**C**	**D**
Rated voltage	**V**	**300**		**300**
Rated current	**A**	**15**		**10**
AWG conductor	**AWG**		-	
CSA (Use Group)		**B**	**C**	**D**
Rated voltage	V	300		300
Rated current	A	15		10
AWG conductor	AWG		-	
General data				
Type of insulation material		LCP GF		
UL 94 flammability rating		V-0		
Contact base material		CuSn		
Material of contact surface				
Pin dimensions = d	mm	1.2, Octagonal		
Solder eyelet Ø = D	mm	1.5		
Solder eyelet Ø tolerance	mm	+ 0,1		

Accessories

Note: Refer to the Accessories chapter for additional accessories.

Coding		Order No.
	BLZ/SL KO OR	1573010000
	BLZ/SL KO SW	1545710000
Partition element		
	SL AT OR	1598300000
	SL AT SW	1770240000
LED light guide		
	SL FLA 1.5/1	1580100000
	SL FLA 1.5/24	1595850000
	SL FLA 2,3/1	1636670000
	SL FLA 2,3/24	1636680000
	SL FLA 3.8/1	1580110000
	SL FLA 3.8/24	1595860000
	SL FLA 9.0/1	1580120000
	SL FLA 9.0/24	1595870000

Ordering data

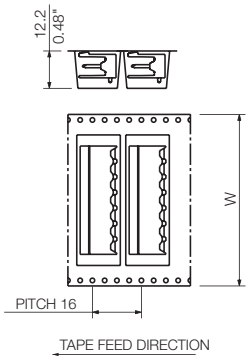
Solder pin length				1.5 mm	3.2 mm
Colour				Black	Black
Pitch	**5.00 mm**				
Pol.	L1	(inch)	Qty.	Order No.	Order No.
2	5.00	0.197	100	1797230000	1840350000
3	10.00	0.394	100	1797240000	1840360000
4	15.00	0.591	100	1797250000	1840370000
5	20.00	0.787	50	1797260000	1840380000
6	40.00	1.575	50	1797270000	1840390000
7	30.00	1.181	50	1797280000	1840400000
8	35.00	1.378	50	1797290000	1840410000
9	40.00	1.575	50	1797300000	1840420000
10	45.00	1.772	50	1797310000	1840430000
11	50.00	1.969	50	1797320000	1840440000
12	55.00	2.165	50	1797330000	1840450000
13	60.00	2.362	50	1797340000	1840460000
14	65.00	2.559	50	1797350000	1840470000
15	70.00	2.756	50	1797360000	1840480000
16	75.00	2.953	50	1797370000	1840490000
17	80.00	3.150	20		1840500000
18	85.00	3.346	20		1840510000
19	95.00	3.543	20		1840520000
20	100.00	3.740	20		1840530000
21	90.00	3.397	20		1840540000
22	105.00	4.134	20		1840550000
23	115.00	4.331	20		1840560000
24	110.00	4.258	20		1840570000

SL-SMT 5.00/../90LF Tape

Tape-on-reel; with solder flange



Dimensioned drawing



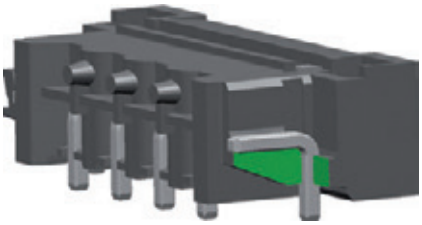
Ordering data

Solder pin length				1.5 mm
Colour				Black
Pitch	**5.00 mm**			
Pol.	L1	(inch)	**Qty.**	**Order No.**
2	5.00	0.197	350	**1797750000**
3	10.00	0.394	350	**1797760000**
4	15.00	0.591	350	**1797770000**
5	20.00	0.787	350	**1797780000**
6	25.00	0.984	350	**1797790000**

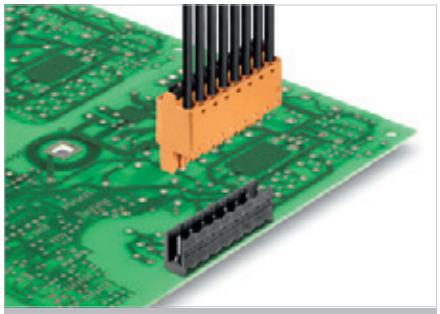
Tape widths: 32, 44, 56, 72, 88

Solder flange (LF)

Normally you use a pin header with fastening flanges (F) in combination with a screw from the rear side of the PCB to increase the fixation forces of the pin headers.
The disadvantages are additional process steps that make the PCB mounting complex and cost intensive.
The patented solder flange was designed to solve exactly this problem and find a simple and cheap solution. The additional solder pins substitute the present screw flanges and they get soldered together with the pin header.
This terminates additional process steps and thus reduces production costs. The additional fixation protects the soldered connections from tensile strain and avoids permanent mechanical stress such as caused by the post-fastened screw forces.



SL-SMT 5.00/../180



High-temperature-resistant, 180°-angled male header, optimised for SMT processing. The male headers can be manually coded or ordered as pre-coded headers.

- Available in open, closed (G) or with solder Flange (LF).
- The solder flange makes an additional screw-fixation to the PCB unnecessary and protects the solder joints against mechanical stress.
- Available with 1.5 mm or 3.2 mm solder pins.
- Packed either in box (BX) or an anti-static roll (tape-on-reel, RL)
- The 1.5 mm solder pin reduces the solder paste to a minimum without loosing holding force to the PCB.

Product data

IEC: 400 V / 19 A
UL: 300 V / 15 A

For additional articles and information, refer to catalog.weidmueller.com

Note:

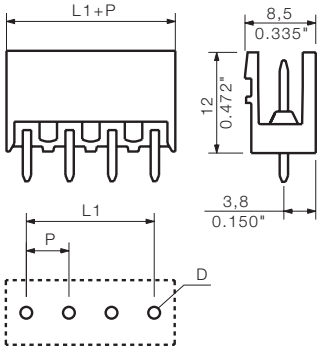
- Gold-plated contact surfaces on request
- Rated current related to rated cross-section & min. No. of poles.
- Diameter of solder eyelet D = 1.4+0.1mm
- Diameter of solder eyelet D = 1.5+0.1mm from 9-pole
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

SL-SMT 5.00/../180 Box

Packaged in box



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm²			
Solid core H05(07) V-U	**mm²**			
Stranded H07 V-R				
Flexible H05(07) V-K	mm²			
Flexible with ferrule	mm²			
Ferrule with plastic collar	mm²			
Stripping length	mm			
Screwdriver blade	mm			
According to norm				
Tightening torque range	Nm			
Rated current, max.	**A**	**19**		**16**
At ambient temperature		20°C		40°C
For conductor cross-section	mm²			
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	**V**	**250**	**320**	**400**
Rated impulse voltage	kV	4	4	4
UL / CUL (Use Group)		**B**	**C**	**D**
Rated voltage	**V**	**300**		**300**
Rated current	**A**	**15**		**10**
AWG conductor	**AWG**		-	
CSA (Use Group)		**B**	**C**	**D**
Rated voltage	V	300		300
Rated current	A	15		10
AWG conductor	AWG		-	
General data				
Type of insulation material		LCP GF		
UL 94 flammability rating		V-0		
Contact base material		CuSn		
Material of contact surface				
Pin dimensions = d	mm	1.2, Octagonal		
Solder eyelet Ø = D	mm	1.5		
Solder eyelet Ø tolerance	mm	+ 0,1		

Accessories

Note: Refer to the Accessories chapter for additional accessories.

Coding		Order No.
	BLZ/SL KO OR	1573010000
	BLZ/SL KO SW	1545710000
Partition element		
	SL AT OR	1598300000
	SL AT SW	1770240000

Ordering data

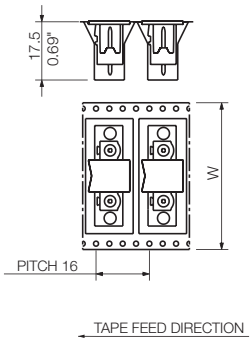
Solder pin length				1.5 mm	3.2 mm
Colour				Black	Black
Pitch	**5.00 mm**				
Pol.	L1	(inch)	**Qty.**	**Order No.**	**Order No.**
2	5.00	0.197	100	1796480000	1840920000
3	10.00	0.394	100	1796490000	1840930000
4	15.00	0.591	100	1796500000	1840940000
5	20.00	0.787	50	1796510000	1840950000
6	25.00	0.984	50	1796520000	1840960000
7	30.00	1.181	50	1796530000	1840970000
8	35.00	1.378	50	1796540000	1840980000
9	40.00	1.575	50	1796550000	1840990000
10	45.00	1.772	50	1796560000	1841000000
11	50.00	1.969	50	1796570000	1841020000
12	55.00	2.165	50	1796580000	1841030000
13	60.00	2.362	50	1796590000	1841040000
14	65.00	2.559	50	1796600000	1841050000
15	70.00	2.756	50	1796610000	1841060000
16	75.00	2.953	50	1796620000	1841070000
17	80.00	3.150	20		1841080000
18	85.00	3.346	20		1841090000
19	90.00	3.543	20		1841100000
20	95.00	3.740	20		1841110000
21	100.00	3.937	20		1841120000
22	105.00	4.134	20		1841130000
23	110.00	4.331	20		1841140000
24	115.00	4.528	20		1841150000

SL-SMT 5.00/../180 Tape

Tape-on-reel



Dimensioned drawing



Ordering data

Solder pin length				1.5 mm
Colour				Black
Pitch	**5.00 mm**			
Pol.	**L1**	**(inch)**	**Qty.**	**Order No.**
2	5.00	0.197	250	**1797800000**
3	10.00	0.394	250	**1797810000**
4	15.00	0.591	250	**1797820000**
5	20.00	0.787	250	**1797830000**
6	25.00	0.984	250	**1797840000**
7	30.00	1.181	250	**1797850000**
8	35.00	1.378	250	**1797860000**

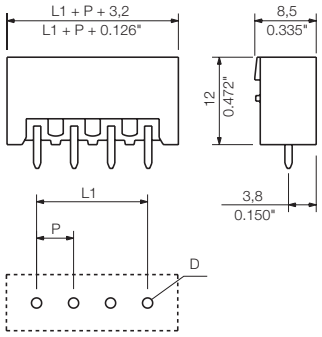
Tape widths: 32, 44, 56, 72, 88

SL-SMT 5.00/../180G Box

Packaged in box



Dimensioned drawing



Ordering data

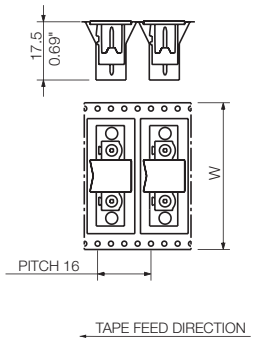
Solder pin length				1.5 mm	3.2 mm
Colour				Black	Black
Pitch	**5.00 mm**				
Pol.	**L1**	**(inch)**	**Qty.**	**Order No.**	**Order No.**
2	5.00	0.197	100	**1796630000**	**1841160000**
3	10.00	0.394	100	**1796640000**	**1841170000**
4	15.00	0.591	100	**1796650000**	**1841180000**
5	20.00	0.787	50	**1796660000**	**1841190000**
6	25.00	0.984	50	**1796670000**	**1841200000**
7	30.00	1.181	50	**1796680000**	**1841210000**
8	35.00	1.378	50	**1796690000**	**1841220000**
9	40.00	1.575	50	**1796700000**	**1841230000**
10	45.00	1.772	50	**1796710000**	**1841240000**
11	50.00	1.969	50	**1796720000**	**1841250000**
12	55.00	2.165	50	**1796730000**	**1841260000**
13	60.00	2.362	50	**1796740000**	**1841270000**
14	65.00	2.559	50	**1796750000**	**1841280000**
15	70.00	2.756	50	**1796760000**	**1841290000**
16	75.00	2.953	50	**1796770000**	**1841300000**
17	80.00	3.150	20		**1841310000**
18	85.00	3.346	20		**1841320000**
19	90.00	3.543	20		**1841330000**
20	95.00	3.740	20		**1841340000**
21	100.00	3.937	20		**1841350000**
22	105.00	4.134	20		**1841360000**
23	110.00	4.331	20		**1841370000**
24	115.00	4.528	20		**1841380000**

SL-SMT 5.00/../180G Tape

Tape-on-reel



Dimensioned drawing

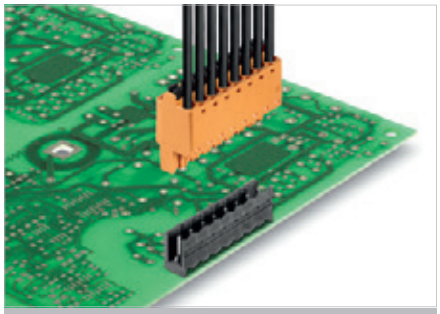


Ordering data

Solder pin length				1.5 mm
Colour				Black
Pitch	**5.00 mm**			
Pol.	**L1**	**(inch)**	**Qty.**	**Order No.**
2	5.00	0.197	250	**1797870000**
3	10.00	0.394	250	**1797880000**
4	15.00	0.591	250	**1797890000**
5	20.00	0.787	250	**1797900000**
6	25.00	0.984	250	**1797910000**
7	30.00	1.181	250	**1797920000**

Tape widths: 32, 44, 56, 72, 88

SL-SMT 5.00/../180



High-temperature-resistant, 180°-angled male header, optimised for SMT processing. The male headers can be manually coded or ordered as pre-coded headers.

- Available in open, closed (G) or with solder Flange (LF).
- The solder flange makes an additional screw-fixation to the PCB unnecessary and protects the solder joints against mechanical stress.
- Available with 1.5 mm or 3.2 mm solder pins.
- Packed either in box (BX) or an anti-static roll (tape-on-reel, RL)
- The 1.5 mm solder pin reduces the solder paste to a minimum without loosing holding force to the PCB.

Product data

IEC: 400 V / 19 A
UL: 300 V / 15 A

For additional articles and information, refer to catalog.weidmueller.com

Note:

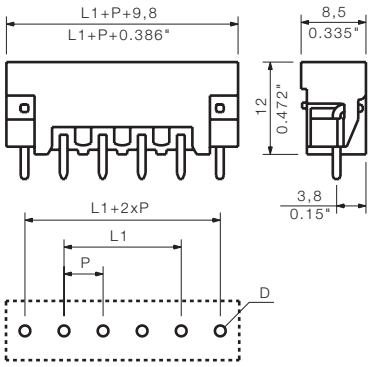
- Gold-plated contact surfaces on request
- Rated current related to rated cross-section & min. No. of poles.
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

SL-SMT 5.00/../180LF Box

Packaged in box; with solder flange



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm²			
Solid core H05(07) V-U	**mm²**			
Stranded H07 V-R				
Flexible H05(07) V-K	mm²			
Flexible with ferrule	mm²			
Ferrule with plastic collar	mm²			
Stripping length	mm			
Screwdriver blade	mm			
According to norm				
Tightening torque range	Nm			
Rated current, max.	**A**	**19**		**16**
At ambient temperature		20°C		40°C
For conductor cross-section	mm²			
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	**V**	**250**	**320**	**400**
Rated impulse voltage	kV	4	4	4
UL / CUL (Use Group)		**B**	**C**	**D**
Rated voltage	**V**	**300**		**300**
Rated current	**A**	**15**		**10**
AWG conductor	**AWG**		-	
CSA (Use Group)		**B**	**C**	**D**
Rated voltage	V	300		300
Rated current	A	15		10
AWG conductor	AWG		-	
General data				
Type of insulation material		LCP GF		
UL 94 flammability rating		V-0		
Contact base material		CuSn		
Material of contact surface				
Pin dimensions = d	mm	1.2, Octagonal		
Solder eyelet Ø = D	mm	1.5		
Solder eyelet Ø tolerance	mm	+ 0,1		

Accessories

Note: Refer to the Accessories chapter for additional accessories.

Coding		Order No.
	BLZ/SL KO OR	1573010000
	BLZ/SL KO SW	1545710000
Partition element		
	SL AT OR	1598300000
	SL AT SW	1770240000

Ordering data

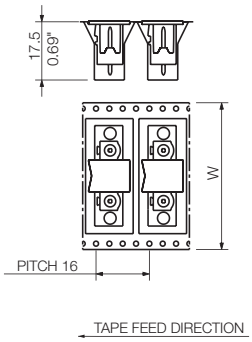
Solder pin length				1.5 mm	3.2 mm
Colour				Black	Black
Pitch	**5.00 mm**				
Pol.	L1	(inch)	**Qty.**	**Order No.**	**Order No.**
2	5.00	0.197	100	1796780000	1841390000
3	10.00	0.394	100	1796790000	1841400000
4	15.00	0.591	100	1796800000	1841410000
5	20.00	0.787	50	1796810000	1841420000
6	25.00	0.984	50	1796820000	1841430000
7	30.00	1.181	50	1796830000	1841440000
8	35.00	1.378	50	1796840000	1841450000
9	40.00	1.575	50	1796850000	1841460000
10	45.00	1.772	50	1796860000	1841470000
11	50.00	1.969	50	1796870000	1841480000
12	55.00	2.165	50	1796880000	1841490000
13	60.00	2.362	50	1796890000	1841500000
14	65.00	2.559	50	1796900000	1841510000
15	70.00	2.756	50	1796910000	1841520000
16	75.00	2.953	50	1796920000	1841530000
17	5.00	0.197	20		1841540000
18	5.00	0.197	20		1841550000
19	5.00	0.197	20		1841560000
20	5.00	0.197	20		1841570000
21	5.00	0.197	20		1841580000
22	5.00	0.197	20		1841590000
23	5.00	0.197	20		1841600000
24	5.00	0.197	20		1841610000

SL-SMT 5.00/../180LF Tape

Tape-on-reel; with solder flange



Dimensioned drawing



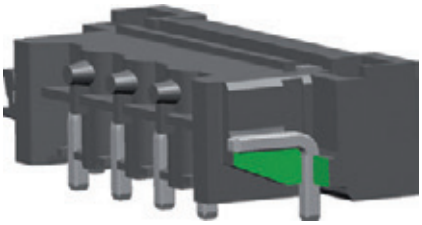
Ordering data

Solder pin length				1.5 mm
Colour				Black
Pitch	**5.00 mm**			
Pol.	L1	(inch)	**Qty.**	**Order No.**
2	5.00	0.197	250	**1797930000**
3	10.00	0.394	250	**1797940000**
4	15.00	0.591	250	**1797950000**
5	20.00	0.787	250	**1797960000**
6	25.00	0.984	250	**1797970000**

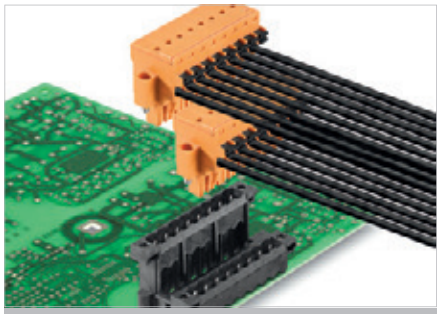
Tape widths: 32, 44, 56, 72, 88

Solder flange (LF)

Normally you use a pin header with fastening flanges (F) in combination with a screw from the rear side of the PCB to increase the fixation forces of the pin headers.
The disadvantages are additional process steps that make the PCB mounting complex and cost intensive.
The patented solder flange was designed to solve exactly this problem and find a simple and cheap solution. The additional solder pins substitute the present screw flanges and they get soldered together with the pin header.
This terminates additional process steps and thus reduces production costs. The additional fixation protects the soldered connections from tensile strain and avoids permanent mechanical stress such as caused by the post-fastened screw forces.



SLDV-THR 5.00/../180



Double-level, 180° male header, optimised for the SMT process. The connection levels are offset and designed for a female plug with screw connection or PUSH IN wire connect. The male headers can be manually coded or ordered as pre-coded headers.

- Available in closed (G), with solder Flange (GLF), screw flange (F) or screw & solder flange (FLF).
- The solder flange makes an additional screw-fixation to the PCB unnecessary and protects the solder joints against mechanical stress.
- Available with 1.5 mm or 3.2 mm solder pins.
- The 1.5 mm solder pin reduces the solder paste to a minimum without loosing holding force to the PCB.
- The FLF version is featured with a soldering flange and an additional screw-fastening possibility to the PCB.

Product data

IEC: 400 V / 15 A
UL: 300 V / 10 A

For additional articles and information, refer to catalog.weidmueller.com

Note:

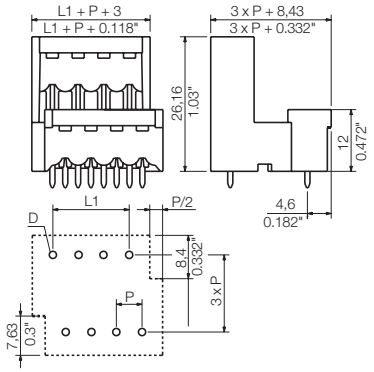
- Rated current related to rated cross-section & min. No. of poles.
- Spacing between rows: see hole layout
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

SLDV-THR 5.00/../180G

without solder flange



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm²			
Solid core H05(07) V-U	**mm²**			
Stranded H07 V-R				
Flexible H05(07) V-K	mm²			
Flexible with ferrule	mm²			
Ferrule with plastic collar	mm²			
Stripping length	mm			
Screwdriver blade	mm			
According to norm				
Tightening torque range	Nm			
Rated current, max.	**A**	**15**		**13**
At ambient temperature		20°C		40°C
For conductor cross-section	mm²			
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	**V**	**250**	**320**	**400**
Rated impulse voltage	kV	4	4	4
UL / CUL (Use Group)		**B**	**C**	**D**
Rated voltage	**V**	**300**		**300**
Rated current	**A**	**10**		**10**
AWG conductor	**AWG**		-	
CSA (Use Group)		**B**	**C**	**D**
Rated voltage	V	300		300
Rated current	A	10		10
AWG conductor	AWG		-	
General data				
Type of insulation material		LCP GF		
UL 94 flammability rating		V-0		
Contact base material		CuSn		
Material of contact surface		tinned		
Pin dimensions = d	mm	1.2, Octagonal		
Solder eyelet Ø = D	mm	1.5		
Solder eyelet Ø tolerance	mm	+ 0,1		

Accessories

Note: Refer to the Accessories chapter for additional accessories.

Coding		Order No.
	BLZ/SL KO OR	1573010000
	BLZ/SL KO SW	1545710000
Partition element		
	SL AT OR	1598300000
	SL AT SW	1770240000

Ordering data

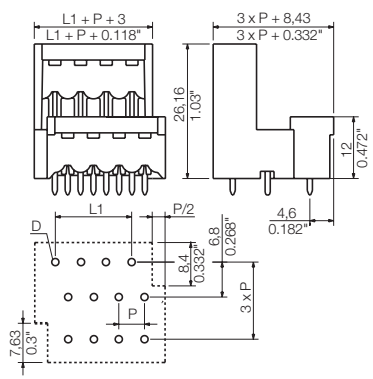
Solder pin length				1.5 mm	3.2 mm
Colour				Black	Black
Pitch	**5.00 mm**				
Pol.	L1	(inch)	**Qty.**	**Order No.**	**Order No.**
4	5.00	0.197	50	1894980000	1882690000
6	10.00	0.394	50	1894990000	1882700000
8	15.00	0.591	50	1895000000	1862370000
10	20.00	0.787	50	1895010000	1882710000
12	25.00	0.984	50	1895020000	1882720000
14	30.00	1.181	20	1895030000	1882730000
16	35.00	1.378	20	1895040000	1862380000
18	40.00	1.575	20	1895050000	1882740000
20	45.00	1.772	20	1895060000	1862390000
22	50.00	1.969	10	1895070000	1882750000
24	55.00	2.165	10	1895080000	1882760000
26	60.00	2.362	10	1895090000	1882770000
28	65.00	2.559	10	1895100000	1882780000
30	70.00	2.756	10	1895110000	1882790000
32	75.00	2.953	10	1895120000	1882800000
34	80.00	3.150	10	1895130000	1882810000
36	85.00	3.346	10	1895140000	1882820000
38	90.00	3.543	10	1895150000	1882830000
40	95.00	3.740	10	1895180000	1862400000
42	100.00	3.937	10	1895190000	1882840000
44	105.00	4.134	10	1895200000	1882850000
46	110.00	4.331	10	1895210000	1882860000
48	115.00	4.528	10	1895220000	1882870000

SLDV-THR 5.00/../180GLF

with solder flange



Dimensioned drawing



Ordering data

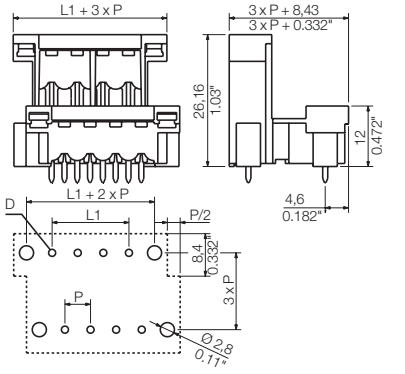
Solder pin length				1.5 mm	3.2 mm
Colour				Black	Black
Pitch	5.00 mm				
Pol.	L1	(inch)	Qty.	Order No.	Order No.
4	5.00	0.197	50	1911750000	1911290000
6	10.00	0.394	50	1911760000	1911310000
8	15.00	0.591	50	1911770000	1911320000
10	20.00	0.787	50	1911780000	1911330000
12	25.00	0.984	50	1911790000	1911340000
14	30.00	1.181	20	1911800000	1911350000
16	35.00	1.378	20	1911810000	1911360000
18	40.00	1.575	20	1911820000	1911370000
20	45.00	1.772	20	1911830000	1911410000
22	50.00	1.969	10	1911840000	1911470000
24	55.00	2.165	10	1911850000	1911500000
26	60.00	2.362	10	1911860000	1911520000
28	65.00	2.559	10	1911870000	1911550000
30	70.00	2.756	10	1911880000	1911640000
32	75.00	2.953	10	1911890000	1911650000
34	80.00	3.150	10	1911900000	1911660000
36	85.00	3.346	10	1911910000	1911670000
38	90.00	3.543	10	1911920000	1911680000
40	95.00	3.740	10	1911930000	1911690000
42	100.00	3.937	10	1911940000	1911710000
44	105.00	4.134	10	1911950000	1911720000
46	110.00	4.331	10	1911960000	1911730000
48	115.00	4.528	10	1911970000	1911740000

SLDV-THR 5.00/../180F

without solder flange



Dimensioned drawing



Ordering data

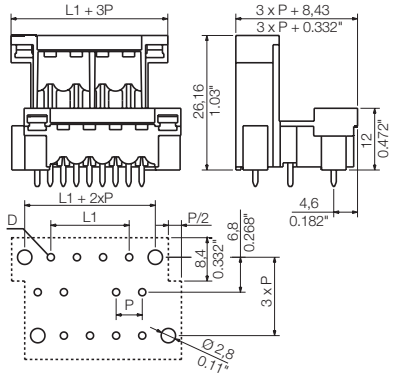
Solder pin length				1.5 mm	3.2 mm
Colour				Black	Black
Pitch	5.00 mm				
Pol.	L1	(inch)	Qty.	Order No.	Order No.
4	5.00	0.197	50	1895230000	1882930000
6	10.00	0.394	50	1895240000	1882940000
8	15.00	0.591	50	1895250000	1882950000
10	20.00	0.787	50	1895260000	1882960000
12	25.00	0.984	50	1895270000	1882970000
14	30.00	1.181	20	1895280000	1882980000
16	35.00	1.378	20	1895290000	1882990000
18	40.00	1.575	20	1895300000	1883000000
20	45.00	1.772	20	1895310000	1881340000
22	50.00	1.969	10	1895320000	1883010000
24	55.00	2.165	10	1895330000	1881370000
26	60.00	2.362	10	1895340000	1883020000
28	65.00	2.559	10	1895350000	1881390000
30	70.00	2.756	10	1895360000	1883030000
32	75.00	2.953	10	1895370000	1881400000
34	80.00	3.150	10	1895380000	1881420000
36	85.00	3.346	10	1895390000	1881470000
38	90.00	3.543	10	1895400000	1883040000
40	95.00	3.740	10	1895410000	1881490000
42	100.00	3.937	10	1895420000	1883050000
44	105.00	4.134	10	1895430000	1883060000
46	110.00	4.331	10	1895440000	1883070000
48	115.00	4.528	10	1895450000	1883080000

SLDV-THR 5.00/../180FLF

with solder flange



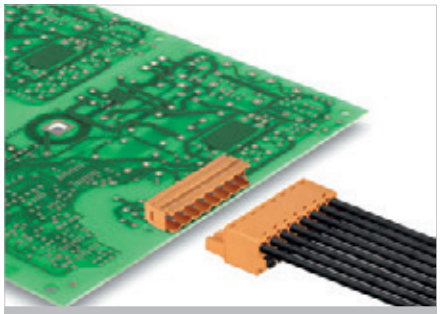
Dimensioned drawing



Ordering data

Solder pin length				1.5 mm	3.2 mm
Colour				Black	Black
Pitch	5.00 mm				
Pol.	L1	(inch)	Qty.	Order No.	Order No.
4	5.00	0.197	50	1895460000	1883100000
6	10.00	0.394	50	1895470000	1883110000
8	15.00	0.591	50	1895480000	1883120000
10	20.00	0.787	50	1895490000	1883130000
12	25.00	0.984	50	1895500000	1883140000
14	30.00	1.181	20	1895510000	1883150000
16	35.00	1.378	20	1895520000	1883160000
18	40.00	1.575	20	1895530000	1883170000
20	45.00	1.772	20	1895540000	1883180000
22	50.00	1.969	10	1895550000	1883190000
24	55.00	2.165	10	1895560000	1883200000
26	60.00	2.362	10	1895570000	1883230000
28	65.00	2.559	10	1895580000	1883240000
30	70.00	2.756	10	1895590000	1883250000
32	75.00	2.953	10	1895600000	1883270000
34	80.00	3.150	10	1895610000	1883280000
36	85.00	3.346	10	1895620000	1883290000
38	90.00	3.543	10	1895630000	1883300000
40	95.00	3.740	10	1895640000	1883310000
42	100.00	3.937	10	1895650000	1883320000
44	105.00	4.134	10	1895660000	1883330000
46	110.00	4.331	10	1895670000	1883340000
48	115.00	4.528	10	1895680000	1883350000

SL 5.00/../90



Male headers with 90° orientation, optimised for wave soldering. Available in versions with either open or closed ends (B). Mounting blocks can be attached into the closed variants. The blocks can be used to screw on to the female plug of the circuit board. The male headers can be manually coded or ordered as pre-coded headers.

Product data

IEC: 400 V / 18 A
UL: 300 V / 15 A

For additional articles and information, refer to catalog.weidmueller.com

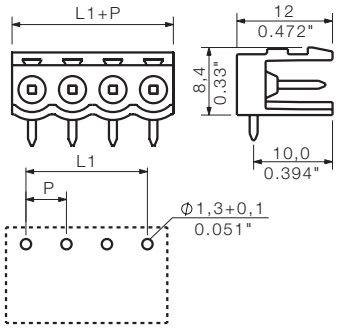
Note:

- Additional colours on request
- Gold-plated contact surfaces on request
- Rated current related to rated cross-section & min. No. of poles.
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

SL 5.00/../90



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm²			
Solid core H05(07) V-U	**mm²**			
Stranded H07 V-R				
Flexible H05(07) V-K	mm²			
Flexible with ferrule	mm²			
Ferrule with plastic collar	mm²			
Stripping length	mm			
Screwdriver blade	mm			
According to norm				
Tightening torque range	Nm			
Rated current, max.	**A**	**18**		**15**
At ambient temperature		20°C		40°C
For conductor cross-section	mm²			
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	**V**	**250**	**320**	**400**
Rated impulse voltage	kV	4	4	4
UL / CUL (Use Group)		**B**	**C**	**D**
Rated voltage	**V**	**300**		**300**
Rated current	**A**	**15**		**10**
AWG conductor	**AWG**		-	
CSA (Use Group)		**B**	**C**	**D**
Rated voltage	V	300		300
Rated current	A	15		10
AWG conductor	AWG		-	
General data				
Type of insulation material		PBT		
UL 94 flammability rating		V-0		
Contact base material		CuSn		
Material of contact surface		tinned		
Pin dimensions = d	mm	1.2, Octagonal		
Solder eyelet Ø = D	mm	1.3		
Solder eyelet Ø tolerance	mm	+ 0,1		

Accessories

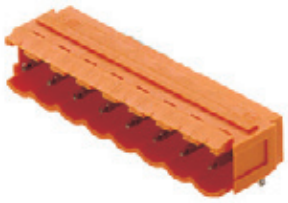
Note: Refer to the Accessories chapter for additional accessories.

Coding		Order No.
	BLZ/SL KO OR	1573010000
	BLZ/SL KO SW	1545710000
Partition element		
	SL AT OR	1598300000
	SL AT SW	1770240000
LED light guide		
	SL FLA 1.5/1	1580100000
	SL FLA 1.5/24	1595850000
	SL FLA 2,3/1	1636670000
	SL FLA 2,3/24	1636680000
	SL FLA 3.8/1	1580110000
	SL FLA 3.8/24	1595860000
	SL FLA 9.0/1	1580120000
	SL FLA 9.0/24	1595870000
Mounting block		
	SLA BB11R OR	1604120000
	SLA BB11R SW	1692340000

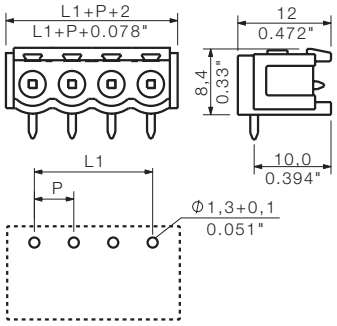
Ordering data

Solder pin length				3.2 mm
Colour				Orange
Pitch	**5.00 mm**			
Pol.	L1	(inch)	Qty.	Order No.
2	5.00	0.197	100	1571130000
3	10.00	0.394	100	1571140000
4	15.00	0.591	100	1571150000
5	20.00	0.787	50	1571160000
6	25.00	0.984	50	1571170000
7	30.00	1.181	50	1571180000
8	35.00	1.378	50	1571190000
9	40.00	1.575	50	1571200000
10	45.00	1.772	50	1571210000
11	50.00	1.969	50	1571220000
12	55.00	2.165	50	1571110000
13	60.00	2.362	50	1571230000
14	65.00	2.559	50	1571240000
15	70.00	2.756	50	1571250000
16	75.00	2.953	50	1571260000
17	80.00	3.150	20	1571270000
18	85.00	3.346	20	1571280000
19	90.00	3.543	20	1571290000
20	95.00	3.740	20	1571300000
21	100.00	3.937	20	1571310000
22	105.00	4.134	20	1571320000
23	110.00	4.331	20	1571330000
24	115.00	4.528	20	1571340000

SL 5.00/../90B



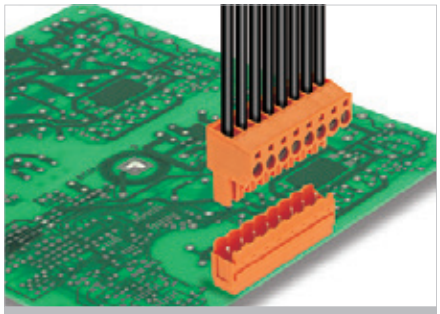
Dimensioned drawing



Ordering data

Solder pin length				3.2 mm
Colour				Orange
Pitch	**5.00 mm**			
Pol.	L1	(inch)	**Qty.**	**Order No.**
2	5.00	0.197	100	**1580860000**
3	10.00	0.394	100	**1580870000**
4	15.00	0.591	100	**1580880000**
5	20.00	0.787	50	**1580890000**
6	25.00	0.984	50	**1580900000**
7	30.00	1.181	50	**1580910000**
8	35.00	1.378	50	**1580920000**
9	40.00	1.575	50	**1580930000**
10	45.00	1.772	50	**1580940000**
11	50.00	1.969	50	**1580950000**
12	55.00	2.165	50	**1580960000**
13	60.00	2.362	50	**1580970000**
14	65.00	2.559	50	**1580980000**
15	70.00	2.756	50	**1580990000**
16	75.00	2.953	50	**1581000000**
17	80.00	3.150	20	**1581010000**
18	85.00	3.346	20	**1581020000**
19	90.00	3.543	20	**1581030000**
20	95.00	3.740	20	**1581040000**
21	100.00	3.937	20	**1581050000**
22	105.00	4.134	20	**1581060000**
23	110.00	4.331	20	**1581070000**
24	115.00	4.528	20	**1581080000**

SL 5.00/../180



Male headers with 180° wire outlet, optimised for wave soldering. Available in versions with either open or closed ends (B). Mounting blocks can be attached onto the closed variants. The blocks can be used to screw on to the female plug of the circuit board. The male headers can be manually coded or ordered as pre-coded headers.

Product data

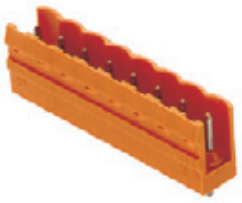
IEC: 400 V / 18 A
UL: 300 V / 15 A

For additional articles and information, refer to catalog.weidmueller.com

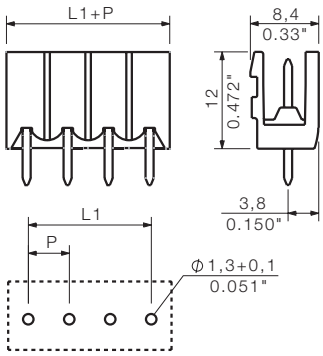
Note:

- Additional colours on request
- Gold-plated contact surfaces on request
- Rated current related to rated cross-section & min. No. of poles.
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

SL 5.00/../180



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm²			
Solid core H05(07) V-U	**mm²**			
Stranded H07 V-R				
Flexible H05(07) V-K	mm²			
Flexible with ferrule	mm²			
Ferrule with plastic collar	mm²			
Stripping length	mm			
Screwdriver blade	mm			
According to norm				
Tightening torque range	Nm			
Rated current, max.	**A**	**18**		**15**
At ambient temperature		20°C		40°C
For conductor cross-section	mm²			
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	**V**	**250**	**320**	**400**
Rated impulse voltage	kV	4	4	4
UL / CUL (Use Group)		**B**	**C**	**D**
Rated voltage	**V**	**300**		**300**
Rated current	**A**	**15**		**10**
AWG conductor	**AWG**		-	
CSA (Use Group)		**B**	**C**	**D**
Rated voltage	V	300		300
Rated current	A	15		10
AWG conductor	AWG		-	
General data				
Type of insulation material		PBT		
UL 94 flammability rating		V-0		
Contact base material		CuSn		
Material of contact surface		tinned		
Pin dimensions = d	mm	1.2, Octagonal		
Solder eyelet Ø = D	mm	1.3		
Solder eyelet Ø tolerance	mm	+ 0,1		

Accessories

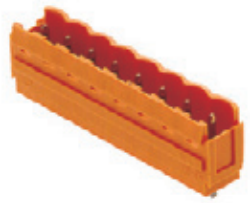
Note: Refer to the Accessories chapter for additional accessories.

Coding		Order No.
	BLZ/SL KO OR	1573010000
	BLZ/SL KO SW	1545710000
Partition element		
	SL AT OR	1598300000
	SL AT SW	1770240000
Mounting block		
	SLA BB11R OR	1604120000
	SLA BB11R SW	1692340000

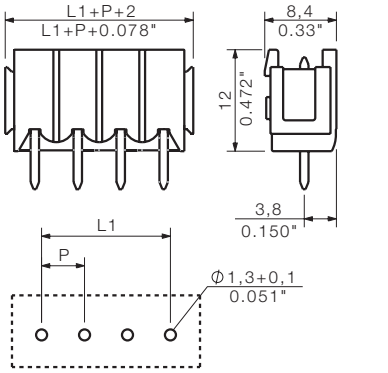
Ordering data

Solder pin length				3.2 mm
Colour				Orange
Pitch	**5.00 mm**			
Pol.	L1	(inch)	Qty.	Order No.
2	5.00	0.197	100	1581320000
3	10.00	0.394	100	1581330000
4	15.00	0.591	100	1581340000
5	20.00	0.787	50	1581350000
6	25.00	0.984	50	1581360000
7	30.00	1.181	50	1581370000
8	35.00	1.378	50	1581380000
9	40.00	1.575	50	1581390000
10	45.00	1.772	50	1581400000
11	50.00	1.969	50	1581410000
12	55.00	2.165	50	1581420000
13	60.00	2.362	50	1581430000
14	65.00	2.559	50	1581440000
15	70.00	2.756	50	1581450000
16	75.00	2.953	50	1581460000
17	80.00	3.150	20	1581470000
18	85.00	3.346	20	1581480000
19	90.00	3.543	20	1581490000
20	95.00	3.740	20	1581500000
21	100.00	3.937	20	1581510000
22	105.00	4.134	20	1581520000
23	110.00	4.331	20	1581530000
24	115.00	4.528	20	1581540000

SL 5.00/../180B



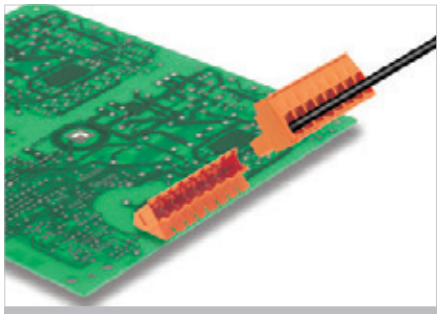
Dimensioned drawing



Ordering data

Solder pin length				3.2 mm
Colour				Orange
Pitch	**5.00 mm**			
Pol.	L1	(inch)	**Qty.**	**Order No.**
2	5.00	0.197	100	**1581780000**
3	10.00	0.394	100	**1581790000**
4	15.00	0.591	100	**1581800000**
5	20.00	0.787	50	**1581810000**
6	25.00	0.984	50	**1581820000**
7	30.00	1.181	50	**1581830000**
8	35.00	1.378	50	**1581840000**
9	40.00	1.575	50	**1581850000**
10	45.00	1.772	50	**1581860000**
11	50.00	1.969	50	**1581870000**
12	55.00	2.165	50	**1581880000**
13	60.00	2.362	50	**1581890000**
14	65.00	2.559	50	**1581900000**
15	70.00	2.756	50	**1581910000**
16	75.00	2.953	50	**1581920000**
17	80.00	3.150	20	**1581930000**
18	85.00	3.346	20	**1581940000**
19	90.00	3.543	20	**1581950000**
20	95.00	3.740	20	**1581960000**
21	100.00	3.937	20	**1581970000**
22	105.00	4.134	20	**1581980000**
23	110.00	4.331	20	**1581990000**
24	115.00	4.528	20	**1582000000**

SL 5.00/../135



Male headers with 135° wire outlet, optimised for wave soldering. Available in versions with either open or closed ends (B). Mounting blocks can be attached onto the closed variants. The blocks can be used to screw on to the female plug of the circuit board. The male headers can be manually coded or ordered as pre-coded headers.

Product data

IEC: 400 V / 17 A
UL: 300 V / 15 A

For additional articles and information, refer to catalog.weidmueller.com

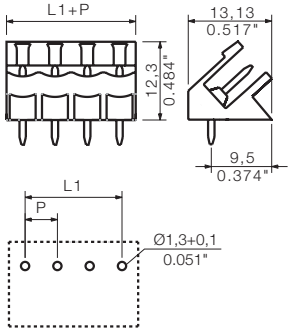
Note:

- Additional colours on request
- Gold-plated contact surfaces on request
- Rated current related to rated cross-section & min. No. of poles.
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

SL 5.00/../135



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm²			
Solid core H05(07) V-U	**mm²**			
Stranded H07 V-R				
Flexible H05(07) V-K	mm²			
Flexible with ferrule	mm²			
Ferrule with plastic collar	mm²			
Stripping length	mm			
Screwdriver blade	mm			
According to norm				
Tightening torque range	Nm			
Rated current, max.	**A**	**17**		**15**
At ambient temperature		20°C		40°C
For conductor cross-section	mm²			
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	**V**	**250**	**320**	**400**
Rated impulse voltage	kV	4	4	4
UL / CUL (Use Group)		**B**	**C**	**D**
Rated voltage	**V**	**300**		**300**
Rated current	**A**	**15**		**10**
AWG conductor	**AWG**		-	
CSA (Use Group)		**B**	**C**	**D**
Rated voltage	V	300		300
Rated current	A	15		10
AWG conductor	AWG		-	
General data				
Type of insulation material		PBT		
UL 94 flammability rating		V-0		
Contact base material		CuSn		
Material of contact surface		tinned		
Pin dimensions = d	mm	1.2, Octagonal		
Solder eyelet Ø = D	mm	1.3		
Solder eyelet Ø tolerance	mm	+ 0,1		

Accessories

Note: Refer to the Accessories chapter for additional accessories.

Coding		Order No.
	BLZ/SL KO OR	1573010000
	BLZ/SL KO SW	1545710000
Partition element		
	SL AT OR	1598300000
	SL AT SW	1770240000
Mounting block		
	SL 135 BB15R OR	1606450000
	SL 135 BB15R SW	1636370000

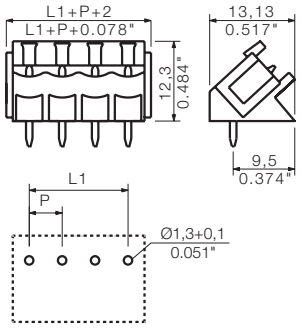
Ordering data

Solder pin length				3.2 mm
Colour				Orange
Pitch	**5.00 mm**			
Pol.	**L1**	**(inch)**	**Qty.**	**Order No.**
2	5.00	0.197	100	1630250000
3	10.00	0.394	100	1630260000
4	15.00	0.591	100	1630270000
5	20.00	0.787	50	1630280000
6	25.00	0.984	50	1630290000
7	30.00	1.181	50	1630300000
8	35.00	1.378	50	1630310000
9	40.00	1.575	50	1630320000
10	45.00	1.772	50	1630330000
11	50.00	1.969	50	1630340000
12	55.00	2.165	50	1630350000
13	60.00	2.362	50	1630360000
14	65.00	2.559	50	1630370000
15	70.00	2.756	50	1630380000
16	75.00	2.953	50	1630390000
17	80.00	3.150	20	1630400000
18	85.00	3.346	20	1630410000
19	90.00	3.543	20	1630420000
20	95.00	3.740	20	1630430000
21	100.00	3.937	20	1630440000
22	105.00	4.134	20	1630450000
23	110.00	4.331	20	1630460000
24	115.00	4.528	20	1630470000

SL 5.00/../135B



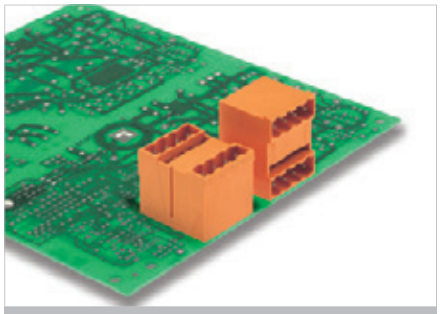
Dimensioned drawing



Ordering data

Solder pin length				3.2 mm
Colour				Orange
Pitch	**5.00 mm**			
Pol.	L1	(inch)	**Qty.**	**Order No.**
2	5.00	0.197	100	**1630480000**
3	10.00	0.394	100	**1630490000**
4	15.00	0.591	100	**1630500000**
5	20.00	0.787	50	**1630510000**
6	25.00	0.984	50	**1630520000**
7	30.00	1.181	50	**1630530000**
8	35.00	1.378	50	**1630540000**
9	40.00	1.575	50	**1630550000**
10	45.00	1.772	50	**1630560000**
11	50.00	1.969	50	**1630570000**
12	55.00	2.165	50	**1630580000**
13	60.00	2.362	50	**1630590000**
14	65.00	2.559	50	**1630600000**
15	70.00	2.756	50	**1630610000**
16	75.00	2.953	50	**1630620000**
17	80.00	3.150	20	**1630630000**
18	85.00	3.346	20	**1630640000**
19	90.00	3.543	20	**1630650000**
20	95.00	3.740	20	**1630660000**
21	100.00	3.937	20	**1630670000**
22	105.00	4.134	20	**1630680000**
23	110.00	4.331	20	**1630690000**
24	115.00	4.528	20	**1630700000**

SLD 5.00/../90 & 180



Double-level male header optimised for wave soldering. The connections are at the same level – with access that is flush over the front board. The male headers can be manually coded or ordered as pre-coded headers.

Product data

IEC: 400 V / 11 A
UL: 300 V / 10 A

For additional articles and information, refer to catalog.weidmueller.com

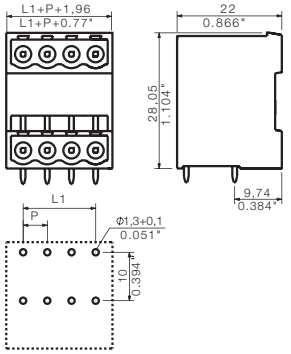
Note:

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Spacing between rows: see hole layout
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

SLD 5.00/../90G



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm²			
Solid core H05(07) V-U	**mm²**			
Stranded H07 V-R				
Flexible H05(07) V-K	mm²			
Flexible with ferrule	mm²			
Ferrule with plastic collar	mm²			
Stripping length	mm			
Screwdriver blade	mm			
According to norm				
Tightening torque range	Nm			
Rated current, max.	**A**	**11**		**9.5**
At ambient temperature		20°C		40°C
For conductor cross-section	mm²			
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	**V**	**250**	**320**	**400**
Rated impulse voltage	kV	4	4	4
UL / CUL (Use Group)		**B**	**C**	**D**
Rated voltage	**V**	**300**		**300**
Rated current	**A**	**10**		**10**
AWG conductor	**AWG**		-	
CSA (Use Group)		**B**	**C**	**D**
Rated voltage	V	300		300
Rated current	A	10		10
AWG conductor	AWG		-	
General data				
Type of insulation material		PBT		
UL 94 flammability rating		V-0		
Contact base material		CuSn		
Material of contact surface		tinned		
Pin dimensions = d	mm	1.2, Octagonal		
Solder eyelet Ø = D	mm	1.3		
Solder eyelet Ø tolerance	mm	+ 0,1		

Accessories

Note: Refer to the Accessories chapter for additional accessories.

Coding		Order No.
	BLZ/SL KO OR	1573010000
	BLZ/SL KO SW	1545710000
Partition element		
	SL AT OR	1598300000
	SL AT SW	1770240000

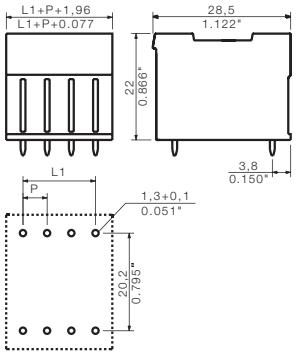
Ordering data

Solder pin length				3.2 mm
Colour				Orange
Pitch	**5.00 mm**			
Pol.	L1	(inch)	**Qty.**	**Order No.**
4	5.00	0.197	50	1614350000
6	10.00	0.394	50	1614360000
8	15.00	0.591	50	1614370000
10	20.00	0.787	50	1614380000
12	25.00	0.984	50	1614390000
14	30.00	1.181	20	1614400000
16	35.00	1.378	20	1614410000
18	40.00	1.575	20	1614420000
20	45.00	1.772	20	1614430000
22	50.00	1.969	10	1614440000
24	55.00	2.165	10	1614450000
26	60.00	2.362	10	1614460000
28	65.00	2.559	10	1614470000
30	70.00	2.756	10	1614480000
32	75.00	2.953	10	1614490000
34	80.00	3.150	10	1614500000
36	85.00	3.346	10	1614510000
38	90.00	3.543	10	1614520000
40	95.00	3.740	10	1614530000
42	100.00	3.937	10	1614540000
44	105.00	4.134	10	1614550000
46	110.00	4.331	10	1614560000
48	115.00	4.528	10	1614570000

SLD 5.00/../180G



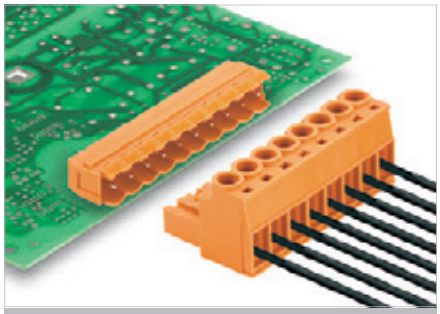
Dimensioned drawing



Ordering data

Solder pin length				3.2 mm
Colour				Orange
Pitch	**5.00 mm**			
Pol.	L1	(inch)	**Qty.**	**Order No.**
4	5.00	0.197	50	**1614810000**
6	10.00	0.394	50	**1614820000**
8	15.00	0.591	50	**1614830000**
10	20.00	0.787	50	**1614840000**
12	25.00	0.984	50	**1614850000**
14	30.00	1.181	20	**1614860000**
16	35.00	1.378	20	**1614870000**
18	40.00	1.575	20	**1614880000**
20	45.00	1.772	20	**1614890000**
22	50.00	1.969	10	**1614900000**
24	55.00	2.165	10	**1614910000**
26	60.00	2.362	10	**1614920000**
28	65.00	2.559	10	**1614930000**
30	70.00	2.756	10	**1614940000**
32	75.00	2.953	10	**1614950000**
34	80.00	3.150	10	**1614960000**
36	85.00	3.346	10	**1614970000**
38	90.00	3.543	10	**1614980000**
40	95.00	3.740	10	**1614990000**
42	100.00	3.937	10	**1615000000**
44	105.00	4.134	10	**1615010000**
46	110.00	4.331	10	**1615020000**
48	115.00	4.528	10	**1615030000**

BLZP 5.00/../180



The BLZP is the functional extension of the BLZ series. The „P" in the part name stands for a plus in security and performance in processing and use.

- WIRE READY – delivered with terminal points already opened
- Power tools can be used with the globally compatible plus/minus screw head
- Folded steel clamping yoke accommodates the connected wire and compensates for temperature fluctuations
- The integrated wire guard prevents dangerous under-insertion of the wire from occurring.
- Lock and release-lever: tool-less locking and gentle releasing of the connector reduces the mechanical stress on the solder joints.

Product data

IEC: 400 V / 19 A / 0.2 - 4 mm²
UL: 300 V / 15 A / AWG 30 - 12

For additional articles and information, refer to catalog.weidmueller.com

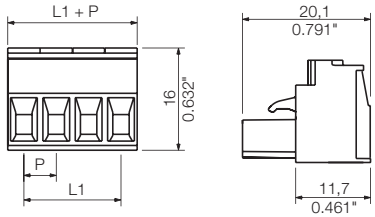
Note:

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

BLZP 5.00/../180



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm²	0.13...4		
Solid core H05(07) V-U	**mm²**	**0.2...4**		
Stranded H07 V-R				
Flexible H05(07) V-K	mm²	0.2...4		
Flexible with ferrule	mm²	0.2...4		
Ferrule with plastic collar	mm²	0.2...2.5		
Stripping length	mm	7		
Screwdriver blade	mm	0.6 x 3.5, PH 0, PZ 0		
According to norm				
Tightening torque range	Nm	0.4...0.5		
Rated current, max.	**A**	**19**		**16**
At ambient temperature		20°C		40°C
For conductor cross-section	mm²	4		
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	**V**	**250**	**320**	**400**
Rated impulse voltage	kV	4	4	4
UL / CUL (Use Group)		**B**	**C**	**D**
Rated voltage	**V**	**300**		**300**
Rated current	**A**	**15**		**10**
AWG conductor	**AWG**		**30-12**	
CSA (Use Group)		**B**	**C**	**D**
Rated voltage	V	300	50	300
Rated current	A	10		10
AWG conductor	AWG		30-12	
General data				
Type of insulation material			PBT	
UL 94 flammability rating			V-0	
Contact base material			Copper alloy	
Material of contact surface			tinned	
Pin dimensions = d	mm			
Solder eyelet Ø = D	mm			
Solder eyelet Ø tolerance	mm			

Accessories

Note: Refer to the Accessories chapter for additional accessories.

Strain relief		Order No.
	BLZ 5.00 ZE4 OR	1652100000
	BLZ 5.00 ZE4 SW	1652120000
	BLZ 5.00 ZE8 OR	1652040000
	BLZ 5.00 ZE8 SW	1652060000
Coding		
	BLZ/SL KO OR	1573010000
	BLZ/SL KO SW	1545710000
Screwdriver		
	SDIS 0.6X3.5X100	9008390000
	SDS 0.6X3.5X100	9008330000
Crosshead screwdriver		
	SDK PH1	9008480000
	SDK PZ1	9008530000

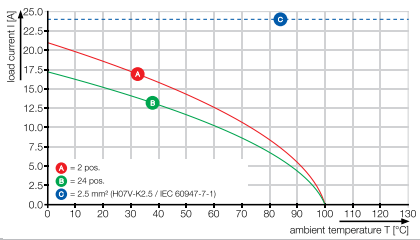
Ordering data

Solder pin length

Colour				Orange	Black
Pitch	**5.00 mm**				
Pol.	**L1**	**(inch)**	**Qty.**	**Order No.**	**Order No.**
2	5.00	0.197	100	1954490000	1955570000
3	10.00	0.394	100	1954480000	1955560000
4	15.00	0.591	100	1954470000	1955550000
5	20.00	0.787	45	1954460000	1955540000
6	25.00	0.984	45	1954450000	1955530000
7	30.00	1.181	45	1954440000	1955520000
8	35.00	1.378	45	1954430000	1955510000
9	40.00	1.575	45	1954420000	1955500000
10	45.00	1.772	45	1954410000	1955490000
11	50.00	1.969	36	1954400000	1955480000
12	55.00	2.165	36	1954390000	1955470000
13	60.00	2.362	36	1954380000	1955460000
14	65.00	2.559	27	1954370000	1955450000
15	70.00	2.756	27	1954360000	1955440000
16	75.00	2.953	27	1954350000	1955430000
17	80.00	3.150	18	1954330000	1955420000
18	85.00	3.346	18	1954320000	1955410000
19	90.00	3.543	18	1954310000	1955400000
20	95.00	3.740	18	1954300000	1955390000
21	100.00	3.937	18	1954290000	1955380000
22	105.00	4.134	18	1954280000	1955370000
23	110.00	4.331	18	1954270000	1955360000
24	115.00	4.528	18	1954260000	1955350000

Representative deratings curve

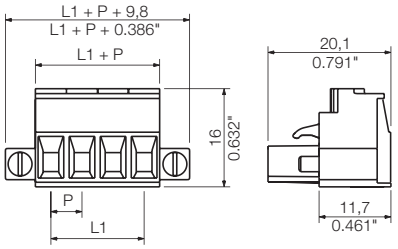
BLZP 5.00/../180 - SL 5.00/../90



BLZP 5.00/../180F



Dimensioned drawing



Ordering data

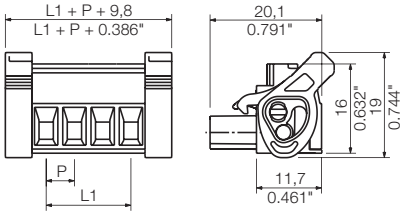
Solder pin length					
Colour				Orange	Black
Pitch	5.00 mm				
Pol.	L1	(inch)	Qty.	Order No.	Order No.
2	5.00	0.197	90	1955800000	1956030000
3	10.00	0.394	72	1955790000	1956020000
4	15.00	0.591	60	1955780000	1956010000
5	20.00	0.787	48	1955770000	1956000000
6	25.00	0.984	42	1955760000	1955990000
7	30.00	1.181	36	1955750000	1955980000
8	35.00	1.378	36	1955740000	1955970000
9	40.00	1.575	30	1955730000	1955960000
10	45.00	1.772	30	1955720000	1955950000
11	50.00	1.969	24	1955710000	1955940000
12	55.00	2.165	24	1955700000	1955930000
13	60.00	2.362	24	1955690000	1955920000
14	65.00	2.559	18	1955680000	1955910000
15	70.00	2.756	18	1955670000	1955900000
16	75.00	2.953	18	1955660000	1955890000
17	80.00	3.150	18	1955650000	1955880000
18	85.00	3.346	18	1955640000	1955870000
19	90.00	3.543	12	1955630000	1955860000
20	95.00	3.740	12	1955620000	1955850000
21	100.00	3.937	12	1955610000	1955840000
22	105.00	4.134	12	1955600000	1955830000
23	110.00	4.331	12	1955590000	1955820000
24	115.00	4.528	12	1955580000	1955810000

BLZP 5.00/../180LR

with lock and release lever



Dimensioned drawing

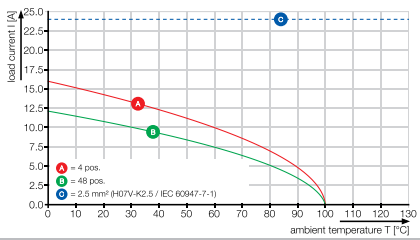


Ordering data

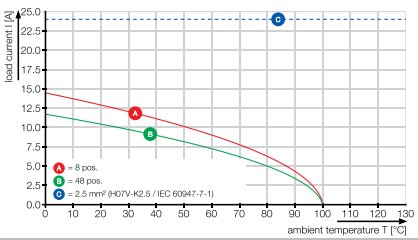
Solder pin length					
Colour				Orange	Black
Pitch	5.00 mm				
Pol.	L1	(inch)	Qty.	Order No.	Order No.
2	5.00	0.197	90	1956370000	1956600000
3	10.00	0.394	72	1956360000	1956590000
4	15.00	0.591	60	1956350000	1956580000
5	20.00	0.787	48	1956340000	1956570000
6	25.00	0.984	42	1956330000	1956560000
7	30.00	1.181	36	1956320000	1956550000
8	35.00	1.378	36	1956310000	1956540000
9	40.00	1.575	30	1956300000	1956530000
10	45.00	1.772	30	1956290000	1956520000
11	50.00	1.969	24	1956280000	1956510000
12	55.00	2.165	24	1956270000	1956500000
13	60.00	2.362	24	1956260000	1956490000
14	65.00	2.559	18	1956250000	1956480000
15	70.00	2.756	18	1956240000	1956470000
16	75.00	2.953	18	1956230000	1956460000
17	80.00	3.150	18	1956220000	1956450000
18	85.00	3.346	18	1956210000	1956440000
19	90.00	3.543	12	1956200000	1956430000
20	95.00	3.740	12	1956190000	1956420000
21	100.00	3.937	12	1956180000	1956410000
22	105.00	4.134	12	1956170000	1956400000
23	110.00	4.331	12	1956160000	1956390000
24	115.00	4.528	12	1956150000	1956380000

Additional deratings curves

BLZP 5.00/../180 - SLD 5.00/../90G



BLZP 5.00/../180 - SLDV-THR 5.00/../180

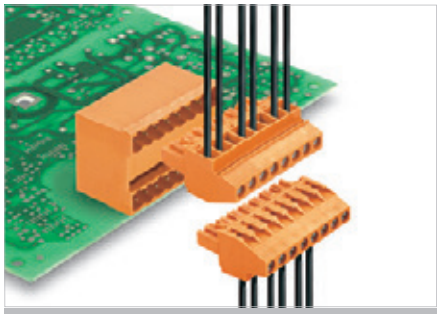


The 2-in-1 contact

Every pluggable connector covers two contact points and thus must meet two different requirements: First, the wire termination and second, the connection between plug and pin header. Referring to the 5.0x pitch series, Weidmüller offers different wire connection technologies, but one platform contact for the male / female connection since years. This well-designed hybride platform contact ensures a constant quality on a very high level.
Hybride means, that we combine metal material featuring different characteristics by welding, in order to devide the contact system into different function zones: Further to the high electric conductance, the current bar is characterized by its hardness, and the tulip contact by its excellent tension properties. The advantage: each function is supported by the most suitable material to reliably and constantly meet the different electrical and mechanical requirements. To put it in a nutshell: Instead of either ... or, it´s even both - perfect for the current,
and perfect for the force.



BLZP 5.00/../90



The BLZP is the functional extension of the BLZ series. The „P" in the part name stands for a plus in security and performance in processing and use.

- WIRE READY – delivered with terminal points already opened
- Power tools can be used with the globally compatible plus/minus screw head
- Folded steel clamping yoke accommodates the connected wire and compensates for temperature fluctuations
- The integrated wire guard prevents dangerous under-insertion of the wire from occurring.
- Lock and release-lever: tool-less locking and gentle releasing of the connector reduces the mechanical stress one the solder joints.

Product data

IEC: 400 V / 15.5 A / 0.2 - 4 mm²
UL: 300 V / 15 A / AWG 30 - 12

For additional articles and information, refer to catalog.weidmueller.com

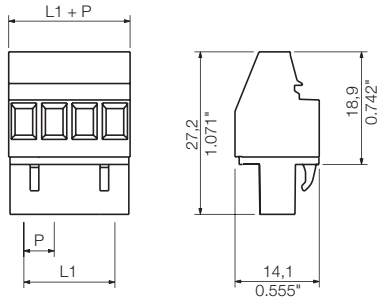
Note:

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

BLZP 5.00/../90



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm²	0.13...4		
Solid core H05(07) V-U	**mm²**	**0.2...4**		
Stranded H07 V-R				
Flexible H05(07) V-K	mm²	0.2...4		
Flexible with ferrule	mm²	0.2...4		
Ferrule with plastic collar	mm²	0.2...2.5		
Stripping length	mm	7		
Screwdriver blade	mm	0.6 x 3.5, PH 0, PZ 0		
According to norm				
Tightening torque range	Nm	0.4...0.5		
Rated current, max.	**A**	**15.5**		**12**
At ambient temperature		20°C		40°C
For conductor cross-section	mm²	4		
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	**V**	**250**	**320**	**400**
Rated impulse voltage	kV	4	4	4
UL / CUL (Use Group)		**B**	**C**	**D**
Rated voltage	**V**	**300**		**300**
Rated current	**A**	**15**		**10**
AWG conductor	**AWG**		**30-12**	
CSA (Use Group)		**B**	**C**	**D**
Rated voltage	V	300	50	300
Rated current	A	10		10
AWG conductor	AWG		30-12	
General data				
Type of insulation material			PBT	
UL 94 flammability rating			V-0	
Contact base material			Copper alloy	
Material of contact surface			tinned	
Pin dimensions = d	mm			
Solder eyelet Ø = D	mm			
Solder eyelet Ø tolerance	mm			

Accessories

Note: Refer to the Accessories chapter for additional accessories.

Coding		Order No.
	BLZ/SL KO OR	**1573010000**
	BLZ/SL KO SW	**1545710000**
Screwdriver		
	SDIS 0.6X3.5X100	**9008390000**
	SDS 0.6X3.5X100	**9008330000**
Crosshead screwdriver		
	SDK PH1	**9008480000**
	SDK PZ1	**9008530000**

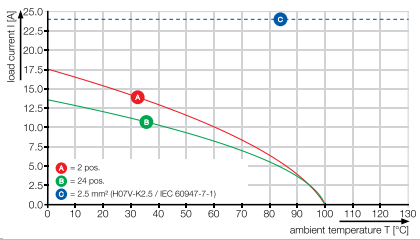
Ordering data

Solder pin length

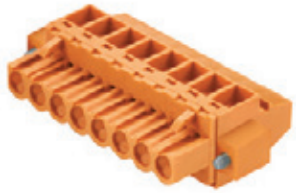
Colour				Orange	Black
Pitch	**5.00 mm**				
Pol.	**L1**	**(inch)**	**Qty.**	**Order No.**	**Order No.**
2	5.00	0.197	180	**1958300000**	**1958650000**
3	10.00	0.394	120	**1958290000**	**1958640000**
4	15.00	0.591	90	**1958280000**	**1958630000**
5	20.00	0.787	72	**1958270000**	**1958620000**
6	25.00	0.984	60	**1958260000**	**1958610000**
7	30.00	1.181	48	**1958250000**	**1958600000**
8	35.00	1.378	42	**1958230000**	**1958590000**
9	40.00	1.575	36	**1958190000**	**1958580000**
10	45.00	1.772	36	**1958160000**	**1958570000**
11	50.00	1.969	30	**1958130000**	**1958560000**
12	55.00	2.165	30	**1958120000**	**1958550000**
13	60.00	2.362	24	**1958090000**	**1958540000**
14	65.00	2.559	24	**1958060000**	**1958530000**
15	70.00	2.756	24	**1958040000**	**1958520000**
16	75.00	2.953	18	**1957960000**	**1958480000**
17	80.00	3.150	18	**1957910000**	**1958460000**
18	85.00	3.346	18	**1957900000**	**1958430000**
19	90.00	3.543	18	**1957880000**	**1958420000**
20	95.00	3.740	18	**1957850000**	**1958400000**
21	100.00	3.937	12	**1957830000**	**1958380000**
22	105.00	4.134	12	**1957820000**	**1958360000**
23	110.00	4.331	12	**1957800000**	**1958340000**
24	115.00	4.528	12	**1957780000**	**1958310000**

Representative deratings curve

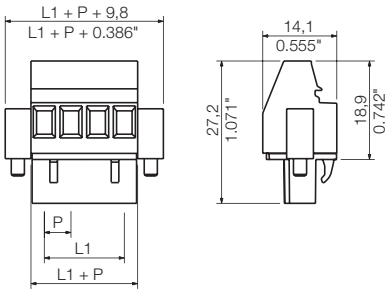
BLZP 5.00/../90 - SL 5.00/../90



BLZP 5.00/../90F



Dimensioned drawing



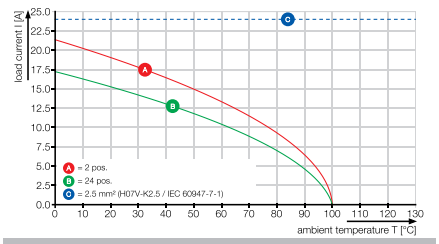
Ordering data

Solder pin length

Colour				Orange	Black
Pitch	**5.00 mm**				
Pol.	L1	(inch)	**Qty.**	**Order No.**	**Order No.**
2	5.00	0.197	90	**1959520000**	**1959750000**
3	10.00	0.394	72	**1959510000**	**1959740000**
4	15.00	0.591	60	**1959500000**	**1959730000**
5	20.00	0.787	48	**1959490000**	**1959720000**
6	25.00	0.984	42	**1959480000**	**1959710000**
7	30.00	1.181	36	**1959470000**	**1959700000**
8	35.00	1.378	36	**1959460000**	**1959690000**
9	40.00	1.575	30	**1959440000**	**1959680000**
10	45.00	1.772	30	**1959430000**	**1959670000**
11	50.00	1.969	24	**1959390000**	**1959660000**
12	55.00	2.165	24	**1959370000**	**1959650000**
13	60.00	2.362	24	**1959360000**	**1959640000**
14	65.00	2.559	18	**1959350000**	**1959630000**
15	70.00	2.756	18	**1959340000**	**1959620000**
16	75.00	2.953	18	**1959330000**	**1959610000**
17	80.00	3.150	18	**1959320000**	**1959600000**
18	85.00	3.346	18	**1959300000**	**1959590000**
19	90.00	3.543	12	**1959290000**	**1959580000**
20	95.00	3.740	12	**1959270000**	**1959570000**
21	100.00	3.937	12	**1959250000**	**1959560000**
22	105.00	4.134	12	**1959240000**	**1959550000**
23	110.00	4.331	12	**1959220000**	**1959540000**
24	115.00	4.528	12	**1959200000**	**1959530000**

Additional deratings curves

BLZP 5.00/../90 - SL-SMT 5.00/../90

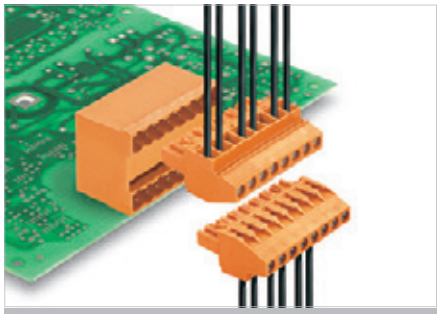


The 2-in-1 contact

Every pluggable connector covers two contact points and thus must meet two different requirements: First, the wire termination and second, the connection between plug and pin header. Referring to the 5.0x pitch series, Weidmüller offers different wire connection technologies, but one platform contact for the male / female connection since years. This well-designed hybride platform contact ensures a constant quality on a very high level.
Hybride means, that we combine metal material featuring different characteristics by welding, in order to devide the contact system into different function zones: Further to the high electric conductance, the current bar is characterized by its hardness, and the tulip contact by its excellent tension properties. The advantage: each function is supported by the most suitable material to reliably and constantly meet the different electrical and mechanical requirements. To put it in a nutshell: Instead of either ... or, it´s even both - perfect for the current,
and perfect for the force.



BLZP 5.00/../270



The BLZP is the functional extension of the BLZ series. The „P" in the part name stands for a plus in security and performance in processing and use.

- WIRE READY – delivered with terminal points already opened
- Power tools can be used with the globally compatible plus/minus screw head
- Folded steel clamping yoke accommodates the connected wire and compensates for temperature fluctuations
- The integrated wire guard prevents dangerous under-insertion of the wire from occurring.
- Lock and release-lever: tool-less locking and gentle releasing of the connector reduces the mechanical stress one the solder joints.

Product data

IEC: 400 V / 15.5 A / 0.2 - 4 mm²
UL: 300 V / 15 A / AWG 30 - 12

For additional articles and information, refer to catalog.weidmueller.com

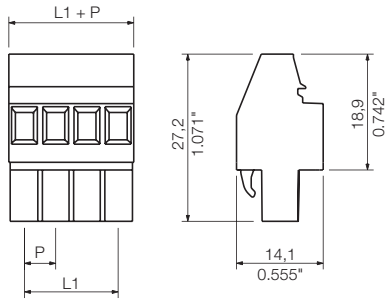
Note:

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

BLZP 5.00/../270



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm²	0.13...4		
Solid core H05(07) V-U	**mm²**	**0.2...4**		
Stranded H07 V-R				
Flexible H05(07) V-K	mm²	0.2...4		
Flexible with ferrule	mm²	0.2...4		
Ferrule with plastic collar	mm²	0.2...2.5		
Stripping length	mm	7		
Screwdriver blade	mm	0.6 x 3.5, PH 0, PZ 0		
According to norm				
Tightening torque range	Nm	0.4...0.5		
Rated current, max.	**A**	**15.5**		**12**
At ambient temperature		20°C		40°C
For conductor cross-section	mm²	4		
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	**V**	**250**	**320**	**400**
Rated impulse voltage	kV	4	4	4
UL / CUL (Use Group)		**B**	**C**	**D**
Rated voltage	**V**	**300**		**300**
Rated current	**A**	**15**		**10**
AWG conductor	**AWG**		**30-12**	
CSA (Use Group)		**B**	**C**	**D**
Rated voltage	V	300	50	300
Rated current	A	10		10
AWG conductor	AWG		30-12	
General data				
Type of insulation material			PBT	
UL 94 flammability rating			V-0	
Contact base material			Copper alloy	
Material of contact surface			tinned	
Pin dimensions = d	mm			
Solder eyelet Ø = D	mm			
Solder eyelet Ø tolerance	mm			

Accessories

Note: Refer to the Accessories chapter for additional accessories.

Coding		Order No.
	BLZ/SL KO OR	1573010000
	BLZ/SL KO SW	1545710000
Screwdriver		
	SDIS 0.6X3.5X100	9008390000
	SDS 0.6X3.5X100	9008330000
Crosshead screwdriver		
	SDK PH1	9008480000
	SDK PZ1	9008530000

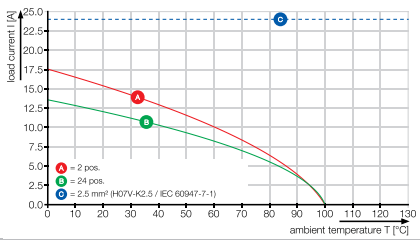
Ordering data

Solder pin length

Colour				Orange	Black
Pitch	**5.00 mm**				
Pol.	L1	(inch)	Qty.	Order No.	Order No.
2	5.00	0.197	180	1958870000	1959100000
3	10.00	0.394	120	1958860000	1959090000
4	15.00	0.591	90	1958850000	1959080000
5	20.00	0.787	72	1958840000	1959070000
6	25.00	0.984	60	1958830000	1959060000
7	30.00	1.181	48	1958820000	1959050000
8	35.00	1.378	42	1958810000	1959040000
9	40.00	1.575	36	1958800000	1959030000
10	45.00	1.772	36	1958790000	1959020000
11	50.00	1.969	30	1958780000	1959010000
12	55.00	2.165	30	1959150000	1959000000
13	60.00	2.362	24	1958770000	1958990000
14	65.00	2.559	24	1958760000	1958980000
15	70.00	2.756	24	1958750000	1958970000
16	75.00	2.953	18	1958740000	1958960000
17	80.00	3.150	18	1958730000	1958950000
18	85.00	3.346	18	1958720000	1958940000
19	90.00	3.543	18	1958710000	1958930000
20	95.00	3.740	18	1958700000	1958920000
21	100.00	3.937	12	1958690000	1958910000
22	105.00	4.134	12	1958680000	1958900000
23	110.00	4.331	12	1958670000	1958890000
24	115.00	4.528	12	1958660000	1958880000

Representative deratings curve

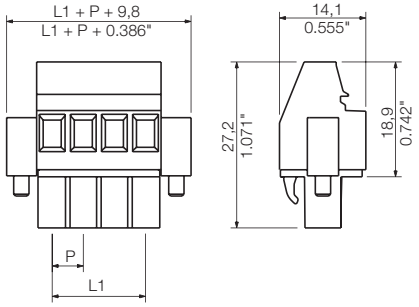
BLZP 5.00/../270 - SL 5.00/../90



BLZP 5.00/../270F



Dimensioned drawing



Ordering data

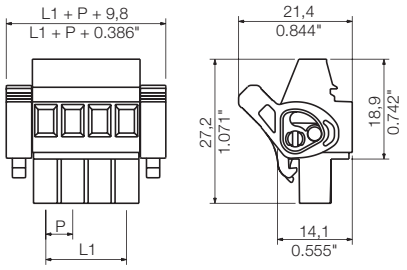
Solder pin length					
Colour				Orange	Black
Pitch	5.00 mm				
Pol.	L1	(inch)	Qty.	Order No.	Order No.
2	5.00	0.197	90	1960460000	1960730000
3	10.00	0.394	72	1960450000	1960720000
4	15.00	0.591	60	1960440000	1960710000
5	20.00	0.787	48	1960430000	1960700000
6	25.00	0.984	42	1960420000	1960690000
7	30.00	1.181	36	1960410000	1960670000
8	35.00	1.378	36	1960400000	1960660000
9	40.00	1.575	30	1960390000	1960650000
10	45.00	1.772	30	1960380000	1960640000
11	50.00	1.969	24	1960370000	1960630000
12	55.00	2.165	24	1959450000	1960620000
13	60.00	2.362	24	1959420000	1960610000
14	65.00	2.559	18	1959410000	1960600000
15	70.00	2.756	18	1959400000	1960590000
16	75.00	2.953	18	1959380000	1960580000
17	80.00	3.150	18	1959310000	1960570000
18	85.00	3.346	18	1959280000	1960560000
19	90.00	3.543	12	1959260000	1960550000
20	95.00	3.740	12	1959230000	1960540000
21	100.00	3.937	12	1959210000	1960530000
22	105.00	4.134	12	1959190000	1960520000
23	110.00	4.331	12	1959180000	1960510000
24	115.00	4.528	12	1959170000	1960500000

BLZP 5.00/../270LR

with lock and release lever



Dimensioned drawing



Ordering data

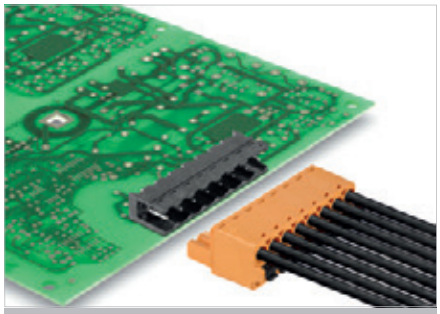
Solder pin length					
Colour				Orange	Black
Pitch	5.00 mm				
Pol.	L1	(inch)	Qty.	Order No.	Order No.
2	5.00	0.197	90	1960960000	1961190000
3	10.00	0.394	72	1960950000	1961180000
4	15.00	0.591	60	1960940000	1961170000
5	20.00	0.787	48	1960930000	1961160000
6	25.00	0.984	42	1960920000	1961150000
7	30.00	1.181	36	1960910000	1961140000
8	35.00	1.378	36	1960900000	1961130000
9	40.00	1.575	30	1960890000	1961120000
10	45.00	1.772	30	1960880000	1961110000
11	50.00	1.969	24	1960870000	1961100000
12	55.00	2.165	24	1960860000	1961090000
13	60.00	2.362	24	1960850000	1961080000
14	65.00	2.559	18	1960840000	1961070000
15	70.00	2.756	18	1960830000	1961060000
16	75.00	2.953	18	1960820000	1961050000
17	80.00	3.150	18	1960810000	1961040000
18	85.00	3.346	18	1960800000	1961030000
19	90.00	3.543	12	1960790000	1961020000
20	95.00	3.740	12	1960780000	1961010000
21	100.00	3.937	12	1960770000	1961000000
22	105.00	4.134	12	1960760000	1960990000
23	110.00	4.331	12	1960750000	1960980000
24	115.00	4.528	12	1960740000	1960970000

The 2-in-1 contact

Every pluggable connector covers two contact points and thus must meet two different requirements: First, the wire termination and second, the connection between plug and pin header. Referring to the 5.0x pitch series, Weidmüller offers different wire connection technologies, but one platform contact for the male / female connection since years. This well-designed hybride platform contact ensures a constant quality on a very high level.
Hybride means, that we combine metal material featuring different characteristics by welding, in order to devide the contact system into different function zones: Further to the high electric conductance, the current bar is characterized by its hardness, and the tulip contact by its excellent tension properties. The advantage: each function is supported by the most suitable material to reliably and constantly meet the different electrical and mechanical requirements. To put it in a nutshell: Instead of either ... or, it´s even both - perfect for the current, and perfect for the force.



BLF 5.00/../180



PUSH IN - Weidmüller's innovative connection system simplifies and accelerates the wire connection process.

- Solid wires and stranded wires with ferrules need only to be inserted and they are ready.
- The actuator must be used when connecting stranded wires without ferrules.
- Intuitive handling – since the wire-entry area and handling area are clearly separated.
- User-friendly handling with rounded outer edges and large, no-slip push buttons.
- Lock and release lever: tool-less locking and a gentle releasing of the connector reduces the mechanical stress to the solder soints.

Product data

IEC: 400 V / 20.5 A / 0.2 - 2.5 mm²
UL: 300 V / 10 A / AWG 12 - 26

For additional articles and information, refer to catalog.weidmueller.com

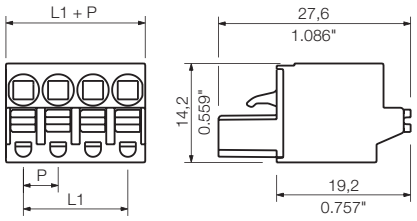
Note:

- Additional colours on request
- Gold-plated contact surfaces on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- P on drawing = pitch

BLF 5.00/../180



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm²	0.13...3.31		
Solid core H05(07) V-U	**mm²**	**0.2...2.5**		
Stranded H07 V-R		0...2		
Flexible H05(07) V-K	mm²	0.2...2.5		
Flexible with ferrule	mm²	0.2...2.5		
Ferrule with plastic collar	mm²	0.2...2.5		
Stripping length	mm	10		
Screwdriver blade	mm	0.6 x 3.5		
According to norm				
Tightening torque range	Nm			
Rated current, max.	**A**	**20.5**		**17.5**
At ambient temperature		20°C		40°C
For conductor cross-section	mm²	2.5		
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	**V**	**250**	**320**	**400**
Rated impulse voltage	kV	4	4	4
UL / CUL (Use Group)		**B**	**C**	**D**
Rated voltage	**V**	**300**		**300**
Rated current	**A**	**10**		**10**
AWG conductor	**AWG**	**12-26**		
CSA (Use Group)		**B**	**C**	**D**
Rated voltage	V	300		300
Rated current	A	10		10
AWG conductor	AWG	12-26		
General data				
Type of insulation material		PBT		
UL 94 flammability rating		V-0		
Contact base material		CuSn		
Material of contact surface		tinned		
Pin dimensions = d	mm			
Solder eyelet Ø = D	mm			
Solder eyelet Ø tolerance	mm			

Accessories

Note: Refer to the Accessories chapter for additional accessories.

Coding		Order No.
	BLZ/SL KO OR	1573010000
	BLZ/SL KO SW	1545710000
Screwdriver		
	SDIS 0.6X3.5X100	9008390000
	SDS 0.6X3.5X100	9008330000
Wire-end ferrule		
	H0,5/14S W	9004590000
	H1,0/14S R	9018560000
	H1,5/14S SW	9025240000
	H2,5/14S BL	1333100000

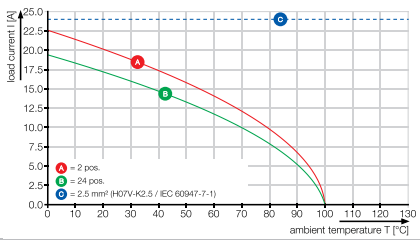
Ordering data

Solder pin length

Colour				Orange	Black
Pitch	**5.00 mm**				
Pol.	**L1**	**(inch)**	**Qty.**	**Order No.**	**Order No.**
2	5.00	0.197	180	1017860000	1017670000
3	10.00	0.394	120	1017870000	1017680000
4	15.00	0.591	90	1017880000	1017690000
5	20.00	0.788	72	1017890000	1017710000
6	25.00	0.985	60	1017910000	1017720000
7	30.00	1.182	48	1017920000	1017730000
8	35.00	1.379	42	1017930000	1017740000
9	40.00	1.576	36	1017950000	1017750000
10	45.00	1.773	36	1017960000	1017760000
11	50.00	1.970	30	1017970000	1017770000
12	55.00	2.167	30	1017980000	1017780000
13	60.00	2.364	24	1017990000	1017790000
14	65.00	2.561	24	1018010000	1017810000
15	70.00	2.758	24	1018020000	1017820000
16	75.00	2.955	18	1018030000	1017830000
17	80.00	3.152	18	1018040000	1017840000
18	85.00	3.349	18	1018050000	1017850000

Representative deratings curve

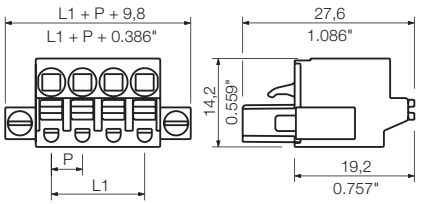
BLF 5.00/../180 - SL 5.00/../90



BLF 5.00/../180F



Dimensioned drawing



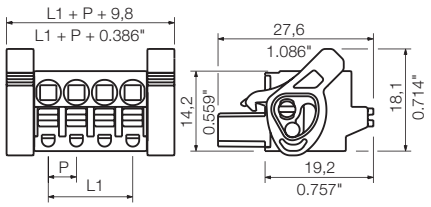
Ordering data

Solder pin length				Orange	Black
Colour					
Pitch	5.00 mm				
Pol.	L1	(inch)	Qty.	Order No.	Order No.
2	5.00	0.197	90	1017420000	1017240000
3	10.00	0.394	72	1017430000	1017250000
4	15.00	0.591	60	1017440000	1017260000
5	20.00	0.788	48	1017450000	1017270000
6	25.00	0.985	42	1017470000	1017280000
7	30.00	1.182	36	1017480000	1017290000
8	35.00	1.379	36	1017490000	1017310000
9	40.00	1.576	30	1017510000	1017320000
10	45.00	1.773	30	1017520000	1017330000
11	50.00	1.970	24	1017530000	1017340000
12	55.00	2.167	24	1017540000	1017350000
13	60.00	2.364	24	1017550000	1017360000
14	65.00	2.561	18	1017570000	1017370000
15	70.00	2.758	18	1017590000	1017380000
16	75.00	2.955	18	1017600000	1017390000
17	80.00	3.152	18	1017610000	1017400000
18	85.00	3.349	18	1017620000	1017410000

BLF 5.00/../180LR



Dimensioned drawing



Ordering data

Solder pin length				Orange	Black
Colour					
Pitch	5.00 mm				
Pol.	L1	(inch)	Qty.	Order No.	Order No.
2	5.00	0.197	90	1016340000	1016140000
3	10.00	0.394	72	1016350000	1016150000
4	15.00	0.591	60	1016360000	1016170000
5	20.00	0.788	48	1016370000	1016180000
6	25.00	0.985	42	1016380000	1016190000
7	30.00	1.182	36	1016390000	1016210000
8	35.00	1.379	36	1016410000	1016220000
9	40.00	1.576	30	1016420000	1016230000
10	45.00	1.773	30	1016430000	1016240000
11	50.00	1.970	24	1016440000	1016250000
12	55.00	2.167	24	1016450000	1016260000
13	60.00	2.364	24	1016460000	1016270000
14	65.00	2.561	18	1016470000	1016280000
15	70.00	2.758	18	1016480000	1016290000
16	75.00	2.955	18	1016490000	1016310000
17	80.00	3.152	18	1016510000	1016320000
18	85.00	3.349	18	1016520000	1016330000

PUSH IN connection technology

PUSH IN connection technology reduces the wiring affords especially for solid wires and wires with ferrule to a minimum. These connectors are self-explanary and enable tool-less handling. The contact element made of stainless steel ensures a vibration prooved, maintainance free wire termination. The established principle „STEEL FOR THE FORCE, COPPER FOR THE CURRENT" by Weidmüller offers both, maximum conductor clamping forces, as well as minimum power loss at the same time.

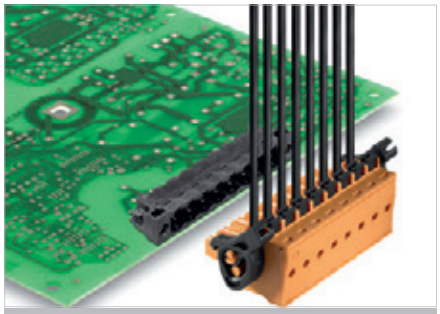


The 2-in-1 contact

Every pluggable connector covers two contact points and thus must meet two different requirements: First, the wire termination and second, the connection between plug and pin header. Referring to the 5.0x pitch series, Weidmüller offers different wire connection technologies, but one platform contact for the male / female connection since years. This well-designed hybride platform contact ensures a constant quality on a very high level.
Hybride means, that we combine metal material featuring different characteristics by welding, in order to devide the contact system into different function zones: Further to the high electric conductance, the current bar is characterized by its hardness, and the tulip contact by its excellent tension properties. The advantage: each function is supported by the most suitable material to reliably and constantly meet the different electrical and mechanical requirements. To put it in a nutshell: Instead of either ... or, it´s even both - perfect for the current, and perfect for the force.



BLF 5.00/../90



PUSH IN - Weidmüller's innovative connection system simplifies and accelerates the wire connection process.

- Solid wires and stranded wires with ferrules need only to be inserted and they are ready.
- The actuator must be used when connecting stranded wires without ferrules.
- Intuitive handling – since the wire-entry area and handling area are clearly separated.
- User-friendly handling with rounded outer edges and large, no-slip push buttons.
- Lock and release lever: tool-less locking and a gentle releasing of the connector reduces the mechanical stress to the solder soints.

Product data

IEC: 400 V / 20 A / 0.2 - 2.5 mm²
UL: 300 V / 10 A / AWG 12 - 26

For additional articles and information, refer to catalog.weidmueller.com

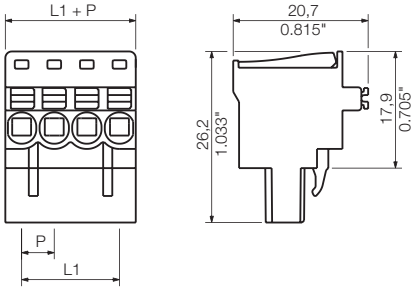
Note:

- Additional colours on request
- Gold-plated contact surfaces on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- P on drawing = pitch

BLF 5.00/../90



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm²	0.13...3.31		
Solid core H05(07) V-U	**mm²**	**0.2...2.5**		
Stranded H07 V-R		0...2		
Flexible H05(07) V-K	mm²	0.2...2.5		
Flexible with ferrule	mm²	0.2...2.5		
Ferrule with plastic collar	mm²	0.2...2.5		
Stripping length	mm	10		
Screwdriver blade	mm	0.6 x 3.5		
According to norm		DIN 5264		
Tightening torque range	Nm			
Rated current, max.	**A**	**20**		**17**
At ambient temperature		20°C		40°C
For conductor cross-section	mm²	2.5		
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	**V**	**250**	**320**	**400**
Rated impulse voltage	kV	4	4	4
UL / CUL (Use Group)		**B**	**C**	**D**
Rated voltage	**V**	**300**		**300**
Rated current	**A**	**10**		**10**
AWG conductor	**AWG**	**12-26**		
CSA (Use Group)		**B**	**C**	**D**
Rated voltage	V	300		300
Rated current	A	10		10
AWG conductor	AWG	12-26		
General data				
Type of insulation material		PBT		
UL 94 flammability rating		V-0		
Contact base material		CuSn		
Material of contact surface		tinned		
Pin dimensions = d	mm			
Solder eyelet Ø = D	mm			
Solder eyelet Ø tolerance	mm			

Accessories

Note: Refer to the Accessories chapter for additional accessories.

Coding		Order No.
	BLZ/SL KO OR	1573010000
	BLZ/SL KO SW	1545710000
Screwdriver		
	SDIS 0.6X3.5X100	9008390000
	SDS 0.6X3.5X100	9008330000
Wire-end ferrule		
	H0,5/14S W	9004590000
	H1,0/14S R	9018560000
	H1,5/14S SW	9025240000
	H2,5/14S BL	1333100000

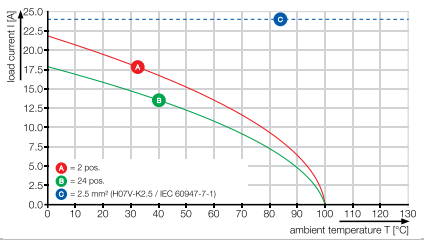
Ordering data

Solder pin length

Colour				Orange	Black
Pitch	**5.00 mm**				
Pol.	**L1**	**(inch)**	**Qty.**	**Order No.**	**Order No.**
2	5.00	0.197	180	1980170000	1979270000
3	10.00	0.394	120	1980180000	1979280000
4	15.00	0.591	90	1980190000	1979290000
5	20.00	0.788	72	1980200000	1979300000
6	25.00	0.985	60	1980210000	1979310000
7	30.00	1.182	48	1980220000	1979320000
8	35.00	1.379	42	1980230000	1979330000
9	40.00	1.576	36	1980240000	1979340000
10	45.00	1.773	36	1980250000	1979350000
11	50.00	1.970	30	1980260000	1979360000
12	55.00	2.167	30	1980270000	1979370000
13	60.00	2.364	24	1980280000	1979380000
14	65.00	2.561	24	1980290000	1979390000
15	70.00	2.758	24	1980300000	1979400000
16	75.00	2.955	18	1980310000	1979410000
17	80.00	3.152	18	1980320000	1979420000
18	85.00	3.349	18	1980330000	1979430000
19	90.00	3.546	18	1980340000	1979440000
20	95.00	3.743	18	1980360000	1979450000

Representative deratings curve

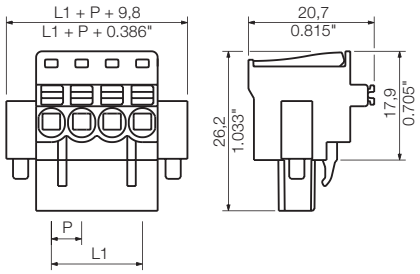
BLF 5.00/../90 - SL 5.00/../90



BLF 5.00/../90F



Dimensioned drawing



Ordering data

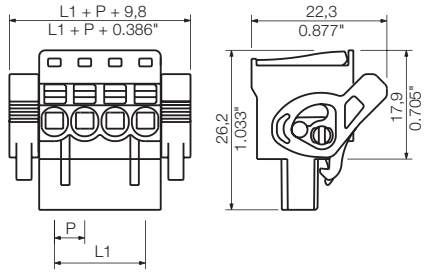
Solder pin length				Orange	Black
Colour					
Pitch	5.00 mm				
Pol.	L1	(inch)	Qty.	Order No.	Order No.
2	5.00	0.197	90	1980640000	1979460000
3	10.00	0.394	72	1980650000	1979470000
4	15.00	0.591	60	1980660000	1979480000
5	20.00	0.788	48	1980670000	1979490000
6	25.00	0.985	42	1980680000	1979500000
7	30.00	1.182	36	1980690000	1979510000
8	35.00	1.379	36	1980700000	1979520000
9	40.00	1.576	30	1980710000	1979530000
10	45.00	1.773	30	1980720000	1979540000
11	50.00	1.970	24	1980730000	1979550000
12	55.00	2.167	24	1980740000	1979560000
13	60.00	2.364	24	1980750000	1979570000
14	65.00	2.561	18	1980760000	1979580000
15	70.00	2.758	18	1980780000	1979590000
16	75.00	2.955	18	1980790000	1979600000
17	80.00	3.152	18	1980800000	1979610000
18	85.00	3.349	18	1980810000	1979620000
19	90.00	3.546	12	1980820000	1979630000
20	95.00	3.743	12	1980840000	1979640000

BLF 5.00/../90LR

with lock and release lever



Dimensioned drawing



Ordering data

Solder pin length				Orange	Black
Colour					
Pitch	5.00 mm				
Pol.	L1	(inch)	Qty.	Order No.	Order No.
2	5.00	0.197	90	1980870000	1979790000
3	10.00	0.394	72	1980880000	1979800000
4	15.00	0.591	60	1980890000	1979810000
5	20.00	0.788	48	1980900000	1979820000
6	25.00	0.985	42	1980910000	1979830000
7	30.00	1.182	36	1980920000	1979840000
8	35.00	1.379	36	1980930000	1979850000
9	40.00	1.576	30	1980940000	1979860000
10	45.00	1.773	30	1980950000	1979870000
11	50.00	1.970	24	1980960000	1979880000
12	55.00	2.167	24	1980970000	1979890000
13	60.00	2.364	24	1980980000	1979900000
14	65.00	2.561	18	1980990000	1979910000
15	70.00	2.758	18	1981000000	1979920000
16	75.00	2.955	18	1981010000	1979930000
17	80.00	3.152	18	1981020000	1979940000
18	85.00	3.349	18	1981030000	1979950000
19	90.00	3.546	12	1981040000	1979960000
20	95.00	3.743	12	1981050000	1979970000

PUSH IN connection technology

PUSH IN connection technology reduces the wiring affords especially for solid wires and wires with ferrule to a minimum. These connectors are self-explanary and enable tool-less handling. The contact element made of stainless steel ensures a vibration prooved, maintainance free wire termination. The established principle „STEEL FOR THE FORCE, COPPER FOR THE CURRENT" by Weidmüller offers both, maximum conductor clamping forces, as well as minimum power loss at the same time.



The 2-in-1 contact

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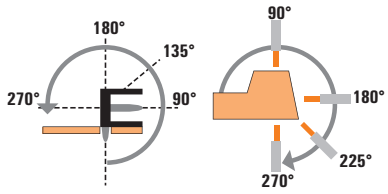


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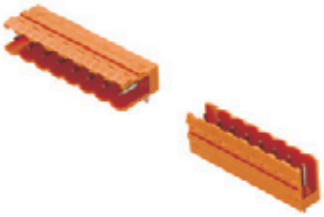
= Wire-to-Board
= Board-to-Board
= Wire-to-Wire
= Board-to-Wire



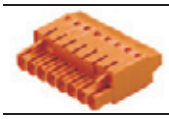
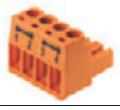
Orientation



Solder connection



BL/SL 5.08 series, Part 1 of 3

					Levels		1		
					Type		SL HC	SL HC	
					Orientation		90°	180°	
					Flange options Male headers		(0)/G/B/F/LF	(0)/G/B/F/LF	
					IEC / UL		IEC: 400 V/24 A UL: 300 V/15 A	IEC: 400 V/24 A UL: 300 V/16 A	
						Page	C.190	C.194	
Female plug	Clamping yoke		**BLZP**	180°	(G)/F/LR	IEC: 400 V/19 A/0.2 - 4 mm² UL: 300 V/10 A/AWG 26 - 12	C.218	○	○
			**BLZP**	90°	(G)/F/LR	IEC: 400 V/15.5 A/0.2 - 4 mm² UL: 300 V/10 A/AWG 26 - 12	C.220	○	○
			**BLZP**	270°	(G)/F/LR	IEC: 400 V/15.5 A/0.2 - 4 mm² UL: 300 V/10 A/AWG 26 - 12	C.222	○	○
			**BLZP**	225°	(G)/F/LR	IEC: 400 V/17.5 A/0.2 - 4 mm² UL: 300 V/10 A/AWG 26 - 12	C.224	○	○
	TOP		**BLT**	180°	(G)/F/ LR/DF	IEC: 400 V/17 A/0.2 - 2.5 mm² UL: 300 V/10 A/AWG 26 - 14	C.226	○	○
	Clamping yoke (twin connector)		**BLZ QV**	180°	(G)	IEC: 400 V/17.5 A/0.2 - 2.5 mm² UL: 300 V/15 A/AWG 26 - 14	C.228	○	○
			**BLDZ DN Devicenet**	180°	(G)/F	IEC: 400 V/16 A/0.2 - 2.5 mm² UL: 300 V/15 A/AWG 22 - 12	C.232	○	○
			**BLDT**	180°	(G)	IEC: 400 V/14 A/0.2 - 2.5 mm² UL: 300 V/10 A/AWG 26 - 12	C.234	○	○
Female header	Solder connection		**BLL**	90°	(G)/FI	IEC: 400 V/23 A UL: 300 V/15 A	C.246	●	●
			**BLL**	180°	(G)/B	IEC: 400 V/23 A UL: 300 V/15 A	C.248	●	●

Female plug and header:

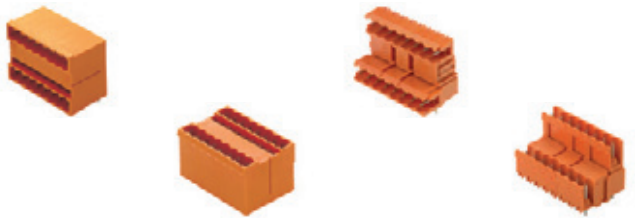
(G)* = Closed (without flange)
F = Flange with screw
DF = Implementation
LR = Lock & Release lever
B = Dovetail for fixing blocks with a nut
FI = Inverted flange with nut

* not included in the article description

Male header

Solder connection

Reflow solder connection





	2				1		
	SLD	**SLD**	**SLDV**	**SLDV**	**SL-SMT**	**SL-SMT**	**SL-SMT**
	90°	180°	90°	180°	90°	180°	270°
	G	G	(O)/B	(O)/B	(O)/G/F/LF	(O)/G/F/LF	G/LF
	IEC: 400 V/11 A UL: 300 V/10 A	IEC: 400 V/14 A UL: 300 V/10 A	IEC: 400 V/17 A UL: 300 V/10 A	IEC: 400 V/17 A UL: 300 V/10 A	IEC: 400 V/19 A UL: 300 V/15 A	IEC: 400 V/19 A UL: 300 V/15 A	IEC: 400 V/19 A UL: 300 V/15 A
	C.200	C.201	C.198	C.199	C.168	C.174	C.180
	○	○	○	○	○	○	○
			○	○	○	○	○
					○	○	○
	○	○			○	○	○
	○	○	○	○	○	○	○
	○	○	○	○	○	○	○
					○	○	○
					○	○	○
	●	●	●	●	●	●	●
	●	●	●	●	●	●	●

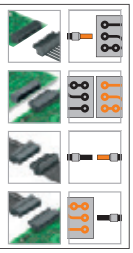
Male header and plug:

(O)* = open
B = Dovetail for fixing blocks with a nut
G = closed
F = Screw flange with nut
LF = Solder flange with nut
DF = Implementation

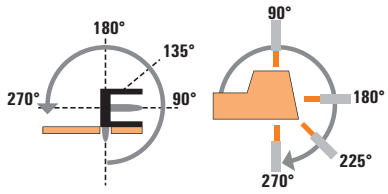
* not included in the article description

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= Wire-to-Board
= Board-to-Board
= Wire-to-Wire
= Board-to-Wire



Orientation



Male header

Reflow solder connection





BL/SL 5.08 series Part 2 of 3

					Levels		1	
					Type		**SL-SMarT**	**SL-SMarT**
					Orientation		90°	180°
					Flange options Male headers		(0)	(0)
					IEC / UL		IEC: 400 V/16.5 A UL: 300 V/15 A	IEC: 400 V/16.5 A UL: 300 V/15 A
						Page	C.184	C.185
Female plug	Clamping yoke		**BLZP**	180°	(G)/F/LR	IEC: 400 V/19 A/0.2 - 4 mm² UL: 300 V/10 A/AWG 26 - 12	C.218	○	○
			BLZP	90°	(G)/F/LR	IEC: 400 V/15.5 A/0.2 - 4 mm² UL: 300 V/10 A/AWG 26 - 12	C.220	○	○
			BLZP	270°	(G)/F/LR	IEC: 400 V/15.5 A/0.2 - 4 mm² UL: 300 V/10 A/AWG 26 - 12	C.222	○	○
			BLZP	225°	(G)/F/LR	IEC: 400 V/17.5 A/0.2 - 4 mm² UL: 300 V/10 A/AWG 26 - 12	C.224	○	○
	TOP		**BLT**	180°	(G)/F/ LR/DF	IEC: 400 V/17 A/0.2 - 2.5 mm² UL: 300 V/10 A/AWG 26 - 14	C.226	○	○
	Clamping yoke (twin connector)		**BLZ QV**	180°	(G)	IEC: 400 V/17.5 A/0.2 - 2.5 mm² UL: 300 V/15 A/AWG 26 - 14	C.228	○	○
			BLDZ DN Devicenet	180°	(G)/F	IEC: 400 V/16 A/0.2 - 2.5 mm² UL: 300 V/15 A/AWG 22 - 12	C.232	○	○
			BLDT	180°	(G)	IEC: 400 V/14 A/0.2 - 2.5 mm² UL: 300 V/10 A/AWG 26 - 12	C.234	○	○
Female header	Solder connection		**BLL**	90°	(G)/FI	IEC: 400 V/23 A UL: 300 V/15 A	C.246	●	●
			BLL	180°	(G)/B	IEC: 400 V/23 A UL: 300 V/15 A	C.248	●	●

Female plug and header:

(G)* = Closed (without flange)
F = Flange with screw
DF = Implementation
LR = Lock & Release lever
B = Dovetail for fixing blocks with a nut
FI = Inverted flange with nut

* not included in the article description

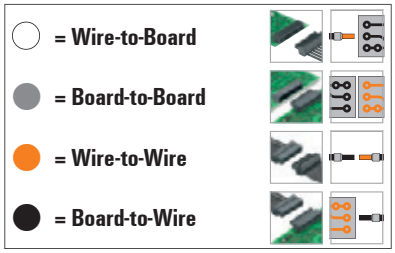
	Male plug		
	Clamping yoke	TOP	PUSH IN
			
			
2	1		1
SLDV-THR	**SLS**	**SLT**	**SLF**
180°	180°	180°	180°
G/FLF	B/F/FI/DF	B/F/FI	B/F/FI/DF
IEC: 400 V/15 A UL: 300 V/10 A	IEC: 400 V/21.5 A/ 0.2 - 2.5 mm² UL: 300 V/15 A/ AWG 26 - 12	IEC: 400 V/16 A/ 0.2 - 2.5 mm² UL: 300 V/10 A/ AWG 26 - 12	IEC: 400 V/21,5 A/ 0,2 - 2,5 mm² UL: 300 V/15 A/ AWG 26 - 12
C.186	C.210	C.214	C.216
○	●	●	●
○	●	●	●
	●	●	●
	●	●	●
○	●	●	●
○	●	●	●
	●	●	
	●	●	●
●	●	●	
●	●	●	

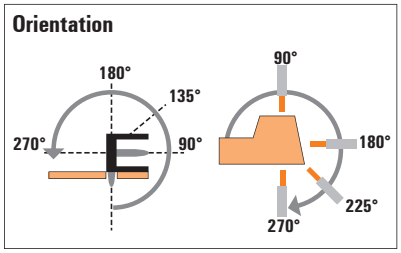
Male header and plug:

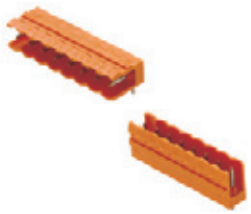
(O)* = open
B = Dovetail for fixing blocks with a nut
G = closed
F = Screw flange with nut
LF = Solder flange with nutr
DF = Implementation

* not included in the article description

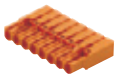
http://www.OMNIMATE.net







BL/SL 5.08 series Part 3 of 3

				Levels			1		
				Type			SL HC	SL HC	
				Orientation			90°	180°	
				Flange options			(O)/G/B/F/LF	(O)/G/B/F/LF	
				IEC / UL			IEC: 400 V/24 A UL: 300 V/15 A	IEC: 400 V/24 A UL: 300 V/16 A	
						Page	C.190	C.194	
Female plug	PUSH IN		**BLF**	180°	(G)/F/ LR/DF	IEC: 400 V/24 A/0.2 - 2.5 mm² UL: 300 V/16 A/AWG 12 - AWG 26	C.236	○	○
			**BLF**	90°	(G)/F/LR	IEC: 400 V/24 A/0.2 - 2.5 mm² UL: 300 V/16 A/AWG 12 - AWG 26	C.238	○	○
			**BLF**	270°	(G)/F/LR	IEC: 400 V/24 A/0.2 - 2.5 mm² UL: 300 V/16 A/AWG 12 - AWG 26	C.240	○	○
	PUSH IN (twin connector)		**BLDF**	180°	(G)/F/LR	IEC: 400 V/26.1 A/0.2 - 2.5 mm² UL: 300 V/10 A/AWG 26-12	C.242	○	○
	Crimp		**BLC**	180°	(G)/B	IEC: 400 V/21 A UL: 300 V/10 A	C.244	○	○

Female plug and header:

(G)* = Closed (without flange)
F = Flange with screw
LR = Lock & Release lever
DF = Implementation
B = Dovetail for fixing blocks with a nut

* not included in the article description

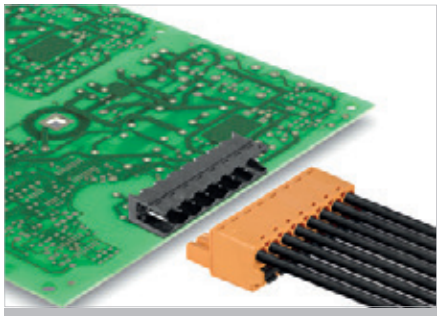
Male header										Male plug
Solder connection				Reflow solder connection						PUSH IN
										
2				1			1		2	1
SLD	**SLD**	**SLDV**	**SLDV**	**SL-SMT**	**SL-SMT**	**SL-SMT**	**SL-SMarT**	**SL-SMarT**	**SLDV-THR**	**SLF**
90°	180°	90°	180°	90°	180°	270°	90°	180°	180°	180°
G	G	(O)/B	(O)/B	(O)/G/F/LF	(O)/G/F/LF	G/LF	(O)	(O)	G/FLF	B/F/FI/DF
IEC: 400 V/11 A UL: 300 V/10 A	IEC: 400 V/14 A UL: 300 V/10 A	IEC: 400 V/17 A UL: 300 V/10 A	IEC: 400 V/17 A UL: 300 V/10 A	IEC: 400 V/19 A UL: 300 V/15 A	IEC: 400 V/19 A UL: 300 V/15 A	IEC: 400 V/19 A UL: 300 V/15 A	IEC: 400 V/16.5 A UL: 300 V/15 A	IEC: 400 V/16.5 A UL: 300 V/15 A	IEC: 400 V/15 A UL: 300 V/10 A	IEC: 400 V/21,5 A/ 0,2 - 2,5 mm² UL: 300 V/15 A/ AWG 26 - 12
C.200	C.201	C.198	C.199	C.168	C.174	C.180	C.184	C.185	C.186	C.208
○	○	○	○	○	○	○	○	○	○	●
		○	○	○	○	○	○	○	○	●
				○	○	○	○	○		●
○	○	○	○	○	○	○	○	○	○	●
○	○	○	○	○	○	○	○	○	○	●

Male header and plug:

(O)* = open
B = Dovetail for fixing blocks with a nut
G = closed
F = Screw flange with nut
LF = Solder flange with nut
FLF = Flange with nut and additional solder flange

* not included in the article description

SL-SMT 5.08/../90



High-temperature-resistant, 90°-angled male header, optimised for SMT processing. The male headers can be manually coded or ordered as pre-coded headers.

- Available in open, closed (G), with screw flange (F) or with solder Flange (LF).
- The solder flange substitutes a screw fastening to the PCB and protects the solder joints aganist mechanical stress.
- Available with 1.5 mm or 3.2 mm solder pins.
- The short 1.5 mm pins enable a double-sided PCB mounting and reduce the needed amount of solder paste without losing holding force to the PCB.
- Packed either in box (BX) or on anti-static roll (tape-on-reel, RL).

Product data

IEC: 400 V / 19 A
UL: 300 V / 15 A

For additional articles and information, refer to catalog.weidmueller.com

Note:

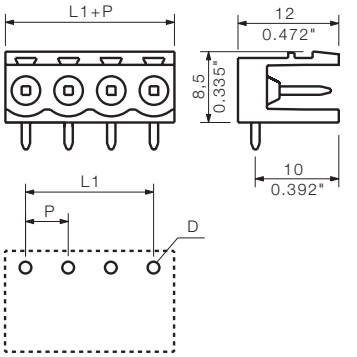
- Gold-plated contact surfaces on request
- Rated current related to rated cross-section & min. No. of poles.
- Diameter of solder eyelet D = 1.4+0.1mm
- Diameter of solder eyelet D = 1.5+0.1mm from 9-pole
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

SL-SMT 5.08/../90 Box

Packaged in box



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm²			
Solid core H05(07) V-U	**mm²**			
Stranded H07 V-R				
Flexible H05(07) V-K	mm²			
Flexible with ferrule	mm²			
Ferrule with plastic collar	mm²			
Stripping length	mm			
Screwdriver blade	mm			
According to norm				
Tightening torque range	Nm			
Rated current, max.	**A**	**19**		**16**
At ambient temperature		20°C		40°C
For conductor cross-section	mm²			
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	**V**	**250**	**320**	**400**
Rated impulse voltage	kV	4	4	4
UL / CUL (Use Group)		**B**	**C**	**D**
Rated voltage	**V**	**300**		**300**
Rated current	**A**	**15**		**10**
AWG conductor	**AWG**		-	
CSA (Use Group)		**B**	**C**	**D**
Rated voltage	V	300		300
Rated current	A	15		10
AWG conductor	AWG		-	
General data				
Type of insulation material		LCP GF		
UL 94 flammability rating		V-0		
Contact base material		CuSn		
Material of contact surface		tinned		
Pin dimensions = d	mm	1.2, Octagonal		
Solder eyelet Ø = D	mm	1.5		
Solder eyelet Ø tolerance	mm	+ 0,1		

Accessories

Note: Refer to the Accessories chapter for additional accessories.

Coding		Order No.
	BLZ/SL KO OR	1573010000
	BLZ/SL KO SW	1545710000
Partition element		
	SL AT OR	1598300000
	SL AT SW	1770240000
LED light guide		
	SL FLA 1.5/1	1580100000
	SL FLA 1.5/24	1595850000
	SL FLA 2,3/1	1636670000
	SL FLA 2,3/24	1636680000
	SL FLA 3.8/1	1580110000
	SL FLA 3.8/24	1595860000
	SL FLA 9.0/1	1580120000
	SL FLA 9.0/24	1595870000

Ordering data

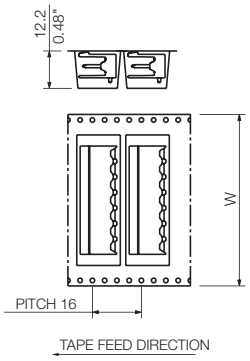
Solder pin length				1.5 mm	3.2 mm
Colour				Black	Black
Pitch	**5.08 mm**				
Pol.	L1	(inch)	Qty.	Order No.	Order No.
2	5.08	0.200	100	1774762001	1779950000
3	10.16	0.400	100	1774772001	1779960000
4	15.24	0.600	100	1774782001	1779970000
5	20.32	0.800	50	1774792001	1779980000
6	25.40	1.000	50	1774802001	1779990000
7	30.48	1.200	50	1774812001	1780000000
8	35.56	1.400	50	1774822001	1780010000
9	40.64	1.600	50	1774832001	1780020000
10	45.72	1.800	50	1774842001	1780030000
11	50.80	2.000	50	1774852001	1780040000
12	55.88	2.200	50	1774862001	1780050000
13	60.96	2.400	50	1774872001	1780060000
14	66.04	2.600	50	1774882001	1780070000
15	71.12	2.800	50	1774892001	1780080000
16	76.20	3.000	50	1774902001	1780090000
17	81.28	3.200	20	1774912001	1780100000
18	86.36	3.400	20	1774922001	1780110000
19	91.44	3.600	20	1774932001	1780120000
20	96.52	3.800	20	1774942001	1780130000
21	101.60	4.000	20	1774952001	1780140000
22	106.68	4.200	20	1774962001	1780150000
23	111.76	4.400	20	1774972001	1780160000
24	116.84	4.600	20	1774982001	1780170000

SL-SMT 5.08/../90 Tape

Tape-on-reel



Dimensioned drawing



Ordering data

Solder pin length				1.5 mm
Colour				Black
Pitch	**5.08 mm**			
Pol.	L1	(inch)	**Qty.**	**Order No.**
2	5.08	0.200	350	**1821160000**
3	10.16	0.400	350	**1821170000**
4	15.24	0.600	350	**1774784001**
5	20.32	0.800	350	**1774794001**
6	25.40	1.000	350	**1774804001**
7	30.48	1.200	350	**1774814001**
8	35.56	1.400	350	**1774824001**

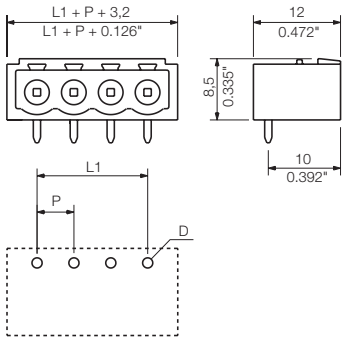
Tape widths: 32, 44, 56, 72, 88

SL-SMT 5.08/../90G Box

Packaged in box



Dimensioned drawing



Ordering data

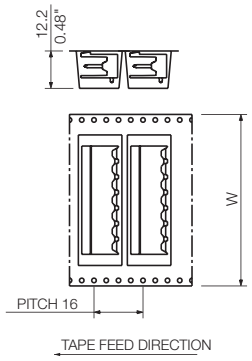
Solder pin length				1.5 mm	3.2 mm
Colour				Black	Black
Pitch	**5.08 mm**				
Pol.	L1	(inch)	**Qty.**	**Order No.**	**Order No.**
2	5.08	0.200	100	**1775002001**	**1780180000**
3	10.16	0.400	100	**1775012001**	**1780190000**
4	15.24	0.600	100	**1775022001**	**1780200000**
5	20.32	0.800	50	**1775032001**	**1780210000**
6	25.40	1.000	50	**1775042001**	**1780220000**
7	30.48	1.200	50	**1775052001**	**1780230000**
8	35.56	1.400	50	**1775062001**	**1780240000**
9	40.64	1.600	50	**1775072001**	**1780250000**
10	45.72	1.800	50	**1775082001**	**1780260000**
11	50.80	2.000	50	**1775092001**	**1780270000**
12	55.88	2.200	50	**1775102001**	**1780280000**
13	60.96	2.400	50	**1775112001**	**1780290000**
14	66.04	2.600	50	**1775122001**	**1780300000**
15	71.12	2.800	50	**1775132001**	**1780310000**
16	76.20	3.000	50	**1775142001**	**1780320000**
17	81.28	3.200	20	**1775152001**	**1780330000**
18	86.36	3.400	20	**1775162001**	**1780340000**
19	91.44	3.600	20	**1775172001**	**1780350000**
20	96.52	3.800	20	**1775182001**	**1780360000**
21	101.60	4.000	20	**1775192001**	**1780370000**
22	106.68	4.200	20	**1775202001**	**1780380000**
23	111.76	4.400	20	**1775212001**	**1780390000**
24	116.84	4.600	20	**1775222001**	**1780400000**

SL-SMT 5.08/../90G Tape

Tape-on-reel



Dimensioned drawing

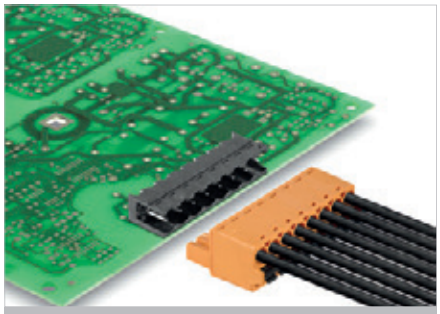


Ordering data

Solder pin length				1.5 mm
Colour				Black
Pitch	**5.08 mm**			
Pol.	L1	(inch)	**Qty.**	**Order No.**
2	5.08	0.200	350	**1821140000**
3	10.16	0.400	350	**1775014001**
4	15.24	0.600	350	**1775024001**
5	20.32	0.800	350	**1775034001**
6	25.40	1.000	350	**1775044001**
7	30.48	1.200	350	**1775054001**

Tape widths: 32, 44, 56, 72, 88

SL-SMT 5.08/../90



High-temperature-resistant, 90°-angled male header, optimised for SMT processing. The male headers can be manually coded or ordered as pre-coded headers.

- Available in open, closed (G), with screw flange (F) or with solder Flange (LF).
- The solder flange substitutes a screw fastening to the PCB and protects the solder joints aganist mechanical stress.
- Available with 1.5 mm or 3.2 mm solder pins.
- The short 1.5 mm pins enable a double-sided PCB mounting and reduce the needed amount of solder paste without losing holding force to the PCB.
- Packed either in box (BX) or on anti-static roll (tape-on-reel, RL).

Product data

IEC: 400 V / 19 A
UL: 300 V / 15 A

For additional articles and information, refer to catalog.weidmueller.com

Note:

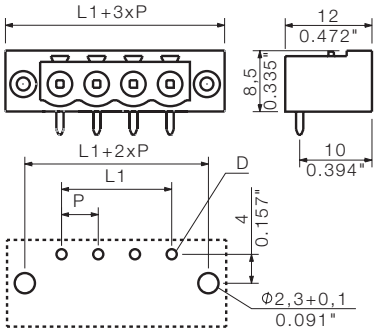
- Gold-plated contact surfaces on request
- Rated current related to rated cross-section & min. No. of poles.
- Diameter of solder eyelet D = 1.4+0.1mm
- Diameter of solder eyelet D = 1.5+0.1mm from 9-pole
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

SL-SMT 5.08/../90F Box

Packaged in box



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm²			
Solid core H05(07) V-U	**mm²**			
Stranded H07 V-R				
Flexible H05(07) V-K	mm²			
Flexible with ferrule	mm²			
Ferrule with plastic collar	mm²			
Stripping length	mm			
Screwdriver blade	mm			
According to norm				
Tightening torque range	Nm			
Rated current, max.	**A**	**19**		**16**
At ambient temperature		20°C		40°C
For conductor cross-section	mm²			
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	**V**	**250**	**320**	**400**
Rated impulse voltage	kV	4	4	4
UL / CUL (Use Group)		**B**	**C**	**D**
Rated voltage	**V**	**300**		**300**
Rated current	**A**	**15**		**10**
AWG conductor	**AWG**		-	
CSA (Use Group)		**B**	**C**	**D**
Rated voltage	V	300		300
Rated current	A	15		10
AWG conductor	AWG		-	
General data				
Type of insulation material		LCP GF		
UL 94 flammability rating		V-0		
Contact base material		CuSn		
Material of contact surface		tinned		
Pin dimensions = d	mm	1.2, Octagonal		
Solder eyelet Ø = D	mm	1.5		
Solder eyelet Ø tolerance	mm	+ 0,1		

Accessories

Note: Refer to the Accessories chapter for additional accessories.

Coding		Order No.
	BLZ/SL KO OR	1573010000
	BLZ/SL KO SW	1545710000
Partition element		
	SL AT OR	1598300000
	SL AT SW	1770240000
LED light guide		
	SL FLA 1.5/1	1580100000
	SL FLA 1.5/24	1595850000
	SL FLA 2,3/1	1636670000
	SL FLA 2,3/24	1636680000
	SL FLA 3.8/1	1580110000
	SL FLA 3.8/24	1595860000
	SL FLA 9.0/1	1580120000
	SL FLA 9.0/24	1595870000

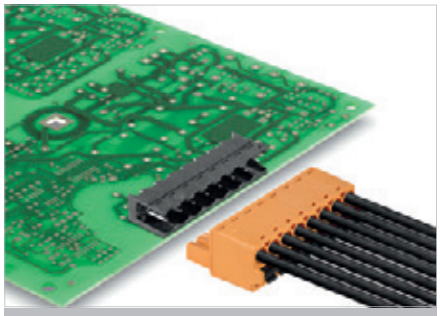
Ordering data

Solder pin length 3.2 mm
Colour Black

Pitch 5.08 mm

Pol.	L1	(inch)	Qty.	Order No.
2	5.08	0.200	100	1837630000
3	10.16	0.400	100	1837640000
4	15.24	0.600	100	1837650000
5	20.32	0.800	50	1837660000
6	25.40	1.000	50	1837670000
7	30.48	1.200	50	1837680000
8	35.56	1.400	50	1837690000
9	40.64	1.600	50	1837700000
10	45.72	1.800	50	1837710000
11	50.80	2.000	50	1837720000
12	55.88	2.200	50	1837730000
13	60.96	2.400	50	1837740000
14	66.04	2.600	50	1837750000
15	71.12	2.800	50	1837760000
16	76.20	3.000	50	1837770000
17	81.28	3.200	20	1837780000
18	86.36	3.400	20	1837790000
19	91.44	3.600	20	1837800000
20	96.52	3.800	20	1837810000
21	101.60	4.000	20	1837820000
22	106.68	4.200	20	1837830000
23	111.76	4.400	20	1837840000
24	116.84	4.600	20	1837850000

SL-SMT 5.08/../90



High-temperature-resistant, 90°-angled male header, optimised for SMT processing. The male headers can be manually coded or ordered as pre-coded headers.

- Available in open, closed (G), with screw flange (F) or with solder Flange (LF).
- The solder flange substitutes a screw fastening to the PCB and protects the solder joints aganist mechanical stress.
- Available with 1.5 mm or 3.2 mm solder pins.
- The short 1.5 mm pins enable a double-sided PCB mounting and reduce the needed amount of solder paste without losing holding force to the PCB.
- Packed either in box (BX) or on anti-static roll (tape-on-reel, RL).

Product data

IEC: 400 V / 19 A
UL: 300 V / 15 A

For additional articles and information, refer to catalog.weidmueller.com

Note:

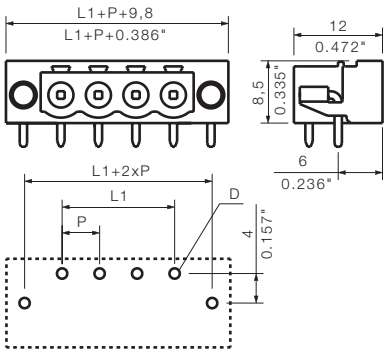
- Gold-plated contact surfaces on request
- Rated current related to rated cross-section & min. No. of poles.
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

SL-SMT 5.08/../90LF Box

Packaged in box; with solder flange



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm²			
Solid core H05(07) V-U	**mm²**			
Stranded H07 V-R				
Flexible H05(07) V-K	mm²			
Flexible with ferrule	mm²			
Ferrule with plastic collar	mm²			
Stripping length	mm			
Screwdriver blade	mm			
According to norm				
Tightening torque range	Nm			
Rated current, max.	**A**	**19**		**16**
At ambient temperature		20°C		40°C
For conductor cross-section	mm²			
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	**V**	**250**	**320**	**400**
Rated impulse voltage	kV	4	4	4
UL / CUL (Use Group)		**B**	**C**	**D**
Rated voltage	**V**	**300**		**300**
Rated current	**A**	**15**		**10**
AWG conductor	**AWG**		-	
CSA (Use Group)		**B**	**C**	**D**
Rated voltage	V	300		300
Rated current	A	15		10
AWG conductor	AWG		-	
General data				
Type of insulation material		LCP GF		
UL 94 flammability rating		V-0		
Contact base material		CuSn		
Material of contact surface		tinned		
Pin dimensions = d	mm	1.2, Octagonal		
Solder eyelet Ø = D	mm	1.5		
Solder eyelet Ø tolerance	mm	+ 0,1		

Accessories

Note: Refer to the Accessories chapter for additional accessories.

Coding		Order No.
	BLZ/SL KO OR	1573010000
	BLZ/SL KO SW	1545710000
Partition element		
	SL AT OR	1598300000
	SL AT SW	1770240000
LED light guide		
	SL FLA 1.5/1	1580100000
	SL FLA 1.5/24	1595850000
	SL FLA 2,3/1	1636670000
	SL FLA 2,3/24	1636680000
	SL FLA 3.8/1	1580110000
	SL FLA 3.8/24	1595860000
	SL FLA 9.0/1	1580120000
	SL FLA 9.0/24	1595870000

Ordering data

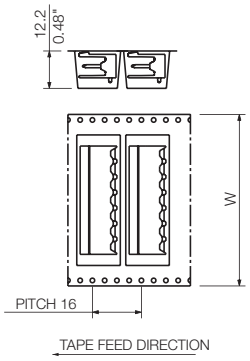
Solder pin length				1.5 mm	3.2 mm
Colour				Black	Black
Pitch	**5.08 mm**				
Pol.	L1	(inch)	**Qty.**	**Order No.**	**Order No.**
2	5.08	0.200	100	1775232001	1780410000
3	10.16	0.400	100	1775242001	1780420000
4	15.24	0.600	100	1775252001	1780430000
5	20.32	0.800	50	1775262001	1780440000
6	25.40	1.000	50	1775272001	1780450000
7	30.48	1.200	50	1775282001	1780460000
8	35.56	1.400	50	1775292001	1780470000
9	40.64	1.600	50	1775302001	1780480000
10	45.72	1.800	50	1775312001	1780490000
11	50.80	2.000	50	1775322001	1780500000
12	55.88	2.200	50	1775332001	1780510000
13	60.96	2.400	50	1775342001	1780540000
14	66.04	2.600	50	1775352001	1780550000
15	71.12	2.800	50	1775362001	1780560000
16	76.20	3.000	50	1775372001	1780570000
17	81.28	3.200	20	1775382001	1780580000
18	86.36	3.400	20	1775392001	1780590000
19	91.44	3.600	20	1775402001	1780600000
20	96.52	3.800	20	1775412001	1780610000
21	101.60	4.000	20	1775422001	1780620000
22	106.68	4.200	20	1775432001	1780630000
23	111.76	4.400	20	1775442001	1780640000
24	116.84	4.600	20	1775452001	1780650000

SL-SMT 5.08/../90LF Tape

Tape-on-reel; with solder flange



Dimensioned drawing



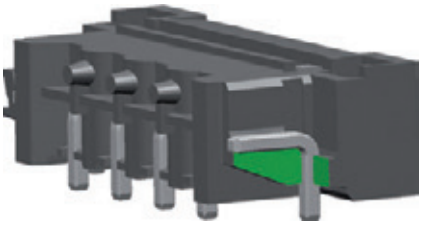
Ordering data

Solder pin length				1.5 mm
Colour				Black
Pitch	**5.08 mm**			
Pol.	L1	(inch)	**Qty.**	**Order No.**
2	5.08	0.200	350	**1775234001**
3	10.16	0.400	350	**1775244001**
4	15.24	0.600	350	**1775254001**
5	20.32	0.800	350	**1775264001**
6	25.40	1.000	350	**1775274001**

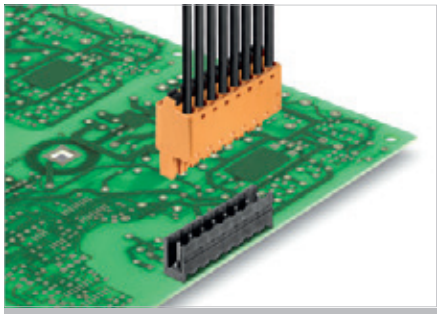
Tape widths: 32, 44, 56, 72, 88

Solder flange (LF)

Normally you use a pin header with fastening flanges (F) in combination with a screw from the rear side of the PCB to increase the fixation forces of the pin headers.
The disadvantages are additional process steps that make the PCB mounting complex and cost intensive.
The patented solder flange was designed to solve exactly this problem and find a simple and cheap solution. The additional solder pins substitute the present screw flanges and they get soldered together with the pin header.
This terminates additional process steps and thus reduces production costs. The additional fixation protects the soldered connections from tensile strain and avoids permanent mechanical stress such as caused by the post-fastened screw forces.



SL-SMT 5.08/../180



High-temperature-resistant, 180°-angled male header, optimised for SMT processing. The male headers can be manually coded or ordered as pre-coded headers.

- Available in open, closed (G), with screw flange (F) or with solder Flange (LF).
- The solder flange substitutes a screw fastening to the PCB and protects the solder joints aganist mechanical stress.
- Available with 1.5 mm or 3.2 mm solder pins.
- The short 1.5 mm pins enable a double-sided PCB mounting and reduce the needed amount of solder paste without losing holding force to the PCB.
- Packed either in box (BX) or on anti-static roll (tape-on-reel, RL).

Product data

IEC: 400 V / 19 A
UL: 300 V / 15 A

For additional articles and information, refer to catalog.weidmueller.com

Note:

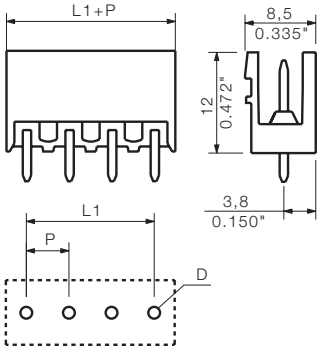
- Gold-plated contact surfaces on request
- Rated current related to rated cross-section & min. No. of poles.
- Diameter of solder eyelet D = 1.4+0.1mm
- Diameter of solder eyelet D = 1.5+0.1mm from 9-pole
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

SL-SMT 5.08/../180 Box

Packaged in box



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm²			
Solid core H05(07) V-U	**mm²**			
Stranded H07 V-R				
Flexible H05(07) V-K	mm²			
Flexible with ferrule	mm²			
Ferrule with plastic collar	mm²			
Stripping length	mm			
Screwdriver blade	mm			
According to norm				
Tightening torque range	Nm			
Rated current, max.	**A**	**19**		**16**
At ambient temperature		20°C		40°C
For conductor cross-section	mm²			
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	**V**	**250**	**320**	**400**
Rated impulse voltage	kV	4	4	4
UL / CUL (Use Group)		**B**	**C**	**D**
Rated voltage	**V**	**300**		**300**
Rated current	**A**	**15**		**10**
AWG conductor	**AWG**		-	
CSA (Use Group)		**B**	**C**	**D**
Rated voltage	V	300		300
Rated current	A	15		10
AWG conductor	AWG		-	
General data				
Type of insulation material		LCP GF		
UL 94 flammability rating		V-0		
Contact base material		CuSn		
Material of contact surface		tinned		
Pin dimensions = d	mm	1.2, Octagonal		
Solder eyelet Ø = D	mm	1.5		
Solder eyelet Ø tolerance	mm	+ 0,1		

Accessories

Note: Refer to the Accessories chapter for additional accessories.

Coding		Order No.
	BLZ/SL KO OR	1573010000
	BLZ/SL KO SW	1545710000
Partition element		
	SL AT OR	1598300000
	SL AT SW	1770240000

Ordering data

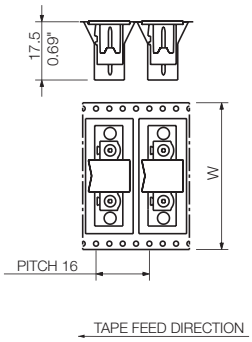
Solder pin length				1.5 mm	3.2 mm
Colour				Black	Black
Pitch	**5.08 mm**				
Pol.	L1	(inch)	**Qty.**	**Order No.**	**Order No.**
2	5.08	0.200	100	1775522001	1837980000
3	10.16	0.400	100	1775572001	1837990000
4	15.24	0.600	100	1775592001	1838000000
5	20.32	0.800	50	1775632001	1838010000
6	25.40	1.000	50	1775642001	1838020000
7	30.48	1.200	50	1775652001	1838030000
8	35.56	1.400	50	1775662001	1838040000
9	40.64	1.600	50	1775672001	1838050000
10	45.72	1.800	50	1775682001	1838060000
11	50.80	2.000	50	1775692001	1838070000
12	55.88	2.200	50	1775702001	1838080000
13	60.96	2.400	50	1775712001	1838090000
14	66.04	2.600	50	1775722001	1838100000
15	71.12	2.800	50	1775732001	1838110000
16	76.20	3.000	50	1775742001	1838120000
17	81.28	3.200	20	1775752001	1838130000
18	86.36	3.400	20	1775762001	1838140000
19	91.44	3.600	20	1775772001	1838150000
20	96.52	3.800	20	1775782001	1838160000
21	101.60	4.000	20	1775792001	1838170000
22	106.68	4.200	20	1775802001	1838180000
23	111.76	4.400	20	1775812001	1838190000
24	116.84	4.600	20	1775822001	1838200000

SL-SMT 5.08/../180 Tape

Tape-on-reel



Dimensioned drawing



Ordering data

Solder pin length				1.5 mm
Colour				Black
Pitch	**5.08 mm**			
Pol.	L1	(inch)	**Qty.**	**Order No.**
2	5.08	0.200	250	**1821100000**
3	10.16	0.400	250	**1821110000**
4	15.24	0.600	250	**1775594001**
5	20.32	0.800	250	**1775634001**
6	25.40	1.000	250	**1775644001**
7	30.48	1.200	250	**1775654001**
8	35.56	1.400	250	**1775664001**

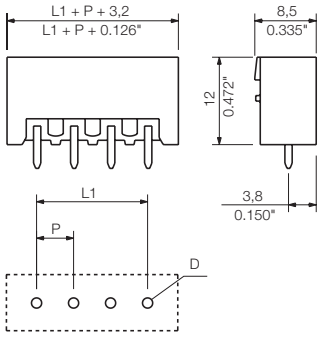
Tape widths: 32, 44, 56, 72, 88

SL-SMT 5.08/../180G Box

Packaged in box



Dimensioned drawing



Ordering data

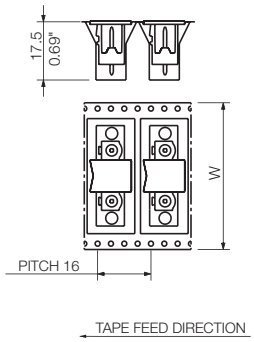
Solder pin length				1.5 mm	3.2 mm
Colour				Black	Black
Pitch	**5.08 mm**				
Pol.	L1	(inch)	**Qty.**	**Order No.**	**Order No.**
2	5.08	0.200	100	**1775922001**	**1838210000**
3	10.16	0.400	100	**1775932001**	**1838220000**
4	15.24	0.600	100	**1775942001**	**1838230000**
5	20.32	0.800	50	**1775952001**	**1838240000**
6	25.40	1.000	50	**1775962001**	**1838250000**
7	30.48	1.200	50	**1775972001**	**1838260000**
8	35.56	1.400	50	**1775982001**	**1838270000**
9	40.64	1.600	50	**1775992001**	**1838280000**
10	45.72	1.800	50	**1776002001**	**1838290000**
11	50.80	2.000	50	**1776012001**	**1838300000**
12	55.88	2.200	50	**1776022001**	**1838310000**
13	60.96	2.400	50	**1776242001**	**1838320000**
14	66.04	2.600	50	**1776252001**	**1838330000**
15	71.12	2.800	50	**1776262001**	**1838340000**
16	76.20	3.000	50	**1776272001**	**1838350000**
17	81.28	3.200	20	**1776282001**	**1838360000**
18	86.36	3.400	20	**1776292001**	**1838370000**
19	91.44	3.600	20	**1776302001**	**1838380000**
20	96.52	3.800	20	**1776312001**	**1838390000**
21	101.60	4.000	20	**1776322001**	**1838400000**
22	106.68	4.200	20	**1776332001**	**1838410000**
23	111.76	4.400	20	**1776342001**	**1838420000**
24	116.84	4.600	20	**1776352001**	**1838430000**

SL-SMT 5.08/../180G Tape

Tape-on-reel



Dimensioned drawing

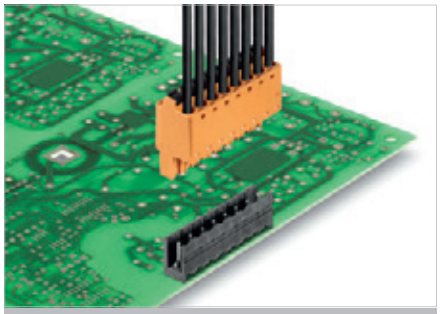


Ordering data

Solder pin length				1.5 mm
Colour				Black
Pitch	**5.08 mm**			
Pol.	L1	(inch)	**Qty.**	**Order No.**
2	5.08	0.200	250	**1820170000**
3	10.16	0.400	250	**1775934001**
4	15.24	0.600	250	**1775944001**
5	20.32	0.800	250	**1775954001**
6	25.40	1.000	250	**1775964001**
7	30.48	1.200	250	**1775974001**

Tape widths: 32, 44, 56, 72, 88

SL-SMT 5.08/../180



High-temperature-resistant, 180°-angled male header, optimised for SMT processing. The male headers can be manually coded or ordered as pre-coded headers.

- Available in open, closed (G), with screw flange (F) or with solder Flange (LF).
- The solder flange substitutes a screw fastening to the PCB and protects the solder joints aganist mechanical stress.
- Available with 1.5 mm or 3.2 mm solder pins.
- The short 1.5 mm pins enable a double-sided PCB mounting and reduce the needed amount of solder paste without losing holding force to the PCB.
- Packed either in box (BX) or on anti-static roll (tape-on-reel, RL).

Product data

IEC: 400 V / 19 A
UL: 300 V / 15 A

For additional articles and information, refer to catalog.weidmueller.com

Note:

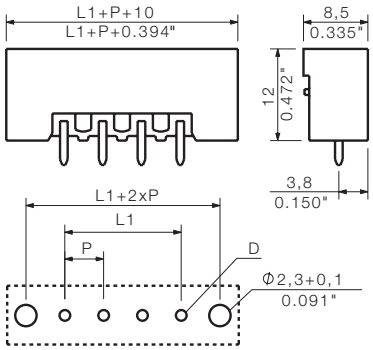
- Gold-plated contact surfaces on request
- Rated current related to rated cross-section & min. No. of poles.
- Diameter of solder eyelet D = 1.4+0.1mm
- Diameter of solder eyelet D = 1.5+0.1mm from 9-pole
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

SL-SMT 5.08/../180F Box

Packaged in box



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm²			
Solid core H05(07) V-U	**mm²**			
Stranded H07 V-R				
Flexible H05(07) V-K	mm²			
Flexible with ferrule	mm²			
Ferrule with plastic collar	mm²			
Stripping length	mm			
Screwdriver blade	mm			
According to norm				
Tightening torque range	Nm			
Rated current, max.	**A**	**19**		**16**
At ambient temperature		20°C		40°C
For conductor cross-section	mm²			
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	**V**	**250**	**320**	**400**
Rated impulse voltage	kV	4	4	4
UL / CUL (Use Group)		**B**	**C**	**D**
Rated voltage	**V**	**300**		**300**
Rated current	**A**	**15**		**10**
AWG conductor	**AWG**		-	
CSA (Use Group)		**B**	**C**	**D**
Rated voltage	V	300		300
Rated current	A	15		10
AWG conductor	AWG		-	
General data				
Type of insulation material		LCP GF		
UL 94 flammability rating		V-0		
Contact base material		CuSn		
Material of contact surface				
Pin dimensions = d	mm	1.2, Octagonal		
Solder eyelet Ø = D	mm	1.5		
Solder eyelet Ø tolerance	mm	+ 0,1		

Accessories

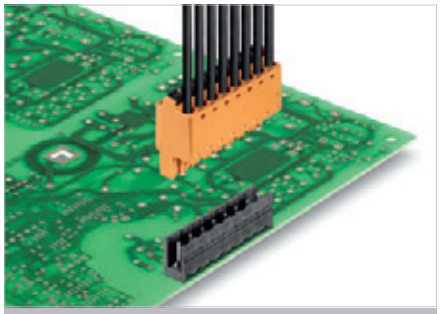
Note: Refer to the Accessories chapter for additional accessories.

Coding		Order No.
	BLZ/SL KO OR	1573010000
	BLZ/SL KO SW	1545710000
Partition element		
	SL AT OR	1598300000
	SL AT SW	1770240000

Ordering data

Solder pin length				1.5 mm	3.2 mm
Colour				Black	Black
Pitch	**5.08 mm**				
Pol.	L1	(inch)	**Qty.**	**Order No.**	**Order No.**
2	5.08	0.200	100	1837320000	1837860000
3	10.16	0.400	100		1820600000
4	15.24	0.600	100	1830100000	1837870000
5	20.32	0.800	50	1837330000	1820770000
6	25.40	1.000	50	1837340000	1820610000
7	30.48	1.200	50		1837880000
8	35.55	1.400	50		1820620000
9	40.64	1.600	50	1880940000	1837890000
10	45.72	1.800	50	1880950000	1820780000
11	50.80	2.000	50	1880960000	1837900000
12	55.88	2.200	50	1880970000	1820630000
13	60.96	2.400	50	1879920000	1820790000
14	66.04	2.600	50		1820800000
15	71.12	2.800	50		1837910000
16	76.20	3.000	50		1820640000
17	81.28	3.200	20		1837920000
18	86.36	3.400	20		1820650000
19	91.44	3.600	20		1837930000
20	96.52	3.800	20		1820810000
21	101.60	4.000	20		1837940000
22	106.68	4.200	20		1837950000
23	111.76	4.400	20		1837960000
24	116.84	4.600	20		1837970000

SL-SMT 5.08/../180



High-temperature-resistant, 180°-angled male header, optimised for SMT processing. The male headers can be manually coded or ordered as pre-coded headers.

- Available in open, closed (G), with screw flange (F) or with solder Flange (LF).
- The solder flange substitutes a screw fastening to the PCB and protects the solder joints aganist mechanical stress.
- Available with 1.5 mm or 3.2 mm solder pins.
- The short 1.5 mm pins enable a double-sided PCB mounting and reduce the needed amount of solder paste without losing holding force to the PCB.
- Packed either in box (BX) or on anti-static roll (tape-on-reel, RL).

Product data

IEC: 400 V / 19 A
UL: 300 V / 15 A

For additional articles and information, refer to catalog.weidmueller.com

Note:

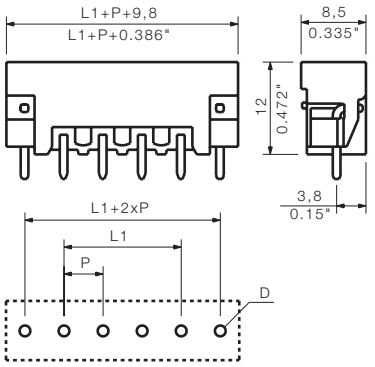
- Gold-plated contact surfaces on request
- Rated current related to rated cross-section & min. No. of poles.
- Diameter of solder eyelet D = 1.4+0.1mm
- Diameter of solder eyelet D = 1.5+0.1mm from 9-pole
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

SL-SMT 5.08/../180LF Box

Packaged in box; with solder flange



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm²			
Solid core H05(07) V-U	**mm²**			
Stranded H07 V-R				
Flexible H05(07) V-K	mm²			
Flexible with ferrule	mm²			
Ferrule with plastic collar	mm²			
Stripping length	mm			
Screwdriver blade	mm			
According to norm				
Tightening torque range	Nm			
Rated current, max.	**A**	**19**		**16**
At ambient temperature		20°C		40°C
For conductor cross-section	mm²			
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	**V**	**250**	**320**	**400**
Rated impulse voltage	kV	4	4	4
UL / CUL (Use Group)		**B**	**C**	**D**
Rated voltage	**V**	**300**		**300**
Rated current	**A**	**15**		**10**
AWG conductor	**AWG**		-	
CSA (Use Group)		**B**	**C**	**D**
Rated voltage	V	300		300
Rated current	A	15		10
AWG conductor	AWG		-	
General data				
Type of insulation material		LCP GF		
UL 94 flammability rating		V-0		
Contact base material		CuSn		
Material of contact surface		tinned		
Pin dimensions = d	mm	1.2, Octagonal		
Solder eyelet Ø = D	mm	1.5		
Solder eyelet Ø tolerance	mm	+ 0,1		

Accessories

Note: Refer to the Accessories chapter for additional accessories.

Coding		Order No.
	BLZ/SL KO OR	1573010000
	BLZ/SL KO SW	1545710000
Partition element		
	SL AT OR	1598300000
	SL AT SW	1770240000

Ordering data

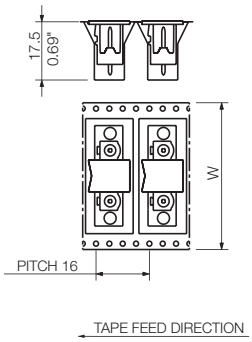
Solder pin length				1.5 mm	3.2 mm
Colour				Black	Black
Pitch	**5.08 mm**				
Pol.	L1	(inch)	**Qty.**	**Order No.**	**Order No.**
2	5.08	0.200	100	1776362001	1838440000
3	10.16	0.400	100	1776372001	1838450000
4	15.24	0.600	100	1776382001	1838460000
5	20.32	0.800	50	1776392001	1838470000
6	25.40	1.000	50	1776402001	1838480000
7	30.48	1.200	50	1776412001	1838490000
8	35.56	1.400	50	1776422001	1838500000
9	40.64	1.600	50	1776432001	1838510000
10	45.72	1.800	50	1776442001	1838520000
11	50.80	2.000	50	1776452001	1838530000
12	55.88	2.200	50	1776462001	1838540000
13	60.96	2.400	50	1776472001	1838550000
14	66.04	2.600	50	1776482001	1838560000
15	71.12	2.800	50	1776492001	1838570000
16	76.20	3.000	50	1776502001	1838580000
17	81.28	3.200	20	1776512001	1838590000
18	86.36	3.400	20	1776522001	1838600000
19	91.44	3.600	20	1776532001	1838610000
20	96.52	3.800	20	1776542001	1838620000
21	101.60	4.000	20	1776552001	1838630000
22	106.68	4.200	20	1776572001	1838640000
23	111.76	4.400	20	1776582001	1838650000
24	116.84	4.600	20	1776592001	1838660000

SL-SMT 5.08/../180LF Tape

Packaged in box; with solder flange



Dimensioned drawing



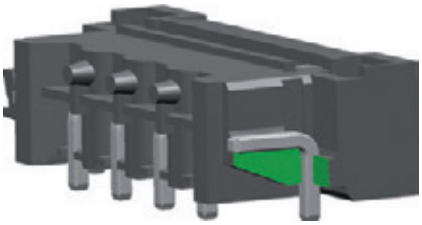
Ordering data

Solder pin length				1.5 mm
Colour				Black
Pitch	**5.08 mm**			
Pol.	L1	(inch)	**Qty.**	**Order No.**
2	5.08	0.200	250	**1776364001**
3	10.16	0.400	250	**1776374001**
4	15.24	0.600	250	**1776384001**
5	20.32	0.800	250	**1776394001**
6	25.40	1.000	250	**1776404001**

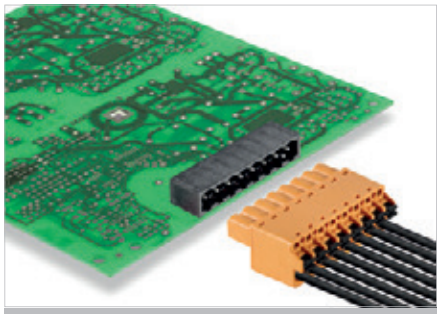
Tape widths: 32, 44, 56, 72, 88

Solder flange (LF)

Normally you use a pin header with fastening flanges (F) in combination with a screw from the rear side of the PCB to increase the fixation forces of the pin headers.
The disadvantages are additional process steps that make the PCB mounting complex and cost intensive.
The patented solder flange was designed to solve exactly this problem and find a simple and cheap solution. The additional solder pins substitute the present screw flanges and they get soldered together with the pin header.
This terminates additional process steps and thus reduces production costs. The additional fixation protects the soldered connections from tensile strain and avoids permanent mechanical stress such as caused by the post-fastened screw forces.



SL-SMT 5.08/../270



High-temperature-resistant, 270°-angled male header, optimised for SMT processing. The male headers can be manually coded or ordered as pre-coded headers.

- Available in open, closed (G), with screw flange (F) or with solder Flange (LF).
- The solder flange substitutes a screw fastening to the PCB and protects the solder joints aganist mechanical stress.
- Available with 1.5 mm or 3.2 mm solder pins.
- The short 1.5 mm pins enable a double-sided PCB mounting and reduce the needed amount of solder paste without losing holding force to the PCB.
- Packed either in box (BX) or on anti-static roll (tape-on-reel, RL).

Product data

IEC: 400 V / 19 A
UL: 300 V / 15 A

For additional articles and information, refer to catalog.weidmueller.com

Note:

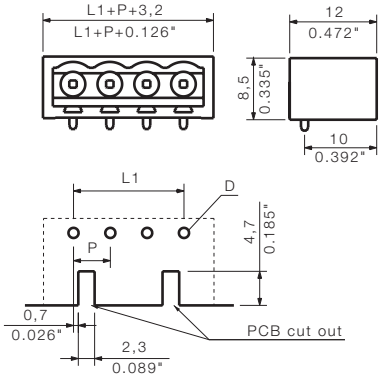
- Gold-plated contact surfaces on request
- Rated current related to rated cross-section & min. No. of poles.
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

SL-SMT 5.08/../270GL Box

Packaged in box



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm²			
Solid core H05(07) V-U	**mm²**			
Stranded H07 V-R				
Flexible H05(07) V-K	mm²			
Flexible with ferrule	mm²			
Ferrule with plastic collar	mm²			
Stripping length	mm			
Screwdriver blade	mm			
According to norm				
Tightening torque range	Nm			
Rated current, max.	**A**	**19**		**16**
At ambient temperature		20°C		40°C
For conductor cross-section	mm²			
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	**V**	**250**	**320**	**400**
Rated impulse voltage	kV	4	4	4
UL / CUL (Use Group)		**B**	**C**	**D**
Rated voltage	**V**	**300**		**300**
Rated current	**A**	**15**		**10**
AWG conductor	**AWG**		-	
CSA (Use Group)		**B**	**C**	**D**
Rated voltage	V	300		300
Rated current	A	15		10
AWG conductor	AWG		-	
General data				
Type of insulation material		LCP GF		
UL 94 flammability rating		V-0		
Contact base material		CuSn		
Material of contact surface		tinned		
Pin dimensions = d	mm	1.2, Octagonal		
Solder eyelet Ø = D	mm	1.4		
Solder eyelet Ø tolerance	mm	+ 0,1		

Accessories

Note: Refer to the Accessories chapter for additional accessories.

Coding		Order No.
	BLZ/SL KO OR	1573010000
	BLZ/SL KO SW	1545710000
Partition element		
	SL AT OR	1598300000
	SL AT SW	1770240000

Ordering data

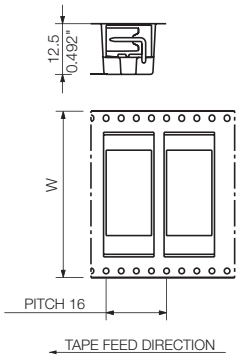
Solder pin length				1.5 mm	3.2 mm
Colour				Black	Black
Pitch	**5.08 mm**				
Pol.	L1	(inch)	Qty.	Order No.	Order No.
2	5.08	0.200	100	1877100000	1877470000
3	10.16	0.400	100	1877130000	1877490000
4	15.24	0.600	100	1877140000	1877510000
5	20.32	0.800	50	1877150000	1877520000
6	25.40	1.000	50	1877160000	1877530000
7	30.48	1.200	50	1877170000	1877540000
8	35.56	1.400	50	1877180000	1877550000

SL-SMT 5.08/../270GL Tape

Tape-on-reel



Dimensioned drawing



Ordering data

Solder pin length				1.5 mm
Colour				Black
Pitch	**5.08 mm**			
Pol.	L1	(inch)	Qty.	Order No.
2	5.08	0.200	350	1877740000
3	10.16	0.400	350	1877750000
4	15.24	0.600	350	1877760000
5	20.32	0.800	350	1877770000
6	25.40	1.000	350	1877780000
7	30.48	1.200	350	1877790000
8	35.56	1.400	350	1877800000

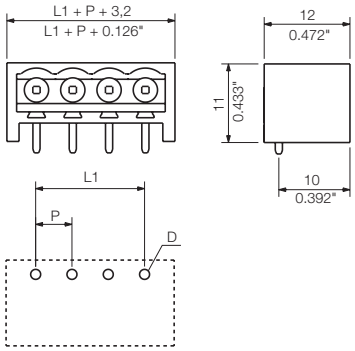
Tape widths: 32, 44, 56, 72, 88

SL-SMT 5.08/../270GH Box

Packaged in box



Dimensioned drawing



Ordering data

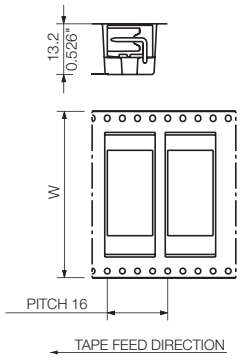
Solder pin length				1.5 mm	3.2 mm
Colour				Black	Black
Pitch	**5.08 mm**				
Pol.	L1	(inch)	Qty.	Order No.	Order No.
2	5.08	0.200	100	1876340000	1877370000
3	10.16	0.400	100	1877010000	1877380000
4	15.24	0.600	100	1877030000	1877390000
5	20.32	0.800	50	1877040000	1877400000
6	25.40	1.000	50	1877050000	1877410000
7	30.48	1.200	50	1877060000	1877420000
8	35.56	1.400	50	1877080000	1877450000

SL-SMT 5.08/../270GH Tape

Tape-on-reel



Dimensioned drawing

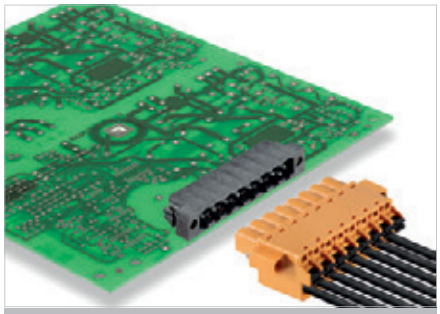


Ordering data

Solder pin length				1.5 mm
Colour				Black
Pitch	**5.08 mm**			
Pol.	L1	(inch)	Qty.	Order No.
2	5.08	0.200	335	1877560000
3	10.16	0.400	335	1877600000
4	15.24	0.600	335	1877610000
5	20.32	0.800	335	1877620000
6	25.40	1.000	265	1877630000
7	30.48	1.200	335	1877640000
8	35.56	1.400	285	1877650000

Tape widths: 32, 44, 56, 72, 88

SL-SMT 5.08/../270



High-temperature-resistant, 270°-angled male header, optimised for SMT processing. The male headers can be manually coded or ordered as pre-coded headers.

- Available in open, closed (G), with screw flange (F) or with solder Flange (LF).
- The solder flange substitutes a screw fastening to the PCB and protects the solder joints aganist mechanical stress.
- Available with 1.5 mm or 3.2 mm solder pins.
- The short 1.5 mm pins enable a double-sided PCB mounting and reduce the needed amount of solder paste without losing holding force to the PCB.
- Packed either in box (BX) or on anti-static roll (tape-on-reel, RL).

Product data

IEC: 400 V / 19 A
UL: 300 V / 15 A

For additional articles and information, refer to catalog.weidmueller.com

Note:

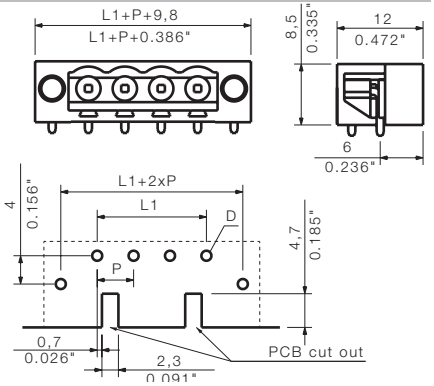
- Gold-plated contact surfaces on request
- Rated current related to rated cross-section & min. No. of poles.
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

SL-SMT 5.08/../270FL Box

Packaged in box; with solder flange



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm²			
Solid core H05(07) V-U	**mm²**			
Stranded H07 V-R				
Flexible H05(07) V-K	mm²			
Flexible with ferrule	mm²			
Ferrule with plastic collar	mm²			
Stripping length	mm			
Screwdriver blade	mm			
According to norm				
Tightening torque range	Nm			
Rated current, max.	**A**	**19**		**16**
At ambient temperature		20°C		40°C
For conductor cross-section	mm²			
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	**V**	**250**	**320**	**400**
Rated impulse voltage	kV	4	4	4
UL / CUL (Use Group)		**B**	**C**	**D**
Rated voltage	**V**	**300**		**300**
Rated current	**A**	**15**		**10**
AWG conductor	**AWG**		-	
CSA (Use Group)		**B**	**C**	**D**
Rated voltage	V	300		300
Rated current	A	15		10
AWG conductor	AWG		-	
General data				
Type of insulation material		LCP GF		
UL 94 flammability rating		V-0		
Contact base material		CuSn		
Material of contact surface		tinned		
Pin dimensions = d	mm	1.2, Octagonal		
Solder eyelet Ø = D	mm	1.4		
Solder eyelet Ø tolerance	mm	+ 0,1		

Accessories

Note: Refer to the Accessories chapter for additional accessories.

Coding		Order No.
	BLZ/SL KO OR	1573010000
	BLZ/SL KO SW	1545710000
Partition element		
	SL AT OR	1598300000
	SL AT SW	1770240000

Ordering data

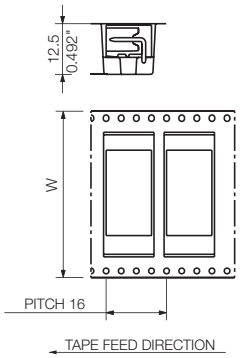
Solder pin length				1.5 mm	3.2 mm
Colour				Black	Black
Pitch	**5.08 mm**				
Pol.	L1	(inch)	**Qty.**	**Order No.**	**Order No.**
2	5.08	0.200	100	**1878090000**	**1876850000**
3	10.16	0.400	100	**1878110000**	**1876860000**
4	15.24	0.600	100	**1878120000**	**1876870000**
5	20.32	0.800	50	**1878130000**	**1876880000**
6	25.40	1.000	50	**1878140000**	**1876890000**
7	30.48	1.200	50	**1878150000**	**1876900000**
8	35.56	1.400	50	**1878160000**	**1876910000**

SL-SMT 5.08/../270FL Tape

Tape-on-reel; with solder flange



Dimensioned drawing



Ordering data

Solder pin length				1.5 mm
Colour				Black
Pitch	5.08 mm			
Pol.	L1	(inch)	Qty.	Order No.
2	5.08	0.200	350	1876990000
3	10.16	0.400	350	1877000000
4	15.24	0.600	350	1877020000
5	20.32	0.800	350	1877070000
6	25.40	1.000	350	1877090000
7	30.48	1.200	300	1877110000
8	35.56	1.400	300	1877120000

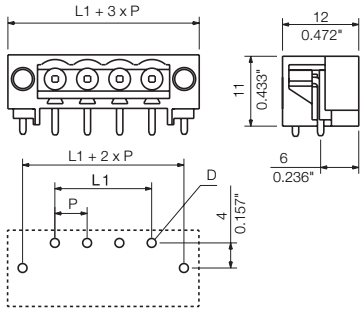
Tape widths: 32, 44, 56, 72, 88

SL-SMT 5.08/../270FH Box

Packaged in box; with solder flange



Dimensioned drawing



Ordering data

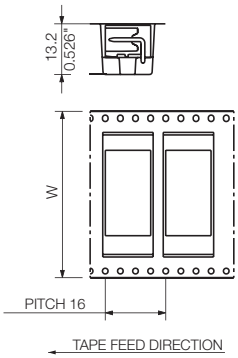
Solder pin length				1.5 mm	3.2 mm
Colour				Black	Black
Pitch	5.08 mm				
Pol.	L1	(inch)	Qty.	Order No.	Order No.
2	5.08	0.200	100	1877960000	1877190000
3	10.16	0.400	100	1877970000	1877210000
4	15.24	0.600	100	1877980000	1877330000
5	20.32	0.800	50	1877990000	1877430000
6	25.40	1.000	50	1878000000	1877460000
7	30.48	1.200	50	1878010000	1877480000
8	35.56	1.400	50	1878020000	1877500000

SL-SMT 5.08/../270FH Tape

Tape-on-reel; with solder flange



Dimensioned drawing

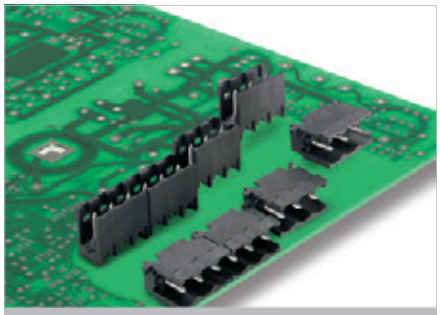


Ordering data

Solder pin length				1.5 mm
Colour				Black
Pitch	5.08 mm			
Pol.	L1	(inch)	Qty.	Order No.
2	5.08	0.200	335	1876920000
3	10.16	0.400	335	1876930000
4	15.24	0.600	335	1876940000
5	20.32	0.800	335	1876950000
6	25.40	1.000	335	1876960000
7	30.48	1.200	285	1876970000
8	35.56	1.400	285	1876980000

Tape widths: 32, 44, 56, 72, 88

SL-SMarT 5.0x/../90 & 180



High-temperature-resistant, modular male header, optimised for SMT processing. You can put together any size by using the 2-pole and 3-pole male header modules.

- Used with Pick & Place machines for faster processing speeds
- Less article numbers
- SL-SMarT covers both 5.00 and 5.08 mm pitches
- Efficient use of feeder bank: only two reel feeder positions are required on the feeder bank.
- High-pole male headers can also be processed with Pick & Place machines
- No Pick & Place pads required – thus no need for tedious pad removal after soldering
- Packed in tape-on-reel.

Product data

IEC: 400 V / 16.5 A
UL: 300 V / 15 A

For additional articles and information, refer to catalog.weidmueller.com

Note:

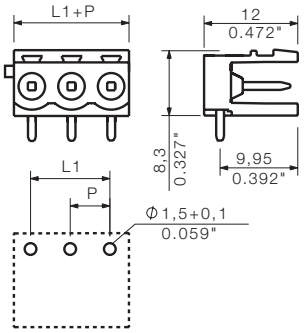
- Gold-plated contact surfaces on request
- Rated current related to rated cross-section & min. No. of poles.
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

SL-SMarT 5.0x/../90 Tape

Tape-on-reel



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm²			
Solid core H05(07) V-U	**mm²**			
Stranded H07 V-R				
Flexible H05(07) V-K	mm²			
Flexible with ferrule	mm²			
Ferrule with plastic collar	mm²			
Stripping length	mm			
Screwdriver blade	mm			
According to norm				
Tightening torque range	Nm			
Rated current, max.	**A**	**16.5**		**14**
At ambient temperature		20°C		40°C
For conductor cross-section	mm²			
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	**V**	**250**	**320**	**400**
Rated impulse voltage	kV	4	4	4
UL / CUL (Use Group)		**B**	**C**	**D**
Rated voltage	**V**	**300**		**300**
Rated current	**A**	**15**		**10**
AWG conductor	**AWG**		-	
CSA (Use Group)		**B**	**C**	**D**
Rated voltage	V	300		300
Rated current	A	15		10
AWG conductor	AWG		-	
General data				
Type of insulation material		LCP GF		
UL 94 flammability rating		V-0		
Contact base material		CuSn		
Material of contact surface		tinned		
Pin dimensions = d	mm	1.2, Octagonal		
Solder eyelet Ø = D	mm	1.4		
Solder eyelet Ø tolerance	mm	+ 0,1		

Accessories

Note: Refer to the Accessories chapter for additional accessories.

Coding		Order No.
	BLZ/SL KO OR	**1573010000**
	BLZ/SL KO SW	**1545710000**
Partition element		
	SL AT OR	**1598300000**
	SL AT SW	**1770240000**
LED light guide		
	SL FLA 1.5/1	**1580100000**
	SL FLA 1.5/24	**1595850000**
	SL FLA 2,3/1	**1636670000**
	SL FLA 2,3/24	**1636680000**
	SL FLA 3.8/1	**1580110000**
	SL FLA 3.8/24	**1595860000**
	SL FLA 9.0/1	**1580120000**
	SL FLA 9.0/24	**1595870000**

Ordering data

Solder pin length				1.5 mm
Colour				Black
Pitch	**5.00 mm**			
Pol.	L1	(inch)	**Qty.**	**Order No.**
2	5.08	0.200	350	**1812430000**
3	10.16	0.400	350	**1812440000**

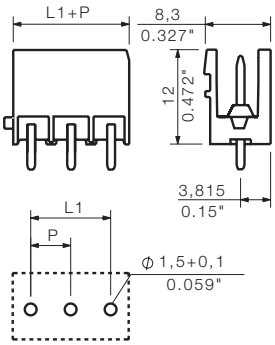
Tape widths: 32
May be used for 5.00 and 5.08 mm pitches

SL-SMarT 5.0x/../180 Tape

Tape-on-reel



Dimensioned drawing



Ordering data

Solder pin length				1.5 mm
Colour				Black
Pitch	**5.00 mm**			
Pol.	L1	(inch)	**Qty.**	**Order No.**
2	5.08	0.200	270	**1812450000**
3	10.16	0.400	270	**1812460000**

Tape widths: 32
May be used for 5.00 and 5.08 mm pitches

SL-SMarT

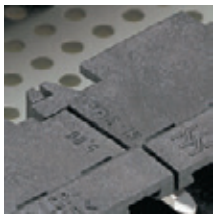
The SL-SMarT System was developed in order to bring even further improvements to the benefits of conventional SMT/THR components.
The aim was to satisfy the numerous demands of automatic PCB assembly.
The result is a male connector with the following features:

- Minimum weight
- Compact form
- Processing in automatic PCB assembly machines
- Maximum assembly speed
- Standardised automatic packing
- Space-saving feeding in automatic machines (feeder as narrow as possible)
- No pick&place pad required

Automatic PCB assembly machines operate most cost-effectively when they run at maximum speed. This is not possible with heavy components.
The solution is to use 2- and 3-pole male connector modules to interconnect components of any size.
Therefore, by assembling the SL-SMarT modules in one row, 23 standard male connectors (2- to 24-pole) can already be created.
The optimum tolerance design of the SL-SMarT modules enables the use at pitches of 5.00 mm (0.197 inch) and 5.08 mm (0.200 inch).
The small pitch deviation is compensated for by the spacing to the next module.

The trick is that by using the appropriate hole layout, the number of standard male connectors replaced increases from 23 to 46 variations.

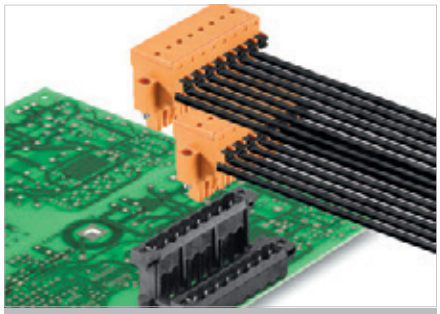




And the fact that two plug-in directions are available, 90° and 180°, means that the result is increased to 92 variations.

The optimum use of the feeder bank is possible thanks to the need for only four belt conveyor systems with a belt width of 32 mm each.

SLDV-THR 5.08/../180



Double-level, high-temperature-resistant male header, optimised for SMT processing. The connection levels are offset and designed for a female plug with screw connection or PUSH IN wire connect. The male headers can be manually coded or ordered as pre-coded headers.

- Available with screw flange (F) or screw & solder flange (FLF).
- The solder flange makes an additional screw-fixation to the PCB unnecessary and protects the solder joints against mechanical stress.
- Available with 1.5 mm or 3.2 mm solder pins.
- The FLF version is featured with a soldering flange and an additional screw-fastening possibility to the PCB.

Product data

IEC: 400 V / 15 A
UL: 300 V / 10 A

For additional articles and information, refer to catalog.weidmueller.com

Note:

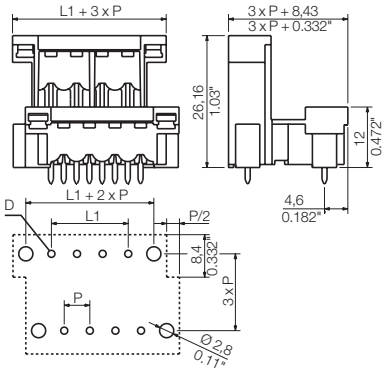
- Rated current related to rated cross-section & min. No. of poles.
- Spacing between rows: see hole layout
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

SLDV-THR 5.08/../180F

Packaged in box



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm²			
Solid core H05(07) V-U	**mm²**			
Stranded H07 V-R				
Flexible H05(07) V-K	mm²			
Flexible with ferrule	mm²			
Ferrule with plastic collar	mm²			
Stripping length	mm			
Screwdriver blade	mm			
According to norm				
Tightening torque range	Nm			
Rated current, max.	**A**	**15**		**13**
At ambient temperature		20°C		40°C
For conductor cross-section	mm²			
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	**V**	**250**	**320**	**400**
Rated impulse voltage	kV	4	4	4
UL / CUL (Use Group)		**B**	**C**	**D**
Rated voltage	**V**	**300**		**300**
Rated current	**A**	**10**		**10**
AWG conductor	**AWG**		-	
CSA (Use Group)		**B**	**C**	**D**
Rated voltage	V	300		300
Rated current	A	10		10
AWG conductor	AWG		-	
General data				
Type of insulation material		LCP GF		
UL 94 flammability rating		V-0		
Contact base material		CuSn		
Material of contact surface		tinned		
Pin dimensions = d	mm	1.2, Octagonal		
Solder eyelet Ø = D	mm	1.5		
Solder eyelet Ø tolerance	mm	+ 0,1		

Accessories

Note: Refer to the Accessories chapter for additional accessories.

Coding		Order No.
	BLZ/SL KO OR	1573010000
	BLZ/SL KO SW	1545710000
Partition element		
	SL AT OR	1598300000
	SL AT SW	1770240000

Ordering data

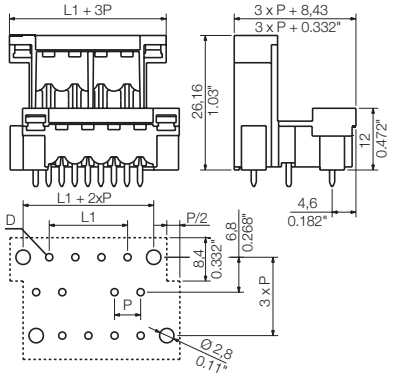
Solder pin length				1.5 mm	3.2 mm
Colour				Black	Black
Pitch	**5.08 mm**				
Pol.	L1	(inch)	**Qty.**	**Order No.**	**Order No.**
4	5.08	0.200	50	1828890000	1828770000
6	10.16	0.400	50	1828900000	1828780000
8	15.24	0.600	50	1828910000	1828790000
10	20.32	0.800	50	1828920000	1828800000
12	25.40	1.000	50	1828930000	1828810000
14	30.48	1.200	20	1828940000	1828820000
16	35.56	1.400	20	1828950000	1828830000
18	40.64	1.600	20	1828960000	1828840000
20	45.72	1.800	20	1828970000	1828850000
22	50.80	2.000	10	1828980000	1828860000
24	55.88	2.200	10	1828990000	1828870000
26	60.96	2.400	10	1829000000	1828880000
28	66.04	2.600	10	1881310000	1889340000
30	71.12	2.800	10	1881320000	1889350000
32	76.20	3.000	10	1881330000	1866330000
34	81.28	3.200	10	1881350000	1889360000
36	86.36	3.400	10	1881360000	1889370000
38	91.44	3.600	10	1881380000	1889380000
40	96.52	3.800	10	1881410000	1889390000
42	101.60	4.000	10	1881430000	1889400000
44	106.68	4.200	10	1881440000	1889410000
46	111.76	4.400	10	1881450000	1889420000
48	116.84	4.600	10	1881460000	1889430000

SLDV-THR 5.08/../180FLF

Packaged in box; with solder flange



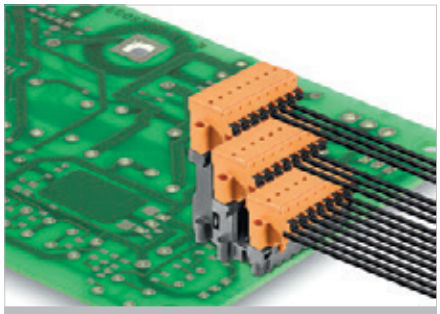
Dimensioned drawing



Ordering data

Solder pin length				1.5 mm	3.2 mm
Colour				Black	Black
Pitch	**5.08 mm**				
Pol.	L1	(inch)	Qty.	Order No.	Order No.
4	5.08	0.200	50	1829130000	1829010000
6	10.16	0.400	50	1829140000	1829020000
8	15.24	0.600	50	1829150000	1829030000
10	20.32	0.800	50	1829160000	1829040000
12	25.40	1.000	50	1829170000	1829050000
14	30.48	1.200	20	1829180000	1829060000
16	35.56	1.400	20	1829190000	1829070000
18	40.64	1.600	20	1829200000	1829080000
20	45.72	1.800	20	1829210000	1829090000
22	50.80	2.000	10	1829220000	1829100000
24	55.88	2.200	10	1829230000	1829110000
26	60.96	2.400	10	1829240000	1829120000
28	66.04	2.600	10	1881480000	1889200000
30	71.12	2.800	10	1881500000	1889210000
32	76.20	3.000	10	1881510000	1866320000
34	81.28	3.200	10	1881520000	1889220000
36	86.36	3.400	10	1881530000	1889270000
38	91.44	3.600	10	1881540000	1889280000
40	96.52	3.800	10	1881550000	1889290000
42	101.60	4.000	10	1881560000	1889300000
44	106.68	4.200	10	1881570000	1889310000
46	111.76	4.400	10	1881580000	1889320000
48	116.84	4.600	10	1881590000	1889330000

SLH-THR 5.08/../180



High temperature-resistant male header, optimised for SMT processing. Makes a compact 3-row male header when used together with the SLDV-THR. The connection levels are offset and designed for a female plug with screw connection or PUSH IN wire connect. The male headers can be manually coded or ordered as pre-coded headers.

Product data

IEC: 320 V / 18 A
UL: 300 V / 10 A

For additional articles and information, refer to catalog.weidmueller.com

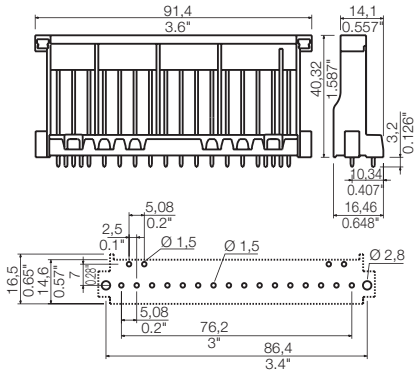
Note:

- Rated current related to rated cross-section & min. No. of poles.
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

SLH-THR 5.08/../180F



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm²			
Solid core H05(07) V-U	**mm²**			
Stranded H07 V-R				
Flexible H05(07) V-K	mm²			
Flexible with ferrule	mm²			
Ferrule with plastic collar	mm²			
Stripping length	mm			
Screwdriver blade	mm			
According to norm				
Tightening torque range	Nm			
Rated current, max.	**A**	**18**		**13**
At ambient temperature		20°C		40°C
For conductor cross-section	mm²			
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	**V**	**200**	**320**	**320**
Rated impulse voltage	kV	4	4	4
UL / CUL (Use Group)		**B**	**C**	**D**
Rated voltage	**V**	**300**		**300**
Rated current	**A**	**10**		**10**
AWG conductor	**AWG**		-	
CSA (Use Group)		**B**	**C**	**D**
Rated voltage	V	300		300
Rated current	A	13		10
AWG conductor	AWG		-	
General data				
Type of insulation material		LCP GF		
UL 94 flammability rating		V-0		
Contact base material		CuSn		
Material of contact surface		tinned		
Pin dimensions = d	mm	1.2, Octagonal		
Solder eyelet Ø = D	mm	1.5		
Solder eyelet Ø tolerance	mm	+ 0,1		

Accessories

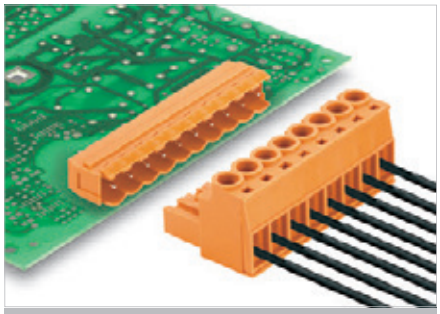
Note: Refer to the Accessories chapter for additional accessories.

Coding		Order No.
	BLZ/SL KO OR	**1573010000**
	BLZ/SL KO SW	**1545710000**
Partition element		
	SL AT OR	**1598300000**
	SL AT SW	**1770240000**

Ordering data

Solder pin length				3.2 mm
Colour				Black
Pitch	**5.08 mm**			
Pol.	L1	(inch)	**Qty.**	**Order No.**
16	91.40	3.600	10	**1190600000**

SL 5.08HC/../90



Male headers made from glass-fibre-reinforced plastic with 90° wire outlet; optimised for wave soldering, absolut dimension stable. The male headers can be manually coded or ordered as pre-coded headers.

- Available in open, closed (G), with screw flange (F) or with solder Flange (LF).
- The solder flange makes an additional screw-fixation to the PCB unnecessary and protects the solder joints against mechanical stress.

Product data

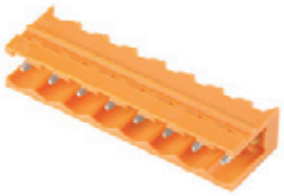
IEC: 400 V / 24 A
UL: 300 V / 15 A

For additional articles and information, refer to catalog.weidmueller.com

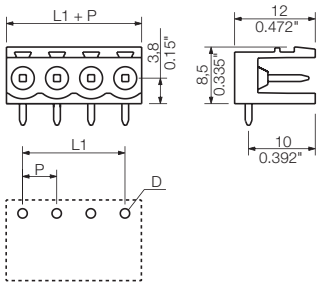
Note:

- Additional colours on request
- Gold-plated contact surfaces on request
- Rated current related to rated cross-section & min. No. of poles.
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

SL 5.08HC/../90



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm²			
Solid core H05(07) V-U	**mm²**			
Stranded H07 V-R				
Flexible H05(07) V-K	mm²			
Flexible with ferrule	mm²			
Ferrule with plastic collar	mm²			
Stripping length	mm			
Screwdriver blade	mm			
According to norm				
Tightening torque range	Nm			
Rated current, max.	**A**	**24**		**21**
At ambient temperature		20°C		40°C
For conductor cross-section	mm²			
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	**V**	**250**	**320**	**400**
Rated impulse voltage	kV	4	4	4
UL / CUL (Use Group)		**B**	**C**	**D**
Rated voltage	**V**	**300**		**300**
Rated current	**A**	**15**		**10**
AWG conductor	**AWG**		-	
CSA (Use Group)		**B**	**C**	**D**
Rated voltage	V	300		300
Rated current	A	15		10
AWG conductor	AWG		-	
General data				
Type of insulation material		PA GF		
UL 94 flammability rating		V-0		
Contact base material		Copper alloy		
Material of contact surface		tinned		
Pin dimensions = d	mm	1.2, Octagonal		
Solder eyelet Ø = D	mm	1.3		
Solder eyelet Ø tolerance	mm	+ 0,1		

Accessories

Note: Refer to the Accessories chapter for additional accessories.

Coding		Order No.
	BLZ/SL KO OR	1573010000
	BLZ/SL KO SW	1545710000
Partition element		
	SL AT OR	1598300000
	SL AT SW	1770240000
LED light guide		
	SL FLA 1.5/1	1580100000
	SL FLA 1.5/24	1595850000
	SL FLA 2,3/1	1636670000
	SL FLA 2,3/24	1636680000
	SL FLA 3.8/1	1580110000
	SL FLA 3.8/24	1595860000
	SL FLA 9.0/1	1580120000
	SL FLA 9.0/24	1595870000
Mounting block		
	SLA BB11R OR	1604120000
	SLA BB11R SW	1692340000

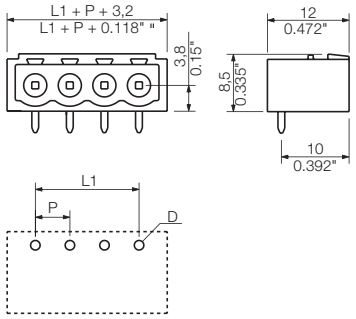
Ordering data

Solder pin length				3.2 mm	3.2 mm
Colour				Orange	Black
Pitch	**5.08 mm**				
Pol.	L1	(inch)	**Qty.**	**Order No.**	**Order No.**
2	5.08	0.200	100	1146720000	1155030000
3	10.16	0.400	100	1146740000	1155040000
4	15.24	0.600	100	1146770000	1155050000
5	20.32	0.800	50	1146790000	1155060000
6	25.40	1.000	50	1146810000	1155070000
7	30.48	1.200	50	1146830000	1155080000
8	35.56	1.400	50	1146850000	1155090000
9	40.64	1.600	50	1146880000	1155100000
10	45.72	1.800	50	1146900000	1155130000
11	50.80	2.000	50	1146920000	1155140000
12	55.88	2.200	50	1146940000	1155150000
13	60.96	2.400	50	1146970000	1155170000
14	66.04	2.600	50	1146990000	1155180000
15	71.12	2.800	50	1147010000	1155190000
16	76.20	3.000	50	1147030000	1155200000
17	81.28	3.200	20	1147050000	1155230000
18	86.36	3.400	20	1147080000	1155240000
19	91.44	3.600	20	1147100000	1155250000
20	96.52	3.800	20	1147120000	1155270000
21	101.60	4.000	20	1147150000	1155280000
22	106.68	4.200	20	1147190000	1155290000
23	111.76	4.400	20	1147220000	1155300000
24	116.84	4.600	20	1147250000	1155310000

SL 5.08HC/../90G



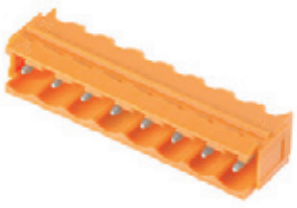
Dimensioned drawing



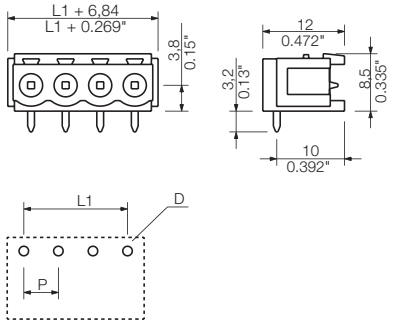
Ordering data

Solder pin length				3.2 mm	3.2 mm
Colour				Orange	Black
Pitch	**5.08 mm**				
Pol.	L1	(inch)	Qty.	Order No.	Order No.
2	5.08	0.200	100	1147280000	1155320000
3	10.16	0.400	100	1147310000	1155330000
4	15.24	0.600	100	1147340000	1155340000
5	20.32	0.800	50	1147370000	1155350000
6	25.40	1.000	50	1147400000	1155370000
7	30.48	1.200	50	1147420000	1155380000
8	35.56	1.400	50	1147450000	1155390000
9	40.64	1.600	50	1147490000	1155400000
10	45.72	1.800	50	1147530000	1155410000
11	50.80	2.000	50	1147570000	1155420000
12	55.88	2.200	50	1147600000	1155430000
13	60.96	2.400	50	1147630000	1155440000
14	66.04	2.600	50	1147680000	1155450000
15	71.12	2.800	50	1147700000	1155470000
16	76.20	3.000	50	1147740000	1155480000
17	81.28	3.200	20	1147780000	1155490000
18	86.36	3.400	20	1147810000	1155500000
19	91.44	3.600	20	1147840000	1155510000
20	96.52	3.800	20	1147880000	1155520000
21	101.60	4.000	20	1147910000	1155530000
22	106.68	4.200	20	1147940000	1155540000
23	111.76	4.400	20	1147980000	1155550000
24	116.84	4.600	20	1148000000	1155570000

SL 5.08HC/../90B



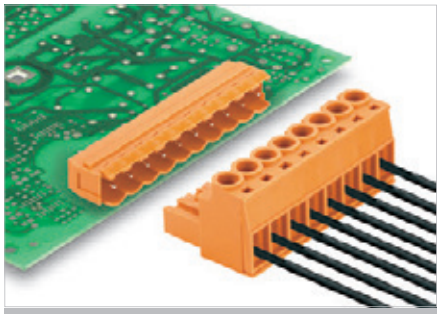
Dimensioned drawing



Ordering data

Solder pin length				3.2 mm	3.2 mm
Colour				Orange	Black
Pitch	**5.08 mm**				
Pol.	L1	(inch)	Qty.	Order No.	Order No.
2	5.08	0.200	100	1148030000	1155580000
3	10.16	0.400	100	1148070000	1155590000
4	15.24	0.600	100	1148100000	1155600000
5	20.32	0.800	50	1148130000	1155610000
6	25.40	1.000	50	1148170000	1155620000
7	30.48	1.200	50	1148200000	1155630000
8	35.56	1.400	50	1154830000	1155640000
9	40.64	1.600	50	1154840000	1155650000
10	45.72	1.800	50	1154850000	1155670000
11	50.80	2.000	50	1154870000	1155680000
12	55.88	2.200	50	1154880000	1155690000
13	60.96	2.400	50	1154890000	1155700000
14	66.04	2.600	50	1154900000	1155710000
15	71.12	2.800	50	1154910000	1155720000
16	76.20	3.000	50	1154920000	1155730000
17	81.28	3.200	20	1154930000	1155740000
18	86.36	3.400	20	1154940000	1155750000
19	91.44	3.600	20	1154950000	1155770000
20	96.52	3.800	20	1154970000	1155780000
21	101.60	4.000	20	1154980000	1155790000
22	106.68	4.200	20	1154990000	1155800000
23	111.76	4.400	20	1155010000	1155810000
24	116.84	4.600	20	1155020000	1155820000

SL 5.08HC/../90



Male headers made from glass-fibre-reinforced plastic with 90° wire outlet; optimised for wave soldering, absolut dimension stable. The male headers can be manually coded or ordered as pre-coded headers.

- Available in open, closed (G), with screw flange (F) or with solder Flange (LF).
- The solder flange makes an additional screw-fixation to the PCB unnecessary and protects the solder joints against mechanical stress.

Product data

IEC: 400 V / 24 A
UL: 300 V / 15 A

For additional articles and information, refer to catalog.weidmueller.com

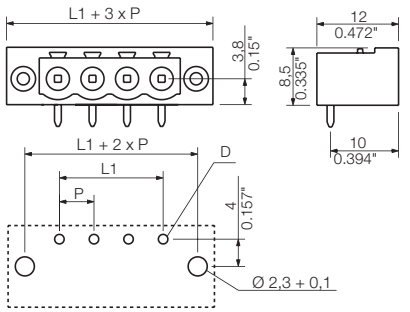
Note:

- Additional colours on request
- Gold-plated contact surfaces on request
- Rated current related to rated cross-section & min. No. of poles.
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

SL 5.08HC/../90F



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm²			
Solid core H05(07) V-U	**mm²**			
Stranded H07 V-R				
Flexible H05(07) V-K	mm²			
Flexible with ferrule	mm²			
Ferrule with plastic collar	mm²			
Stripping length	mm			
Screwdriver blade	mm			
According to norm				
Tightening torque range	Nm			
Rated current, max.	**A**	**24**		**21**
At ambient temperature		20°C		40°C
For conductor cross-section	mm²			
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	**V**	**250**	**320**	**400**
Rated impulse voltage	kV	4	4	4
UL / CUL (Use Group)		**B**	**C**	**D**
Rated voltage	**V**	**300**		**300**
Rated current	**A**	**15**		**10**
AWG conductor	**AWG**		-	
CSA (Use Group)		**B**	**C**	**D**
Rated voltage	V	300		300
Rated current	A	15		10
AWG conductor	AWG		-	
General data				
Type of insulation material		PA GF		
UL 94 flammability rating		V-0		
Contact base material		Copper alloy		
Material of contact surface		tinned		
Pin dimensions = d	mm	1.2, Octagonal		
Solder eyelet Ø = D	mm	1.3		
Solder eyelet Ø tolerance	mm	+ 0,1		

Accessories

Note: Refer to the Accessories chapter for additional accessories.

Coding		Order No.
	BLZ/SL KO OR	1573010000
	BLZ/SL KO SW	1545710000
Partition element		
	SL AT OR	1598300000
	SL AT SW	1770240000
LED light guide		
	SL FLA 1.5/1	1580100000
	SL FLA 1.5/24	1595850000
	SL FLA 2,3/1	1636670000
	SL FLA 2,3/24	1636680000
	SL FLA 3.8/1	1580110000
	SL FLA 3.8/24	1595860000
	SL FLA 9.0/1	1580120000
	SL FLA 9.0/24	1595870000

Ordering data

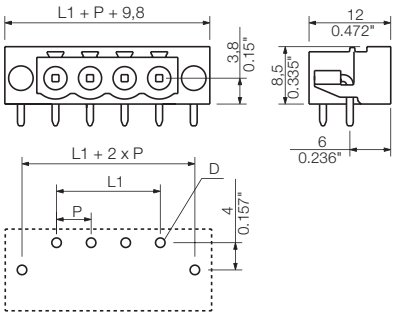
Solder pin length				3.2 mm	3.2 mm
Colour				Orange	Black
Pitch	**5.08 mm**				
Pol.	L1	(inch)	**Qty.**	**Order No.**	**Order No.**
2	5.08	0.200	100	1148610000	1150090000
3	10.16	0.400	100	1148640000	1150100000
4	15.24	0.600	100	1148680000	1150110000
5	20.32	0.800	50	1148710000	1150120000
6	25.40	1.000	50	1148740000	1150130000
7	30.48	1.200	50	1148780000	1150140000
8	35.56	1.400	50	1148810000	1150150000
9	40.64	1.600	50	1148840000	1150170000
10	45.72	1.800	50	1148880000	1150180000
11	50.80	2.000	50	1148910000	1150190000
12	55.88	2.200	50	1148940000	1150200000
13	60.96	2.400	50	1148980000	1150210000
14	66.04	2.600	50	1149010000	1150220000
15	71.12	2.800	50	1149040000	1150230000
16	76.20	3.000	50	1149080000	1150240000
17	81.28	3.200	20	1149110000	1150250000
18	86.36	3.400	20	1149140000	1150270000
19	91.44	3.600	20	1149180000	1150280000
20	96.52	3.800	20	1149210000	1150290000
21	101.60	4.000	20	1149240000	1150300000
22	106.68	4.200	20	1149280000	1150310000
23	111.76	4.400	20	1149310000	1150320000
24	116.84	4.600	20	1149340000	1150330000

SL 5.08HC/../90LF

with solder flange

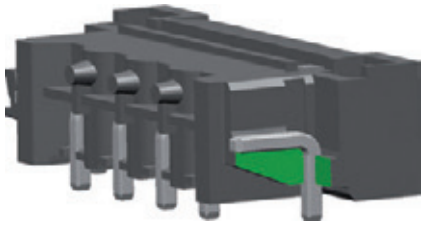


Dimensioned drawing



Solder flange (LF)

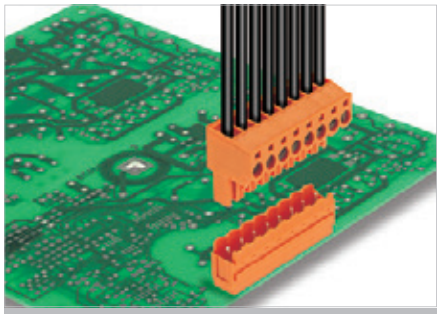
Normally you use a pin header with fastening flanges (F) in combination with a screw from the rear side of the PCB to increase the fixation forces of the pin headers.
The disadvantages are additional process steps that make the PCB mounting complex and cost intensive.
The patented solder flange was designed to solve exactly this problem and find a simple and cheap solution. The additional solder pins substitute the present screw flanges and they get soldered together with the pin header.
This terminates additional process steps and thus reduces production costs. The additional fixation protects the soldered connections from tensile strain and avoids permanent mechanical stress such as caused by the post-fastened screw forces.



Ordering data

Solder pin length				3.2 mm	3.2 mm
Colour				Orange	Black
Pitch	**5.08 mm**				
Pol.	L1	(inch)	Qty.	Order No.	Order No.
2	5.08	0.200	100	1149380000	1150340000
3	10.16	0.400	100	1149410000	1150350000
4	15.24	0.600	100	1149440000	1150370000
5	20.32	0.800	50	1149480000	1150380000
6	25.40	1.000	50	1149510000	1150390000
7	30.48	1.200	50	1149540000	1150400000
8	35.56	1.400	50	1149580000	1150410000
9	40.64	1.600	50	1149610000	1150420000
10	45.72	1.800	50	1149640000	1150430000
11	50.80	2.000	50	1149680000	1150440000
12	55.88	2.200	50	1149710000	1150450000
13	60.96	2.400	50	1149740000	1150470000
14	66.04	2.600	50	1149780000	1150480000
15	71.12	2.800	50	1149810000	1150490000
16	76.20	3.000	50	1149840000	1150500000
17	81.28	3.200	20	1149880000	1150510000
18	86.36	3.400	20	1149910000	1150520000
19	91.44	3.600	20	1149940000	1150530000
20	96.52	3.800	20	1149980000	1150540000
21	101.60	4.000	20	1150000000	1150550000
22	106.68	4.200	20	1150020000	1150570000
23	111.76	4.400	20	1150040000	1150580000
24	116.84	4.600	20	1150070000	1150590000

SL 5.08HC/../180



Male headers made from glass-fibre-reinforced plastic with 180° wire outlet; optimised for wave soldering, absolut dimension stable. The male headers can be manually coded or ordered as pre-coded headers.

- Available in open, closed (G), with screw flange (F) or with solder Flange (LF).
- The solder flange makes an additional screw-fixation to the PCB unnecessary and protects the solder joints against mechanical stress.

Product data

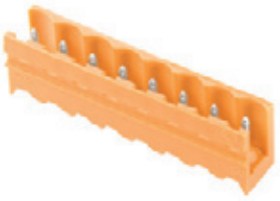
IEC: 400 V / 24 A
UL: 300 V / 16 A

For additional articles and information, refer to catalog.weidmueller.com

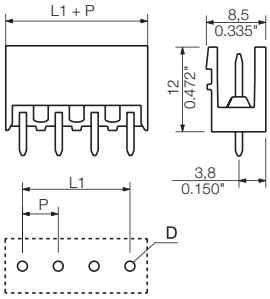
Note:

- Additional colours on request
- Gold-plated contact surfaces on request
- Rated current related to rated cross-section & min. No. of poles.
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

SL 5.08HC/../180



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm²			
Solid core H05(07) V-U	**mm²**			
Stranded H07 V-R				
Flexible H05(07) V-K	mm²			
Flexible with ferrule	mm²			
Ferrule with plastic collar	mm²			
Stripping length	mm			
Screwdriver blade	mm			
According to norm				
Tightening torque range	Nm			
Rated current, max.	**A**	**24**		**21**
At ambient temperature		20°C		40°C
For conductor cross-section	mm²			
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	**V**	**250**	**320**	**400**
Rated impulse voltage	kV	4	4	4
UL / CUL (Use Group)		**B**	**C**	**D**
Rated voltage	**V**	**300**		**300**
Rated current	**A**	**16**		**10**
AWG conductor	**AWG**		-	
CSA (Use Group)		**B**	**C**	**D**
Rated voltage	V	300		300
Rated current	A	15		10
AWG conductor	AWG		-	
General data				
Type of insulation material		PA GF		
UL 94 flammability rating		V-0		
Contact base material		Copper alloy		
Material of contact surface		tinned		
Pin dimensions = d	mm	1.2, Octagonal		
Solder eyelet Ø = D	mm	1.3		
Solder eyelet Ø tolerance	mm	+ 0,1		

Accessories

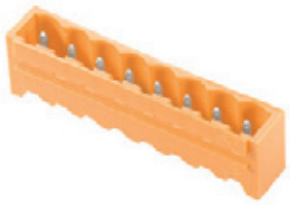
Note: Refer to the Accessories chapter for additional accessories.

Coding		Order No.
	BLZ/SL KO OR	1573010000
	BLZ/SL KO SW	1545710000
Partition element		
	SL AT OR	1598300000
	SL AT SW	1770240000
Mounting block		
	SLA BB11R OR	1604120000
	SLA BB11R SW	1692340000

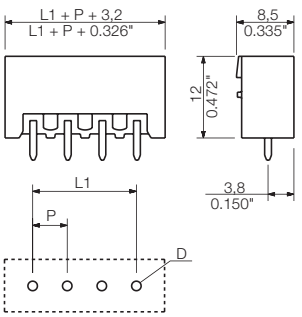
Ordering data

Solder pin length				3.2 mm	3.2 mm
Colour				Orange	Black
Pitch	**5.08 mm**				
Pol.	L1	(inch)	**Qty.**	**Order No.**	**Order No.**
2	5.08	0.200	100	1146320000	1148080000
3	10.16	0.400	100	1146340000	1148110000
4	15.24	0.600	100	1146380000	1148140000
5	20.32	0.800	50	1146410000	1148180000
6	25.40	1.000	50	1146450000	1148210000
7	30.48	1.200	50	1146470000	1148230000
8	35.56	1.400	50	1146490000	1148250000
9	40.64	1.600	50	1146510000	1148270000
10	45.72	1.800	50	1146530000	1148290000
11	50.80	2.000	50	1146550000	1148310000
12	55.88	2.200	50	1146570000	1148330000
13	60.96	2.400	50	1146580000	1148350000
14	66.04	2.600	50	1146590000	1148370000
15	71.12	2.800	50	1146600000	1148390000
16	76.20	3.000	50	1146610000	1148410000
17	81.28	3.200	20	1146620000	1148430000
18	86.36	3.400	20	1146630000	1148450000
19	91.44	3.600	20	1146640000	1148480000
20	96.52	3.800	20	1146650000	1148510000
21	101.60	4.000	20	1146680000	1148530000
22	106.68	4.200	20	1146690000	1148550000
23	111.76	4.400	20	1146700000	1148580000
24	116.84	4.600	20	1146710000	1148600000

SL 5.08HC/../180G



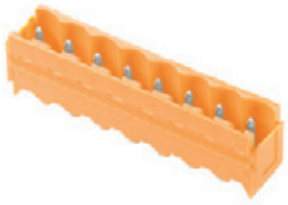
Dimensioned drawing



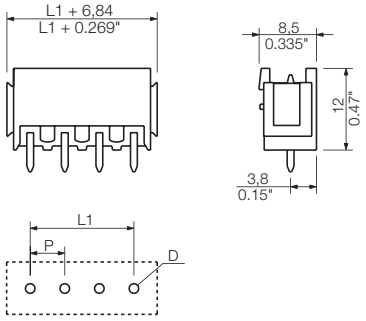
Ordering data

Solder pin length				3.2 mm	3.2 mm
Colour				Orange	Black
Pitch	**5.08 mm**				
Pol.	L1	(inch)	Qty.	Order No.	Order No.
2	5.08	0.200	100	1146730000	1148630000
3	10.16	0.400	100	1146750000	1148670000
4	15.24	0.600	100	1146780000	1148700000
5	20.32	0.800	50	1146800000	1148730000
6	25.40	1.000	50	1146820000	1148770000
7	30.48	1.200	50	1146840000	1148800000
8	35.56	1.400	50	1146870000	1148830000
9	40.64	1.600	50	1146890000	1148870000
10	45.72	1.800	50	1146910000	1148900000
11	50.80	2.000	50	1146930000	1148930000
12	55.88	2.200	50	1146950000	1148970000
13	60.96	2.400	50	1146980000	1149000000
14	66.04	2.600	50	1147000000	1149030000
15	71.12	2.800	50	1147020000	1149070000
16	76.20	3.000	50	1147040000	1149100000
17	81.28	3.200	20	1147070000	1149130000
18	86.36	3.400	20	1147090000	1149170000
19	91.44	3.600	20	1147110000	1149200000
20	96.52	3.800	20	1147140000	1149230000
21	101.60	4.000	20	1147180000	1149270000
22	106.68	4.200	20	1147210000	1149300000
23	111.76	4.400	20	1147240000	1149330000
24	116.84	4.600	20	1147270000	1149370000

SL 5.08HC/../180B



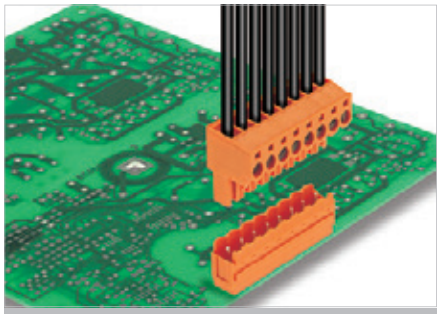
Dimensioned drawing



Ordering data

Solder pin length				3.2 mm	3.2 mm
Colour				Orange	Black
Pitch	**5.08 mm**				
Pol.	L1	(inch)	Qty.	Order No.	Order No.
2	5.08	0.200	100	1147300000	1149400000
3	10.16	0.400	100	1147330000	1149430000
4	15.24	0.600	100	1147360000	1149470000
5	20.32	0.800	50	1147390000	1149500000
6	25.40	1.000	50	1147430000	1149530000
7	30.48	1.200	50	1147470000	1149570000
8	35.56	1.400	50	1147510000	1149600000
9	40.64	1.600	50	1147540000	1149630000
10	45.72	1.800	50	1147580000	1149670000
11	50.80	2.000	50	1147610000	1149700000
12	55.88	2.200	50	1147640000	1149730000
13	60.96	2.400	50	1147670000	1149770000
14	66.04	2.600	50	1147710000	1149800000
15	71.12	2.800	50	1147730000	1149830000
16	76.20	3.000	50	1147770000	1149870000
17	81.28	3.200	20	1147800000	1149900000
18	86.36	3.400	20	1147830000	1149930000
19	91.44	3.600	20	1147870000	1149970000
20	96.52	3.800	20	1147900000	1149990000
21	101.60	4.000	20	1147930000	1150010000
22	106.68	4.200	20	1147970000	1150030000
23	111.76	4.400	20	1148010000	1150050000
24	116.84	4.600	20	1148040000	1150080000

SL 5.08HC/../180



Male headers made from glass-fibre-reinforced plastic with 180° wire outlet; optimised for wave soldering, absolut dimension stable. The male headers can be manually coded or ordered as pre-coded headers.

- Available in open, closed (G), with screw flange (F) or with solder Flange (LF).
- The solder flange makes an additional screw-fixation to the PCB unnecessary and protects the solder joints against mechanical stress.

Product data

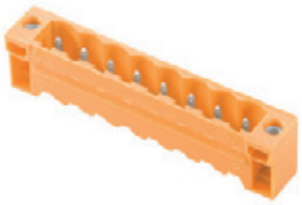
IEC: 400 V / 24 A
UL: 300 V / 16 A

For additional articles and information, refer to catalog.weidmueller.com

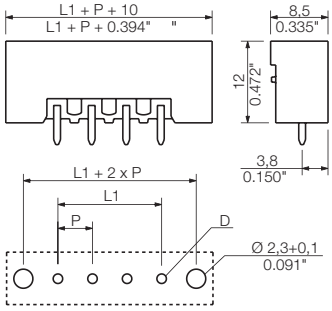
Note:

- Additional colours on request
- Gold-plated contact surfaces on request
- Rated current related to rated cross-section & min. No. of poles.
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

SL 5.08HC/../180F



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm²			
Solid core H05(07) V-U	**mm²**			
Stranded H07 V-R				
Flexible H05(07) V-K	mm²			
Flexible with ferrule	mm²			
Ferrule with plastic collar	mm²			
Stripping length	mm			
Screwdriver blade	mm			
According to norm				
Tightening torque range	Nm			
Rated current, max.	**A**	**24**		**21**
At ambient temperature		20°C		40°C
For conductor cross-section	mm²			
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	**V**	**250**	**320**	**400**
Rated impulse voltage	kV	4	4	4
UL / CUL (Use Group)		**B**	**C**	**D**
Rated voltage	**V**	**300**		**300**
Rated current	**A**	**16**		**10**
AWG conductor	**AWG**		-	
CSA (Use Group)		**B**	**C**	**D**
Rated voltage	V	300		300
Rated current	A	15		10
AWG conductor	AWG		-	
General data				
Type of insulation material		PA GF		
UL 94 flammability rating		V-0		
Contact base material		Copper alloy		
Material of contact surface		tinned		
Pin dimensions = d	mm	1.2, Octagonal		
Solder eyelet Ø = D	mm	1.3		
Solder eyelet Ø tolerance	mm	+ 0,1		

Accessories

Note: Refer to the Accessories chapter for additional accessories.

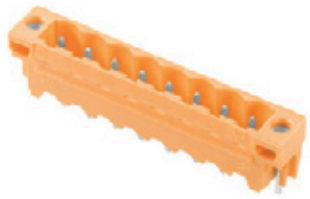
Coding		Order No.
	BLZ/SL KO OR	1573010000
	BLZ/SL KO SW	1545710000
Partition element		
	SL AT OR	1598300000
	SL AT SW	1770240000

Ordering data

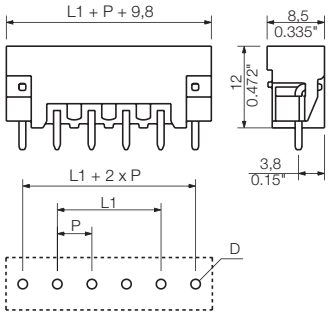
Solder pin length				3.2 mm	3.2 mm
Colour				Orange	Black
Pitch	**5.08 mm**				
Pol.	L1	(inch)	**Qty.**	**Order No.**	**Order No.**
2	5.08	0.200	100	1147130000	1148490000
3	10.16	0.400	100	1147170000	1148520000
4	15.24	0.600	100	1147200000	1148540000
5	20.32	0.800	50	1147230000	1148570000
6	25.40	1.000	50	1147260000	1148590000
7	30.48	1.200	50	1147290000	1148620000
8	35.56	1.400	50	1147320000	1148650000
9	40.64	1.600	50	1147350000	1148690000
10	45.72	1.800	50	1147380000	1148720000
11	50.80	2.000	50	1147410000	1148750000
12	55.88	2.200	50	1147440000	1148790000
13	60.96	2.400	50	1147480000	1148820000
14	66.04	2.600	50	1147520000	1148850000
15	71.12	2.800	50	1147550000	1148890000
16	76.20	3.000	50	1147590000	1148920000
17	81.28	3.200	20	1147620000	1148950000
18	86.36	3.400	20	1147650000	1148990000
19	91.44	3.600	20	1147690000	1149020000
20	96.52	3.800	20	1147720000	1149050000
21	101.60	4.000	20	1147750000	1149090000
22	106.68	4.200	20	1147790000	1149120000
23	111.76	4.400	20	1147820000	1149150000
24	116.84	4.600	20	1147850000	1149190000

SL 5.08HC/../180LF

with solder flange



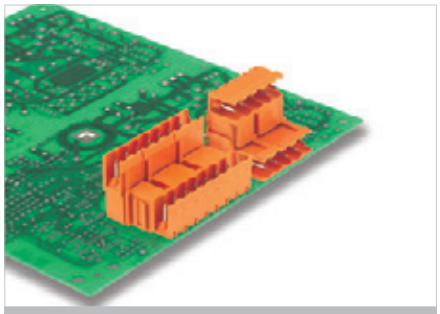
Dimensioned drawing



Ordering data

Solder pin length				3.2 mm	3.2 mm
Colour				Orange	Black
Pitch	**5.08 mm**				
Pol.	L1	(inch)	Qty.	Order No.	Order No.
2	5.08	0.200	100	1147890000	1149220000
3	10.16	0.400	100	1147920000	1149250000
4	15.24	0.600	100	1147950000	1149290000
5	20.32	0.800	50	1147990000	1149320000
6	25.40	1.000	50	1148020000	1149350000
7	30.48	1.200	50	1148050000	1149390000
8	35.56	1.400	50	1148090000	1149420000
9	40.64	1.600	50	1148120000	1149450000
10	45.72	1.800	50	1148150000	1149490000
11	50.80	2.000	50	1148190000	1149520000
12	55.88	2.200	50	1148220000	1149550000
13	60.96	2.400	50	1148240000	1149590000
14	66.04	2.600	50	1148260000	1149620000
15	71.12	2.800	50	1148280000	1149650000
16	76.20	3.000	50	1148300000	1149690000
17	81.28	3.200	20	1148320000	1149720000
18	86.36	3.400	20	1148340000	1149750000
19	91.44	3.600	20	1148360000	1149790000
20	96.52	3.800	20	1148380000	1149820000
21	101.60	4.000	20	1148400000	1149850000
22	106.68	4.200	20	1148420000	1149890000
23	111.76	4.400	20	1148440000	1149920000
24	116.84	4.600	20	1148470000	1149950000

SLD 5.08V/../90 & 180



Double-level male header optimised for wave soldering. The connection levels are offset and designed for a female plug with screw- or PUSH IN wire connect. All male headers can be manually coded or ordered as pre-coded headers.

Product data

IEC: 400 V / 17 A
UL: 300 V / 10 A

For additional articles and information, refer to catalog.weidmueller.com

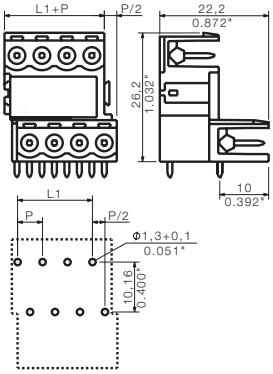
Note:

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Spacing between rows: see hole layout
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

SLD 5.08V/90



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm²			
Solid core H05(07) V-U	**mm²**			
Stranded H07 V-R				
Flexible H05(07) V-K	mm²			
Flexible with ferrule	mm²			
Ferrule with plastic collar	mm²			
Stripping length	mm			
Screwdriver blade	mm			
According to norm				
Tightening torque range	Nm			
Rated current, max.	**A**	**17**		**15**
At ambient temperature		20°C		40°C
For conductor cross-section	mm²			
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	**V**	**250**	**320**	**400**
Rated impulse voltage	kV	4	4	4
UL / CUL (Use Group)		**B**	**C**	**D**
Rated voltage	**V**	**300**		**300**
Rated current	**A**	**10**		**10**
AWG conductor	**AWG**		-	
CSA (Use Group)		**B**	**C**	**D**
Rated voltage	V	300		300
Rated current	A	10		10
AWG conductor	AWG		-	
General data				
Type of insulation material		PBT		
UL 94 flammability rating		V-0		
Contact base material		CuSn		
Material of contact surface		tinned		
Pin dimensions = d	mm	1.2, Octagonal		
Solder eyelet Ø = D	mm	1.3		
Solder eyelet Ø tolerance	mm	+ 0,1		

Accessories

Note: Refer to the Accessories chapter for additional accessories.

Mounting block		Order No.
	SLA BB14 OR	1594200000
	SLA BB14 SW	1774460000
Coding		
	BLZ/SL KO OR	1573010000
	BLZ/SL KO SW	1545710000
Partition element		
	SL AT OR	1598300000
	SL AT SW	1770240000

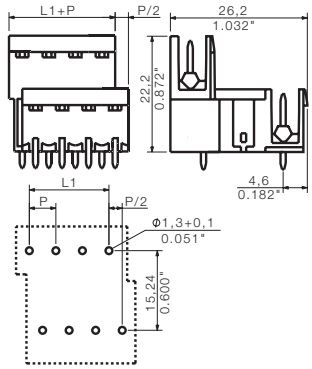
Ordering data

Solder pin length				3.2 mm
Colour				Orange
Pitch	**5.08 mm**			
Pol.	**L1**	**(inch)**	**Qty.**	**Order No.**
4	5.08	0.200	50	1725170000
6	25.40	1.000	50	1725180000
8	35.56	1.400	50	1725190000
10	45.72	1.800	50	1725200000
12	55.88	2.200	50	1725210000
14	66.04	2.600	20	1725220000
16	76.20	3.000	20	1725230000
18	86.36	3.400	20	1725240000
20	96.52	3.800	20	1725250000
22	106.68	4.200	10	1725260000
24	116.84	4.600	10	1725270000
26	60.96	2.400	10	1725280000
28	66.04	2.600	10	1725290000
30	71.12	2.800	10	1725300000
32	76.20	3.000	10	1725310000
34	81.28	3.200	10	1725320000
36	86.36	3.400	10	1725330000
38	91.44	3.600	10	1725340000
40	96.52	3.800	10	1725350000
42	101.60	4.000	10	1725360000
44	106.68	4.200	10	1725370000
46	111.76	4.400	10	1725380000
48	116.84	4.600	10	1725390000

SLD 5.08V/180



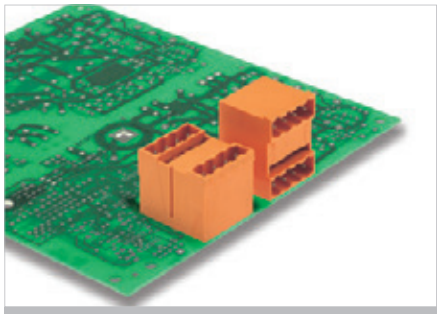
Dimensioned drawing



Ordering data

Solder pin length				3.2 mm
Colour				Orange
Pitch	**5.08 mm**			
Pol.	L1	(inch)	**Qty.**	**Order No.**
4	5.08	0.200	50	**1725650000**
6	10.16	0.400	50	**1725660000**
8	15.24	0.600	50	**1725670000**
10	45.72	1.800	50	**1725680000**
12	55.88	2.200	50	**1725690000**
14	66.04	2.600	20	**1725700000**
16	76.20	3.000	20	**1725710000**
18	86.36	3.400	20	**1725720000**
20	96.52	3.800	20	**1725730000**
22	106.68	4.200	10	**1725740000**
24	116.84	4.600	10	**1725750000**
26	60.96	2.400	10	**1725760000**
28	66.04	2.600	10	**1725770000**
30	71.12	2.800	10	**1725780000**
32	76.20	3.000	10	**1725790000**
34	81.28	3.200	10	**1725800000**
36	86.36	3.400	10	**1725810000**
38	91.44	3.600	10	**1725820000**
40	96.52	3.800	10	**1725830000**
42	101.60	4.000	10	**1725840000**
44	106.68	4.200	10	**1725850000**
46	111.76	4.400	10	**1725860000**
48	116.84	4.600	10	**1725870000**

SLD 5.08/../90 & 180



Double-level male header optimised for wave soldering. The connections are at the same level – with access that is flush over the front board. The male headers can be manually coded or ordered as pre-coded headers.

Product data

IEC: 400 V / 11 A
UL: 300 V / 10 A

For additional articles and information, refer to catalog.weidmueller.com

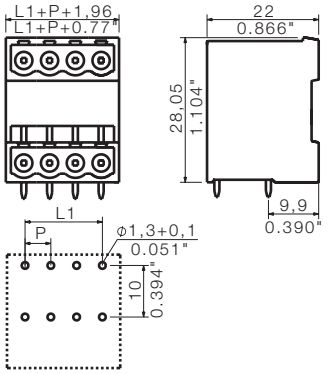
Note:

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Spacing between rows: see hole layout
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

SLD 5.08/../90G



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm²			
Solid core H05(07) V-U	**mm²**			
Stranded H07 V-R				
Flexible H05(07) V-K	mm²			
Flexible with ferrule	mm²			
Ferrule with plastic collar	mm²			
Stripping length	mm			
Screwdriver blade	mm			
According to norm				
Tightening torque range	Nm			
Rated current, max.	**A**	**11**		**9.5**
At ambient temperature		20°C		40°C
For conductor cross-section	mm²			
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	**V**	**250**	**320**	**400**
Rated impulse voltage	kV	4	4	4
UL / CUL (Use Group)		**B**	**C**	**D**
Rated voltage	**V**	**300**		**300**
Rated current	**A**	**10**		**10**
AWG conductor	**AWG**		-	
CSA (Use Group)		**B**	**C**	**D**
Rated voltage	V	300		300
Rated current	A	10		10
AWG conductor	AWG		-	
General data				
Type of insulation material		PBT		
UL 94 flammability rating		V-0		
Contact base material		CuSn		
Material of contact surface		tinned		
Pin dimensions = d	mm	1.2, Octagonal		
Solder eyelet Ø = D	mm	1.3		
Solder eyelet Ø tolerance	mm	+ 0,1		

Accessories

Note: Refer to the Accessories chapter for additional accessories.

Coding		Order No.
	BLZ/SL KO OR	1573010000
	BLZ/SL KO SW	1545710000
Partition element		
	SL AT OR	1598300000
	SL AT SW	1770240000

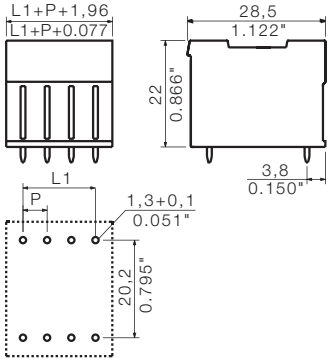
Ordering data

Solder pin length				3.2 mm
Colour				Orange
Pitch	**5.08 mm**			
Pol.	L1	(inch)	Qty.	Order No.
4	5.08	0.200	50	1601790000
6	25.40	1.000	50	1601800000
8	35.56	1.400	50	1601810000
10	45.72	1.800	50	1601820000
12	55.88	2.200	50	1601830000
14	66.04	2.600	20	1601840000
16	76.20	3.000	20	1601850000
18	86.36	3.400	20	1601860000
20	96.52	3.800	20	1601870000
22	106.68	4.200	10	1601880000
24	116.84	4.600	10	1601890000
26	60.96	2.400	10	1601900000
28	66.04	2.600	10	1601910000
30	71.12	2.800	10	1601920000
32	76.20	3.000	10	1601930000
34	81.28	3.200	10	1601940000
36	86.36	3.400	10	1601950000
38	91.44	3.600	10	1601960000
40	96.52	3.800	10	1601970000
42	101.60	4.000	10	1601980000
44	106.68	4.200	10	1601990000
46	111.76	4.400	10	1602000000
48	116.84	4.600	10	1602010000

SLD 5.08/../180G



Dimensioned drawing



Ordering data

Solder pin length				3.2 mm
Colour				Orange
Pitch	**5.08 mm**			
Pol.	L1	(inch)	**Qty.**	**Order No.**
4	5.08	0.200	50	**1602390000**
6	25.40	1.000	50	**1602400000**
8	35.56	1.400	50	**1602410000**
10	45.72	1.800	50	**1602420000**
12	55.88	2.200	50	**1602430000**
14	66.04	2.600	20	**1602440000**
16	76.20	3.000	20	**1602450000**
18	86.36	3.400	20	**1602460000**
20	96.52	3.800	20	**1602470000**
22	106.68	4.200	10	**1602480000**
24	116.84	4.600	10	**1602490000**
26	60.96	2.400	10	**1602500000**
28	66.04	2.600	10	**1602510000**
30	71.12	2.800	10	**1602520000**
32	76.20	3.000	10	**1602530000**
34	81.28	3.200	10	**1602540000**
36	86.36	3.400	10	**1602550000**
38	91.44	3.600	10	**1602560000**
40	96.52	3.800	10	**1602570000**
42	101.60	4.000	10	**1602580000**
44	106.68	4.200	10	**1602590000**
46	111.76	4.400	10	**1602600000**
48	116.84	4.600	10	**1602610000**

SLDF 5.08 L/F ..



Feed-through male connector with optional locking function, for mounting on front plate. Internal connection as flat-blade or solder connection. All male headers can be manually coded or ordered as pre-coded headers.

Product data

IEC: 400 V / 15 A
UL: 300 V / 10 A

For additional articles and information, refer to catalog.weidmueller.com

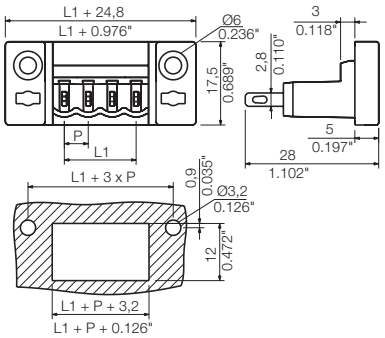
Note:

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Connectable cables with solder connection solid and flexible up to 2.5 mm² with insulating/shrink-wrap sleeve or from 2.8 mm flat blade receptacles with insulated sleeves acc. to DIN IEC 760
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

SLDF 5.08 L/F ..



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm²			
Solid core H05(07) V-U	**mm²**			
Stranded H07 V-R				
Flexible H05(07) V-K	mm²			
Flexible with ferrule	mm²			
Ferrule with plastic collar	mm²			
Stripping length	mm			
Screwdriver blade	mm			
According to norm				
Tightening torque range	Nm			
Rated current, max.	**A**	**15**		**13**
At ambient temperature		20°C		40°C
For conductor cross-section	mm²			
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	**V**	**250**	**320**	**400**
Rated impulse voltage	kV	4	4	4
UL / CUL (Use Group)		**B**	**C**	**D**
Rated voltage	**V**	**300**		**300**
Rated current	**A**	**10**		**10**
AWG conductor	**AWG**		-	
CSA (Use Group)		**B**	**C**	**D**
Rated voltage	V	300		300
Rated current	A	10		10
AWG conductor	AWG		-	
General data				
Type of insulation material			PBT	
UL 94 flammability rating			V-0	
Contact base material			CuSn	
Material of contact surface			tinned	
Pin dimensions = d	mm			
Solder eyelet Ø = D	mm			
Solder eyelet Ø tolerance	mm			

Accessories

Note: Refer to the Accessories chapter for additional accessories.

Coding		Order No.
	BLZ/SL KO OR	**1573010000**
	BLZ/SL KO SW	**1545710000**
Partition element		
	SL AT OR	**1598300000**
	SL AT SW	**1770240000**
Interlock		
	SLDF VR	**1599120000**

Ordering data

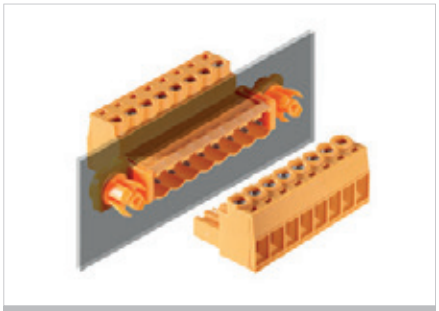
Solder pin length

Colour **Orange**

Pitch **5.08 mm**

Pol.	L1	(inch)	Qty.	Order No.
2	5.08	0.200	100	**1599130000**
3	10.16	0.400	100	**1599140000**
4	15.24	0.600	100	**1599150000**
5	20.32	0.800	50	**1599160000**
6	25.40	1.000	50	**1599170000**
7	30.48	1.200	50	**1599180000**
8	35.56	1.400	50	**1599190000**
9	40.64	1.600	50	**1599200000**
10	45.72	1.800	50	**1599210000**
11	50.80	2.000	50	**1599220000**
12	55.88	2.200	50	**1599230000**
13	60.96	2.400	50	**1599240000**
14	66.04	2.600	50	**1599250000**
15	71.12	2.800	50	**1599260000**
16	76.20	3.000	50	**1599270000**

SLS 5.08/../180DF



Male plug with clamping-yoke screw connection and straight wire outlet. The male plugs provide space for labelling and can be coded. Packed in a cardboard box.

- SLS 5.08 F & BLZP 5.08 F for wire-to-wire applications as wall or device feed-through
- SLS 5.08 F & BLZP 5.08 F for wire-to-wire applications / flying lead couplings
- SLS 5.08 FI & BLL 5.08 FI for board-to-wire connections (power supply for actuators)
- Folded steel clamping yoke accommodates the connected wire and compensates for temperature fluctuations

Product data

IEC: 400 V / 21.5 A / 0.2 - 2.5 mm²
UL: 300 V / 15 A / AWG 26 - 12

For additional articles and information, refer to catalog.weidmueller.com

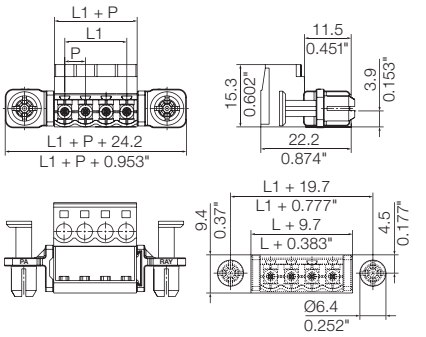
Note:

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

SLS 5.08/../180DF



Dimensioned drawing



FRONT PLATE CUT-OUT

Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm²	0.13...3.31		
Solid core H05(07) V-U	**mm²**	**0.2...2.5**		
Stranded H07 V-R				
Flexible H05(07) V-K	mm²	0.2...2.5		
Flexible with ferrule	mm²	0.2...2.5		
Ferrule with plastic collar	mm²	0.2...2.5		
Stripping length	mm	7		
Screwdriver blade	mm	0.6 x 3.5		
According to norm		DIN 5264		
Tightening torque range	Nm	0.4...0.5		
Rated current, max.	**A**	**21.5**		**18**
At ambient temperature		20°C		40°C
For conductor cross-section	mm²			
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	**V**	**250**	**320**	**400**
Rated impulse voltage	kV	4	4	4
UL / CUL (Use Group)		**B**	**C**	**D**
Rated voltage	**V**	**300**		**300**
Rated current	**A**	**15**		**10**
AWG conductor	**AWG**		**26-12**	
CSA (Use Group)		**B**	**C**	**D**
Rated voltage	V	300		300
Rated current	A	15		10
AWG conductor	AWG		26-12	
General data				
Type of insulation material		PBT		
UL 94 flammability rating		V-0		
Contact base material		CuSn		
Material of contact surface		tinned		
Pin dimensions = d	mm			
Solder eyelet Ø = D	mm			
Solder eyelet Ø tolerance	mm			

Accessories

Note: Refer to the Accessories chapter for additional accessories.

Strain relief		Order No.
	BLZ 5.08 ZE4 OR	1652110000
	BLZ 5.08 ZE4 SW	1652130000
	BLZ 5.08 ZE8 OR	1652050000
	BLZ 5.08 ZE8 SW	1652070000
Coding		
	BLZ/SL KO OR	1573010000
	BLZ/SL KO SW	1545710000
Screwdriver		
	SDIS 0.6X3.5X100	9008390000
	SDS 0.6X3.5X100	9008330000
Partition element		
	SL AT OR	1598300000
	SL AT SW	1770240000

Ordering data

Solder pin length

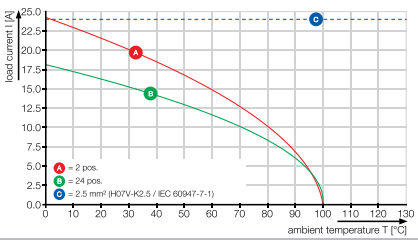
Colour **Orange**

Pitch 5.08 mm

Pol.	L1	(inch)	Qty.	Order No.
2	5.08	0.200	54	1353470000
3	10.16	0.400	42	1353480000
4	15.24	0.600	42	1353490000
5	20.32	0.800	36	1353500000
6	25.40	1.000	30	1353520000
7	30.48	1.200	30	1353530000
8	35.56	1.400	24	1353540000
9	40.64	1.600	24	1353550000
10	45.72	1.800	24	1353570000

Representative deratings curve

BLZP 5.08/../180 - SLS 5.08/../180

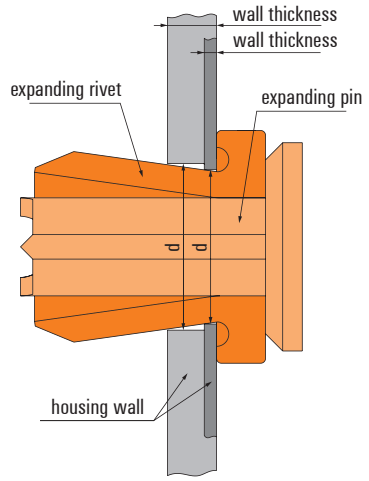


Flexibility & safety

Maximum flexibility and optimum safety should be guaranteed when designing this equipment.

This application can be made with various connection systems: a TOP connection with a screw, clamping yoke or PUSH IN. It is necessary to adapt the hole size, as appropriate, to the expanding rivets so that they are able respond to the thickness of the customers' housing wall whilst still being able to guarantee the highest level of safety. This means we strike just the right balance between easy pin insertion without using a tool and optimum stability and vibration resistance for the entire coupling during the application.

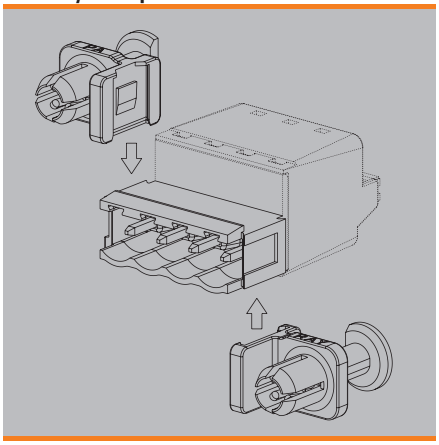
BBDF sectional drawing in the wall of the housing



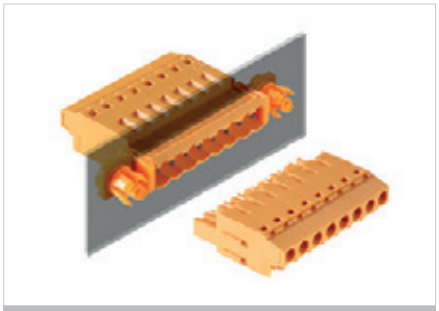
hole size table

	housing wall thickness	hole size (p)
mm	0.5 – 0.8	6.3
	1	6.4
	1,5	6.5
	2	6.7
inch	0.019 – 0.031	0.248
	0.039	0.252
	0.059	0.256
	0.079	0.264

assembly description



SLT 5.08/../180DF



Male plug with clamping-yoke screw connection and straight wire outlet. The male plugs provide space for labelling and can be coded. Packed in a cardboard box.

- SLT 5.08 DF & BLT 5.08 for wire-to-wire applications as wall or device feed-through
- SLT 5.08 F & BLT 5.08 F for wire-to-wire applications / flying lead couplings
- SLT 5.08 FI & BLL 5.08 FI for board-to-wire connections (power supply for actuators)
- Folded steel clamping yoke accommodates the connected wire and compensates for temperature fluctuations

Product data

IEC: 400 V / 16 A / 0.2 - 2.5 mm²
UL: 300 V / 10 A / AWG 26 - 14

For additional articles and information, refer to catalog.weidmueller.com

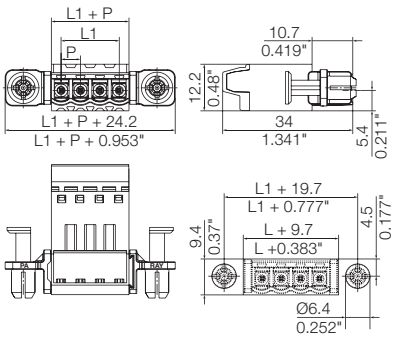
Note:

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- Crimp form A for wire end ferrules with PZ1.5 or PZ 6/5 crimping tool are recommended for the largest cable sizes.
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

SLT 5.08/../180DF



Dimensioned drawing



FRONT PLATE CUT-OUT

Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm²	0.13...2.5		
Solid core H05(07) V-U	**mm²**	**0.2...2.5**		
Stranded H07 V-R				
Flexible H05(07) V-K	mm²	0.2...1.5		
Flexible with ferrule	mm²	0.2...1.5		
Ferrule with plastic collar	mm²	0.2...1.5		
Stripping length	mm	13		
Screwdriver blade	mm	0.6 x 3.5		
According to norm		DIN 5264		
Tightening torque range	Nm	0.4...0.5		
Rated current, max.	**A**	**16**		**13**
At ambient temperature		20°C		40°C
For conductor cross-section	mm²			
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	**V**	**250**	**400**	**400**
Rated impulse voltage	kV	4	4	4
UL / CUL (Use Group)		**B**	**C**	**D**
Rated voltage	**V**	**300**		**300**
Rated current	**A**	**10**		**10**
AWG conductor	**AWG**		**26-14**	
CSA (Use Group)		**B**	**C**	**D**
Rated voltage	V	300		300
Rated current	A	10		10
AWG conductor	AWG		26-14	
General data				
Type of insulation material			PBT	
UL 94 flammability rating			V-0	
Contact base material				
Material of contact surface				
Pin dimensions = d	mm			
Solder eyelet Ø = D	mm			
Solder eyelet Ø tolerance	mm			

Accessories

Note: Refer to the Accessories chapter for additional accessories.

Coding		Order No.
	BLZ/SL KO OR	1573010000
	BLZ/SL KO SW	1545710000
Screwdriver		
	SDIS 0.6X3.5X100	9008390000
	SDS 0.6X3.5X100	9008330000
Partition element		
	SL AT OR	1598300000
	SL AT SW	1770240000

Ordering data

Solder pin length

Colour **Orange**

Pitch 5.08 mm

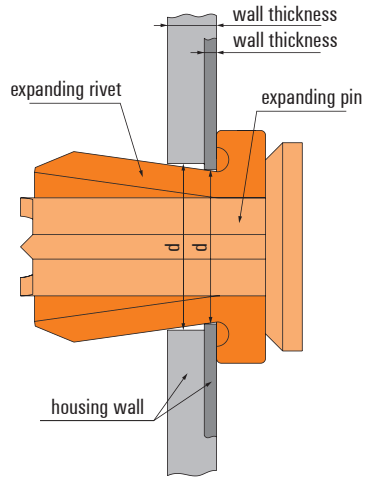
Pol.	L1	(inch)	Qty.	Order No.
2	5.08	0.200	54	1353350000
3	10.16	0.400	42	1353370000
4	15.24	0.600	42	1353380000
5	20.32	0.800	36	1353390000
6	25.40	1.000	30	1353400000
7	30.48	1.200	30	1353420000
8	35.56	1.400	24	1353430000
9	40.64	1.600	24	1353440000
10	45.72	1.800	24	1353450000

Flexibility & safety

Maximum flexibility and optimum safety should be guaranteed when designing this equipment.

This application can be made with various connection systems: a TOP connection with a screw, clamping yoke or PUSH IN. It is necessary to adapt the hole size, as appropriate, to the expanding rivets so that they are able respond to the thickness of the customers' housing wall whilst still being able to guarantee the highest level of safety. This means we strike just the right balance between easy pin insertion without using a tool and optimum stability and vibration resistance for the entire coupling during the application.

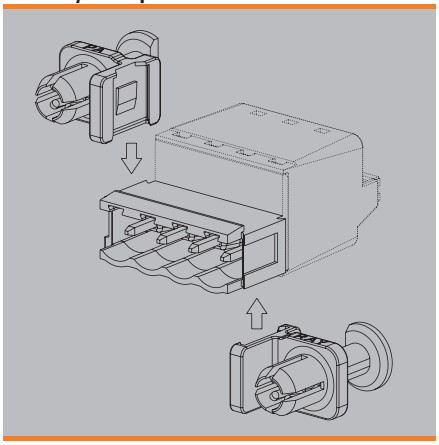
BBDF sectional drawing in the wall of the housing



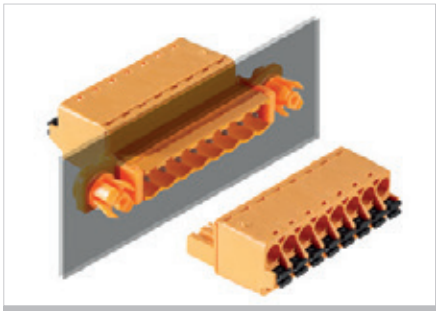
hole size table

	housing wall thickness	hole size (p)
mm	0.5 – 0.8	6.3
	1	6.4
	1,5	6.5
	2	6.7
inch	0.019 – 0.031	0.248
	0.039	0.252
	0.059	0.256
	0.079	0.264

assembly description



SLF 5.08/../180DF



Male plug with PUSH IN wire connect with straight wire outlet. The male plugs provide space for labelling and can be coded. Packed in a cardboard box.

- SLF 5.08 DF & BLF 5.08 for wire-to-wire applications as wall or device feed-through
- SLF 5.08 F & BLF 5.08 F for wire-to-wire applications / flying lead couplings
- SLF 5.08 FI & BLL 5.08 FI for board-to-wire connections (power supply for actuators)

Product data

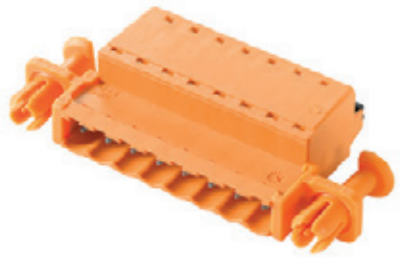
IEC: 400 V / 25.9 A / 0.2 - 2.5 mm²
UL: 300 V / 16 A / AWG 26 - 12

For additional articles and information, refer to catalog.weidmueller.com

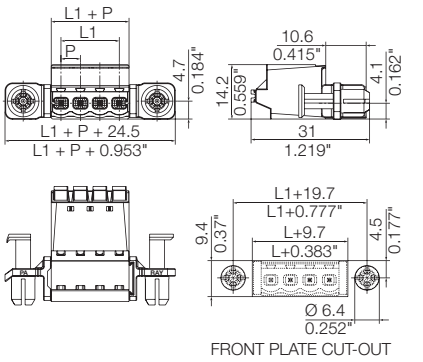
Note:

- Additional colours on request
- Gold-plated contact surfaces on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- P on drawing = pitch

SLF 5.08/../180DF



Dimensioned drawing



FRONT PLATE CUT-OUT

Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm²	0.13...3.31		
Solid core H05(07) V-U	**mm²**	**0.2...2.5**		
Stranded H07 V-R		0...2		
Flexible H05(07) V-K	mm²	0.2...2.5		
Flexible with ferrule	mm²	0.2...2.5		
Ferrule with plastic collar	mm²	0.2...2.5		
Stripping length	mm	10		
Screwdriver blade	mm	0.6 x 3.5		
According to norm		DIN 5264		
Tightening torque range	Nm			
Rated current, max.	**A**	**25.9**		**22.5**
At ambient temperature		20°C		40°C
For conductor cross-section	mm²	2.5		
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	**V**	**250**	**320**	**400**
Rated impulse voltage	kV	4	4	4
UL / CUL (Use Group)		**B**	**C**	**D**
Rated voltage	**V**	**300**		**300**
Rated current	**A**	**16**		**16**
AWG conductor	**AWG**		**26-12**	
CSA (Use Group)		**B**	**C**	**D**
Rated voltage	V	300		300
Rated current	A	10		10
AWG conductor	AWG		26-12	
General data				
Type of insulation material		PBT		
UL 94 flammability rating		V-0		
Contact base material		CuSn		
Material of contact surface		tinned		
Pin dimensions = d	mm			
Solder eyelet Ø = D	mm			
Solder eyelet Ø tolerance	mm			

Accessories

Note: Refer to the Accessories chapter for additional accessories.

Coding		Order No.
	BLZ/SL KO OR	1573010000
	BLZ/SL KO SW	1545710000
Screwdriver		
	SDIS 0.6X3.5X100	9008390000
	SDS 0.6X3.5X100	9008330000
Wire-end ferrule		
	H0,5/14S W	9004590000
	H1,5/14S SW	9025240000
	H2,5/14S BL	1333100000

Ordering data

Solder pin length

Colour **Orange**

Pitch **5.08 mm**

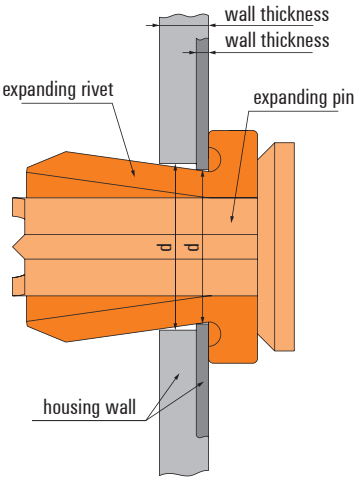
Pol.	L1	(inch)	Qty.	Order No.
2	5.08	0.200	54	1353580000
3	10.16	0.400	42	1353590000
4	15.24	0.600	42	1353600000
5	20.32	0.800	36	1353620000
6	25.40	1.000	30	1353630000
7	30.48	1.200	30	1353640000
8	35.56	1.400	24	1353650000
9	40.64	1.600	24	1353670000
10	45.72	1.800	24	1353680000

Flexibility & safety

Maximum flexibility and optimum safety should be guaranteed when designing this equipment.

This application can be made with various connection systems: a TOP connection with a screw, clamping yoke or PUSH IN. It is necessary to adapt the hole size, as appropriate, to the expanding rivets so that they are able respond to the thickness of the customers' housing wall whilst still being able to guarantee the highest level of safety. This means we strike just the right balance between easy pin insertion without using a tool and optimum stability and vibration resistance for the entire coupling during the application.

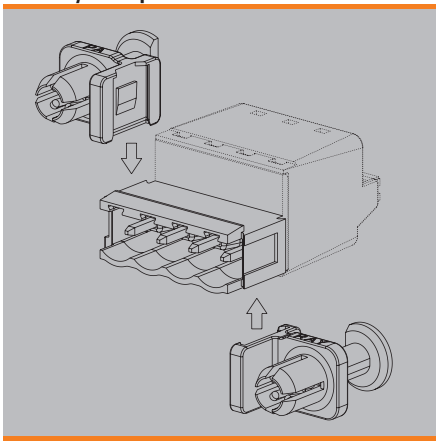
BBDF sectional drawing in the wall of the housing



hole size table

	housing wall thickness	hole size (p)
mm	0.5 – 0.8	6.3
	1	6.4
	1,5	6.5
	2	6.7
inch	0.019 – 0.031	0.248
	0.039	0.252
	0.059	0.256
	0.079	0.264

assembly description



SLS 5.08/../180



Male plug with clamping-yoke screw connection and straight wire outlet. The male plug provides space for labelling and can be coded.

- SLS 5.08 F & BLZP 5.08 F for wire-to-wire applications.
- SLS 5.08 FI & BLL 5.08 FI for board-to-wire connections.
- Folded steel clamping yoke accommodates the connected wire and compensates for temperature fluctuations
- Available in standard, with flange receptacle (F) or with screw flange (FI).

Product data

IEC: 400 V / 21.5 A / 0.2 - 2.5 mm²
UL: 300 V / 15 A / AWG 26 - 12

For additional articles and information, refer to catalog.weidmueller.com

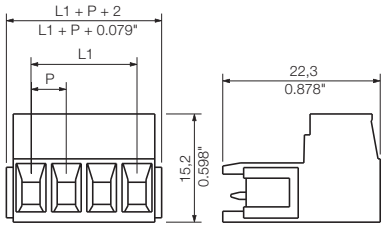
Note:

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

SLS 5.08/../180B



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm²	0.13...3.31		
Solid core H05(07) V-U	**mm²**	**0.2...2.5**		
Stranded H07 V-R				
Flexible H05(07) V-K	mm²	0.2...2.5		
Flexible with ferrule	mm²	0.2...2.5		
Ferrule with plastic collar	mm²	0.2...2.5		
Stripping length	mm	7		
Screwdriver blade	mm			
According to norm				
Tightening torque range	Nm	0.4...0.5		
Rated current, max.	**A**	**21.5**		**18**
At ambient temperature		20°C		40°C
For conductor cross-section	mm²			
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	**V**	**250**	**320**	**400**
Rated impulse voltage	kV	4	4	4
UL / CUL (Use Group)		**B**	**C**	**D**
Rated voltage	**V**	**300**		**300**
Rated current	**A**	**15**		**10**
AWG conductor	**AWG**		**26-12**	
CSA (Use Group)		**B**	**C**	**D**
Rated voltage	V	300		300
Rated current	A	15		10
AWG conductor	AWG		26-12	
General data				
Type of insulation material			PBT	
UL 94 flammability rating			V-0	
Contact base material			CuSn	
Material of contact surface			tinned	
Pin dimensions = d	mm			
Solder eyelet Ø = D	mm			
Solder eyelet Ø tolerance	mm			

Accessories

Note: Refer to the Accessories chapter for additional accessories.

Strain relief		Order No.
	BLZ 5.08 ZE4 OR	1652110000
	BLZ 5.08 ZE4 SW	1652130000
	BLZ 5.08 ZE8 OR	1652050000
	BLZ 5.08 ZE8 SW	1652070000
Coding		
	BLZ/SL KO OR	1573010000
	BLZ/SL KO SW	1545710000
Screwdriver		
	SDIS 0.6X3.5X100	9008390000
	SDS 0.6X3.5X100	9008330000
Partition element		
	SL AT OR	1598300000
	SL AT SW	1770240000
Mounting block		
	SLA BB11R OR	1604120000
	SLA BB11R SW	1692340000

Ordering data

Solder pin length

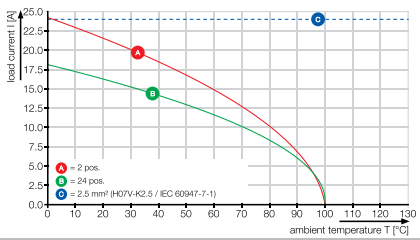
Colour **Orange**

Pitch 5.08 mm

Pol.	L1	(inch)	Qty.	Order No.
2	5.08	0.200	100	1627240000
3	10.16	0.400	100	1627250000
4	15.24	0.600	100	1627260000
5	20.32	0.800	50	1627270000
6	25.40	1.000	50	1627280000
7	30.48	1.200	50	1627290000
8	35.56	1.400	50	1627300000
9	40.64	1.600	50	1627310000
10	45.72	1.800	50	1627320000
11	50.80	2.000	50	1627330000
12	55.88	2.200	50	1627340000
13	60.96	2.400	50	1627350000
14	66.04	2.600	50	1627360000
15	71.12	2.800	50	1627370000
16	76.20	3.000	50	1627380000
17	81.28	3.200	20	1645150000
18	86.36	3.400	20	1645160000
19	91.44	3.600	20	1645170000
20	96.52	3.800	20	1645180000
21	101.60	4.000	20	1645190000
22	106.68	4.200	20	1645200000
23	111.76	4.400	20	1645210000
24	116.84	4.600	20	1645220000

Representative deratings curve

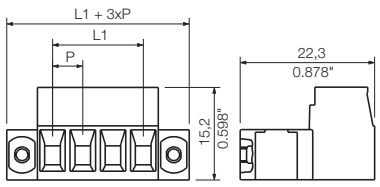
BLZP 5.08/../180 - SLS 5.08/../180



SLS 5.08/../180F



Dimensioned drawing



Ordering data

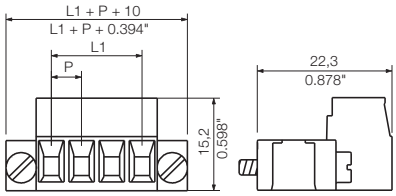
Solder pin length

Colour				Orange
Pitch	**5.08 mm**			
Pol.	L1	(inch)	**Qty.**	**Order No.**
2	5.08	0.200	100	**1846360000**
3	10.16	0.400	100	**1846370000**
4	15.24	0.600	100	**1846380000**
5	20.32	0.800	50	**1846390000**
6	25.40	1.000	50	**1846400000**
7	30.48	1.200	50	**1846410000**
8	35.56	1.400	50	**1846420000**
9	40.64	1.600	50	**1846430000**
10	45.72	1.800	50	**1846440000**
11	50.80	2.000	50	**1846450000**
12	55.88	2.200	50	**1846460000**
13	60.96	2.400	50	**1846470000**
14	66.04	2.600	50	**1846480000**
15	71.12	2.800	50	**1846490000**
16	76.20	3.000	50	**1846500000**

SLS 5.08/../180FI



Dimensioned drawing



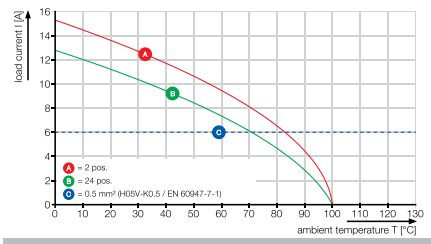
Ordering data

Solder pin length

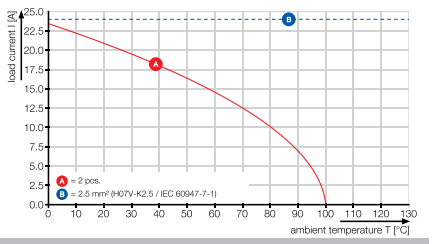
Colour				Orange
Pitch	**5.08 mm**			
Pol.	L1	(inch)	**Qty.**	**Order No.**
2	5.08	0.200	100	**1846210000**
3	10.16	0.400	100	**1846220000**
4	15.24	0.600	100	**1846230000**
5	20.32	0.800	50	**1846240000**
6	25.40	1.000	50	**1846250000**
7	30.48	1.200	50	**1846260000**
8	35.56	1.400	50	**1846270000**
9	40.64	1.600	50	**1846280000**
10	45.72	1.800	50	**1846290000**
11	50.80	2.000	50	**1846300000**
12	55.88	2.200	50	**1846310000**
13	60.96	2.400	50	**1846320000**
14	66.04	2.600	50	**1846330000**
15	71.12	2.800	50	**1846340000**
16	76.20	3.000	50	**1846350000**

Additional deratings curves

BLZP 5.08/../180 - SLS 5.08/../180



BLL 5.08/../180 - SLS 5.08/../180



SLS 5.08/../180TB RF15



Male plug with clamping-yoke screw connection and straight wire outlet. The male plug provides space for labelling and can be coded.

- The clip-on foot makes it easy to attach to the DIN rail (TS15).
- SLS 5.08 F & BLZP 5.08 F for wire-to-wire applications (flying lead assemblies)
- Folded steel clamping yoke accommodates the connected wire and compensates for temperature fluctuations

Product data

IEC: 400 V / 21.5 A / 0.2 - 2.5 mm²
UL: 300 V / 15 A / AWG 26 - 12

For additional articles and information, refer to catalog.weidmueller.com

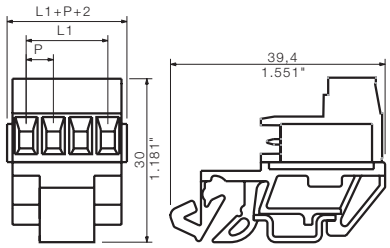
Note:

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

SLS 5.08/../180TB RF15



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm²	0.13...3.31		
Solid core H05(07) V-U	**mm²**	**0.2...2.5**		
Stranded H07 V-R				
Flexible H05(07) V-K	mm²	0.2...2.5		
Flexible with ferrule	mm²	0.2...2.5		
Ferrule with plastic collar	mm²	0.2...2.5		
Stripping length	mm	7		
Screwdriver blade	mm	0.6 x 3.5		
According to norm		DIN 5264		
Tightening torque range	Nm	0.4...0.5		
Rated current, max.	**A**	**21.5**		**18**
At ambient temperature		20°C		40°C
For conductor cross-section	mm²			
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	**V**	**250**	**320**	**400**
Rated impulse voltage	kV	4	4	4
UL / CUL (Use Group)		**B**	**C**	**D**
Rated voltage	**V**	**300**		**300**
Rated current	**A**	**15**		**10**
AWG conductor	**AWG**		**26-12**	
CSA (Use Group)		**B**	**C**	**D**
Rated voltage	V	300		300
Rated current	A	15		10
AWG conductor	AWG		26-12	
General data				
Type of insulation material			PBT	
UL 94 flammability rating			V-0	
Contact base material			CuSn	
Material of contact surface			tinned	
Pin dimensions = d	mm			
Solder eyelet Ø = D	mm			
Solder eyelet Ø tolerance	mm			

Accessories

Note: Refer to the Accessories chapter for additional accessories.

Coding		Order No.
	BLZ/SL KO OR	1573010000
	BLZ/SL KO SW	1545710000
Screwdriver		
	SDIS 0.6X3.5X100	9008390000
	SDS 0.6X3.5X100	9008330000
Partition element		
	SL AT OR	1598300000
	SL AT SW	1770240000
Mounting block		
	SLA BB4 OR	1571720000
	SLA BB8 RH OR	1446060000

Ordering data

Solder pin length

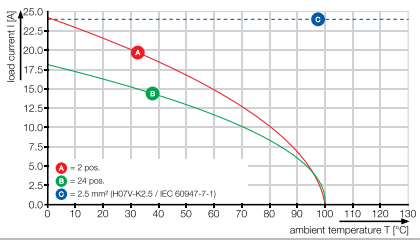
Colour **Orange**

Pitch 5.08 mm

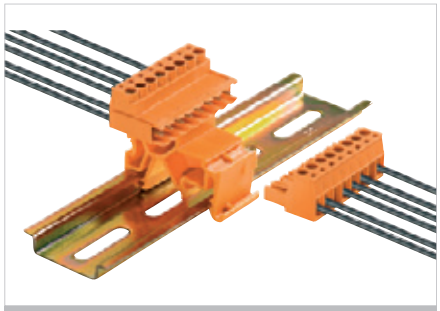
Pol.	L1	(inch)	Qty.	Order No.
4	15.24	0.600	20	1846050000
6	25.40	1.000	20	1846060000
8	35.56	1.400	10	1846070000
10	45.72	1.800	10	1846080000
12	55.88	2.200	10	1846090000
16	76.20	3.000	5	1846100000
20	96.52	3.800	5	1846110000
24	116.84	4.600	5	1846120000

Representative deratings curve

BLZP 5.08/../180 - SLS 5.08TB RF



SLS 5.08/../180TB KF35



Male plug with clamping-yoke screw connection and straight wire outlet. The male plug provides space for labelling and can be coded.

- The clip-on foot makes it easy to attach to the DIN rail (TS32 / TS35).
- SLS 5.08 F & BLZP 5.08 F for wire-to-wire applications (flying lead assemblies)
- Folded steel clamping yoke accommodates the connected wire and compensates for temperature fluctuations

Product data

IEC: 400 V / 21.5 A / 0.2 - 2.5 mm²
UL: 300 V / 15 A / AWG 26 - 12

For additional articles and information, refer to catalog.weidmueller.com

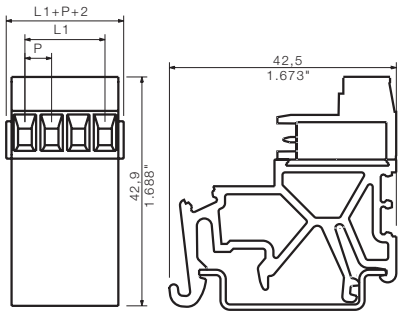
Note:

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

SLS 5.08/../180TB KF35



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm²	0.13...3.31		
Solid core H05(07) V-U	**mm²**	**0.2...2.5**		
Stranded H07 V-R				
Flexible H05(07) V-K	mm²	0.2...2.5		
Flexible with ferrule	mm²	0.2...2.5		
Ferrule with plastic collar	mm²	0.2...2.5		
Stripping length	mm	7		
Screwdriver blade	mm	0.6 x 3.5		
According to norm		DIN 5264		
Tightening torque range	Nm	0.4...0.5		
Rated current, max.	**A**	**21.5**		**18**
At ambient temperature		20°C		40°C
For conductor cross-section	mm²			
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	**V**	**250**	**320**	**400**
Rated impulse voltage	kV	4	4	4
UL / CUL (Use Group)		**B**	**C**	**D**
Rated voltage	**V**	**300**		**300**
Rated current	**A**	**15**		**10**
AWG conductor	**AWG**		**26-12**	
CSA (Use Group)		**B**	**C**	**D**
Rated voltage	V	300		300
Rated current	A	15		10
AWG conductor	AWG		26-12	
General data				
Type of insulation material			PBT	
UL 94 flammability rating			V-0	
Contact base material			CuSn	
Material of contact surface			tinned	
Pin dimensions = d	mm			
Solder eyelet Ø = D	mm			
Solder eyelet Ø tolerance	mm			

Accessories

Note: Refer to the Accessories chapter for additional accessories.

Coding		Order No.
	BLZ/SL KO OR	1573010000
	BLZ/SL KO SW	1545710000
Screwdriver		
	SDIS 0.6X3.5X100	9008390000
	SDS 0.6X3.5X100	9008330000
Partition element		
	SL AT OR	1598300000
	SL AT SW	1770240000
Mounting block		
	SLA BB4 OR	1571720000
	SLA BB8 RH OR	1446060000

Ordering data

Solder pin length

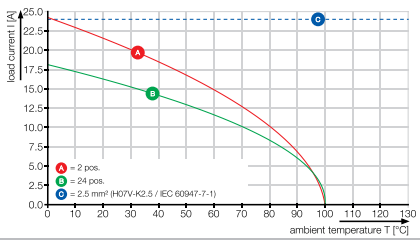
Colour **Orange**

Pitch **5.08 mm**

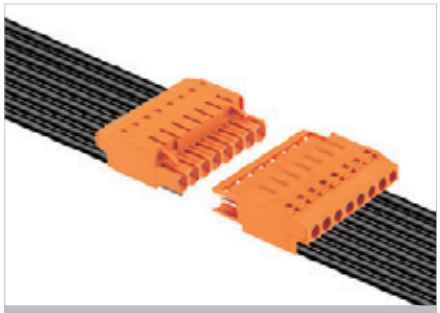
Pol.	L1	(inch)	Qty.	Order No.
4	15.24	0.600	20	1846130000
6	25.40	1.000	20	1846140000
8	35.56	1.400	10	1846150000
10	45.72	1.800	10	1846160000
12	55.88	2.200	10	1846170000
16	76.20	3.000	5	1846180000
20	96.52	3.800	5	1846190000
24	116.84	4.600	5	1846200000

Representative deratings curve

BLZP 5.08/../180 - SLS 5.08TB KF



SLT 5.08/../180B



Male plug with TOP screw connection, with straight wire outlet. The male plug provides space for labelling and can be coded.

- SLT 5.08 & BLT 5.08 for wire-to-wire applications (flying lead assemblies)
- SLT 5.08 & BLL 5.08 for board-to-board connections (e.g., power supply for actuators)
- The specialist for cramped installations
- The extra flat shape allows for dense component assembly.
- The screw connect and the cable entry are located on the same side of the connector.

Product data

IEC: 400 V / 16 A / 0.2 - 2.5 mm²
UL: 300 V / 10 A / AWG 26 - 14

For additional articles and information, refer to catalog.weidmueller.com

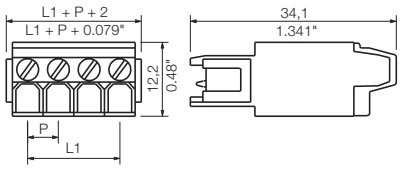
Note:

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- Crimp form A for wire end ferrules with PZ 6/5 crimping tool are recommended for the largest cable sizes.
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

SLT 5.08/../180B



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm²	0.13...2.5		
Solid core H05(07) V-U	**mm²**	**0.2...2.5**		
Stranded H07 V-R				
Flexible H05(07) V-K	mm²	0.2...1.5		
Flexible with ferrule	mm²	0.2...1.5		
Ferrule with plastic collar	mm²	0.2...1.5		
Stripping length	mm	13		
Screwdriver blade	mm	0.6 x 3.5		
According to norm		DIN 5264		
Tightening torque range	Nm	0.4...0.5		
Rated current, max.	**A**	**16**		**13**
At ambient temperature		20°C		40°C
For conductor cross-section	mm²			
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	**V**	**250**	**400**	**400**
Rated impulse voltage	kV	4	4	4
UL / CUL (Use Group)		**B**	**C**	**D**
Rated voltage	**V**	**300**		**300**
Rated current	**A**	**10**		**10**
AWG conductor	**AWG**		**26-14**	
CSA (Use Group)		**B**	**C**	**D**
Rated voltage	V	300		300
Rated current	A	10		10
AWG conductor	AWG		26-14	
General data				
Type of insulation material			PBT	
UL 94 flammability rating			V-0	
Contact base material			CuSn	
Material of contact surface			tinned	
Pin dimensions = d	mm			
Solder eyelet Ø = D	mm			
Solder eyelet Ø tolerance	mm			

Accessories

Note: Refer to the Accessories chapter for additional accessories.

Coding		Order No.
	BLZ/SL KO OR	**1573010000**
	BLZ/SL KO SW	**1545710000**
Screwdriver		
	SDIS 0.6X3.5X100	**9008390000**
	SDS 0.6X3.5X100	**9008330000**
Partition element		
	SL AT OR	**1598300000**
	SL AT SW	**1770240000**
Mounting block		
	SLA BB11R OR	**1604120000**
	SLA BB11R SW	**1692340000**

Ordering data

Solder pin length

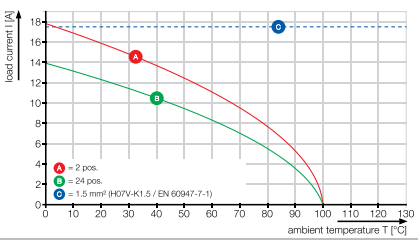
Colour **Orange**

Pitch 5.08 mm

Pol.	L1	(inch)	Qty.	Order No.
2	5.08	0.200	100	**1611710000**
3	10.16	0.400	100	**1611720000**
4	15.24	0.600	100	**1611730000**
5	20.32	0.800	50	**1611740000**
6	25.40	1.000	50	**1611750000**
7	30.48	1.200	50	**1611760000**
8	35.56	1.400	50	**1611770000**
9	40.64	1.600	50	**1611780000**
10	45.72	1.800	50	**1611790000**
11	50.80	2.000	50	**1611800000**
12	55.88	2.200	50	**1611810000**
13	60.96	2.400	50	**1611820000**
14	66.04	2.600	50	**1611830000**
15	71.12	2.800	50	**1611840000**
16	76.20	3.000	50	**1611850000**

Representative deratings curve

BLL 5.08/../90 - SLT 5.08/../180



SLF 5.08



Male plug with PUSH IN wire connect with straight wire outlet. The male plugs provide space for labelling and can be coded. Packed in a cardboard box.

- SLF 5.08 DF & BLF 5.08 for wire-to-wire applications as wall or device feed-through
- SLF 5.08 F & BLF 5.08 F for wire-to-wire applications / flying lead couplings
- SLF 5.08 FI & BLL 5.08 FI for board-to-wire connections (power supply for actuators)

Product data

IEC: 400 V / 25.9 A / 0.2 - 2.5 mm²
UL: 300 V / 16 A / AWG 26 - 12

For additional articles and information, refer to catalog.weidmueller.com

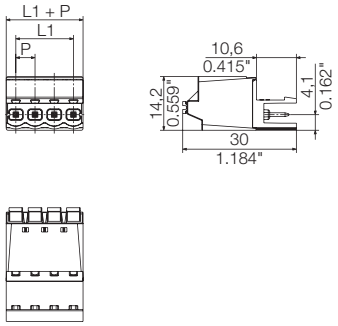
Note:

- Additional colours on request
- Gold-plated contact surfaces on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- P on drawing = pitch

SLF 5.08/../180



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm²	0.13...3.31		
Solid core H05(07) V-U	**mm²**	**0.2...2.5**		
Stranded H07 V-R		0...2		
Flexible H05(07) V-K	mm²	0.2...2.5		
Flexible with ferrule	mm²	0.2...2.5		
Ferrule with plastic collar	mm²	0.2...2.5		
Stripping length	mm	10		
Screwdriver blade	mm	0.6 x 3.5		
According to norm		DIN 5264		
Tightening torque range	Nm			
Rated current, max.	**A**	**25.9**		**22.5**
At ambient temperature		20°C		40°C
For conductor cross-section	mm²	2.5		
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	**V**	**250**	**320**	**400**
Rated impulse voltage	kV	4	4	4
UL / CUL (Use Group)		**B**	**C**	**D**
Rated voltage	**V**	**300**		**300**
Rated current	**A**	**16**		**16**
AWG conductor	**AWG**		**26-12**	
CSA (Use Group)		**B**	**C**	**D**
Rated voltage	V	300		300
Rated current	A	10		10
AWG conductor	AWG		26-12	
General data				
Type of insulation material		PBT		
UL 94 flammability rating		V-0		
Contact base material		CuSn		
Material of contact surface		tinned		
Pin dimensions = d	mm			
Solder eyelet Ø = D	mm			
Solder eyelet Ø tolerance	mm			

Accessories

Note: Refer to the Accessories chapter for additional accessories.

Coding		Order No.
	BLZ/SL KO OR	1573010000
	BLZ/SL KO SW	1545710000
Screwdriver		
	SDIS 0.6X3.5X100	9008390000
	SDS 0.6X3.5X100	9008330000
Wire-end ferrule		
	H0,5/14S W	9004590000
	H1,0/14S R	9018560000
	H1,5/14S SW	9025240000
	H2,5/14S BL	1333100000

Ordering data

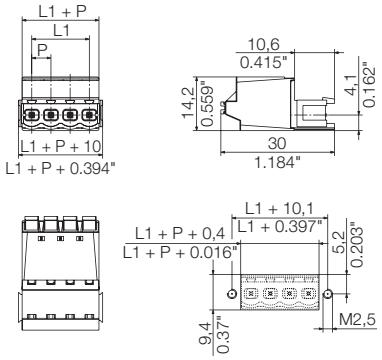
Solder pin length

Colour				Orange	Black
Pitch	**5.08 mm**				
Pol.	L1	(inch)	**Qty.**	**Order No.**	**Order No.**
2	5.08	0.200	180	**1335330000**	**1335560000**
3	10.16	0.400	120	**1335340000**	**1335570000**
4	15.24	0.600	90	**1335350000**	**1335580000**
5	20.32	0.800	72	**1335360000**	**1335610000**
6	25.40	1.000	60	**1335370000**	**1335630000**
7	30.48	1.200	48	**1335380000**	**1335650000**
8	35.56	1.400	42	**1335390000**	**1335670000**
9	40.64	1.600	36	**1335400000**	**1335690000**
10	45.72	1.800	36	**1335410000**	**1335710000**
11	50.80	2.000	30	**1335420000**	**1335730000**
12	55.88	2.200	30	**1335430000**	**1335750000**

SLF 5.08/../180B



Dimensioned drawing



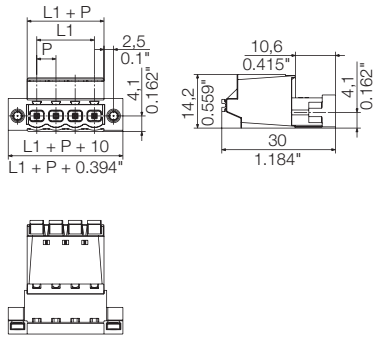
Ordering data

Solder pin length					
Colour				Orange	Black
Pitch	5.08 mm				
Pol.	L1	(inch)	Qty.	Order No.	Order No.
2	5.08	0.200	150	1335440000	1335770000
3	10.16	0.400	108	1335450000	1335790000
4	15.24	0.600	78	1335460000	1335810000
5	20.32	0.800	66	1335470000	1335830000
6	25.40	1.000	54	1335480000	1335850000
7	30.48	1.200	48	1335490000	1335880000
8	35.56	1.400	42	1335510000	1335900000
9	40.64	1.600	36	1335520000	1335920000
10	45.72	1.800	30	1335530000	1335940000
11	50.80	2.000	30	1335540000	1335970000
12	55.88	2.200	24	1335550000	1335990000

SLF 5.08/../180F



Dimensioned drawing



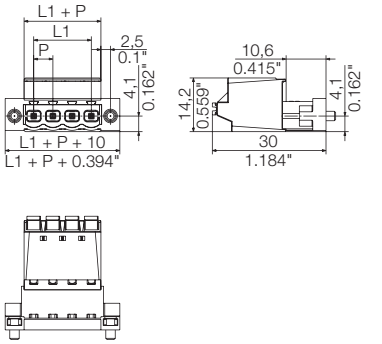
Ordering data

Solder pin length					
Colour				Orange	Black
Pitch	5.08 mm				
Pol.	L1	(inch)	Qty.	Order No.	Order No.
2	5.08	0.200	90	1335590000	1336170000
3	10.16	0.400	72	1335620000	1336180000
4	15.24	0.600	60	1335640000	1336190000
5	20.32	0.800	54	1335660000	1336200000
6	25.40	1.000	42	1335680000	1336210000
7	30.48	1.200	42	1335700000	1336220000
8	35.56	1.400	36	1335720000	1336230000
9	40.64	1.600	30	1335740000	1336240000
10	45.72	1.800	30	1335760000	1336250000
11	50.80	2.000	24	1335780000	1336270000
12	55.88	2.200	24	1335800000	1336280000

SLF 5.08/../180FI



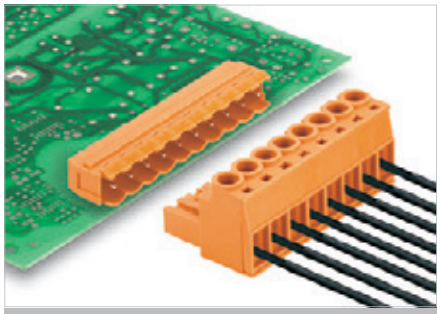
Dimensioned drawing



Ordering data

Solder pin length					
Colour				Orange	Black
Pitch	5.08 mm				
Pol.	L1	(inch)	Qty.	Order No.	Order No.
2	5.08	0.200	90	1336400000	1336040000
3	10.16	0.400	72	1336410000	1336050000
4	15.24	0.600	60	1336420000	1336070000
5	20.32	0.800	54	1336430000	1336080000
6	25.40	1.000	42	1336440000	1336090000
7	30.48	1.200	42	1336450000	1336100000
8	35.56	1.400	36	1336470000	1336110000
9	40.64	1.600	30	1336480000	1336120000
10	45.72	1.800	30	1336490000	1336130000
11	50.80	2.000	24	1336500000	1336140000
12	55.88	2.200	24	1336510000	1336150000

BLZP 5.08/../180



The BLZP is the functional extension of the BLZ series. The „P" in the part name stands for a plus in security and performance in processing and use.

- WIRE READY – delivered with terminal points already opened
- Power tools can be used with the globally compatible plus/minus screw head
- Folded steel clamping yoke accommodates the connected wire and compensates for temperature fluctuations
- The integrated wire guard prevents dangerous under-insertion of the wire from occurring.
- Lock and release-lever: tool-less locking and gentle releasing of the connector reduces the mechanical stress on the solder joints.

Product data

IEC: 400 V / 19 A / 0.2 - 4 mm²
UL: 300 V / 15 A / AWG 30 - 12

For additional articles and information, refer to catalog.weidmueller.com

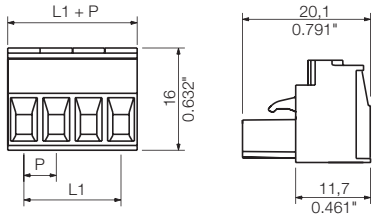
Note:

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

BLZP 5.08/../180



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm²	0.13...4		
Solid core H05(07) V-U	**mm²**	**0.2...4**		
Stranded H07 V-R				
Flexible H05(07) V-K	mm²	0.2...4		
Flexible with ferrule	mm²	0.2...4		
Ferrule with plastic collar	mm²	0.2...2.5		
Stripping length	mm	7		
Screwdriver blade	mm	0.6 x 3.5, PH 0, PZ 0		
According to norm				
Tightening torque range	Nm	0.4...0.5		
Rated current, max.	**A**	**19**		**16**
At ambient temperature		20°C		40°C
For conductor cross-section	mm²	4		
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	**V**	**250**	**320**	**400**
Rated impulse voltage	kV	4	4	4
UL / CUL (Use Group)		**B**	**C**	**D**
Rated voltage	**V**	**300**		**300**
Rated current	**A**	**15**		**10**
AWG conductor	**AWG**		**30-12**	
CSA (Use Group)		**B**	**C**	**D**
Rated voltage	V	300	50	300
Rated current	A	10		10
AWG conductor	AWG		30-12	
General data				
Type of insulation material			PBT	
UL 94 flammability rating			V-0	
Contact base material			Copper alloy	
Material of contact surface			tinned	
Pin dimensions = d	mm			
Solder eyelet Ø = D	mm			
Solder eyelet Ø tolerance	mm			

Accessories

Note: Refer to the Accessories chapter for additional accessories.

Strain relief		Order No.
	BLZ 5.08 ZE4 OR	1652110000
	BLZ 5.08 ZE4 SW	1652130000
	BLZ 5.08 ZE8 OR	1652050000
	BLZ 5.08 ZE8 SW	1652070000
Coding		
	BLZ/SL KO OR	1573010000
	BLZ/SL KO SW	1545710000
Screwdriver		
	SDIS 0.6X3.5X100	9008390000
	SDS 0.6X3.5X100	9008330000
Crosshead screwdriver		
	SDK PH1	9008480000
	SDK PZ1	9008530000

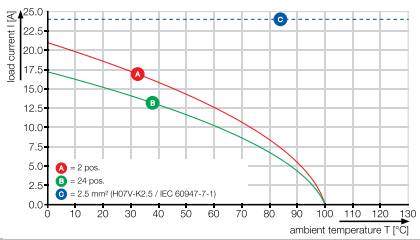
Ordering data

Solder pin length

Colour				Orange	Black
Pitch	**5.08 mm**				
Pol.	**L1**	**(inch)**	**Qty.**	**Order No.**	**Order No.**
2	5.08	0.200	100	1943580000	1943810000
3	10.16	0.400	100	1943590000	1943820000
4	15.24	0.600	100	1943600000	1943830000
5	20.32	0.800	45	1943610000	1943840000
6	25.40	1.000	45	1943620000	1943850000
7	30.48	1.200	45	1943630000	1943860000
8	35.56	1.400	45	1943640000	1943870000
9	40.64	1.600	45	1943650000	1943880000
10	45.72	1.800	45	1943660000	1943890000
11	50.80	2.000	36	1943670000	1943900000
12	55.88	2.200	36	1943680000	1943910000
13	60.96	2.400	36	1943690000	1943920000
14	66.04	2.600	27	1943700000	1943930000
15	71.12	2.800	27	1943710000	1943940000
16	76.20	3.000	27	1943720000	1943950000
17	81.28	3.200	18	1943730000	1943960000
18	86.36	3.400	18	1943740000	1943970000
19	91.44	3.600	18	1943750000	1943980000
20	96.52	3.800	18	1943760000	1943990000
21	101.60	4.000	18	1943770000	1944000000
22	106.68	4.200	18	1943780000	1944010000
23	111.76	4.400	18	1943790000	1944020000
24	116.84	4.600	18	1943800000	1944030000

Representative deratings curve

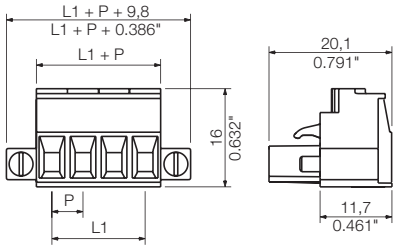
BLZP 5.08/../180 - SL 5.08/../90



BLZP 5.08/../180F



Dimensioned drawing



Ordering data

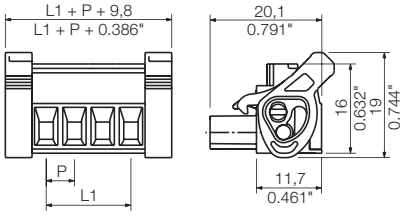
Solder pin length				Orange	Black
Colour					
Pitch	5.08 mm				
Pol.	L1	(inch)	Qty.	Order No.	Order No.
2	5.08	0.200	90	1944090000	1944330000
3	10.16	0.400	72	1944100000	1944340000
4	15.24	0.600	60	1944110000	1944350000
5	20.32	0.800	48	1944120000	1944360000
6	25.40	1.000	42	1944130000	1944370000
7	30.48	1.200	36	1944140000	1944380000
8	35.56	1.400	36	1944150000	1944390000
9	40.64	1.600	30	1944160000	1944400000
10	45.72	1.800	30	1944170000	1944410000
11	50.80	2.000	24	1944180000	1944420000
12	55.88	2.200	24	1944190000	1944430000
13	60.96	2.400	24	1944200000	1944440000
14	66.04	2.600	18	1944210000	1944450000
15	71.12	2.800	18	1944220000	1944460000
16	76.20	3.000	18	1944230000	1944470000
17	81.28	3.200	18	1944240000	1944480000
18	86.36	3.400	18	1944250000	1944490000
19	91.44	3.600	12	1944260000	1944500000
20	96.52	3.800	12	1944270000	1944510000
21	101.60	4.000	12	1944280000	1944520000
22	106.68	4.200	12	1944290000	1944530000
23	111.76	4.400	12	1944300000	1944540000
24	116.84	4.600	12	1944310000	1944550000

BLZP 5.08/../180LR

with release latch



Dimensioned drawing

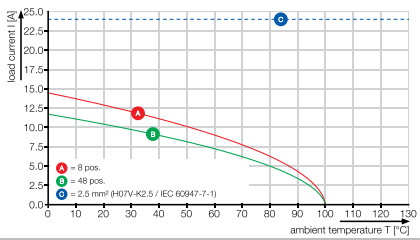


Ordering data

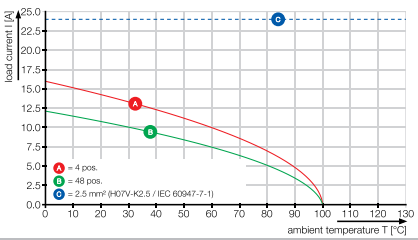
Solder pin length				Orange	Black
Colour					
Pitch	5.08 mm				
Pol.	L1	(inch)	Qty.	Order No.	Order No.
2	5.08	0.200	90	1944830000	1945060000
3	10.16	0.400	72	1944840000	1945070000
4	15.24	0.600	60	1944850000	1945080000
5	20.32	0.800	48	1944860000	1945090000
6	25.40	1.000	42	1944870000	1945100000
7	30.48	1.200	36	1944880000	1945110000
8	35.56	1.400	36	1944890000	1945120000
9	40.64	1.600	30	1944900000	1945130000
10	45.72	1.800	30	1944910000	1945140000
11	50.80	2.000	24	1944920000	1945150000
12	55.88	2.200	24	1944930000	1945160000
13	60.96	2.400	24	1944940000	1945170000
14	66.04	2.600	18	1944950000	1945180000
15	71.12	2.800	18	1944960000	1945190000
16	76.20	3.000	18	1944970000	1945200000
17	81.28	3.200	18	1944980000	1945210000
18	86.36	3.400	18	1944990000	1945220000
19	91.44	3.600	12	1945000000	1945230000
20	96.52	3.800	12	1945010000	1945240000
21	101.60	4.000	12	1945020000	1945250000
22	106.68	4.200	12	1945030000	1945260000
23	111.76	4.400	12	1945040000	1945270000
24	116.84	4.600	12	1945050000	1945280000

Additional deratings curves

BLZP 5.08/../180 - SLDV-THR 5.08/../180



BLZP 5.08/../180 - SLD 5.08/../180G

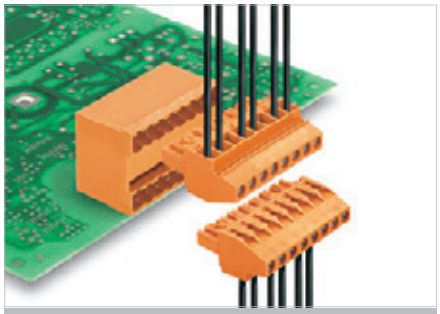


The 2-in-1 contact

Every pluggable connector covers two contact points and thus must meet two different requirements: First, the wire termination and second, the connection between plug and pin header. Referring to the 5.0x pitch series, Weidmüller offers different wire connection technologies, but one platform contact for the male / female connection since years. This well-designed hybride platform contact ensures a constant quality on a very high level.
Hybride means, that we combine metal material featuring different characteristics by welding, in order to devide the contact system into different function zones: Further to the high electric conductance, the current bar is characterized by its hardness, and the tulip contact by its excellent tension properties. The advantage: each function is supported by the most suitable material to reliably and constantly meet the different electrical and mechanical requirements. To put it in a nutshell: Instead of either ... or, it´s even both - perfect for the current,
and perfect for the force.



BLZP 5.08/../90



The BLZP is the functional extension of the BLZ series. The „P" in the part name stands for a plus in security and performance in processing and use.

- WIRE READY – delivered with terminal points already opened
- Power tools can be used with the globally compatible plus/minus screw head
- Folded steel clamping yoke accommodates the connected wire and compensates for temperature fluctuations
- The integrated wire guard prevents dangerous under-insertion of the wire from occurring.
- Lock and release-lever: tool-less locking and gentle releasing of the connector reduces the mechanical stress one the solder joints.

Product data

IEC: 400 V / 15.5 A / 0.2 - 4 mm²
UL: 300 V / 15 A / AWG 30 - 12

For additional articles and information, refer to catalog.weidmueller.com

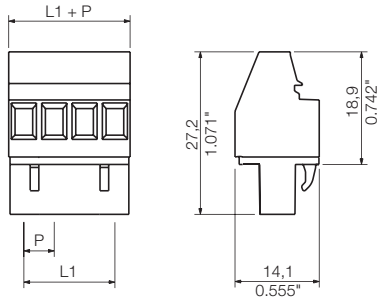
Note:

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

BLZP 5.08/../90



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm²	0.13...4		
Solid core H05(07) V-U	**mm²**	**0.2...4**		
Stranded H07 V-R				
Flexible H05(07) V-K	mm²	0.2...4		
Flexible with ferrule	mm²	0.2...4		
Ferrule with plastic collar	mm²	0.2...2.5		
Stripping length	mm	7		
Screwdriver blade	mm	0.6 x 3.5, PH 0, PZ 0		
According to norm				
Tightening torque range	Nm	0.4...0.5		
Rated current, max.	**A**	**15.5**		**12**
At ambient temperature		20°C		40°C
For conductor cross-section	mm²	4		
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	**V**	**250**	**320**	**400**
Rated impulse voltage	kV	4	4	4
UL / CUL (Use Group)		**B**	**C**	**D**
Rated voltage	**V**	**300**		**300**
Rated current	**A**	**15**		**10**
AWG conductor	**AWG**		**30-12**	
CSA (Use Group)		**B**	**C**	**D**
Rated voltage	V	300	50	300
Rated current	A	10		10
AWG conductor	AWG		30-12	
General data				
Type of insulation material			PBT	
UL 94 flammability rating			V-0	
Contact base material			Copper alloy	
Material of contact surface			tinned	
Pin dimensions = d	mm			
Solder eyelet Ø = D	mm			
Solder eyelet Ø tolerance	mm			

Accessories

Note: Refer to the Accessories chapter for additional accessories.

Coding		Order No.
	BLZ/SL KO OR	**1573010000**
	BLZ/SL KO SW	**1545710000**
Screwdriver		
	SDIS 0.6X3.5X100	**9008390000**
	SDS 0.6X3.5X100	**9008330000**
Crosshead screwdriver		
	SDK PH1	**9008480000**
	SDK PZ1	**9008530000**

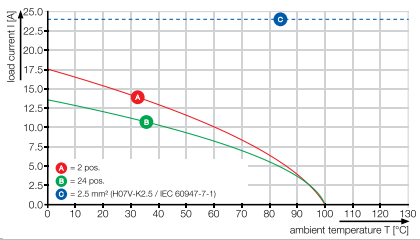
Ordering data

Solder pin length

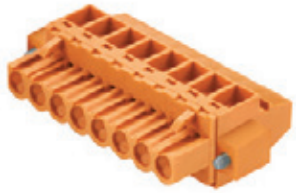
Colour				Orange	Black
Pitch	**5.08 mm**				
Pol.	**L1**	**(inch)**	**Qty.**	**Order No.**	**Order No.**
2	5.08	0.200	180	**1948000000**	**1948240000**
3	10.16	0.400	120	**1948010000**	**1948250000**
4	15.24	0.600	90	**1948020000**	**1948260000**
5	20.32	0.800	72	**1948030000**	**1948270000**
6	25.40	1.000	60	**1948040000**	**1948280000**
7	30.48	1.200	48	**1948050000**	**1948290000**
8	35.56	1.400	42	**1948060000**	**1948300000**
9	40.64	1.600	36	**1948070000**	**1948310000**
10	45.72	1.800	36	**1948080000**	**1948320000**
11	50.80	2.000	30	**1948100000**	**1948330000**
12	55.88	2.200	30	**1948110000**	**1948340000**
13	60.96	2.400	24	**1948120000**	**1948350000**
14	66.04	2.600	24	**1948130000**	**1948360000**
15	71.12	2.800	24	**1948140000**	**1948370000**
16	76.20	3.000	18	**1948150000**	**1948380000**
17	81.28	3.200	18	**1948160000**	**1948390000**
18	86.36	3.400	18	**1948170000**	**1948400000**
19	91.44	3.600	18	**1948180000**	**1948410000**
20	96.52	3.800	18	**1948190000**	**1948420000**
21	101.60	4.000	12	**1948200000**	**1948430000**
22	106.68	4.200	12	**1948210000**	**1948440000**
23	111.76	4.400	12	**1948220000**	**1948450000**
24	116.84	4.600	12	**1948230000**	**1948460000**

Representative deratings curve

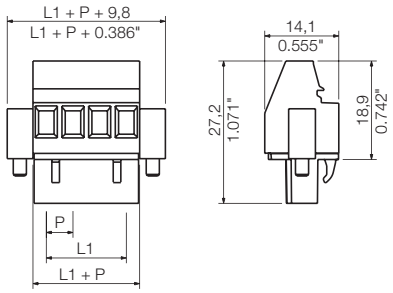
BLZP 5.08/../90 - SL 5.08/../90



BLZP 5.08/../90F



Dimensioned drawing



Ordering data

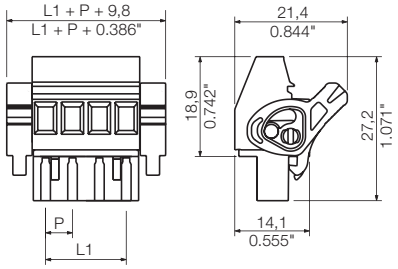
Solder pin length					
Colour				Orange	Black
Pitch	5.08 mm				
Pol.	L1	(inch)	Qty.	Order No.	Order No.
2	5.08	0.200	90	1949800000	1950040000
3	10.16	0.400	72	1949810000	1950050000
4	15.24	0.600	60	1949820000	1950060000
5	20.32	0.800	48	1949830000	1950070000
6	25.40	1.000	42	1949840000	1950080000
7	30.48	1.200	36	1949850000	1950090000
8	35.56	1.400	36	1949860000	1950100000
9	40.64	1.600	30	1949870000	1950110000
10	45.72	1.800	30	1949880000	1950120000
11	50.80	2.000	24	1949890000	1950130000
12	55.88	2.200	24	1949900000	1950140000
13	60.96	2.400	24	1949910000	1950150000
14	66.04	2.600	18	1949920000	1950160000
15	71.12	2.800	18	1949930000	1950170000
16	76.20	3.000	18	1949940000	1950180000
17	81.28	3.200	18	1949950000	1950190000
18	86.36	3.400	18	1949960000	1950200000
19	91.44	3.600	12	1949970000	1950210000
20	96.52	3.800	12	1949980000	1950220000
21	101.60	4.000	12	1949990000	1950230000
22	106.68	4.200	12	1950010000	1950240000
23	111.76	4.400	12	1950020000	1950250000
24	116.84	4.600	12	1950030000	1950260000

BLZP 5.08/../90LR

with release latch



Dimensioned drawing



Ordering data

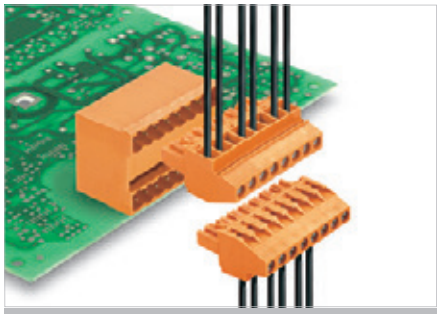
Solder pin length					
Colour				Orange	Black
Pitch	5.08 mm				
Pol.	L1	(inch)	Qty.	Order No.	Order No.
2	5.08	0.200	90	1087250000	1087020000
3	10.16	0.400	72	1087260000	1087030000
4	15.24	0.600	60	1087270000	1087040000
5	20.32	0.800	48	1087280000	1087050000
6	25.40	1.000	42	1087290000	1087060000
7	30.48	1.200	36	1087300000	1087070000
8	35.56	1.400	36	1087310000	1087080000
9	40.64	1.600	30	1087320000	1087100000
10	45.72	1.800	30	1087330000	1087110000
11	50.80	2.000	24	1087340000	1087120000
12	55.88	2.200	24	1087350000	1087130000
13	60.96	2.400	24	1087360000	1087140000
14	66.04	2.600	18	1087370000	1087150000
15	71.12	2.800	18	1087380000	1087160000
16	76.20	3.000	18	1087390000	1068510000
17	81.28	3.200	18	1087400000	1087170000
18	86.36	3.400	18	1087410000	1087180000
19	91.44	3.600	12	1087420000	1087190000
20	96.52	3.800	12	1087430000	1087200000
21	101.60	4.000	12	1087440000	1087210000
22	106.68	4.200	12	1087450000	1087220000
23	111.76	4.400	12	1087460000	1087230000
24	116.84	4.600	12	1087470000	1087240000

The 2-in-1 contact

Every pluggable connector covers two contact points and thus must meet two different requirements: First, the wire termination and second, the connection between plug and pin header. Referring to the 5.0x pitch series, Weidmüller offers different wire connection technologies, but one platform contact for the male / female connection since years. This well-designed hybride platform contact ensures a constant quality on a very high level.
Hybride means, that we combine metal material featuring different characteristics by welding, in order to devide the contact system into different function zones: Further to the high electric conductance, the current bar is characterized by its hardness, and the tulip contact by its excellent tension properties. The advantage: each function is supported by the most suitable material to reliably and constantly meet the different electrical and mechanical requirements. To put it in a nutshell: Instead of either ... or, it´s even both - perfect for the current, and perfect for the force.



BLZP 5.08/../270



The BLZP is the functional extension of the BLZ series. The „P" in the part name stands for a plus in security and performance in processing and use.

- WIRE READY – delivered with terminal points already opened
- Power tools can be used with the globally compatible plus/minus screw head
- Folded steel clamping yoke accommodates the connected wire and compensates for temperature fluctuations
- The integrated wire guard prevents dangerous under-insertion of the wire from occurring.
- Lock and release-lever: tool-less locking and gentle releasing of the connector reduces the mechanical stress one the solder joints.

Product data

IEC: 400 V / 15.5 A / 0.2 - 4 mm²
UL: 300 V / 15 A / AWG 30 - 12

For additional articles and information, refer to catalog.weidmueller.com

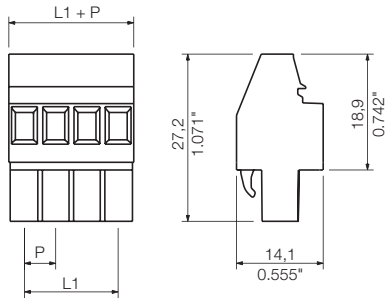
Note:

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

BLZP 5.08/../270



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm²	0.13...4		
Solid core H05(07) V-U	**mm²**	**0.2...4**		
Stranded H07 V-R				
Flexible H05(07) V-K	mm²	0.2...4		
Flexible with ferrule	mm²	0.2...4		
Ferrule with plastic collar	mm²	0.2...2.5		
Stripping length	mm	7		
Screwdriver blade	mm	0.6 x 3.5, PH 0, PZ 0		
According to norm				
Tightening torque range	Nm	0.4...0.5		
Rated current, max.	**A**	**15.5**		**12**
At ambient temperature		20°C		40°C
For conductor cross-section	mm²	4		
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	**V**	**250**	**320**	**400**
Rated impulse voltage	kV	4	4	4
UL / CUL (Use Group)		**B**	**C**	**D**
Rated voltage	**V**	**300**		**300**
Rated current	**A**	**15**		**10**
AWG conductor	**AWG**		**30-12**	
CSA (Use Group)		**B**	**C**	**D**
Rated voltage	V	300	50	300
Rated current	A	10		10
AWG conductor	AWG		30-12	
General data				
Type of insulation material			PBT	
UL 94 flammability rating			V-0	
Contact base material			Copper alloy	
Material of contact surface			tinned	
Pin dimensions = d	mm			
Solder eyelet Ø = D	mm			
Solder eyelet Ø tolerance	mm			

Accessories

Note: Refer to the Accessories chapter for additional accessories.

Coding		Order No.
	BLZ/SL KO OR	1573010000
	BLZ/SL KO SW	1545710000
Screwdriver		
	SDIS 0.6X3.5X100	9008390000
	SDS 0.6X3.5X100	9008330000
Crosshead screwdriver		
	SDK PH1	9008480000
	SDK PZ1	9008530000

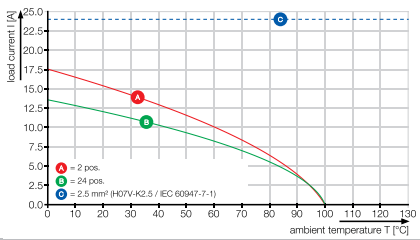
Ordering data

Solder pin length

Colour				Orange	Black
Pitch	**5.08 mm**				
Pol.	L1	(inch)	**Qty.**	**Order No.**	**Order No.**
2	5.08	0.200	180	1948790000	1949020000
3	10.16	0.400	120	1948800000	1949030000
4	15.24	0.600	90	1948810000	1949040000
5	20.32	0.800	72	1948820000	1949050000
6	25.40	1.000	60	1948830000	1949060000
7	30.48	1.200	48	1948840000	1949070000
8	35.56	1.400	42	1948850000	1949080000
9	40.64	1.600	36	1948860000	1949090000
10	45.72	1.800	36	1948870000	1949100000
11	50.80	2.000	30	1948880000	1949110000
12	55.88	2.200	30	1948890000	1949120000
13	60.96	2.400	24	1948900000	1949130000
14	66.04	2.600	24	1948910000	1949140000
15	71.12	2.800	24	1948920000	1949150000
16	76.20	3.000	18	1948930000	1949160000
17	81.28	3.200	18	1948940000	1949170000
18	86.36	3.400	18	1948950000	1949180000
19	91.44	3.600	18	1948960000	1949190000
20	96.52	3.800	18	1948970000	1949200000
21	101.60	4.000	12	1948980000	1949210000
22	106.68	4.200	12	1948990000	1949220000
23	111.76	4.400	12	1949000000	1949230000
24	116.84	4.600	12	1949010000	1949240000

Representative deratings curve

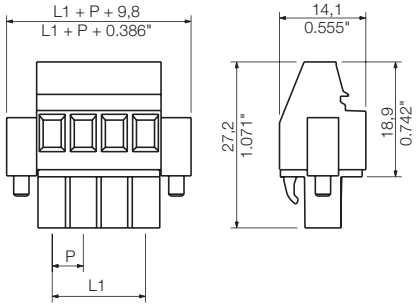
BLZP 5.08/../270 - SL 5.08/../90



BLZP 5.08/../270F



Dimensioned drawing



Ordering data

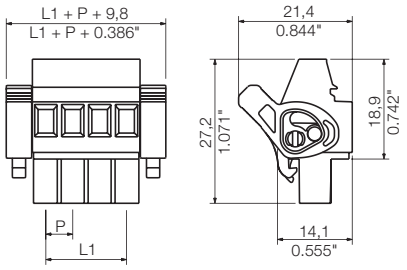
Solder pin length					
Colour				Orange	Black
Pitch	5.08 mm				
Pol.	L1	(inch)	Qty.	Order No.	Order No.
2	5.08	0.200	90	1950310000	1950550000
3	10.16	0.400	72	1950320000	1950560000
4	15.24	0.600	60	1950330000	1950570000
5	20.32	0.800	48	1950340000	1950580000
6	25.40	1.000	42	1950350000	1950620000
7	30.48	1.200	36	1950360000	1950630000
8	35.56	1.400	36	1950370000	1950640000
9	40.64	1.600	30	1950380000	1950650000
10	45.72	1.800	30	1950390000	1950660000
11	50.80	2.000	24	1950400000	1950670000
12	55.88	2.200	24	1950410000	1950690000
13	60.96	2.400	24	1950420000	1950700000
14	66.04	2.600	18	1950430000	1950710000
15	71.12	2.800	18	1950440000	1950720000
16	76.20	3.000	18	1950450000	1950730000
17	81.28	3.200	18	1950460000	1950740000
18	86.36	3.400	18	1950470000	1950750000
19	91.44	3.600	12	1950480000	1950760000
20	96.52	3.800	12	1950490000	1950770000
21	101.60	4.000	12	1950500000	1950780000
22	106.68	4.200	12	1950510000	1950790000
23	111.76	4.400	12	1950520000	1950800000
24	116.84	4.600	12	1950540000	1950810000

BLZP 5.08/../270LR

with release latch



Dimensioned drawing



Ordering data

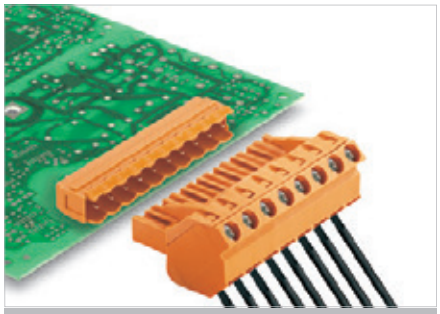
Solder pin length					
Colour				Orange	Black
Pitch	5.08 mm				
Pol.	L1	(inch)	Qty.	Order No.	Order No.
2	5.08	0.200	90	1947530000	1947760000
3	10.16	0.400	72	1947540000	1947770000
4	15.24	0.600	60	1947550000	1947780000
5	20.32	0.800	48	1947560000	1947790000
6	25.40	1.000	42	1947570000	1947800000
7	30.48	1.200	36	1947580000	1947810000
8	35.56	1.400	36	1947590000	1947820000
9	40.64	1.600	30	1947600000	1947830000
10	45.72	1.800	30	1947610000	1947840000
11	50.80	2.000	24	1947620000	1947850000
12	55.88	2.200	24	1947630000	1947860000
13	60.96	2.400	24	1947640000	1947870000
14	66.04	2.600	18	1947650000	1947880000
15	71.12	2.800	18	1947660000	1947890000
16	76.20	3.000	18	1947670000	1947900000
17	81.28	3.200	18	1947680000	1947910000
18	86.36	3.400	18	1947690000	1947920000
19	91.44	3.600	12	1947700000	1947930000
20	96.52	3.800	12	1947710000	1947940000
21	101.60	4.000	12	1947720000	1947950000
22	106.68	4.200	12	1947730000	1947960000
23	111.76	4.400	12	1947740000	1947970000
24	116.84	4.600	12	1947750000	1947980000

The 2-in-1 contact

Every pluggable connector covers two contact points and thus must meet two different requirements: First, the wire termination and second, the connection between plug and pin header. Referring to the 5.0x pitch series, Weidmüller offers different wire connection technologies, but one platform contact for the male / female connection since years. This well-designed hybride platform contact ensures a constant quality on a very high level.
Hybride means, that we combine metal material featuring different characteristics by welding, in order to devide the contact system into different function zones: Further to the high electric conductance, the current bar is characterized by its hardness, and the tulip contact by its excellent tension properties. The advantage: each function is supported by the most suitable material to reliably and constantly meet the different electrical and mechanical requirements. To put it in a nutshell: Instead of either ... or, it´s even both - perfect for the current,
and perfect for the force.



BLZP 5.08/../225



The BLZP is the functional extension of the BLZ series. The „P" in the part name stands for a plus in security and performance in processing and use.

- WIRE READY – delivered with terminal points already opened
- Power tools can be used with the globally compatible plus/minus screw head
- Folded steel clamping yoke accommodates the connected wire and compensates for temperature fluctuations
- The integrated wire guard prevents dangerous under-insertion of the wire from occurring.
- Lock and release-lever: tool-less locking and gentle releasing of the connector reduces the mechanical stress one the solder joints.

Product data

IEC: 400 V / 17.5 A / 0.2 - 4 mm²
UL: 300 V / 15 A / AWG 30 - 12

For additional articles and information, refer to catalog.weidmueller.com

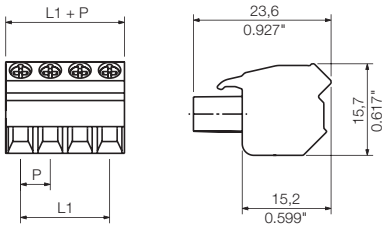
Note:

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

BLZP 5.08/../225



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm²	0.13...4		
Solid core H05(07) V-U	**mm²**	**0.2...4**		
Stranded H07 V-R				
Flexible H05(07) V-K	mm²	0.2...4		
Flexible with ferrule	mm²	0.2...4		
Ferrule with plastic collar	mm²	0.2...2.5		
Stripping length	mm	7		
Screwdriver blade	mm	0.6 x 3.5, PH 0, PZ 0		
According to norm				
Tightening torque range	Nm	0.4...0.5		
Rated current, max.	**A**	**17.5**		**14**
At ambient temperature		20°C		40°C
For conductor cross-section	mm²	4		
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	**V**	**250**	**320**	**400**
Rated impulse voltage	kV	4	4	4
UL / CUL (Use Group)		**B**	**C**	**D**
Rated voltage	**V**	**300**		**300**
Rated current	**A**	**15**		**10**
AWG conductor	**AWG**		**30-12**	
CSA (Use Group)		**B**	**C**	**D**
Rated voltage	V	300	50	300
Rated current	A	10		10
AWG conductor	AWG		30-12	
General data				
Type of insulation material			PBT	
UL 94 flammability rating			V-0	
Contact base material			Copper alloy	
Material of contact surface			tinned	
Pin dimensions = d	mm			
Solder eyelet Ø = D	mm			
Solder eyelet Ø tolerance	mm			

Accessories

Note: Refer to the Accessories chapter for additional accessories.

Coding		Order No.
	BLZ/SL KO OR	1573010000
	BLZ/SL KO SW	1545710000
Screwdriver		
	SDIS 0.6X3.5X100	9008390000
	SDS 0.6X3.5X100	9008330000
Crosshead screwdriver		
	SDK PH1	9008480000
	SDK PZ1	9008530000

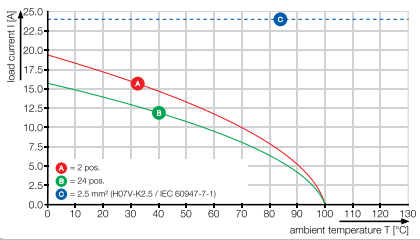
Ordering data

Solder pin length

Colour				Orange	Black
Pitch	**5.08 mm**				
Pol.	**L1**	**(inch)**	**Qty.**	**Order No.**	**Order No.**
2	5.08	0.200	180	1946250000	1946560000
3	10.16	0.400	120	1946260000	1946570000
4	15.24	0.600	90	1946270000	1946580000
5	20.32	0.800	72	1946280000	1946590000
6	25.40	1.000	60	1946290000	1946600000
7	30.48	1.200	48	1946300000	1946610000
8	35.56	1.400	42	1946310000	1946620000
9	40.64	1.600	36	1946320000	1946630000
10	45.72	1.800	36	1946330000	1946640000
11	50.80	2.000	30	1946340000	1946650000
12	55.88	2.200	30	1946350000	1946660000
13	60.96	2.400	24	1946360000	1946670000
14	66.04	2.600	24	1946370000	1946680000
15	71.12	2.800	24	1946380000	1946690000
16	76.20	3.000	18	1946390000	1946700000
17	81.28	3.200	18	1946400000	1946710000
18	86.36	3.400	18	1946410000	1946720000
19	91.44	3.600	18	1946420000	1946730000
20	96.52	3.800	18	1946430000	1946740000
21	101.60	4.000	12	1946440000	1946750000
22	106.68	4.200	12	1946450000	1946760000
23	111.76	4.400	12	1946460000	1946770000
24	116.84	4.600	12	1946480000	1946780000

Representative deratings curve

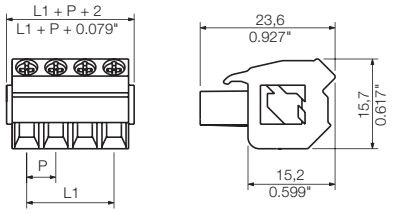
BLZP 5.08/../225 - SL 5.08/../90



BLZP 5.08/../225B



Dimensioned drawing



Ordering data

Solder pin length

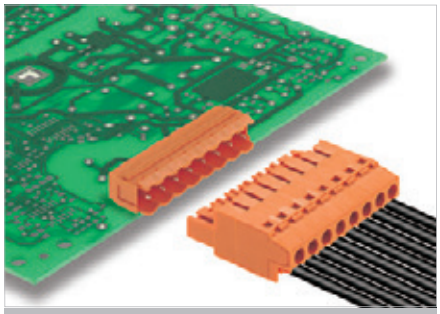
Colour				Orange	Black
Pitch	**5.08 mm**				
Pol.	L1	(inch)	**Qty.**	**Order No.**	**Order No.**
2	5.08	0.200	150	**1945750000**	**1945980000**
3	10.16	0.400	108	**1945760000**	**1945990000**
4	15.24	0.600	78	**1945770000**	**1946000000**
5	20.32	0.800	66	**1945780000**	**1946010000**
6	25.40	1.000	54	**1945790000**	**1946020000**
7	30.48	1.200	48	**1945800000**	**1946030000**
8	35.56	1.400	42	**1945810000**	**1946040000**
9	40.64	1.600	36	**1945820000**	**1946050000**
10	45.72	1.800	30	**1945830000**	**1946060000**
11	50.80	2.000	30	**1945840000**	**1946070000**
12	55.88	2.200	24	**1945850000**	**1946080000**
13	60.96	2.400	24	**1945860000**	**1946090000**
14	66.04	2.600	24	**1945870000**	**1946100000**
15	71.12	2.800	24	**1945880000**	**1946110000**
16	76.20	3.000	18	**1945890000**	**1946120000**
17	81.28	3.200	18	**1945900000**	**1946130000**
18	86.36	3.400	18	**1945910000**	**1946140000**
19	91.44	3.600	18	**1945920000**	**1946150000**
20	96.52	3.800	18	**1945930000**	**1946160000**
21	101.60	4.000	12	**1945940000**	**1946170000**
22	106.68	4.200	12	**1945950000**	**1946180000**
23	111.76	4.400	12	**1945960000**	**1946190000**
24	116.84	4.600	12	**1945970000**	**1946200000**

The 2-in-1 contact

Every pluggable connector covers two contact points and thus must meet two different requirements: First, the wire termination and second, the connection between plug and pin header. Referring to the 5.0x pitch series, Weidmüller offers different wire connection technologies, but one platform contact for the male / female connection since years. This well-designed hybride platform contact ensures a constant quality on a very high level.
Hybride means, that we combine metal material featuring different characteristics by welding, in order to devide the contact system into different function zones: Further to the high electric conductance, the current bar is characterized by its hardness, and the tulip contact by its excellent tension properties. The advantage: each function is supported by the most suitable material to reliably and constantly meet the different electrical and mechanical requirements. To put it in a nutshell: Instead of either ... or, it´s even both - perfect for the current,
and perfect for the force.



BLT 5.08/../180



The BLT is currently the most compact TOP connection of its type available in 5.08 mm pitch.

- The BLT's „pull effect" ensures that the connected wire is pulled in to the clamping point.
- The extra flat shape allows for dense component assembly.
- The specialist for cramped installations
- The screw connect and the cable entry are located on the same side of the connector.
- Lock and release-lever: tool-less locking and gentle releasing of the connector reduces the mechanical stress one the solder joints.

Product data

IEC: 400 V / 17 A / 0.2 - 2.5 mm²
UL: 300 V / 10 A / AWG 26 - 14

For additional articles and information, refer to catalog.weidmueller.com

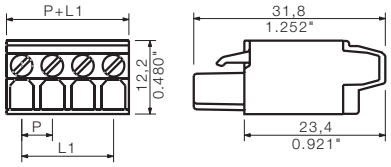
Note:

- Additional colours on request
- Gold-plated contact surfaces on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- Crimp form A for wire end ferrules with PZ 6/5 crimping tool are recommended for the largest cable sizes.
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

BLT 5.08/../180



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm²	0.13...2.5		
Solid core H05(07) V-U	**mm²**	**0.2...2.5**		
Stranded H07 V-R				
Flexible H05(07) V-K	mm²	0.2...1.5		
Flexible with ferrule	mm²	0.2...1.5		
Ferrule with plastic collar	mm²	0.2...1.5		
Stripping length	mm	13		
Screwdriver blade	mm	0.6 x 3.5		
According to norm		DIN 5264		
Tightening torque range	Nm	0.4...0.5		
Rated current, max.	**A**	**17**		**15**
At ambient temperature		20°C		40°C
For conductor cross-section	mm²	2.5		
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	**V**	**250**	**320**	**400**
Rated impulse voltage	kV	4	4	4
UL / CUL (Use Group)		**B**	**C**	**D**
Rated voltage	**V**	**300**		**300**
Rated current	**A**	**10**		**10**
AWG conductor	**AWG**	**26-14**		
CSA (Use Group)		**B**	**C**	**D**
Rated voltage	V	300		300
Rated current	A	10		10
AWG conductor	AWG	26-14		
General data				
Type of insulation material		PBT		
UL 94 flammability rating		V-0		
Contact base material		CuSn		
Material of contact surface		tinned		
Pin dimensions = d	mm			
Solder eyelet Ø = D	mm			
Solder eyelet Ø tolerance	mm			

Accessories

Note: Refer to the Accessories chapter for additional accessories.

Strain relief		Order No.
	BLAT ZE4 OR	1577980000
	BLAT ZE8 OR	1578010000
Coding		
	BLZ/SL KO OR	1573010000
	BLZ/SL KO SW	1545710000
Screwdriver		
	SDIS 0.6X3.5X100	9008390000
	SDS 0.6X3.5X100	9008330000

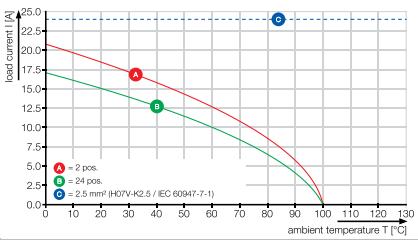
Ordering data

Solder pin length

Colour				Orange	Black
Pitch	**5.08 mm**				
Pol.	**L1**	**(inch)**	**Qty.**	**Order No.**	**Order No.**
2	5.08	0.200	180	1499560000	1499510000
3	10.16	0.400	120	1499660000	1499610000
4	15.24	0.600	90	1499760000	1499710000
5	20.32	0.800	72	1499860000	1499810000
6	25.40	1.000	60	1499960000	1499910000
7	30.48	1.200	48	1500060000	1500010000
8	35.56	1.400	42	1500160000	1500110000
9	40.64	1.600	36	1500260000	1500210000
10	45.72	1.800	36	1500360000	1500310000
11	50.80	2.000	30	1500460000	1500410000
12	55.88	2.200	30	1500560000	1500510000
13	60.96	2.400	24	1500660000	1500610000
14	66.04	2.600	24	1500760000	1500710000
15	71.12	2.800	24	1500860000	1500810000
16	76.20	3.000	18	1500960000	1500910000
17	81.28	3.200	18	1501060000	1501010000
18	86.36	3.400	18	1501160000	1501110000
19	91.44	3.600	18	1501260000	1501210000
20	96.52	3.800	18	1501360000	1501310000
21	101.60	4.000	12	1501460000	1501410000
22	106.68	4.200	12	1501560000	1501510000
23	111.76	4.400	12	1501660000	1501610000
24	116.84	4.600	12	1501760000	1501710000

Representative deratings curve

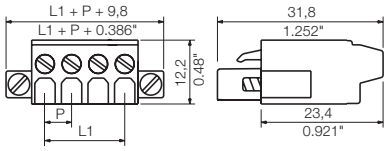
BLT 5.08/../180 - SL 5.08/../90



BLT 5.08/../180F



Dimensioned drawing



Ordering data

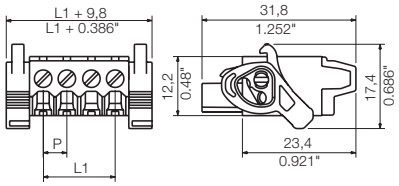
Solder pin length					
Colour				Orange	Black
Pitch	5.08 mm				
Pol.	L1	(inch)	Qty.	Order No.	Order No.
2	5.08	0.200	90	1843990000	1844220000
3	10.16	0.400	72	1844000000	1844230000
4	15.24	0.600	60	1844010000	1844240000
5	20.32	0.800	48	1844020000	1844250000
6	25.40	1.000	42	1844030000	1844260000
7	30.48	1.200	36	1844040000	1844270000
8	35.56	1.400	36	1844050000	1844280000
9	40.64	1.600	30	1844060000	1844290000
10	45.72	1.800	30	1844070000	1844300000
11	50.80	2.000	24	1844080000	1844310000
12	55.88	2.200	24	1844090000	1844320000
13	60.96	2.400	24	1844100000	1844330000
14	66.04	2.600	18	1844110000	1844340000
15	71.12	2.800	18	1844120000	1844350000
16	76.20	3.000	18	1844130000	1844360000
17	81.28	3.200	18	1844140000	1844370000
18	86.36	3.400	18	1844150000	1844380000
19	91.44	3.600	12	1844160000	1844390000
20	96.52	3.800	12	1844170000	1844400000
21	101.60	4.000	12	1844180000	1844410000
22	106.68	4.200	12	1844190000	1844420000
23	111.76	4.400	12	1844200000	1844430000
24	116.84	4.600	12	1844210000	1844440000

BLT 5.08/../180LR

with release bar



Dimensioned drawing



Ordering data

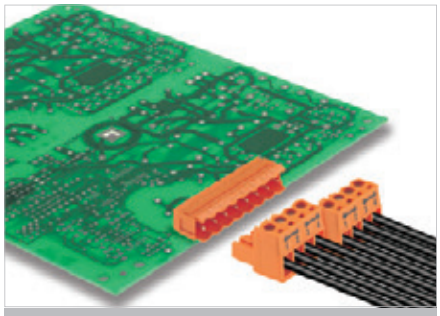
Solder pin length					
Colour				Orange	Black
Pitch	5.08 mm				
Pol.	L1	(inch)	Qty.	Order No.	Order No.
2	5.08	0.200	90	1890220000	1894130000
3	10.16	0.400	72	1890230000	1894140000
4	15.24	0.600	60	1890240000	1894150000
5	20.32	0.800	48	1890250000	1894160000
6	25.40	1.000	42	1890260000	1894170000
7	30.48	1.200	36	1890270000	1894180000
8	35.56	1.400	36	1890280000	1894190000
9	40.64	1.600	30	1890290000	1894200000
10	45.72	1.800	30	1890300000	1894210000
11	50.80	2.000	24	1890310000	1894220000
12	55.88	2.200	24	1890320000	1894230000
13	60.96	2.400	24	1890330000	1894240000
14	66.04	2.600	18	1890340000	1894250000
15	71.12	2.800	18	1890350000	1894260000
16	76.20	3.000	18	1890360000	1894270000
17	81.28	3.200	18	1890370000	1894280000
18	86.36	3.400	18	1890380000	1894290000
19	91.44	3.600	12	1890390000	1894310000
20	96.52	3.800	12	1890400000	1894330000
21	101.60	4.000	12	1890410000	1894340000
22	106.68	4.200	12	1890420000	1894350000
23	111.76	4.400	12	1890430000	1894360000
24	116.84	4.600	12	1890440000	1894370000

The 2-in-1 contact

Every pluggable connector covers two contact points and thus must meet two different requirements: First, the wire termination and second, the connection between plug and pin header. Referring to the 5.0x pitch series, Weidmüller offers different wire connection technologies, but one platform contact for the male / female connection since years. This well-designed hybride platform contact ensures a constant quality on a very high level.
Hybride means, that we combine metal material featuring different characteristics by welding, in order to devide the contact system into different function zones: Further to the high electric conductance, the current bar is characterized by its hardness, and the tulip contact by its excellent tension properties. The advantage: each function is supported by the most suitable material to reliably and constantly meet the different electrical and mechanical requirements. To put it in a nutshell: Instead of either ... or, it´s even both - perfect for the current, and perfect for the force.



BLZ 5.08/../180 QV2



Female plug with clamping-yoke screw connection and internal cross-connections for the 1-2 & 3-4 wire connections; with straight wire outlet.

- Bus signals of up to 32 A can be safely looped through
- This permits an interruption-free decoupling of individual modules from the network.
- Folded steel clamping yoke accommodates the connected wire and compensates for temperature fluctuations
- The cross-connections are clearly marked.

Product data

IEC: 400 V / 17.5 A / 0.2 - 2.5 mm²
UL: 300 V / 15 A / AWG 30 - 12

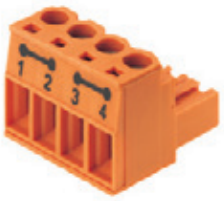
For additional articles and information, refer to catalog.weidmueller.com

Note:

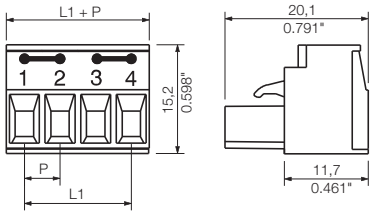
- Additional colours on request
- Gold-plated contact surfaces on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

BLZ 5.08/../180 QV2

with cross-connection



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm²	0.13...4		
Solid core H05(07) V-U	**mm²**	**0.2...2.5**		
Stranded H07 V-R				
Flexible H05(07) V-K	mm²	0.2...4		
Flexible with ferrule	mm²	0.2...2.5		
Ferrule with plastic collar	mm²	0.2...2.5		
Stripping length	mm	7		
Screwdriver blade	mm	0.6 x 3.5		
According to norm		DIN 5264		
Tightening torque range	Nm	0.4...0.5		
Rated current, max.	**A**	**17.5**		**15**
At ambient temperature		20°C		40°C
For conductor cross-section	mm²	2.5		
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	**V**	**250**	**320**	**400**
Rated impulse voltage	kV	4	4	4
UL / CUL (Use Group)		**B**	**C**	**D**
Rated voltage	**V**	**300**		**300**
Rated current	**A**	**15**		**10**
AWG conductor	**AWG**		**30-12**	
CSA (Use Group)		**B**	**C**	**D**
Rated voltage	V	300		300
Rated current	A	15		10
AWG conductor	AWG		30-12	
General data				
Type of insulation material			PBT	
UL 94 flammability rating			V-0	
Contact base material			Copper alloy	
Material of contact surface			tinned	
Pin dimensions = d	mm			
Solder eyelet Ø = D	mm			
Solder eyelet Ø tolerance	mm			

Accessories

Note: Refer to the Accessories chapter for additional accessories.

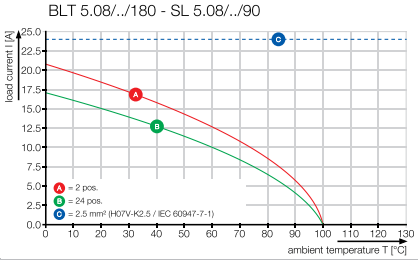
Strain relief		Order No.
	BLZ 5.08 ZE4 OR	**1652110000**
	BLZ 5.08 ZE4 SW	**1652130000**
	BLZ 5.08 ZE8 OR	**1652050000**
	BLZ 5.08 ZE8 SW	**1652070000**
Coding		
	BLZ/SL KO OR	**1573010000**
	BLZ/SL KO SW	**1545710000**
Screwdriver		
	SDIS 0.6X3.5X100	**9008390000**
	SDS 0.6X3.5X100	**9008330000**

Ordering data

Solder pin length

Colour				Orange	Black
Pitch	**5.08 mm**				
Pol.	L1	(inch)	Qty.	Order No.	Order No.
4	15.24	0.300	100	**1839770000**	**1839780000**

Representative deratings curve

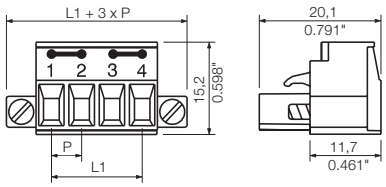


BLZ 5.08/../180F QV2

with cross-connection



Dimensioned drawing

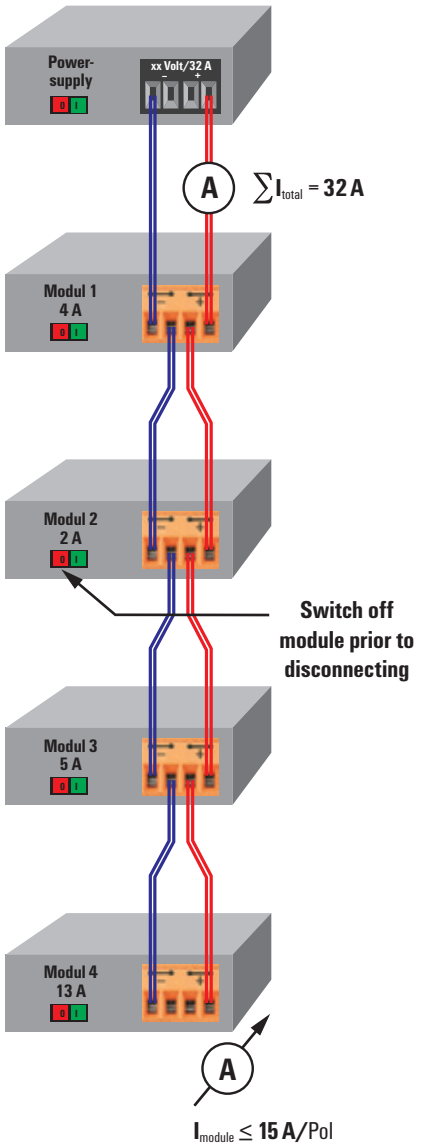


Ordering data

Solder pin length

Colour				Orange	Black
Pitch	**5.08 mm**				
Pol.	L1	(inch)	**Qty.**	**Order No.**	**Order No.**
4	15.24	0.300	100	**1846870000**	**1844500000**

Examples of applications



32 A maximum bus current

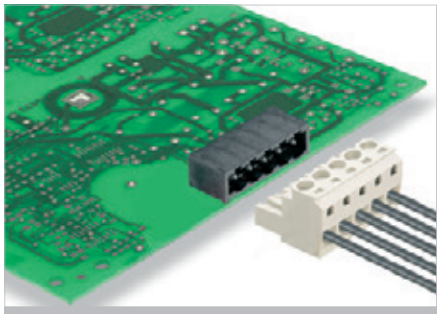
15 A maximum module current

The 2-in-1 contact

Every pluggable connector covers two contact points and thus must meet two different requirements: First, the wire termination and second, the connection between plug and pin header. Referring to the 5.0x pitch series, Weidmüller offers different wire connection technologies, but one platform contact for the male / female connection since years. This well-designed hybride platform contact ensures a constant quality on a very high level.
Hybride means, that we combine metal material featuring different characteristics by welding, in order to devide the contact system into different function zones: Further to the high electric conductance, the current bar is characterized by its hardness, and the tulip contact by its excellent tension properties. The advantage: each function is supported by the most suitable material to reliably and constantly meet the different electrical and mechanical requirements. To put it in a nutshell: Instead of either ... or, it´s even both - perfect for the current,
and perfect for the force.



BLZ DN 5.08/../180



Female plug with clamping-yoke screw connection and straight wire outlet; used as terminating piece in bus applications.

- A manual diagnosis can be carried out using the test point.
- The gold-plated contact system can be plugged in and disconnected up to 1000 times.
- DeviceNet colour markings are clearly visible
- Folded steel clamping yoke accommodates the connected wire and compensates for temperature fluctuations
- Availbale with screw flange (F).

Product data

IEC: 400 V / 15 A / 0.2 - 2.5 mm²
UL: 300 V / 15 A / AWG 22 - 12

For additional articles and information, refer to catalog.weidmueller.com

Note:

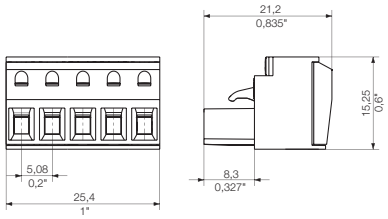
- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

BLZ DN 5.08/../180 AU

with test point



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm²	0.13...3.31		
Solid core H05(07) V-U	**mm²**	**0.2...2.5**		
Stranded H07 V-R				
Flexible H05(07) V-K	mm²	0.2...2.5		
Flexible with ferrule	mm²	0.2...2.5		
Ferrule with plastic collar	mm²	0.2...2.5		
Stripping length	mm	7		
Screwdriver blade	mm	0.6 x 3.5		
According to norm		DIN 5264		
Tightening torque range	Nm	0.4...0.5		
Rated current, max.	**A**	**15**		**12**
At ambient temperature		20°C		40°C
For conductor cross-section	mm²	2.5		
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	**V**	**250**	**320**	**400**
Rated impulse voltage	kV	4	4	4
UL / CUL (Use Group)		**B**	**C**	**D**
Rated voltage	**V**	**300**		**300**
Rated current	**A**	**15**		**10**
AWG conductor	**AWG**	**22-12**		
CSA (Use Group)		**B**	**C**	**D**
Rated voltage	V	300		300
Rated current	A	15		10
AWG conductor	AWG	26-12		
General data				
Type of insulation material		PBT		
UL 94 flammability rating		V-0		
Contact base material		Copper alloy		
Material of contact surface		Gold-plated		
Pin dimensions = d	mm			
Solder eyelet Ø = D	mm			
Solder eyelet Ø tolerance	mm			

Accessories

Note: Refer to the Accessories chapter for additional accessories.

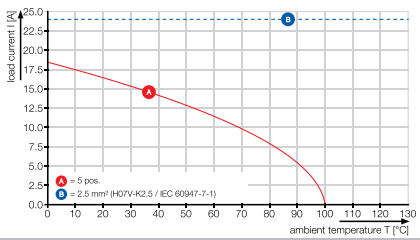
Strain relief		Order No.
	BLZ 5.08 ZE4 OR	**1652110000**
	BLZ 5.08 ZE4 SW	**1652130000**
Coding		
	BLZ/SL K0 OR	**1573010000**
	BLZ/SL K0 SW	**1545710000**
Screwdriver		
	SDIS 0.6X3.5X100	**9008390000**
	SDS 0.6X3.5X100	**9008330000**

Ordering data

Solder pin length				
Colour				Pebble grey
Pitch	**5.08 mm**			
Pol.	**L1**	**(inch)**	**Qty.**	**Order No.**
5	20.32	0.800	50	**1933560000**

Representative deratings curve

BLZ DN 5.08/../180 - SL DN 5.08/../90F

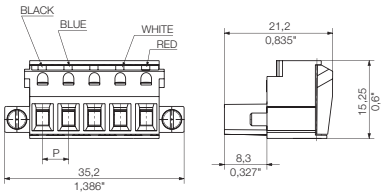


BLZ DN 5.08/../180F AU

with test point and connector guide



Dimensioned drawing



Ordering data

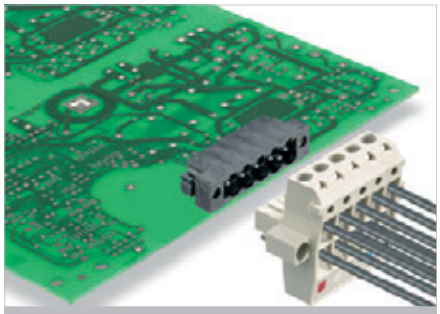
Solder pin length				
Colour				Pebble grey
Pitch	**5.08 mm**			
Pol.	L1	(inch)	**Qty.**	**Order No.**
5	20.32	0.800	50	**1933550000**
5	20.32	0.800	50	**1933570000**

The 2-in-1 contact

Every pluggable connector covers two contact points and thus must meet two different requirements: First, the wire termination and second, the connection between plug and pin header. Referring to the 5.0x pitch series, Weidmüller offers different wire connection technologies, but one platform contact for the male / female connection since years. This well-designed hybride platform contact ensures a constant quality on a very high level.
Hybride means, that we combine metal material featuring different characteristics by welding, in order to devide the contact system into different function zones: Further to the high electric conductance, the current bar is characterized by its hardness, and the tulip contact by its excellent tension properties. The advantage: each function is supported by the most suitable material to reliably and constantly meet the different electrical and mechanical requirements. To put it in a nutshell: Instead of either ... or, it´s even both - perfect for the current,
and perfect for the force.



BLDZ DN 5.08/../180F



Bus plug with two connections per pole, with clamping-yoke screw connection

- Bus signals can be safely looped through (e.g., DeviceNet)
- This permits an interruption-free decoupling of individual modules from the network.
- A manual diagnosis can be carried out using the test point.
- The gold-plated contact system can be plugged in and disconnected up to 1000 times.
- DeviceNet colour markings are clearly visible
- Folded steel clamping yoke accommodates the connected wire and compensates for temperature fluctuations

Product data

IEC: 400 V / 16 A / 0.2 - 2.5 mm²
UL: 300 V / 15 A / AWG 22 - 12

For additional articles and information, refer to catalog.weidmueller.com

Note:

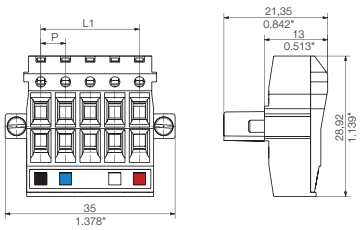
- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

BLDZ DN 5.08/../180F AU

with test point and connector guide



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm²	0.13...2.5		
Solid core H05(07) V-U	**mm²**	**0.2...2.5**		
Stranded H07 V-R				
Flexible H05(07) V-K	mm²	0.2...2.5		
Flexible with ferrule	mm²	0.2...2.5		
Ferrule with plastic collar	mm²	0.2...2.5		
Stripping length	mm	7		
Screwdriver blade	mm	0.6 x 3.5		
According to norm		DIN 5264		
Tightening torque range	Nm	0.4...0.5		
Rated current, max.	**A**	**16**		**14**
At ambient temperature		20°C		40°C
For conductor cross-section	mm²	2.5		
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	**V**	**250**	**320**	**400**
Rated impulse voltage	kV	4	4	4
UL / CUL (Use Group)		**B**	**C**	**D**
Rated voltage	**V**	**300**		**300**
Rated current	**A**	**15**		**10**
AWG conductor	**AWG**	**22-12**		
CSA (Use Group)		**B**	**C**	**D**
Rated voltage	V	300		300
Rated current	A	15		10
AWG conductor	AWG	26-12		
General data				
Type of insulation material		PBT		
UL 94 flammability rating		V-0		
Contact base material		Copper alloy		
Material of contact surface		Gold-plated		
Pin dimensions = d	mm			
Solder eyelet Ø = D	mm			
Solder eyelet Ø tolerance	mm			

Accessories

Note: Refer to the Accessories chapter for additional accessories.

Coding		Order No.
	BLZ/SL KO OR	**1573010000**
	BLZ/SL KO SW	**1545710000**
Screwdriver		
	SDIS 0.6X3.5X100	**9008390000**
	SDS 0.6X3.5X100	**9008330000**

Ordering data

Solder pin length

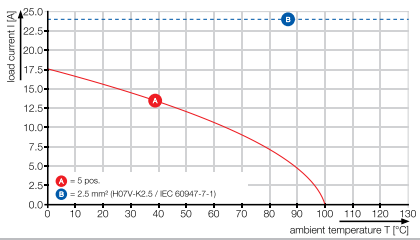
Colour — **Pebble grey**

Pitch 5.08 mm

Pol.	L1	(inch)	Qty.	Order No.
5	20.32	0.800	50	**1919990000**

Representative deratings curve

BLDZ DN 5.08/180 - SL DN 5.08/../90F

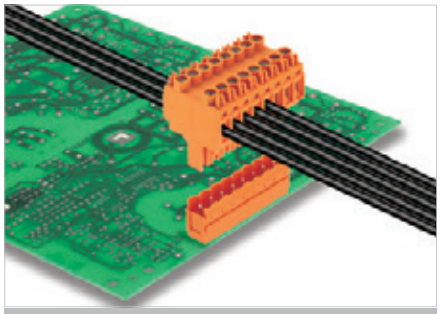


The 2-in-1 contact

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and perfect for the force.



BLDT 5.08/../180



Bus plug with two connections per pole, with clamping-yoke screw connection

- Bus signals can be safely looped through
- This permits an interruption-free decoupling of individual modules from the network.
- Large labelling area on the top side
- Folded steel clamping yoke accommodates the connected wire and compensates for temperature fluctuations

Product data

IEC: 400 V / 14 A / 0.2 - 2.5 mm²
UL: 300 V / 10 A / AWG 26 - 12

For additional articles and information, refer to catalog.weidmueller.com

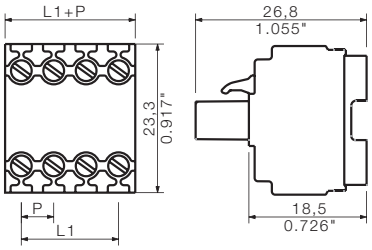
Note:

- Additional colours on request
- Gold-plated contact surfaces on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

BLDT 5.08/../180



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm²	0.13...3.31		
Solid core H05(07) V-U	**mm²**	**0.2...2.5**		
Stranded H07 V-R				
Flexible H05(07) V-K	mm²	0.2...2.5		
Flexible with ferrule	mm²	0.2...1.5		
Ferrule with plastic collar	mm²	0.2...1.5		
Stripping length	mm	7		
Screwdriver blade	mm	0.6 x 3.5		
According to norm		DIN 5264		
Tightening torque range	Nm	0.4...0.5		
Rated current, max.	**A**	**14**		**12**
At ambient temperature		20°C		40°C
For conductor cross-section	mm²	2.5		
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	**V**	**250**	**320**	**400**
Rated impulse voltage	kV	4	4	4
UL / CUL (Use Group)		**B**	**C**	**D**
Rated voltage	**V**	**300**		**300**
Rated current	**A**	**10**		**10**
AWG conductor	**AWG**	**26-12**		
CSA (Use Group)		**B**	**C**	**D**
Rated voltage	V	300		300
Rated current	A	10		10
AWG conductor	AWG	26-12		
General data				
Type of insulation material		PBT		
UL 94 flammability rating		V-0		
Contact base material		Copper alloy		
Material of contact surface		tinned		
Pin dimensions = d	mm			
Solder eyelet Ø = D	mm			
Solder eyelet Ø tolerance	mm			

Accessories

Note: Refer to the Accessories chapter for additional accessories.

Coding		Order No.
	BLZ/SL KO OR	1573010000
	BLZ/SL KO SW	1545710000

Screwdriver		
	SDIS 0.6X3.5X100	9008390000
	SDS 0.6X3.5X100	9008330000

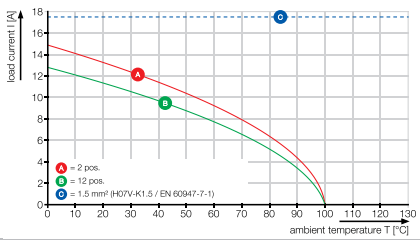
Ordering data

Solder pin length

Colour				Orange	Black
Pitch	**5.08 mm**				
Pol.	L1	(inch)	Qty.	Order No.	Order No.
2	5.08	0.200	100	1644730000	1660710000
3	10.16	0.400	100	1644740000	1660720000
4	15.24	0.600	50	1644750000	1660730000
5	20.32	0.800	50	1644760000	1660740000
6	25.40	1.000	50	1644770000	1660750000
7	30.48	1.200	50	1644780000	1660760000
8	35.56	1.400	50	1644790000	1660770000
9	40.64	1.600	50	1644800000	1660780000
10	45.72	1.800	50	1644810000	1660790000
11	50.80	2.000	50	1644820000	1660800000
12	55.88	2.200	50	1644830000	1660810000

Representative deratings curve

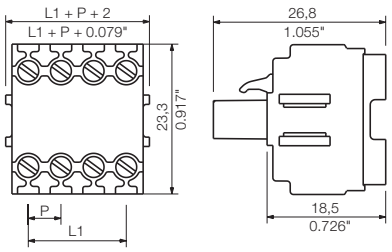
BLDT 5.08/../180 - SL 5.08/../90



BLDT 5.08/../180B



Dimensioned drawing



Ordering data

Solder pin length

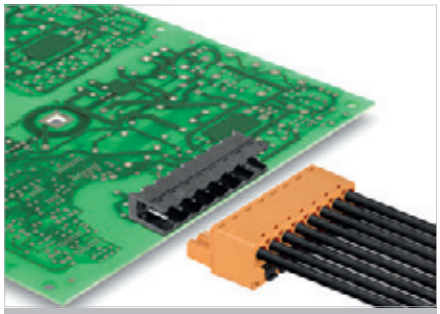
Colour				Orange	Black
Pitch	**5.08 mm**				
Pol.	L1	(inch)	**Qty.**	**Order No.**	**Order No.**
2	5.08	0.200	100	**1651740000**	**1673780000**
3	10.16	0.400	100	**1651750000**	**1673790000**
4	15.24	0.600	50	**1651760000**	**1673800000**
5	20.32	0.800	50	**1651770000**	**1673810000**
6	25.40	1.000	50	**1651780000**	**1673820000**
7	30.48	1.200	50	**1651790000**	**1673830000**
8	35.56	1.400	50	**1651800000**	**1673840000**
9	40.64	1.600	50	**1651810000**	**1673850000**
10	45.72	1.800	50	**1651820000**	**1673860000**
11	50.80	2.000	50	**1651830000**	**1673870000**
12	55.88	2.200	50	**1651840000**	**1673880000**

The 2-in-1 contact

Every pluggable connector covers two contact points and thus must meet two different requirements: First, the wire termination and second, the connection between plug and pin header. Referring to the 5.0x pitch series, Weidmüller offers different wire connection technologies, but one platform contact for the male / female connection since years. This well-designed hybride platform contact ensures a constant quality on a very high level.
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and perfect for the force.



BLF 5.08/../180



PUSH IN - Weidmüller's innovative connection system simplifies and accelerates the wire connection process.

- Solid wires and stranded wires with ferrules need only to be inserted and they are ready.
- The actuator must be used when connecting stranded wires without ferrules.
- Intuitive handling – since the wire-entry area and handling area are clearly separated.
- User-friendly handling with rounded outer edges and large, no-slip push buttons.
- Lock and release lever: tool-less locking and a gentle releasing of the connector reduces the mechanical stress to the solder soints.

Product data

IEC: 400 V / 24 A / 0.2 - 2.5 mm²
UL: 300 V / 16 A / AWG 26 - 12

For additional articles and information, refer to catalog.weidmueller.com

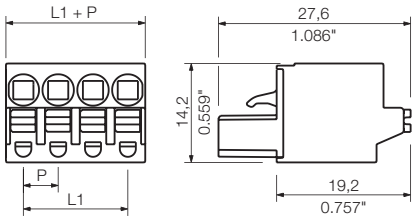
Note:

- Additional colours on request
- Gold-plated contact surfaces on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- P on drawing = pitch

BLF 5.08/../180



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm²	0.13...3.31		
Solid core H05(07) V-U	**mm²**	**0.2...2.5**		
Stranded H07 V-R		0...2		
Flexible H05(07) V-K	mm²	0.2...2.5		
Flexible with ferrule	mm²	0.2...2.5		
Ferrule with plastic collar	mm²	0.2...2.5		
Stripping length	mm	10		
Screwdriver blade	mm	0.6 x 3.5		
According to norm		DIN 5264		
Tightening torque range	Nm			
Rated current, max.	**A**	**24**		**21**
At ambient temperature		20°C		40°C
For conductor cross-section	mm²	2.5		
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	**V**	**250**	**320**	**400**
Rated impulse voltage	kV	4	4	4
UL / CUL (Use Group)		**B**	**C**	**D**
Rated voltage	**V**	**300**		**300**
Rated current	**A**	**16**		**10**
AWG conductor	**AWG**	**26-12**		
CSA (Use Group)		**B**	**C**	**D**
Rated voltage	V	300		300
Rated current	A	10		10
AWG conductor	AWG	26-12		
General data				
Type of insulation material		PBT		
UL 94 flammability rating		V-0		
Contact base material		CuSn		
Material of contact surface		tinned		
Pin dimensions = d	mm			
Solder eyelet Ø = D	mm			
Solder eyelet Ø tolerance	mm			

Accessories

Note: Refer to the Accessories chapter for additional accessories.

Coding		Order No.
	BLZ/SL KO OR	1573010000
	BLZ/SL KO SW	1545710000
Screwdriver		
	SDIS 0.6X3.5X100	9008390000
	SDS 0.6X3.5X100	9008330000
Wire-end ferrule		
	H0,5/14S W	9004590000
	H1,0/14S R	9018560000
	H1,5/14S SW	9025240000
	H2,5/14S BL	1333100000

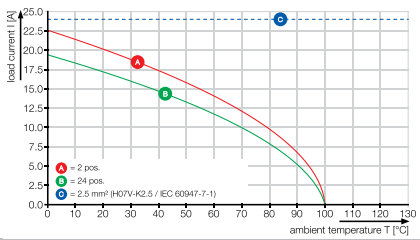
Ordering data

Solder pin length

Colour				Orange	Black
Pitch	**5.08 mm**				
Pol.	**L1**	**(inch)**	**Qty.**	**Order No.**	**Order No.**
2	5.08	0.200	180	1013680000	1013430000
3	10.16	0.400	120	1013690000	1013440000
4	15.24	0.600	90	1013710000	1013450000
5	20.32	0.800	72	1013720000	1013460000
6	25.40	1.000	60	1013730000	1013470000
7	30.48	1.200	48	1013740000	1013480000
8	35.56	1.400	42	1013750000	1013490000
9	40.64	1.600	36	1013760000	1013510000
10	45.72	1.800	36	1013770000	1013520000
11	50.80	2.000	30	1013780000	1013530000
12	55.88	2.200	30	1013790000	1013540000
13	60.96	2.400	24	1013810000	1013550000
14	66.04	2.600	24	1013820000	1013560000
15	71.12	2.800	24	1013830000	1013570000
16	76.20	3.000	18	1013840000	1013580000
17	81.28	3.200	18	1013850000	1013590000
18	86.36	3.400	18	1013860000	1013610000
19	91.44	3.600	18	1013870000	1013620000
20	96.52	3.800	18	1013880000	1013630000
21	101.60	4.000	12	1013890000	1013640000
22	106.68	4.200	12	1013910000	1013650000
23	111.76	4.400	12	1013920000	1013660000
24	116.84	4.600	12	1013930000	1013670000

Representative deratings curve

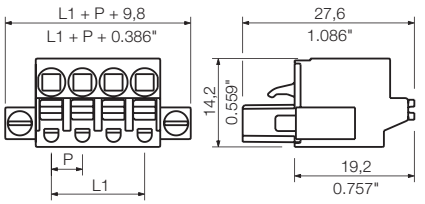
BLF 5.08/../180 - SL 5.08/../90



BLF 5.08/../180F



Dimensioned drawing



Ordering data

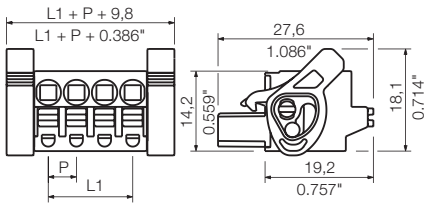
Solder pin length					
Colour				Orange	Black
Pitch	5.08 mm				
Pol.	L1	(inch)	Qty.	Order No.	Order No.
2	5.08	0.200	90	1013070000	1012640000
3	10.16	0.400	72	1013090000	1012650000
4	15.24	0.600	60	1013110000	1012660000
5	20.32	0.800	48	1013120000	1012670000
6	25.40	1.000	42	1013130000	1012680000
7	30.48	1.200	36	1013140000	1012690000
8	35.56	1.400	36	1013150000	1012710000
9	40.64	1.600	30	1013160000	1012720000
10	45.72	1.800	30	1013170000	1012730000
11	50.80	2.000	24	1013180000	1012740000
12	55.88	2.200	24	1013190000	1012750000
13	60.96	2.400	24	1013210000	1012940000
14	66.04	2.600	18	1013220000	1012950000
15	71.12	2.800	18	1013230000	1012960000
16	76.20	3.000	18	1013240000	1012970000
17	81.28	3.200	18	1013250000	1012980000
18	86.36	3.400	18	1013260000	1012990000
19	91.44	3.600	12	1013270000	1013010000
20	96.52	3.800	12	1013280000	1013020000
21	101.60	4.000	12	1013290000	1013030000
22	106.68	4.200	12	1013310000	1013040000
23	111.76	4.400	12	1013320000	1013050000
24	116.84	4.600	12	1013330000	1013060000

BLF 5.08/../180LR

with release latch



Dimensioned drawing



Ordering data

Solder pin length					
Colour				Orange	Black
Pitch	5.08 mm				
Pol.	L1	(inch)	Qty.	Order No.	Order No.
2	5.08	0.200	90	1014370000	1014120000
3	10.16	0.400	72	1014380000	1014130000
4	15.24	0.600	60	1014390000	1014140000
5	20.32	0.800	48	1014410000	1014150000
6	25.40	1.000	42	1014420000	1014160000
7	30.48	1.200	36	1014430000	1014170000
8	35.56	1.400	36	1014440000	1014180000
9	40.64	1.600	30	1014450000	1014190000
10	45.72	1.800	30	1014460000	1014210000
11	50.80	2.000	24	1014470000	1014220000
12	55.88	2.200	24	1014480000	1014230000
13	60.96	2.400	24	1014490000	1014240000
14	66.04	2.600	18	1014510000	1014250000
15	71.12	2.800	18	1014520000	1014260000
16	76.20	3.000	18	1014530000	1014270000
17	81.28	3.200	18	1014540000	1014280000
18	86.36	3.400	18	1014550000	1014290000
19	91.44	3.600	12	1014560000	1014310000
20	96.52	3.800	12	1014570000	1014320000
21	101.60	4.000	12	1014580000	1014330000
22	106.68	4.200	12	1014590000	1014340000
23	111.76	4.400	12	1014610000	1014350000
24	116.84	4.600	12	1014620000	1014360000

PUSH IN connection technology

PUSH IN connection technology reduces the wiring affords especially for solid wires and wires with ferrule to a minimum. These connectors are self-explanary and enable tool-less handling. The contact element made of stainless steel ensures a vibration prooved, maintainance free wire termination. The established principle „STEEL FOR THE FORCE, COPPER FOR THE CURRENT" by Weidmüller offers both, maximum conductor clamping forces, as well as minimum power loss at the same time.

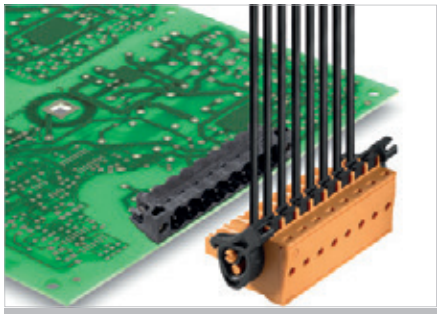


The 2-in-1 contact

Every pluggable connector covers two contact points and thus must meet two different requirements: First, the wire termination and second, the connection between plug and pin header. Referring to the 5.0x pitch series, Weidmüller offers different wire connection technologies, but one platform contact for the male / female connection since years. This well-designed hybride platform contact ensures a constant quality on a very high level.
Hybride means, that we combine metal material featuring different characteristics by welding, in order to devide the contact system into different function zones: Further to the high electric conductance, the current bar is characterized by its hardness, and the tulip contact by its excellent tension properties. The advantage: each function is supported by the most suitable material to reliably and constantly meet the different electrical and mechanical requirements. To put it in a nutshell: Instead of either ... or, it´s even both - perfect for the current, and perfect for the force.



BLF 5.08/../90



PUSH IN - Weidmüller's innovative connection system simplifies and accelerates the wire connection process.

- Solid wires and stranded wires with ferrules need only to be inserted and they are ready.
- The actuator must be used when connecting stranded wires without ferrules.
- Intuitive handling – since the wire-entry area and handling area are clearly separated.
- User-friendly handling with rounded outer edges and large, no-slip push buttons.
- Lock and release lever: tool-less locking and a gentle releasing of the connector reduces the mechanical stress to the solder soints.

Product data

IEC: 400 V / 24 A / 0.2 - 2.5 mm²
UL: 300 V / 16 A / AWG 12 - 26

For additional articles and information, refer to catalog.weidmueller.com

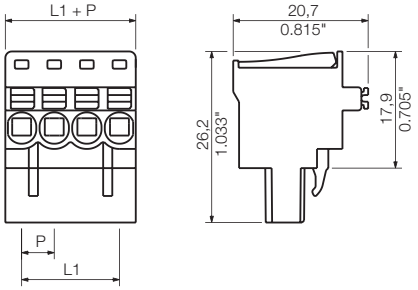
Note:

- Additional colours on request
- Gold-plated contact surfaces on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- P on drawing = pitch

BLF 5.08/../90



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm²	0.13...3.31		
Solid core H05(07) V-U	**mm²**	**0.2...2.5**		
Stranded H07 V-R		0...2		
Flexible H05(07) V-K	mm²	0.2...2.5		
Flexible with ferrule	mm²	0.2...2.5		
Ferrule with plastic collar	mm²	0.2...2.5		
Stripping length	mm	10		
Screwdriver blade	mm	0.6 x 3.5		
According to norm		DIN 5264		
Tightening torque range	Nm			
Rated current, max.	**A**	**24**		**21**
At ambient temperature		20°C		40°C
For conductor cross-section	mm²	2.5		
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	**V**	**250**	**320**	**400**
Rated impulse voltage	kV	4	4	4
UL / CUL (Use Group)		**B**	**C**	**D**
Rated voltage	**V**	**300**		**300**
Rated current	**A**	**16**		**10**
AWG conductor	**AWG**	**12-26**		
CSA (Use Group)		**B**	**C**	**D**
Rated voltage	V	300		300
Rated current	A	10		10
AWG conductor	AWG	12-26		
General data				
Type of insulation material		PBT		
UL 94 flammability rating		V-0		
Contact base material		CuSn		
Material of contact surface		tinned		
Pin dimensions = d	mm			
Solder eyelet Ø = D	mm			
Solder eyelet Ø tolerance	mm			

Accessories

Note: Refer to the Accessories chapter for additional accessories.

Coding		Order No.
	BLZ/SL KO OR	1573010000
	BLZ/SL KO SW	1545710000
Screwdriver		
	SDIS 0.6X3.5X100	9008390000
	SDS 0.6X3.5X100	9008330000
Wire-end ferrule		
	H0,5/14S W	9004590000
	H1,0/14S R	9018560000
	H1,5/14S SW	9025240000
	H2,5/14S BL	1333100000

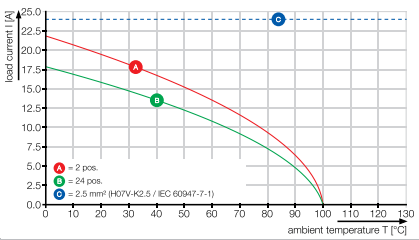
Ordering data

Solder pin length

Colour				Orange	Black
Pitch	**5.08 mm**				
Pol.	L1	(inch)	Qty.	Order No.	Order No.
2	5.08	0.200	180	1001530000	1000030001
3	10.16	0.400	120	1001540000	1000040001
4	15.24	0.600	90	1001550000	1000050001
5	20.32	0.800	72	1001560000	1000060001
6	25.40	1.000	60	1001570000	1000070001
7	30.48	1.200	48	1001580000	1000080001
8	35.56	1.400	42	1001590000	1000090001
9	40.64	1.600	36	1001600000	1000100001
10	45.72	1.800	36	1001610000	1000110001
11	50.80	2.000	30	1001620000	1000120001
12	55.88	2.200	30	1001630000	1000130001
13	60.96	2.400	24	1001640000	1000140001
14	66.04	2.600	24	1001650000	1000150001
15	71.12	2.800	24	1001660000	1000160001
16	76.20	3.000	18	1001670000	1000170001
17	81.28	3.200	18	1001680000	1000180001
18	86.36	3.400	18	1001690000	1000190001
19	91.44	3.600	18	1001700000	1000200001
20	96.52	3.800	18	1001710000	1000210001

Representative deratings curve

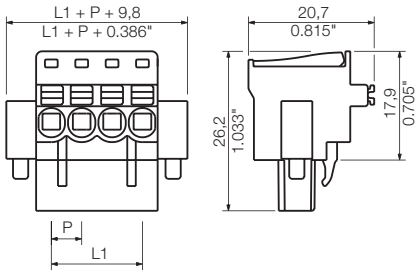
BLF 5.08/../90 - SL 5.08/../90



BLF 5.08/../90F



Dimensioned drawing



Ordering data

Solder pin length

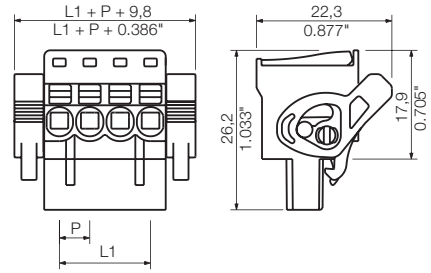
Colour				Orange	Black
Pitch	**5.08 mm**				
Pol.	L1	(inch)	Qty.	Order No.	Order No.
2	5.08	0.200	90	1002090000	1000220001
3	10.16	0.400	72	1002100000	1000230001
4	15.24	0.600	60	1002110000	1000240001
5	20.32	0.800	48	1002120000	1000250001
6	25.40	1.000	42	1002130000	1000260001
7	30.48	1.200	36	1002140000	1000270001
8	35.56	1.400	36	1002150000	1000280001
9	40.64	1.600	30	1002160000	1000290001
10	45.72	1.800	30	1002170000	1000300001
11	50.80	2.000	24	1002180000	1000310001
12	55.88	2.200	24	1002190000	1000320001
13	60.96	2.400	24	1002200000	1000330001
14	66.04	2.600	18	1002210000	1000340001
15	71.12	2.800	18	1002220000	1000350001
16	76.20	3.000	18	1002230000	1000360001
17	81.28	3.200	18	1002240000	1000370001
18	86.36	3.400	18	1002250000	1000380001
19	91.44	3.600	12	1002260000	1000390001
20	96.52	3.800	12	1002270000	1000400001

BLF 5.08/../90LR

with release latch



Dimensioned drawing



Ordering data

Solder pin length

Colour				Orange	Black
Pitch	**5.08 mm**				
Pol.	L1	(inch)	Qty.	Order No.	Order No.
2	5.08	0.200	90	1002280000	1000410001
3	10.16	0.400	72	1002290000	1000420001
4	15.24	0.600	60	1002300000	1000430001
5	20.32	0.800	48	1002310000	1000440001
6	25.40	1.000	42	1002320000	1000450001
7	30.48	1.200	36	1002330000	1000460001
8	35.56	1.400	36	1002340000	1000470001
9	40.64	1.600	30	1002350000	1000480001
10	45.72	1.800	30	1002360000	1000490001
11	50.80	2.000	24	1002370000	1000500001
12	55.88	2.200	24	1002380000	1000510001
13	60.96	2.400	24	1002390000	1000520001
14	66.04	2.600	18	1002400000	1000530001
15	71.12	2.800	18	1002410000	1000540001
16	76.20	3.000	18	1002420000	1000550001
17	81.28	3.200	18	1002430000	1000560001
18	86.36	3.400	18	1002440000	1000570001
19	91.44	3.600	12	1002450000	1000580001
20	96.52	3.800	12	1002460000	1000590001

PUSH IN connection technology

PUSH IN connection technology reduces the wiring affords especially for solid wires and wires with ferrule to a minimum. These connectors are self-explanary and enable tool-less handling. The contact element made of stainless steel ensures a vibration prooved, maintainance free wire termination. The established principle „STEEL FOR THE FORCE, COPPER FOR THE CURRENT" by Weidmüller offers both, maximum conductor clamping forces, as well as minimum power loss at the same time.

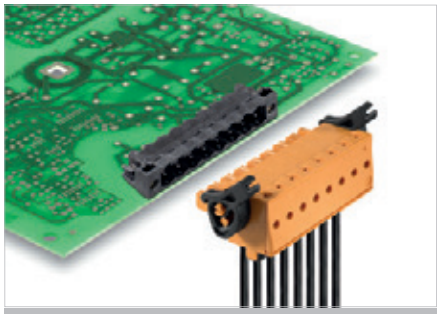


The 2-in-1 contact

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BLF 5.08/../270



PUSH IN - Weidmüller's innovative connection system simplifies and accelerates the wire connection process.

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- Intuitive handling – since the wire-entry area and handling area are clearly separated.
- User-friendly handling with rounded outer edges and large, no-slip push buttons.
- Lock and release lever: tool-less locking and a gentle releasing of the connector reduces the mechanical stress to the solder soints.

Product data

IEC: 400 V / 24 A / 0.2 - 2.5 mm²
UL: 300 V / 16 A / AWG 12 - 26

For additional articles and information, refer to catalog.weidmueller.com

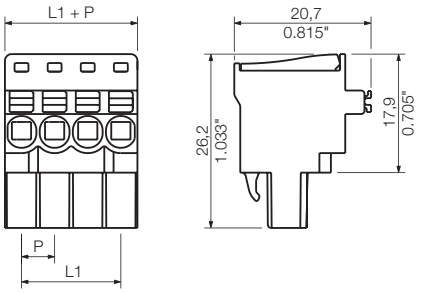
Note:

- Additional colours on request
- Gold-plated contact surfaces on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- P on drawing = pitch

BLF 5.08/../270



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm²	0.13...3.31		
Solid core H05(07) V-U	**mm²**	**0.2...2.5**		
Stranded H07 V-R		0...2		
Flexible H05(07) V-K	mm²	0.2...2.5		
Flexible with ferrule	mm²	0.2...2.5		
Ferrule with plastic collar	mm²	0.2...2.5		
Stripping length	mm	10		
Screwdriver blade	mm	0.6 x 3.5		
According to norm		DIN 5264		
Tightening torque range	Nm			
Rated current, max.	**A**	**24**		**21**
At ambient temperature		20°C		40°C
For conductor cross-section	mm²	2.5		
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	**V**	**250**	**320**	**400**
Rated impulse voltage	kV	4	4	4
UL / CUL (Use Group)		**B**	**C**	**D**
Rated voltage	**V**	**300**		**300**
Rated current	**A**	**16**		**10**
AWG conductor	**AWG**	**12-26**		
CSA (Use Group)		**B**	**C**	**D**
Rated voltage	V	300		300
Rated current	A	10		10
AWG conductor	AWG	12-26		
General data				
Type of insulation material		PBT		
UL 94 flammability rating		V-0		
Contact base material		CuSn		
Material of contact surface		tinned		
Pin dimensions = d	mm			
Solder eyelet Ø = D	mm			
Solder eyelet Ø tolerance	mm			

Accessories

Note: Refer to the Accessories chapter for additional accessories.

Coding		Order No.
	BLZ/SL KO OR	1573010000
	BLZ/SL KO SW	1545710000
Screwdriver		
	SDIS 0.6X3.5X100	9008390000
	SDS 0.6X3.5X100	9008330000
Wire-end ferrule		
	H0,5/14S W	9004590000
	H1,0/14S R	9018560000
	H1,5/14S SW	9025240000
	H2,5/14S BL	1333100000

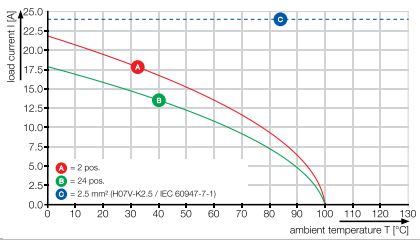
Ordering data

Solder pin length

Colour				Orange	Black
Pitch	**5.08 mm**				
Pol.	L1	(inch)	**Qty.**	**Order No.**	**Order No.**
2	5.08	0.200	180	**1982700000**	**1981930000**
3	10.16	0.400	120	**1982710000**	**1981940000**
4	15.24	0.600	90	**1982720000**	**1981950000**
5	20.32	0.800	72	**1982730000**	**1981960000**
6	25.40	1.000	60	**1982740000**	**1981970000**
7	30.48	1.200	48	**1982750000**	**1981980000**
8	35.56	1.400	42	**1982760000**	**1981990000**
9	40.64	1.600	36	**1982770000**	**1982000000**
10	45.72	1.800	36	**1982780000**	**1982010000**
11	50.80	2.000	30	**1982790000**	**1982020000**
12	55.88	2.200	30	**1982800000**	**1982030000**
13	60.96	2.400	24	**1982810000**	**1982040000**
14	66.04	2.600	24	**1982820000**	**1982050000**
15	71.12	2.800	24	**1982830000**	**1982060000**
16	76.20	3.000	18	**1982840000**	**1982070000**
17	81.28	3.200	18	**1982850000**	**1982080000**
18	86.36	3.400	18	**1982860000**	**1982090000**
19	91.44	3.600	18	**1982870000**	**1982100000**
20	96.52	3.800	18	**1982880000**	**1982110000**

Representative deratings curve

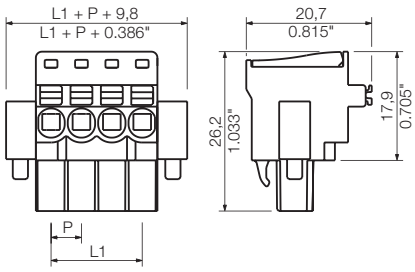
BLF 5.08/../270 - SL 5.08/../90



BLF 5.08/../270F



Dimensioned drawing



Ordering data

Solder pin length

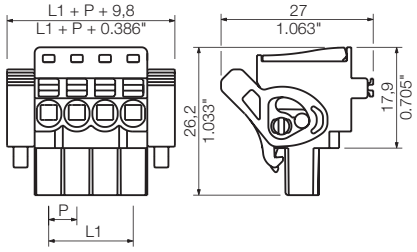
Colour				Orange	Black
Pitch	**5.08 mm**				
Pol.	L1	(inch)	Qty.	Order No.	Order No.
2	5.08	0.200	90	1982890000	1982120000
3	10.16	0.400	72	1982900000	1982130000
4	15.24	0.600	60	1982910000	1982140000
5	20.32	0.800	48	1982920000	1982150000
6	25.40	1.000	42	1982930000	1982160000
7	30.48	1.200	36	1982940000	1982170000
8	35.56	1.400	36	1982950000	1982180000
9	40.64	1.600	30	1982960000	1982190000
10	45.72	1.800	30	1982970000	1982200000
11	50.80	2.000	24	1982980000	1982210000
12	55.88	2.200	24	1982990000	1982220000
13	60.96	2.400	24	1983000000	1982230000
14	66.04	2.600	18	1983010000	1982240000
15	71.12	2.800	18	1983020000	1982250000
16	76.20	3.000	18	1983030000	1982260000
17	81.28	3.200	18	1983040000	1982270000
18	86.36	3.400	18	1983050000	1982280000
19	91.44	3.600	12	1983060000	1982290000
20	96.52	3.800	12	1983070000	1982300000

BLF 5.08/../270LR

with release latch



Dimensioned drawing



Ordering data

Solder pin length

Colour				Orange	Black
Pitch	**5.08 mm**				
Pol.	L1	(inch)	Qty.	Order No.	Order No.
2	5.08	0.200	90	1983080000	1982310000
3	10.16	0.400	72	1983090000	1982320000
4	15.24	0.600	60	1983100000	1982330000
5	20.32	0.800	48	1983110000	1982340000
6	25.40	1.000	42	1983120000	1982350000
7	30.48	1.200	36	1983130000	1982360000
8	35.56	1.400	36	1983140000	1982370000
9	40.64	1.600	30	1983150000	1982380000
10	45.72	1.800	30	1983160000	1982390000
11	50.80	2.000	24	1983170000	1982400000
12	55.88	2.200	24	1983180000	1982410000
13	60.96	2.400	24	1983190000	1982420000
14	66.04	2.600	18	1983200000	1982430000
15	71.12	2.800	18	1983210000	1982440000
16	76.20	3.000	18	1983220000	1982450000
17	81.28	3.200	18	1983230000	1982460000
18	86.36	3.400	18	1983240000	1982470000
19	91.44	3.600	12	1983250000	1982480000
20	96.52	3.800	12	1983260000	1982490000

PUSH IN connection technology

PUSH IN connection technology reduces the wiring affords especially for solid wires and wires with ferrule to a minimum. These connectors are self-explanary and enable tool-less handling. The contact element made of stainless steel ensures a vibration prooved, maintainance free wire termination. The established principle „STEEL FOR THE FORCE, COPPER FOR THE CURRENT" by Weidmüller offers both, maximum conductor clamping forces, as well as minimum power loss at the same time.

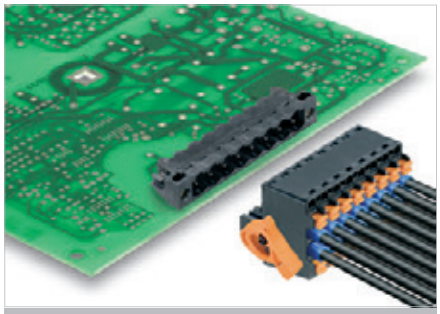


The 2-in-1 contact

Every pluggable connector covers two contact points and thus must meet two different requirements: First, the wire termination and second, the connection between plug and pin header. Referring to the 5.0x pitch series, Weidmüller offers different wire connection technologies, but one platform contact for the male / female connection since years. This well-designed hybride platform contact ensures a constant quality on a very high level.
Hybride means, that we combine metal material featuring different characteristics by welding, in order to devide the contact system into different function zones: Further to the high electric conductance, the current bar is characterized by its hardness, and the tulip contact by its excellent tension properties. The advantage: each function is supported by the most suitable material to reliably and constantly meet the different electrical and mechanical requirements. To put it in a nutshell: Instead of either ... or, it´s even both - perfect for the current, and perfect for the force.



BLDF 5.08/../180



Bus connector with two connections per pole with the time-saving PUSH IN connection system.

- The extremely short cross-connection allows you to safely loop through bus currents of up to 22 A.
- This permits an interruption-free decoupling of individual modules from the network.
- Solid wires and stranded wires with ferrules need only to be inserted and they are ready.
- An actuator must be used when connecting stranded wires with ferrules.
- Lock and release-lever: tool-less locking and gentle releasing of the connector reduces the mechanical stress one the solder joints.

Product data

IEC: 400 V / 20.8 A / 0.2 - 2.5 mm²
UL: 300 V / 10 A / AWG 12 - 26

For additional articles and information, refer to catalog.weidmueller.com

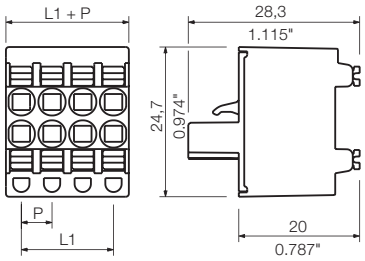
Note:

- Additional colours on request
- Gold-plated contact surfaces on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- P on drawing = pitch

BLDF 5.08/../180



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm²	0.13...3.31		
Solid core H05(07) V-U	**mm²**	**0.2...2.5**		
Stranded H07 V-R		...2		
Flexible H05(07) V-K	mm²	0.2...2.5		
Flexible with ferrule	mm²	0.2...2.5		
Ferrule with plastic collar	mm²	0.2...2.5		
Stripping length	mm	10		
Screwdriver blade	mm	0.6 x 3.5		
According to norm		DIN 5264		
Tightening torque range	Nm			
Rated current, max.	**A**	**20.8**		**17.9**
At ambient temperature		20°C		40°C
For conductor cross-section	mm²	2.5		
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	**V**	**250**	**320**	**400**
Rated impulse voltage	kV	4	4	4
UL / CUL (Use Group)		**B**	**C**	**D**
Rated voltage	**V**	**300**		**300**
Rated current	**A**	**10**		**10**
AWG conductor	**AWG**	**12-26**		
CSA (Use Group)		**B**	**C**	**D**
Rated voltage	V	300		300
Rated current	A	10		10
AWG conductor	AWG	12-26		
General data				
Type of insulation material		PBT		
UL 94 flammability rating		V-0		
Contact base material		CuSn		
Material of contact surface		tinned		
Pin dimensions = d	mm			
Solder eyelet Ø = D	mm			
Solder eyelet Ø tolerance	mm			
Bus current, max. 20°C		23.3 A		
Bus current, max. 40°C		19.9 A		

Accessories

Note: Refer to the Accessories chapter for additional accessories.

Coding		Order No.
	BLZ/SL KO OR	1573010000
	BLZ/SL KO SW	1545710000
Screwdriver		
	SDIS 0.6X3.5X100	9008390000
	SDS 0.6X3.5X100	9008330000
Wire-end ferrule		
	H0,5/14S W	9004590000
	H1,0/14S R	9018560000
	H1,5/14S SW	9025240000
	H2,5/14S BL	1333100000

Ordering data

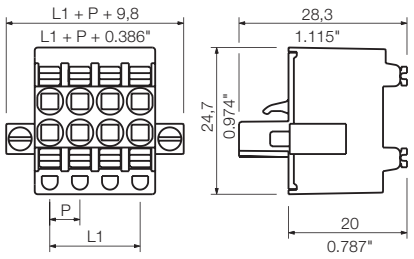
Solder pin length

Colour				Orange	Black
Pitch	**5.08 mm**				
Pol.	L1	(inch)	**Qty.**	**Order No.**	**Order No.**
2	5.08	0.200	120	**1001150000**	**1000860000**
3	10.16	0.400	80	**1001160000**	**1000870000**
4	15.24	0.600	60	**1001170000**	**1000880000**
5	20.32	0.800	48	**1001180000**	**1000890000**
6	25.40	1.000	40	**1001190000**	**1000900000**
7	30.48	1.200	32	**1001200000**	**1000910000**
8	35.56	1.400	28	**1001210000**	**1000920000**

BLDF 5.08/../180F



Dimensioned drawing



Ordering data

Solder pin length

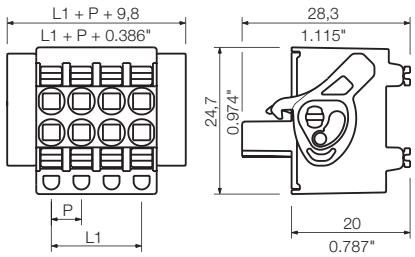
Colour				Orange	Black
Pitch	**5.08 mm**				
Pol.	L1	(inch)	Qty.	Order No.	Order No.
2	5.08	0.200	60	1001220000	1000930000
3	10.16	0.400	48	1012060000	1000950000
4	15.24	0.600	40	1059420000	1000960000
5	20.32	0.800	32	1065080000	1000970000
6	25.40	1.000	28	1065090000	1000980000
7	30.48	1.200	24	1065110000	1000990000
8	35.56	1.400	24	1065120000	1001000000

BLDF 5.08/../180LR

with release latch



Dimensioned drawing



Ordering data

Solder pin length

Colour				Orange	Black
Pitch	**5.08 mm**				
Pol.	L1	(inch)	Qty.	Order No.	Order No.
2	5.08	0.200	60	1065130000	1001010000
3	10.16	0.400	48	1065140000	1001020000
4	15.24	0.600	40	1065150000	1001030000
5	20.32	0.800	32	1065160000	1001040000
6	25.40	1.000	28	1065170000	1001050000
7	30.48	1.200	24	1065180000	1001060000
8	35.56	1.400	24	1065190000	1001070000

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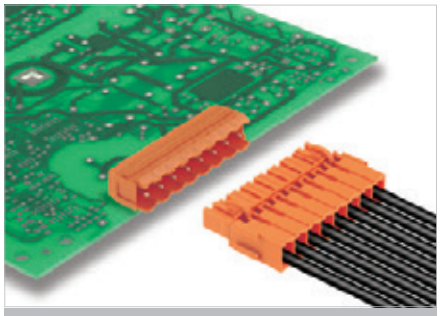


The 2-in-1 contact

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BLC 5.08/../180



The female plugs with crimp connection can be used for automatically pre-assembled cable harnesses. This results in significant cost savings.

- The contacts are optimised for crimping machines (facotry wiring).
- Contacts can also be connected with manual tools (field wiring).
- High component density because of very low height
- Large wire clamping range: 0.22-2.5 mm²
- Contacts can be delivered loose in bulk, or in tape-packaged strips.

Product data

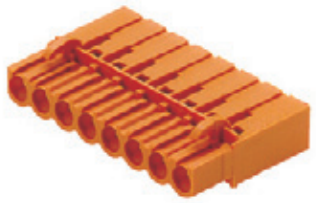
IEC: 400 V / 21 A
UL: 300 V / 10 A / AWG 26 - 14

For additional articles and information, refer to catalog.weidmueller.com

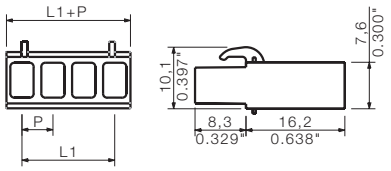
Note:

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Rated cross-section depends on crimp contact used.
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

BLC 5.08/../180R



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm²	0.22...2.5		
Solid core H05(07) V-U	**mm²**			
Stranded H07 V-R				
Flexible H05(07) V-K	mm²	0.5...2.5		
Flexible with ferrule	mm²			
Ferrule with plastic collar	mm²			
Stripping length	mm	5		
Screwdriver blade	mm			
According to norm				
Tightening torque range	Nm			
Rated current, max.	**A**	**21**		**18**
At ambient temperature		20°C		40°C
For conductor cross-section	mm²	2.5		
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	**V**	**250**	**320**	**400**
Rated impulse voltage	kV	4	4	4
UL / CUL (Use Group)		**B**	**C**	**D**
Rated voltage	**V**	**300**		**300**
Rated current	**A**	**10**		**10**
AWG conductor	**AWG**	**26-14**		
CSA (Use Group)		**B**	**C**	**D**
Rated voltage	V	300		300
Rated current	A	10		10
AWG conductor	AWG	26-14		
General data				
Type of insulation material		PBT GF		
UL 94 flammability rating		V-0		
Contact base material		Copper alloy		
Material of contact surface				
Pin dimensions = d	mm			
Solder eyelet Ø = D	mm			
Solder eyelet Ø tolerance	mm			

Accessories

Note: Refer to the Accessories chapter for additional accessories.

Coding		Order No.
	BLZ/SL KO OR	**1573010000**
	BLZ/SL KO SW	**1545710000**
	DFFC 0.22-0.35 SN 3000	**1604230000**
	DFFC 0.22-0.35 SN E	**1604250000**
	DFFC 0.5-1.0 SN 3000	**1480000000**
	DFFC 0.5-1.0 SN E	**1567060000**
	DFFC 1.5-2.5 SN 2500	**1480100000**
	DFFC 1.5-2.5 SN E	**1567070000**
Crimping tool		
	HTF DFF	**9014140000**

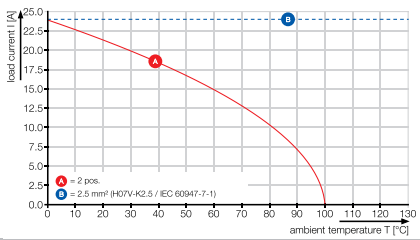
Ordering data

Solder pin length

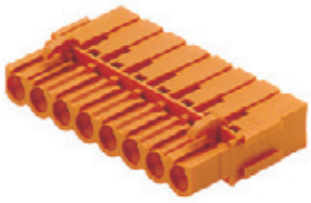
Colour				Orange	Black
Pitch	**5.08 mm**				
Pol.	L1	(inch)	Qty.	Order No.	Order No.
2	5.08	0.200	100	**1610490000**	**1711960000**
3	10.16	0.400	100	**1610500000**	**1711970000**
4	15.24	0.600	100	**1610510000**	**1711980000**
5	20.32	0.800	50	**1610520000**	**1711990000**
6	25.40	1.000	50	**1610530000**	**1712000000**
7	30.48	1.200	50	**1610540000**	**1712010000**
8	35.56	1.400	50	**1610550000**	**1712020000**
9	40.64	1.600	50	**1610560000**	**1712030000**
10	45.72	1.800	50	**1610570000**	**1712040000**
11	50.80	2.000	50	**1610580000**	**1712050000**
12	55.88	2.200	50	**1610590000**	**1712060000**
13	60.96	2.400	50	**1610600000**	**1712070000**
14	66.04	2.600	50	**1610610000**	**1712080000**
15	71.12	2.800	50	**1610620000**	**1712090000**
16	76.20	3.000	50	**1610630000**	**1712100000**

Representative deratings curve

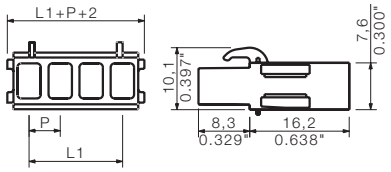
BLC 5.08/../180R - SL 5.08/../90



BLC 5.08/../180BR



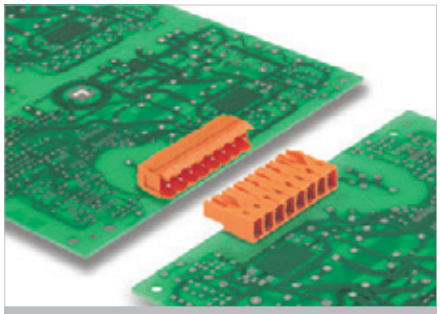
Dimensioned drawing



Ordering data

Solder pin length					
Colour				Orange	Black
Pitch	**5.08 mm**				
Pol.	L1	(inch)	Qty.	Order No.	Order No.
2	5.08	0.200	100	**1649370000**	**1712110000**
3	10.16	0.400	100	**1649380000**	**1712120000**
4	15.24	0.600	100	**1649390000**	**1712130000**
5	20.32	0.800	50	**1649400000**	**1712140000**
6	25.40	1.000	50	**1649410000**	**1712150000**
7	30.48	1.200	50	**1649420000**	**1712160000**
8	35.56	1.400	50	**1649430000**	**1712170000**
9	40.64	1.600	50	**1649440000**	**1712180000**
10	45.72	1.800	50	**1649450000**	**1712190000**
11	50.80	2.000	50	**1649460000**	**1712200000**
12	55.88	2.200	50	**1649470000**	**1712210000**
13	60.96	2.400	50	**1649480000**	**1712220000**
14	66.04	2.600	50	**1649490000**	**1712230000**
15	71.12	2.800	50	**1649500000**	**1712240000**
16	76.20	3.000	50	**1649510000**	**1712250000**

BLL 5.08/../90



Female headers for mounting on the circuit board; with 90° wire outlet, optimised for the wave soldering process.

- BLL 5.08 & SL 5.08 for board-to-board connections (e.g., backplanes)
- BLL 5.08 & SLS / SLT 5.08 for board-to-wire applications (e.g., power supply for actuators)
- Available with a screw flange (F).

Product data

IEC: 400 V / 23 A
UL: 300 V / 15 A

For additional articles and information, refer to catalog.weidmueller.com

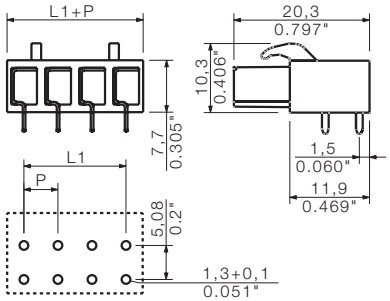
Note:

- Additional colours on request
- Gold-plated contact surfaces on request
- Rated current related to rated cross-section & min. No. of poles.
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

BLL 5.08/../90



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm²			
Solid core H05(07) V-U	**mm²**			
Stranded H07 V-R				
Flexible H05(07) V-K	mm²			
Flexible with ferrule	mm²			
Ferrule with plastic collar	mm²			
Stripping length	mm			
Screwdriver blade	mm			
According to norm				
Tightening torque range	Nm			
Rated current, max.	**A**	**23**		**20**
At ambient temperature		20°C		40°C
For conductor cross-section	mm²			
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	**V**	**250**	**320**	**400**
Rated impulse voltage	kV	4	4	4
UL / CUL (Use Group)		**B**	**C**	**D**
Rated voltage	**V**	**300**		**300**
Rated current	**A**	**15**		**10**
AWG conductor	**AWG**		-	
CSA (Use Group)		**B**	**C**	**D**
Rated voltage	V	300		300
Rated current	A	15		10
AWG conductor	AWG		-	
General data				
Type of insulation material		PBT GF		
UL 94 flammability rating		V-0		
Contact base material		Copper alloy		
Material of contact surface		tinned		
Pin dimensions = d	mm	0.4 x 1.00		
Solder eyelet Ø = D	mm	1.3		
Solder eyelet Ø tolerance	mm	+ 0,1		

Accessories

Note: Refer to the Accessories chapter for additional accessories.

Coding		Order No.
	BLZ/SL KO OR	**1573010000**
	BLZ/SL KO SW	**1545710000**
Mounting block		
	SLA BB11R OR	**1604120000**
	SLA BB11R SW	**1692340000**

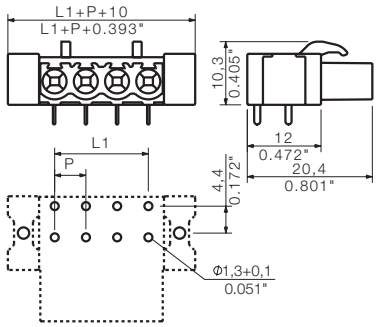
Ordering data

Solder pin length				3.2 mm
Colour				Orange
Pitch	**5.08 mm**			
Pol.	L1	(inch)	Qty.	Order No.
2	5.08	0.200	180	**1622940000**
3	10.16	0.400	120	**1622950000**
4	15.24	0.600	90	**1622960000**
5	20.32	0.800	72	**1622970000**
6	25.40	1.000	60	**1622980000**
7	30.48	1.200	48	**1622990000**
8	35.56	1.400	42	**1623000000**
9	40.64	1.600	36	**1623010000**
10	45.72	1.800	36	**1623020000**
11	50.80	2.000	30	**1623030000**
12	55.88	2.200	30	**1623040000**
13	60.96	2.400	24	**1648420000**
14	66.04	2.600	24	**1648430000**
15	71.12	2.800	24	**1648440000**
16	76.20	3.000	18	**1648450000**
17	81.28	3.200	18	**1648460000**
18	86.36	3.400	18	**1648470000**
19	91.44	3.600	18	**1648480000**
20	96.52	3.800	18	**1648490000**
21	101.60	4.000	12	**1648500000**
22	106.68	4.200	12	**1648510000**
23	111.76	4.400	12	**1648520000**
24	116.84	4.600	12	**1648530000**

BLL 5.08/../90FI



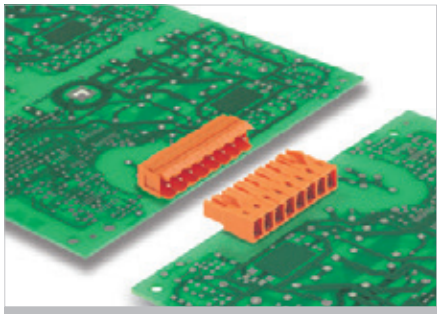
Dimensioned drawing



Ordering data

Solder pin length				3.2 mm
Colour				Orange
Pitch	**5.08 mm**			
Pol.	L1	(inch)	**Qty.**	**Order No.**
2	5.08	0.200	90	**1843750000**
3	10.16	0.400	72	**1843760000**
4	15.24	0.600	60	**1843770000**
5	20.32	0.800	48	**1843780000**
6	25.40	1.000	42	**1843790000**
7	30.48	1.200	36	**1843800000**
8	35.56	1.400	36	**1843810000**
9	40.64	1.600	30	**1843820000**
10	45.72	1.800	30	**1843830000**
11	50.80	2.000	24	**1843840000**
12	55.88	2.200	24	**1843850000**
13	60.96	2.400	24	**1843860000**
14	66.04	2.600	18	**1843870000**
15	71.12	2.800	18	**1843880000**
16	76.20	3.000	18	**1843890000**
17	81.28	3.200	18	**1843900000**
18	86.36	3.400	18	**1843910000**
19	91.44	3.600	12	**1843920000**
20	96.52	3.800	12	**1843930000**
21	101.60	4.000	12	**1843940000**
22	106.68	4.200	12	**1843950000**
23	111.76	4.400	12	**1843960000**
24	116.84	4.600	12	**1843970000**

BLL 5.08/../180



Female headers for mounting on the circuit board; with straight wire outlet, optimised for the wave soldering process.

- BLL 5.08 & SL 5.08 for board-to-board connections (e.g., backplanes)
- BLL 5.08 & SLS / SLT 5.08 for board-to-wire applications (e.g., power supply for actuators)

Product data

IEC: 400 V / 23 A
UL: 300 V / 15 A

For additional articles and information, refer to catalog.weidmueller.com

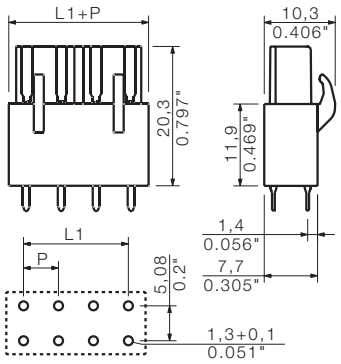
Note:

- Additional colours on request
- Gold-plated contact surfaces on request
- Rated current related to rated cross-section & min. No. of poles.
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

BLL 5.08/../180



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm²			
Solid core H05(07) V-U	**mm²**			
Stranded H07 V-R				
Flexible H05(07) V-K	mm²			
Flexible with ferrule	mm²			
Ferrule with plastic collar	mm²			
Stripping length	mm			
Screwdriver blade	mm			
According to norm				
Tightening torque range	Nm			
Rated current, max.	**A**	**23**		**20**
At ambient temperature		20°C		40°C
For conductor cross-section	mm²			
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	**V**	**250**	**320**	**400**
Rated impulse voltage	kV	4	4	4
UL / CUL (Use Group)		**B**	**C**	**D**
Rated voltage	**V**	**300**		**300**
Rated current	**A**	**15**		**10**
AWG conductor	**AWG**		-	
CSA (Use Group)		**B**	**C**	**D**
Rated voltage	V	300		300
Rated current	A	15		10
AWG conductor	AWG		-	
General data				
Type of insulation material		PBT GF		
UL 94 flammability rating		V-0		
Contact base material		Copper alloy		
Material of contact surface		tinned		
Pin dimensions = d	mm	0.4 x 1.00		
Solder eyelet Ø = D	mm	1.3		
Solder eyelet Ø tolerance	mm	+ 0,1		

Accessories

Note: Refer to the Accessories chapter for additional accessories.

Coding		
	BLZ/SL KO OR	**1573010000**
	BLZ/SL KO SW	**1545710000**
Mounting block		
	SLA BB11R OR	**1604120000**
	SLA BB11R SW	**1692340000**

Ordering data

Solder pin length 3.2 mm
Colour Orange

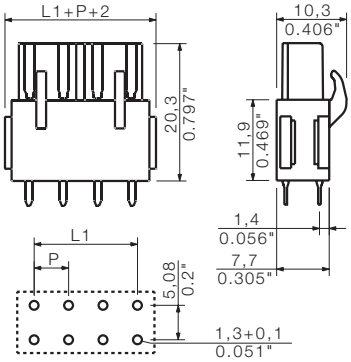
Pitch 5.08 mm

Pol.	L1	(inch)	Qty.	Order No.
2	5.08	0.200	180	**1630710000**
3	10.16	0.400	120	**1630720000**
4	15.24	0.600	90	**1630730000**
5	20.32	0.800	72	**1630740000**
6	25.40	1.000	60	**1630750000**
7	30.48	1.200	48	**1630760000**
8	35.56	1.400	42	**1630770000**
9	40.64	1.600	36	**1630780000**
10	45.72	1.800	36	**1630790000**
11	50.80	2.000	30	**1630800000**
12	55.88	2.200	30	**1630810000**
13	60.96	2.400	24	**1648900000**
14	66.04	2.600	24	**1648910000**
15	71.12	2.800	24	**1648920000**
16	76.20	3.000	18	**1648930000**
17	81.28	3.200	18	**1648940000**
18	86.36	3.400	18	**1648950000**
19	91.44	3.600	18	**1648960000**
20	96.52	3.800	18	**1648970000**
21	101.60	4.000	12	**1648980000**
22	106.68	4.200	12	**1648990000**
23	111.76	4.400	12	**1649000000**
24	116.84	4.600	12	**1649010000**

BLL 5.08/../180B



Dimensioned drawing



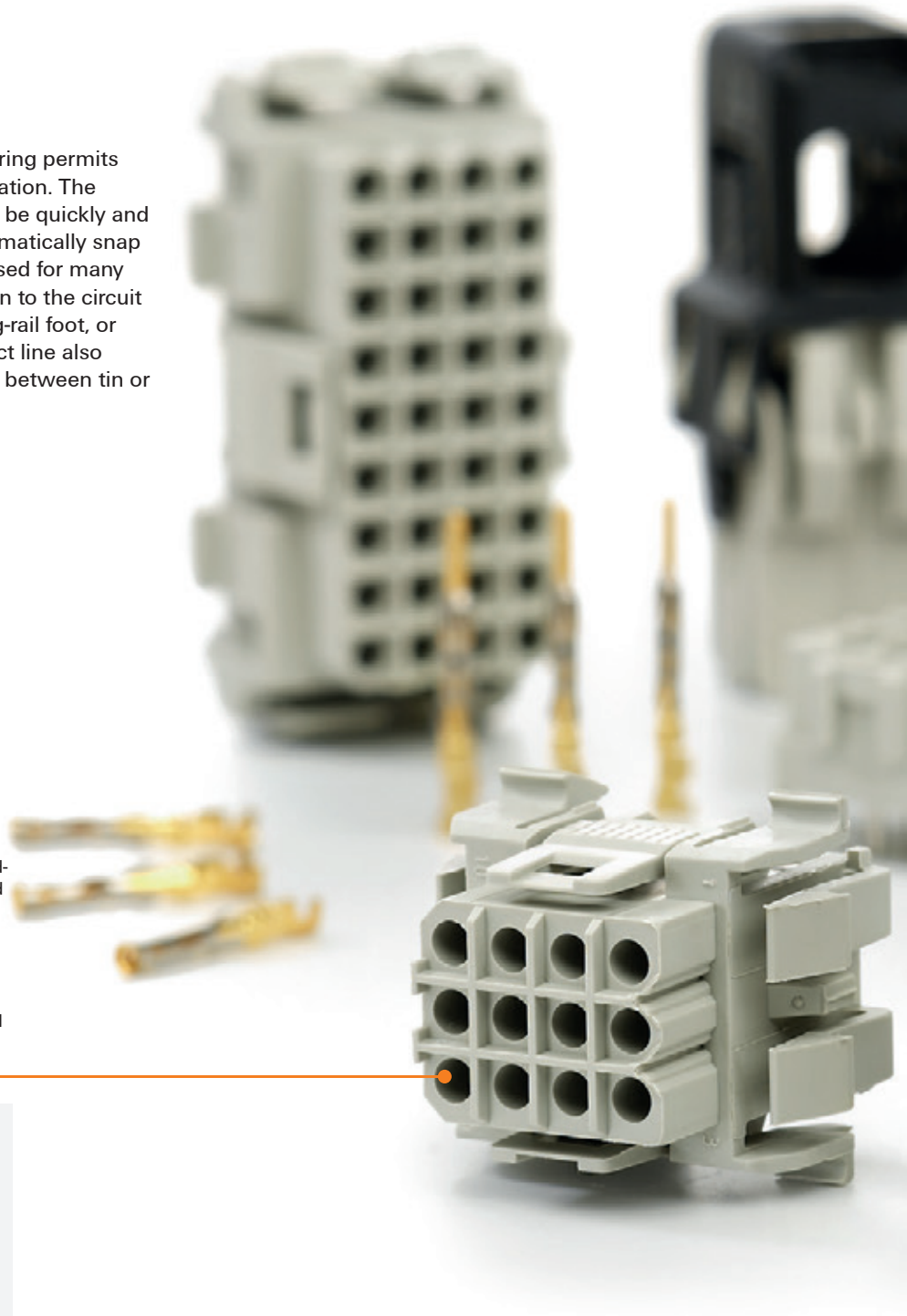
Ordering data

Solder pin length				3.2 mm
Colour				Orange
Pitch	**5.08 mm**			
Pol.	L1	(inch)	**Qty.**	**Order No.**
2	5.08	0.200	150	**1682730000**
3	10.16	0.400	108	**1682740000**
4	15.24	0.600	78	**1682750000**
5	20.32	0.800	66	**1682760000**
6	25.40	1.000	54	**1682770000**
7	30.48	1.200	48	**1682780000**
8	35.56	1.400	42	**1682790000**
9	40.64	1.600	36	**1682800000**
10	45.72	1.800	30	**1682810000**
11	50.80	2.000	30	**1682820000**
12	55.88	2.200	24	**1682830000**
13	60.96	2.400	24	**1682840000**
14	66.04	2.600	24	**1682850000**
15	71.12	2.800	24	**1682860000**
16	76.20	3.000	18	**1682870000**
17	81.28	3.200	18	**1682880000**
18	86.36	3.400	18	**1682890000**
19	91.44	3.600	18	**1682900000**
20	96.52	3.800	18	**1682910000**
21	101.60	4.000	12	**1682920000**
22	106.68	4.200	12	**1682930000**
23	111.76	4.400	12	**1682940000**
24	116.84	4.600	12	**1682950000**

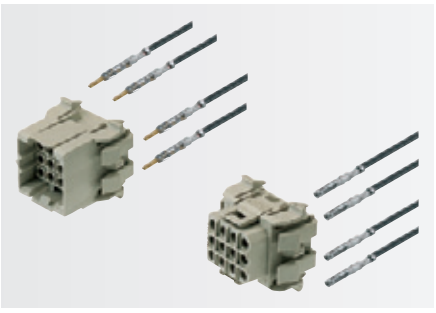
RSV 1.6 CB / CS

Highest flexibility with the highest density

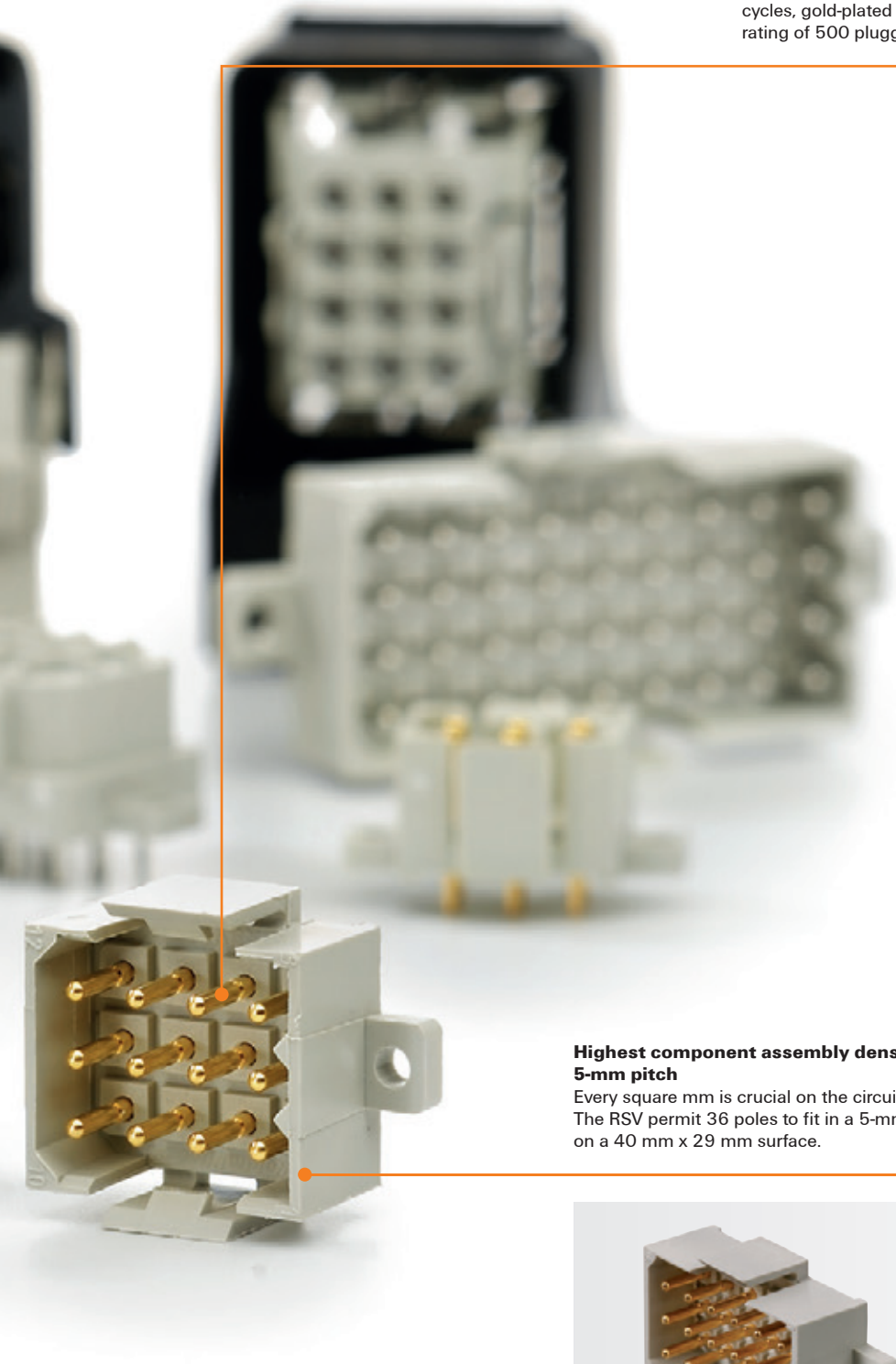
A space miracle for the PCB and the field wiring permits up to 36 contacts to be inserted in one operation. The crimp contacts ensure that the contacts can be quickly and flexibly assembled – their plastic cases automatically snap together when joined. This system can be used for many signalling purposes: whether it is soldered on to the circuit board, mounted on the rail using a mounting-rail foot, or built in to the front of the device. This product line also includes versatile coding elements, a choice between tin or gold surfaces, and snap-on plug hoods.



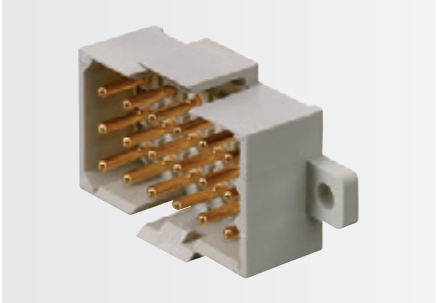
Versatile system-based wiring
Very versatile assembly: different functions can be combined with different wire cross-sections (from 0.14 mm² to 2.5 mm²). Tin-plated or gold-plated contact surfaces can be custom selected from pole to pole based on your application requirements. This delivers clear cost savings. Higher voltages may require larger clearance gaps between the contacts. This problem can be solved without changing to a different type of connector by simply occupying every second pole.



Also with gold contacts to meet application requirements
Gold-plated contacts are the best solution for very low currents or voltages, such as those used with measurements. Gold surfaces are a reliable safeguard against friction corrosion caused by long-term vibrations. Compared to tin contacts which are rated for 100 plugging cycles, gold-plated contacts have an increased rating of 500 plugging cycles.

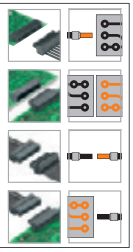


Highest component assembly density for 5-mm pitch
Every square mm is crucial on the circuit board. The RSV permit 36 poles to fit in a 5-mm pitch on a 40 mm x 29 mm surface.



http://www.OMNIMATE.net

= Wire-to-Board
= Board-to-Board
= Wire-to-Wire
= Board-to-Wire



Series RSV

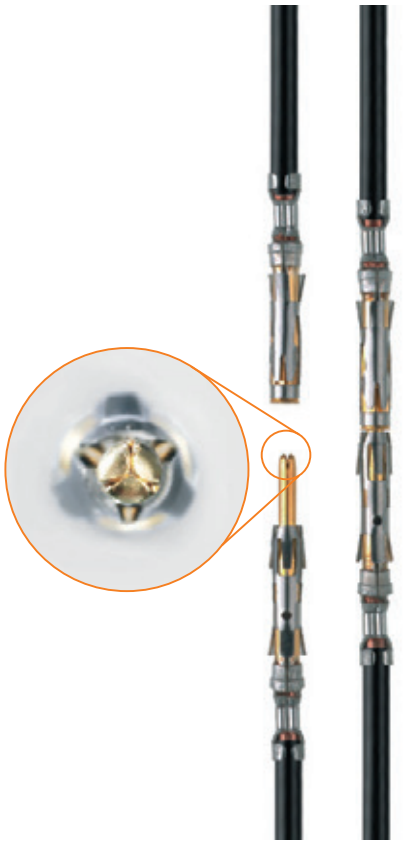
			Type	Contact surface	Flange options	IEC / UL	Levels Page
Female plug	Crimp		**RSV1.6 CB..**	Tin / Gold	(G)	IEC: 630 V/17 A UL: 600 V/10 A/AWG 26 - 12	C.265
Female header	Solder connection		**RSV1.6 LB.. SN**	Tin	(G)/F	IEC: 500 V/14 A UL: 300 V/10 A	C.258
			**RSV1.6 LB.. AU**	Gold	(G)/F	IEC: 500 V/14 A UL: 300 V/10 A	C.262

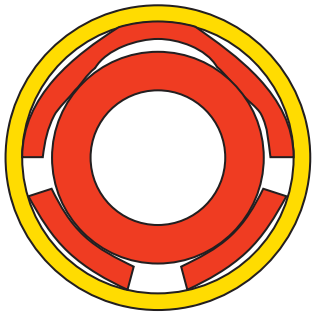
(G)* = Closed (without flange)
F = Flange

* = not included in the article description

	Male header		Male plug
	Solder connection		Crimp
			
	1		1
	RSV1.6 LS.. SN	RSV1.6 LS.. AU	RSV1.6 CS..
	Tin	Gold	Tin / Gold
	(G)/F	(G)/F	(G)
	IEC: 500 V/14 A UL: 300 V/10 A	IEC: 500 V/14 A UL: 300 V/10 A	IEC: 630 V/17 A UL: 600 V/10 A/AWG 26 - 12
	C.256	C.260	C.265
	○	○	●
	●		●
		●	●

Contact system CB 1.6 / CS 1.6

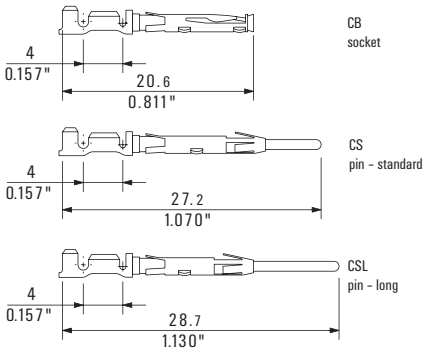


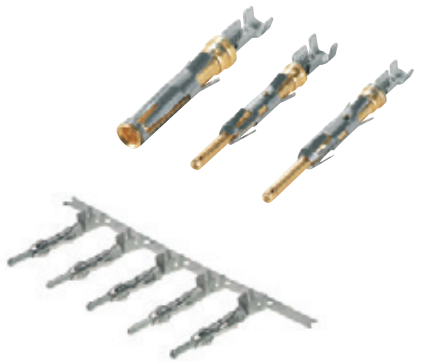


- Safe centring of the contacts using the three-segment pin tips
- 4 defined contact points ensure high contact stability
- Lugs in the enclosing steel spring ensure the contact engages securely in the housing
- Pin contacts with two lengths to implement leading-pin contacts
- Up to 100 plugging cycles (tin version)
- Up to 500 plugging cycles (gold version)

CB 1.6 / CS 1.6

Crimp contacts





Ordering data

Tinned contacts

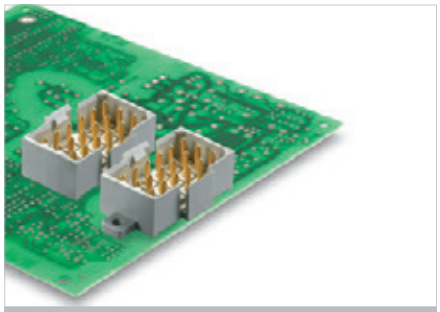
For cable size mm²	AWG	Insulation diameter mm		Separate contacts Order No.	Qty.	Cont. on a strip Order No.	Qty.
0.14 – 0.25	26 – 24	0.8 – 1.4	pin - standard	1421600000	250	1421500000	5000
			pin - long	1421700000	250	1565900000	5000
			socket	1421900000	250	1421800000	5000
0.34 – 0.5	22 – 20	1.1 – 1.8	pin - standard	1423600000	250	1423500000	5000
			pin - long	1423700000	250	1565870000	5000
			socket	1423900000	250	1423800000	5000
0.34 – 0.5	22 – 20	2.0 – 2.5	pin - standard	1425600000	250	1425500000	5000
			pin - long	1425700000	250	1565840000	5000
			socket	1425900000	250	1425800000	5000
0.75 – 1.5	18 – 16	2.0 – 2.5	pin - standard	1427600000	250	1427500000	5000
			pin - long	1427700000	250	1565810000	5000
			socket	1427900000	250	1427800000	5000
0.75 – 1.5	18 – 16	2.0 – 3.5	pin - standard	1582270000	250	1582280000	3000
			pin - long	1582350000	250	1582360000	3000
			socket	1582430000	250	1582440000	3000
2.5	14 – 12	2.8 – 3.5	pin - standard	1429600000	250	1429500000	3000
			pin - long	1429700000	250	1565780000	3000
			socket	1429900000	250	1429800000	3000
2.5	14 – 12	2.8 – 4.2	pin - standard	1582310000	250	1582320000	3000
			pin - long	1582390000	250	1582400000	3000
			socket	1582470000	250	1582480000	3000

Ordering data

Tinned contacts

For cable size mm²	AWG	Insulation diameter mm		Separate contacts Order No.	Qty.	Cont. on a strip Order No.	Qty.
0.14 – 0.25	26 – 24	0.8 – 1.4	Stift - standard	1420600000	250	1420500000	5000
			pin - long	1420700000	250	1565880000	5000
			socket	1420900000	250	1420800000	5000
0.34 – 0.5	22 – 20	1.1 – 1.8	Stift - standard	1422600000	250	1422500000	5000
			pin - long	1422700000	250	1565850000	5000
			socket	1422900000	250	1422800000	5000
0.34 – 0.5	22 – 20	2.0 – 2.5	Stift - standard	1424600000	250	1424500000	5000
			pin - long	1424700000	250	1565820000	5000
			socket	1424900000	250	1424800000	5000
0.75 – 1.5	18 – 16	2.0 – 2.5	Stift - standard	1426600000	250	1426500000	5000
			pin - long	1426700000	250	1565790000	5000
			socket	1426900000	250	1426800000	5000
0.75 – 1.5	18 – 16	2.0 – 3.5	Stift - standard	1582250000	250	1582260000	3000
			pin - long	1582330000	250	1582340000	3000
			socket	1582410000	250	1582420000	3000
2.5	14 – 12	2.8 – 3.5	Stift - standard	1428600000	250	1428500000	3000
			pin - long	1428700000	250	1565760000	3000
			socket	1428900000	250	1428800000	3000
2.5	14 – 12	2.8 – 4.2	Stift - standard	1582290000	250	1582300000	3000
			pin - long	1582370000	250	1582380000	3000
			socket	1582450000	250	1582460000	3000

RSV1.6 LS..



Rectangular plug-in male connector with solder contacts for PCB applications. High connection density achieved by using several rows and crimp contacts in the mating connector. The plug-in connectors can be coded and locked to the mating connector. Supplied in cardboard box.

Product data

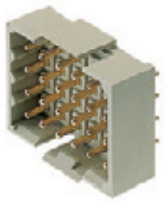
IEC: 500 V / 14 A
UL: 300 V / 10 A

For additional articles and information, refer to catalog.weidmueller.com

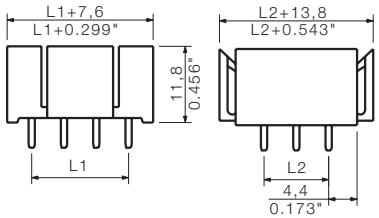
Note:

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Spacing between rows: see hole layout
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

RSV1.6 LS.. SN



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm²			
Solid core H05(07) V-U	**mm²**			
Stranded H07 V-R				
Flexible H05(07) V-K	mm²			
Flexible with ferrule	mm²			
Ferrule with plastic collar	mm²			
Stripping length	mm			
Screwdriver blade	mm			
According to norm				
Tightening torque range	Nm			
Rated current, max.	**A**	**14**		**12**
At ambient temperature		20°C		40°C
For conductor cross-section	mm²			
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	**V**	**250**	**320**	**500**
Rated impulse voltage	kV	4	2.5	2.5
UL / CUL (Use Group)		**B**	**C**	**D**
Rated voltage	**V**			
Rated current	**A**			
AWG conductor	**AWG**		-	
CSA (Use Group)		**B**	**C**	**D**
Rated voltage	V		300	
Rated current	A		13	
AWG conductor	AWG		-	
General data				
Type of insulation material			Wemid (PA)	
UL 94 flammability rating			V-0	
Contact base material			Copper alloy	
Material of contact surface			tinned	
Pin dimensions = d	mm		0.97	
Solder eyelet Ø = D	mm		1.3	
Solder eyelet Ø tolerance	mm		+ 0,1	

Accessories

Note: Refer to the Accessories chapter for additional accessories.

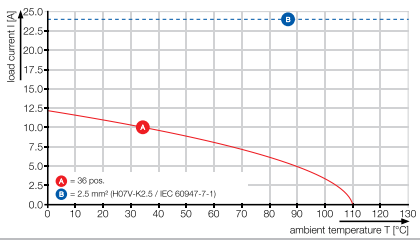
Coding		Order No.
	RSV1,6 KO	1567430000

Ordering data

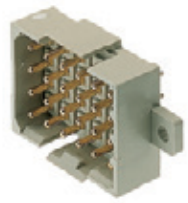
Solder pin length				3.2 mm
Colour				Pebble grey
Pitch	**5.00 mm**			
Pol.	L1	(inch)	Qty.	Order No.
4	5.00	0.197	100	1440500000
6	10.00	0.394	50	1441500000
9	10.00	0.394	50	1442500000
12	15.00	0.591	25	1443500000
18	25.00	0.984	25	1444500000
24	25.00	0.984	20	1445500000
36	40.00	1.575	10	1446500000

Representative deratings curve

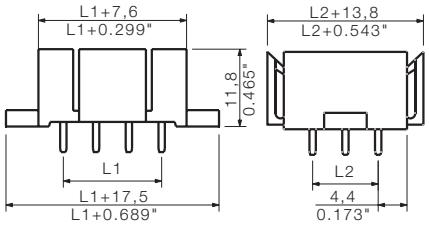
RSV1.6 CB.. - RSV1.6 LS..



RSV1.6 LSF.. SN



Dimensioned drawing

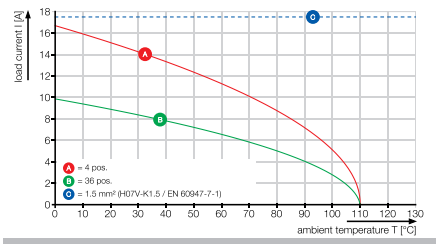


Ordering data

Solder pin length				3.2 mm
Colour				Pebble grey
Pitch	**5.00 mm**			
Pol.	**L1**	**(inch)**	**Qty.**	**Order No.**
4	5.00	0.197	100	1440900000
6	10.00	0.394	50	1441900000
9	10.00	0.394	50	1442900000
12	15.00	0.591	25	1443900000
18	25.00	0.984	25	1444900000
24	25.00	0.984	20	1445900000
36	40.00	1.575	10	1446900000

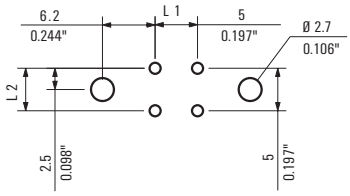
Additional deratings curves

RSV1.6 CB.. - RSV1.6 LS..

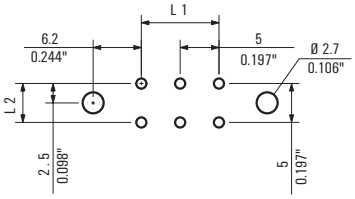


Drilling diagrams

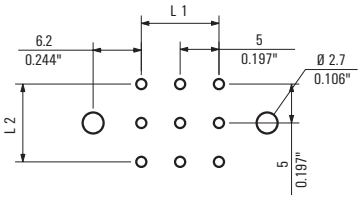
4-pole



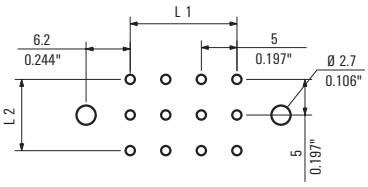
6-pole



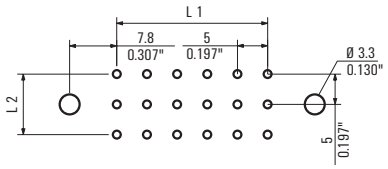
9-pole



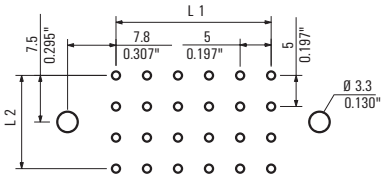
12-pole



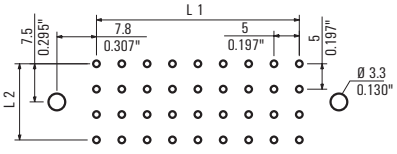
18-pole



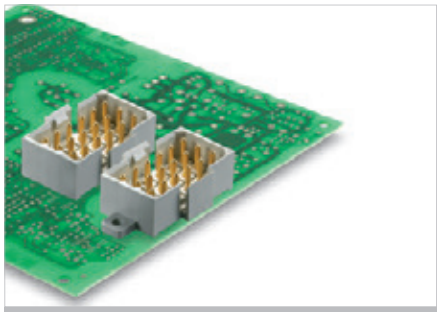
24-pole



36-pole



RSV1.6 LB..



Rectangular plug-in female connector with solder contacts for PCB applications. High connection density achieved by using several rows and crimp contacts in the mating connector. The plug-in connectors can be coded and locked to the mating connector. Supplied in cardboard box.

Product data

IEC: 500 V / 14 A
UL: 300 V / 10 A

For additional articles and information, refer to catalog.weidmueller.com

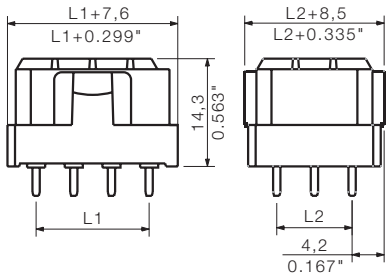
Note:

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Spacing between rows: see hole layout
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

RSV1.6 LB.. SN



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm²			
Solid core H05(07) V-U	**mm²**			
Stranded H07 V-R				
Flexible H05(07) V-K	mm²			
Flexible with ferrule	mm²			
Ferrule with plastic collar	mm²			
Stripping length	mm			
Screwdriver blade	mm			
According to norm				
Tightening torque range	Nm			
Rated current, max.	**A**	**14**		**12**
At ambient temperature		20°C		40°C
For conductor cross-section	mm²			
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	**V**	**250**	**320**	**500**
Rated impulse voltage	kV	4	2.5	2.5
UL / CUL (Use Group)		**B**	**C**	**D**
Rated voltage	**V**		**300**	
Rated current	**A**		**10**	
AWG conductor	**AWG**		-	
CSA (Use Group)		**B**	**C**	**D**
Rated voltage	V		300	
Rated current	A		13	
AWG conductor	AWG		-	
General data				
Type of insulation material			Wemid (PA)	
UL 94 flammability rating			V-0	
Contact base material			Copper alloy	
Material of contact surface			tinned	
Pin dimensions = d	mm		0.97	
Solder eyelet Ø = D	mm		1.3	
Solder eyelet Ø tolerance	mm		+ 0,1	

Accessories

Note: Refer to the Accessories chapter for additional accessories.

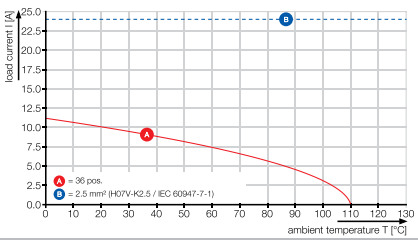
Coding		Order No.
	RSV1,6 KO	1567430000

Ordering data

Solder pin length				3.2 mm
Colour				Pebble grey
Pitch	**5.00 mm**			
Pol.	**L1**	**(inch)**	**Qty.**	**Order No.**
4	5.00	0.197	100	1440300000
6	10.00	0.394	50	1441300000
9	10.00	0.394	50	1442300000
12	15.00	0.591	25	1443300000
18	25.00	0.984	25	1444300000
24	25.00	0.984	20	1445300000
36	40.00	1.575	10	1446300000

Representative deratings curve

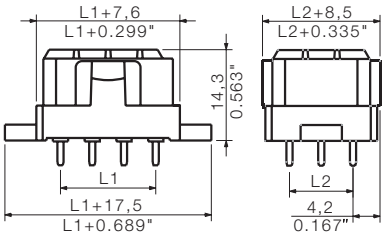
RSV1.6 LB.. - RSV1.6 CS..



RSV1.6 LBF.. SN



Dimensioned drawing

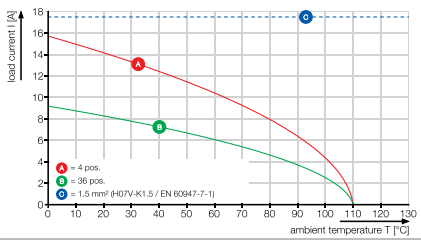


Ordering data

Solder pin length				3.2 mm
Colour				Pebble grey
Pitch	**5.00 mm**			
Pol.	L1	(inch)	**Qty.**	**Order No.**
4	5.00	0.197	100	**1440700000**
6	10.00	0.394	50	**1441700000**
9	10.00	0.394	50	**1442700000**
12	15.00	0.591	25	**1443700000**
18	25.00	0.984	25	**1444700000**
24	25.00	0.984	20	**1445700000**
36	40.00	1.575	10	**1446700000**

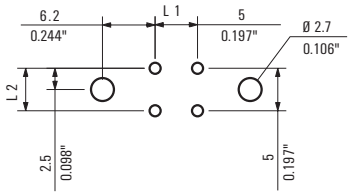
Additional deratings curves

RSV1.6 LB.. - RSV1.6 CS..

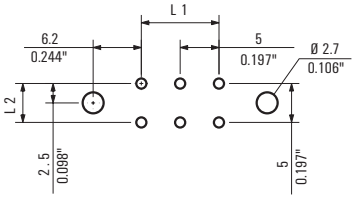


Drilling diagrams

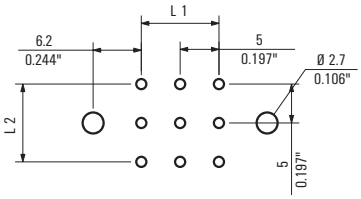
4-pole



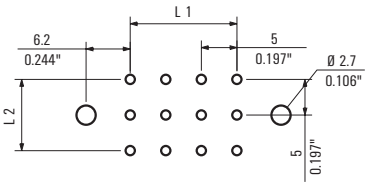
6-pole



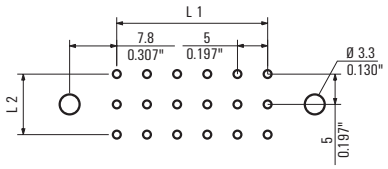
9-pole



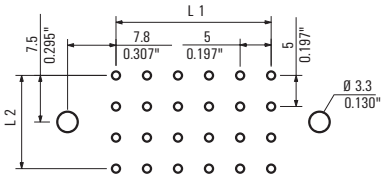
12-pole



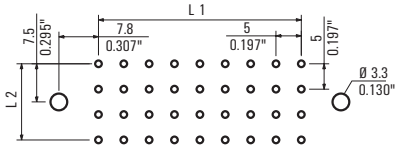
18-pole



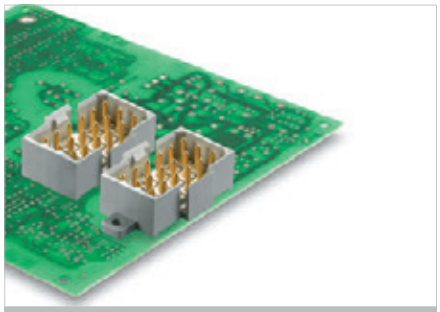
24-pole



36-pole



RSV1.6 LS.. AU



Rectangular plug-in male connector with solder contacts for PCB applications. High connection density achieved by using several rows and crimp contacts in the mating connector. The plug-in connectors can be coded and locked to the mating connector. Supplied in cardboard box.

Product data

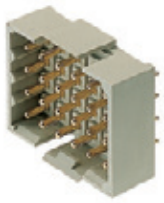
IEC: 500 V / 14 A
UL: 300 V / 10 A

For additional articles and information, refer to catalog.weidmueller.com

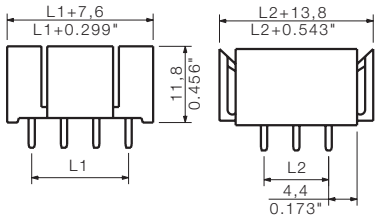
Note:

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Spacing between rows: see hole layout
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

RSV1.6 LS.. AU



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm²			
Solid core H05(07) V-U	**mm²**			
Stranded H07 V-R				
Flexible H05(07) V-K	mm²			
Flexible with ferrule	mm²			
Ferrule with plastic collar	mm²			
Stripping length	mm			
Screwdriver blade	mm			
According to norm				
Tightening torque range	Nm			
Rated current, max.	**A**	**14**		**12**
At ambient temperature		20°C		40°C
For conductor cross-section	mm²			
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	**V**	**250**	**320**	**500**
Rated impulse voltage	kV	4	2.5	2.5
UL / CUL (Use Group)		**B**	**C**	**D**
Rated voltage	**V**			
Rated current	**A**			
AWG conductor	**AWG**		-	
CSA (Use Group)		**B**	**C**	**D**
Rated voltage	V		300	
Rated current	A		13	
AWG conductor	AWG		-	
General data				
Type of insulation material			Wemid (PA)	
UL 94 flammability rating			V-0	
Contact base material			Copper alloy	
Material of contact surface			Gold-plated	
Pin dimensions = d	mm		0.97	
Solder eyelet Ø = D	mm		1.3	
Solder eyelet Ø tolerance	mm		+ 0,1	

Accessories

Note: Refer to the Accessories chapter for additional accessories.

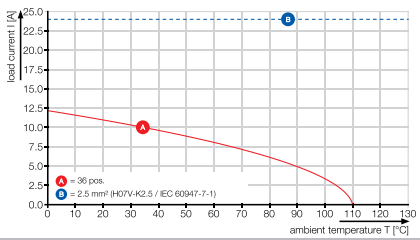
Coding		Order No.
	RSV1,6 KO	1567430000

Ordering data

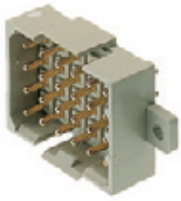
Solder pin length				3.2 mm
Colour				Pebble grey
Pitch	**5.00 mm**			
Pol.	L1	(inch)	Qty.	Order No.
4	5.00	0.197	100	1440400000
6	10.00	0.394	50	1441400000
9	10.00	0.394	50	1442400000
12	15.00	0.591	25	1443400000
18	25.00	0.984	25	1444400000
24	25.00	0.984	20	1445400000
36	40.00	1.575	10	1446400000

Representative deratings curve

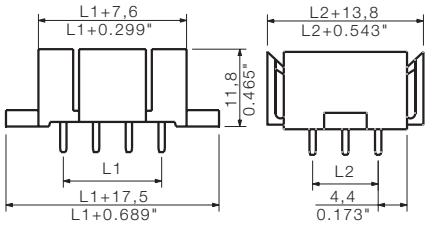
RSV1.6 CB.. - RSV1.6 LS..



RSV1.6 LSF.. AU



Dimensioned drawing

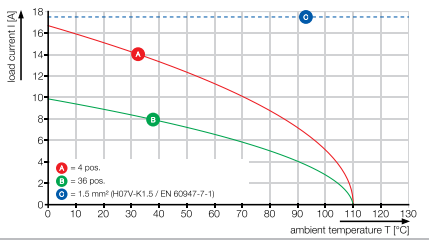


Ordering data

Solder pin length				3.2 mm
Colour				Pebble grey
Pitch	**5.00 mm**			
Pol.	**L1**	**(inch)**	**Qty.**	**Order No.**
4	5.00	0.197	100	1440800000
6	10.00	0.394	50	1441800000
9	10.00	0.394	50	1442800000
12	15.00	0.591	25	1443800000
18	25.00	0.984	25	1444800000
24	25.00	0.984	20	1445800000
36	40.00	1.575	10	1446800000

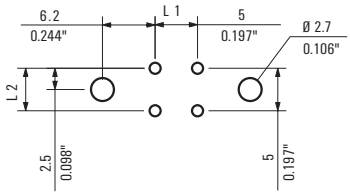
Additional deratings curves

RSV1.6 CB.. - RSV1.6 LS..

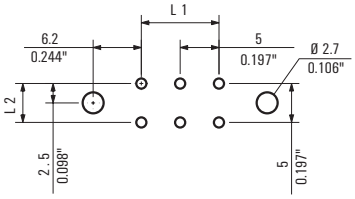


Drilling diagrams

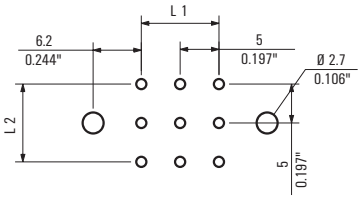
4-pole



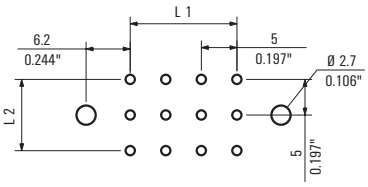
6-pole



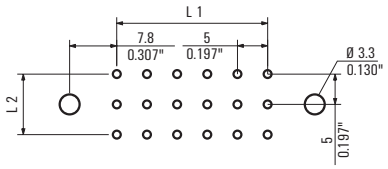
9-pole



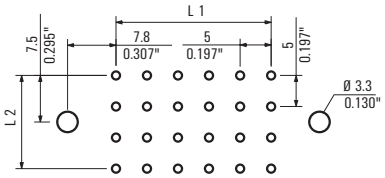
12-pole



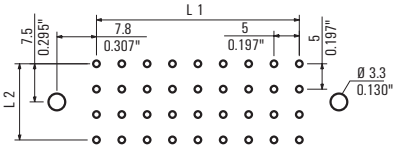
18-pole



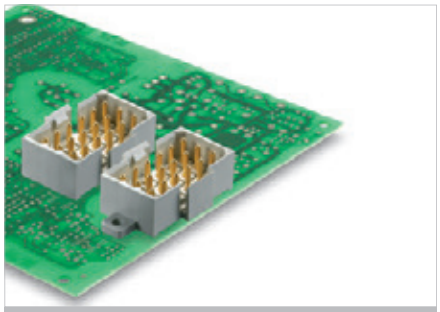
24-pole



36-pole



RSV1.6 LB.. AU



Rectangular plug-in female connector with solder contacts for PCB applications. High connection density achieved by using several rows and crimp contacts in the mating connector. The plug-in connectors can be coded and locked to the mating connector. Supplied in cardboard box.

Product data

IEC: 500 V / 14 A
UL: 300 V / 10 A

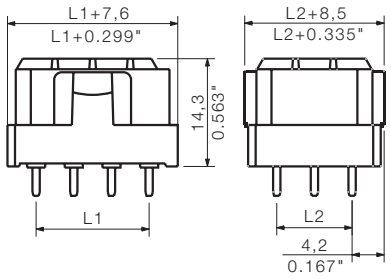
For additional articles and information, refer to catalog.weidmueller.com

Note:
- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Spacing between rows: see hole layout
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

RSV1.6 LB.. AU



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm²			
Solid core H05(07) V-U	**mm²**			
Stranded H07 V-R				
Flexible H05(07) V-K	mm²			
Flexible with ferrule	mm²			
Ferrule with plastic collar	mm²			
Stripping length	mm			
Screwdriver blade	mm			
According to norm				
Tightening torque range	Nm			
Rated current, max.	**A**	**14**		**12**
At ambient temperature		20°C		40°C
For conductor cross-section	mm²			
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	**V**	**250**	**320**	**500**
Rated impulse voltage	kV	4	2.5	2.5
UL / CUL (Use Group)		**B**	**C**	**D**
Rated voltage	**V**		**300**	
Rated current	**A**		**10**	
AWG conductor	**AWG**		-	
CSA (Use Group)		**B**	**C**	**D**
Rated voltage	V		300	
Rated current	A		13	
AWG conductor	AWG		-	
General data				
Type of insulation material			Wemid (PA)	
UL 94 flammability rating			V-0	
Contact base material			Copper alloy	
Material of contact surface			Gold-plated	
Pin dimensions = d	mm		0.97	
Solder eyelet Ø = D	mm		1.3	
Solder eyelet Ø tolerance	mm		+ 0,1	

Accessories

Note: Refer to the Accessories chapter for additional accessories.

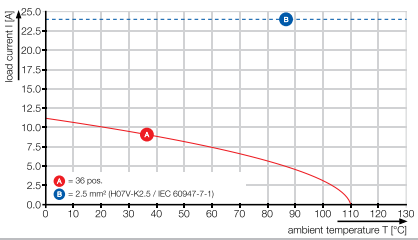
Coding		Order No.
	RSV1,6 KO	1567430000

Ordering data

Solder pin length				3.2 mm
Colour				Pebble grey
Pitch	**5.00 mm**			
Pol.	**L1**	**(inch)**	**Qty.**	**Order No.**
4	5.00	0.197	100	**1440200000**
6	10.00	0.394	50	**1441200000**
9	10.00	0.394	50	**1442200000**
12	15.00	0.591	25	**1443200000**
18	25.00	0.984	25	**1444200000**
24	25.00	0.984	20	**1445200000**
36	40.00	1.575	10	**1446200000**

Representative deratings curve

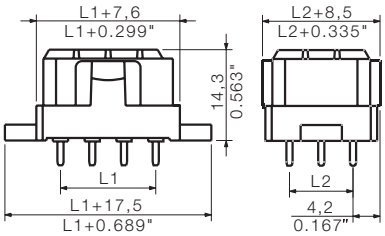
RSV1.6 LB.. - RSV1.6 CS..



RSV1.6 LBF.. AU



Dimensioned drawing

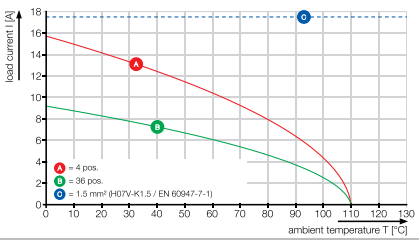


Ordering data

Solder pin length				3.2 mm
Colour				Pebble grey
Pitch	**5.00 mm**			
Pol.	**L1**	**(inch)**	**Qty.**	**Order No.**
4	5.00	0.197	100	1440600000
6	10.00	0.394	50	1441600000
9	10.00	0.394	50	1442600000
12	15.00	0.591	25	1443600000
18	25.00	0.984	25	1444600000
24	25.00	0.984	20	1445600000
36	40.00	1.575	10	1446600000

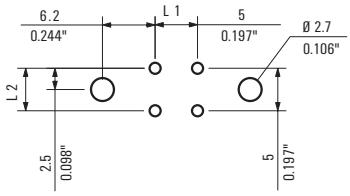
Additional deratings curves

RSV1.6 LB.. - RSV1.6 CS..

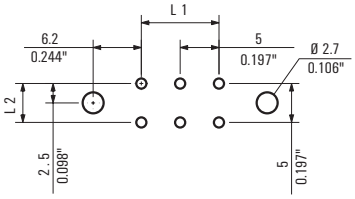


Drilling diagrams

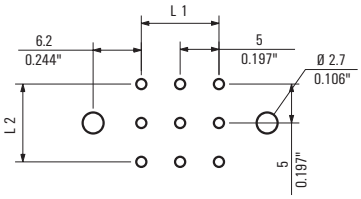
4-pole



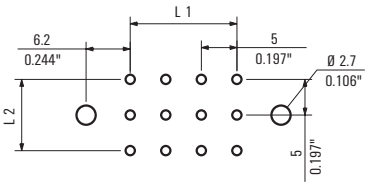
6-pole



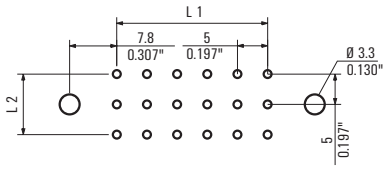
9-pole



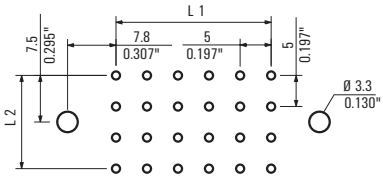
12-pole



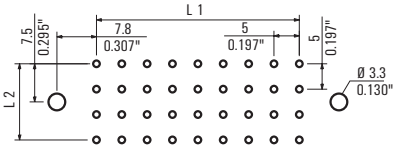
18-pole



24-pole



36-pole



RSV1.6 CS.. & CB..



Rectangular plug-in connector for use with crimp contacts. Can be used as universal coupling, but also with the PCB variations. The crimp contacts guarantee a high connection density. The CS 1.6 or CB 1.6 contacts are used here. The connectors can be coded and locked together with their mates. Supplied in cardboard box.

Product data

IEC: 630 V / 17 A
UL: 600 V / 10 A / AWG 26 - 12

For additional articles and information, refer to catalog.weidmueller.com

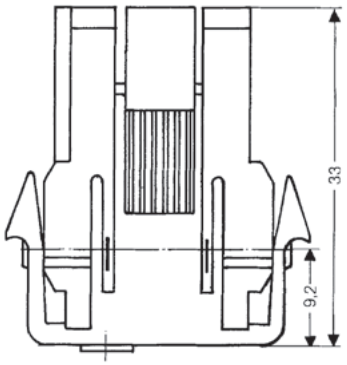
Note:

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Spacing between rows: see hole layout
- Rated cross-section depends on crimp contact used.
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- Max. outer diameter of the cable (with insulation): 3.5 mm

RSV1.6 CS..



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm²	0.13...3.31		
Solid core H05(07) V-U	**mm²**			
Stranded H07 V-R				
Flexible H05(07) V-K	mm²	0.2...2.5		
Flexible with ferrule	mm²			
Ferrule with plastic collar	mm²			
Stripping length	mm	4		
Screwdriver blade	mm			
According to norm				
Tightening torque range	Nm			
Rated current, max.	**A**	**17**		**15**
At ambient temperature		20°C		40°C
For conductor cross-section	mm²			
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	**V**	**250**	**400**	**630**
Rated impulse voltage	kV	4	4	4
UL / CUL (Use Group)		**B**	**C**	**D**
Rated voltage	**V**			
Rated current	**A**			
AWG conductor	**AWG**		-	
CSA (Use Group)		**B**	**C**	**D**
Rated voltage	V	600		
Rated current	A	13		
AWG conductor	AWG	26-12		
General data				
Type of insulation material		Wemid (PA)		
UL 94 flammability rating		V-0		
Contact base material		Copper alloy		
Material of contact surface				
Pin dimensions = d	mm			
Solder eyelet Ø = D	mm			
Solder eyelet Ø tolerance	mm			

Accessories

Note: Refer to the Accessories chapter for additional accessories.

Release tool		Order No.
	DW RSV 1.6	9004530000
Crimping tool		
	HTF RSV 16 WI	9013560000
Clip-in foot		
	RSV1,6 RF12/35x15 SW	1690140000
	RSV1,6 RF12/35x7.5 SW	1582940000
	RSV1,6 RF18/35x15 SW	1690150000
	RSV1,6 RF18/35x7.5 SW	1582950000
	RSV1,6 RF24/35x15 SW	1690160000
	RSV1,6 RF24/35x7.5 SW	1582960000
	RSV1,6 RF36/35x15 SW	1690170000
	RSV1,6 RF36/35x7.5 SW	1582970000
	RSV1,6 RF4/35x15 SW	1690110000
	RSV1,6 RF4/35x7.5 SW	1582910000
	RSV1,6 RF6/35x15 SW	1690120000
	RSV1,6 RF6/35x7.5 SW	1582920000
	RSV1,6 RF9/35x15 SW	1690130000
	RSV1,6 RF9/35x7.5 SW	1582930000
Strain relief		
	RSV1,6 ZE 12 SW	1563300000
	RSV1,6 ZE 18 SW	1563200000
	RSV1,6 ZE 24 SW	1563100000
	RSV1,6 ZE 36 SW	1563000000
	RSV1,6 ZE 4 SW	1563600000
	RSV1,6 ZE 6 SW	1563500000
	RSV1,6 ZE 9 SW	1563400000
Coding		
	RSV1,6 KO	1567430000

Ordering data

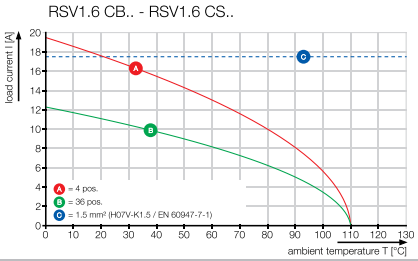
Solder pin length

Colour **Pebble grey**

Pitch **5.00 mm**

Pol.	L1	(inch)	Qty.	Order No.
4	5.00	0.197	25	1413100000
6	10.00	0.394	25	1414100000
9	10.00	0.394	25	1415100000
12	15.00	0.591	25	1416100000
18	25.00	0.984	25	1417100000
24	25.00	0.984	20	1418100000
36	40.00	1.575	10	1419100000

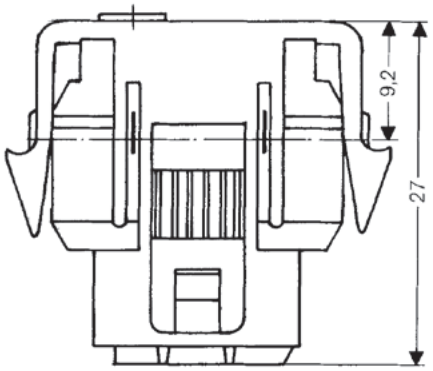
Representative deratings curve



RSV1.6 CB..



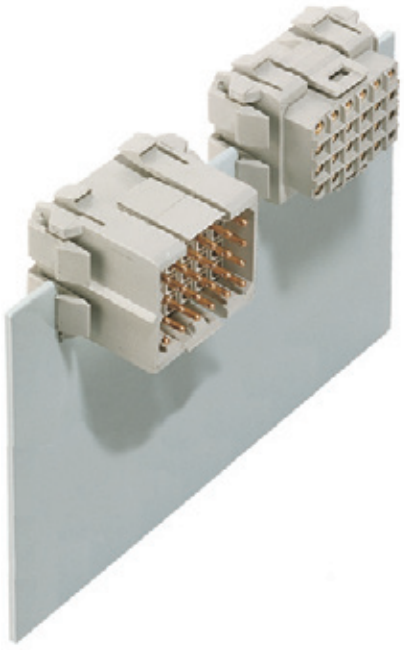
Dimensioned drawing



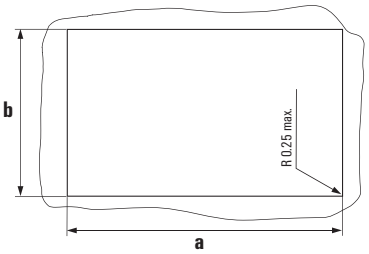
Ordering data

Solder pin length				
Colour				Pebble grey
Pitch	**5.00 mm**			
Pol.	L1	(inch)	**Qty.**	**Order No.**
4	5.00	0.197	25	**1413000000**
6	10.00	0.394	25	**1414000000**
9	10.00	0.394	25	**1415000000**
12	15.00	0.591	25	**1416000000**
18	25.00	0.984	25	**1417000000**
24	25.00	0.984	20	**1418000000**
36	40.00	1.575	10	**1419000000**

Mounting cutout



- Spring clips ensure firm hold in enclosure wall



Mounting cutout for enclosure RSV 1.6
Wall thickness 1.5...2.0 mm

No. of poles	Dim. a (mm)*	Dim. b (mm)*
4	20.3	17.8
6	25.1	18.1
9	25.1	24.0
12	30.0	24.0
18	40.5	24.0
24	40.5	28.3
36	55.5	28.3

*) Tolerance: +0.3 mm

OMNIMATE Signal Accessories

OMNIMATE Signal Accessories

Strain relief	D.2
Snap-on foot	D.3
Covers	D.4
Locks / Fixing blocks	D.5
Light guides	D.8
Coding elements	D.10
Dividing element	D.11
Separator plates	D.12
Disconnect element	D.13
Fuse element	D.13
Marker carrier	D.14
LED holder	D.14
Cross-connector	D.15
Test plug	D.15
Identification systems	D.16
IDC assembly blocks	D.19
Crimping tools	D.20
Disengaging tool / Removal tool	D.21
Screwdrivers	D.22

BL 3.50 ZE
BLZF 3.50 ZE

Strain relief



- Supports and protects the cable connections when removing the plug-in connector and during normal operation.
- Helpful when inserting and removing plug-in connector.

BLZ 5.00 ZE
BLZ 5.08 ZE

Strain relief



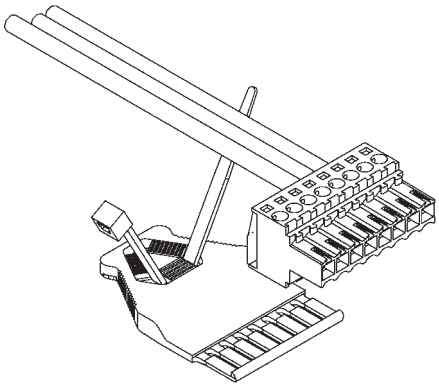
- Supports and protects the cable connections when removing the plug-in connector and during normal operation.
- Helpful when inserting and removing plug-in connector.

BLT ZE

Strain relief



- Supports and protects the cable connections when removing the plug-in connector and during normal operation.
- Helpful when inserting and removing plug-in connector.



Ordering data

Colour		orange	black
No. of poles	Qty.	Order No.	Order No.
from 3	50	1629680000	1627820000
from 8	50	1629690000	1627830000

Ordering data

Colour			orange	black
No. of poles	Pitch (mm)	Qty.	Order No.	Order No.
from 4	5,00	50	1652100000	1652120000
from 8	5,00	50	1652040000	1652060000
from 4	5,08	50	1652110000	1652130000
from 8	5,08	50	1652050000	1652070000

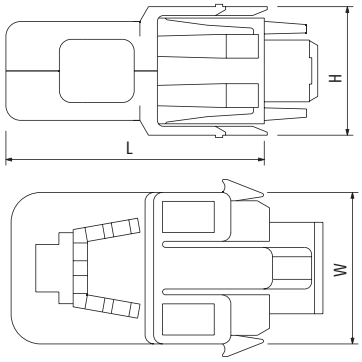
Ordering data

Colour		orange
No. of poles	Qty.	Order No.
from 4	50	1577980000
from 9	50	1578010000

RSV ZE

Strain relief





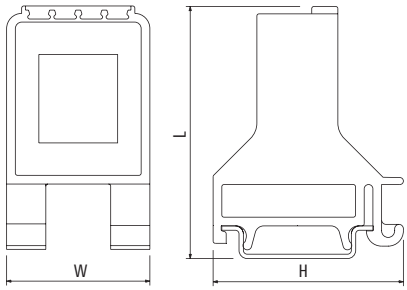
Ordering data

Pole	W (mm)	L (mm)	H (mm)	Qty.	Order No.
4	20,50	39,00	22,20	10	1563600000
6	25,50	44,00	22,40	10	1563500000
9	25,50	44,00	28,40	10	1563400000
12	33,00	51,50	28,60	10	1563300000
18	40,00	58,50	28,60	10	1563200000
24	40,00	58,50	28,60	10	1563100000
36	55,00	73,50	32,60	10	1563000000

RSV RF

Snap-on foot for terminal rail





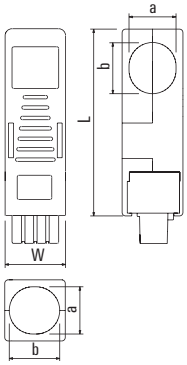
Ordering data

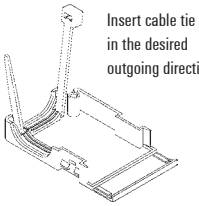
Snap-on foot for TS 35 x 7.5					black
Pole	W (mm)	L (mm)	H (mm)	Qty.	Order No.
4	32,90	58,90	43,70	10	1582910000
6	32,90	58,90	43,70	10	1582920000
9	32,90	58,90	43,70	10	1582930000
12	32,90	58,90	43,70	10	1582940000
18	37,30	83,40	43,70	10	1582950000
24	37,30	83,40	43,70	10	1582960000
36	37,30	83,40	43,70	10	1582970000
Snap-on foot for TS 35 x 15					
4	32,90	65,40	43,70	10	1690110000
6	32,90	65,40	43,70	10	1690120000
9	32,90	65,40	43,70	10	1690130000
12	32,90	65,40	43,70	10	1690140000
18	37,30	90,90	43,70	10	1690150000
24	37,30	90,90	43,70	10	1690160000
36	37,30	90,90	43,70	10	1690170000

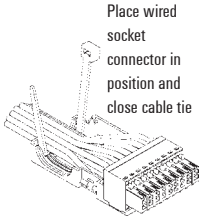
B2L 3.50 AH

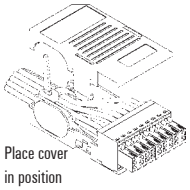
Cover

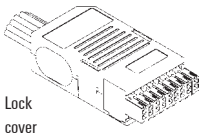












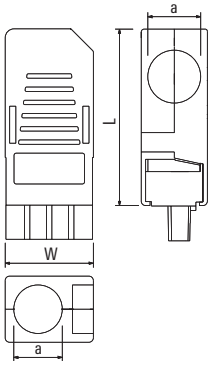
Ordering data

Pole	W (mm)	L (mm)	a (mm)	b (mm)	Qty.	Order No.
6	10,50	39,80	9,55	8,00	10	**1781560000**
8	14,00	39,80	9,55	8,00	10	**1781570000**
10	17,50	39,80	13,60	9,00	10	**1781580000**
12	21,00	39,80	13,60	9,00	10	**1781590000**
14	24,50	39,80	13,60	20,00	10	**1781600000**
16	28,00	39,80	13,60	20,00	10	**1781610000**
18	31,50	53,80	13,60	20,00	10	**1781620000**
20	35,00	53,80	13,60	20,00	10	**1781630000**
22	38,50	53,80	13,60	20,00	10	**1781640000**
24	42,00	53,80	13,60	20,00	10	**1781650000**
26	45,50	53,80	13,60	20,00	10	**1781660000**
28	49,00	53,80	13,60	20,00	10	**1781670000**
30	52,50	53,80	13,60	20,00	10	**1781680000**
32	56,00	53,80	13,60	20,00	10	**1781690000**
34	59,50	53,80	13,60	20,00	10	**1781700000**
36	63,00	53,80	13,60	20,00	10	**1781710000**

BL 3.50 AH

Cover





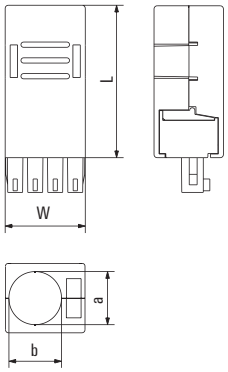
Ordering data

Pole	W (mm)	L (mm)	a (mm)	b (mm)	Qty.	Order No.
2	–	–	–	–	–	**–**
3	10,50	30,00	8,50	–	10	**1745580000**
4	14,00	30,00	8,50	–	10	**1745590000**
5	17,50	30,00	8,50	–	10	**1745600000**
6	21,00	30,00	8,50	–	10	**1745610000**
7	24,50	40,00	11,00	–	10	**1745620000**
8	28,00	40,00	11,00	–	10	**1745630000**
9	31,50	40,00	11,00	–	10	**1745640000**
10	35,00	40,00	11,00	–	10	**1745650000**
11	38,50	40,00	11,00	–	10	**1745660000**
12	42,00	40,00	11,00	–	10	**1745670000**
13	45,50	40,00	11,00	–	10	**1745680000**
14	49,00	40,00	11,00	–	10	**1745690000**
15	52,50	40,00	11,00	–	10	**1745700000**
16	56,00	40,00	11,00	–	10	**1745710000**

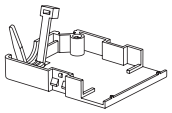
BCZ 3.81 AH

Cover

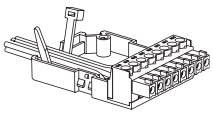




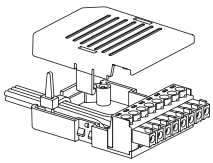
❶ Insert cable tie in the desired out-going direction.



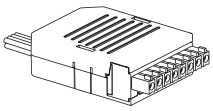
❷ Place wired socket connector in position and close cable tie.



❸ Place cover in position



❹ Lock cover

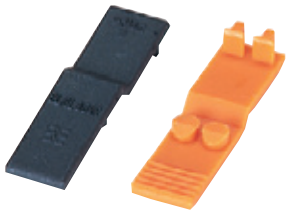


Ordering data

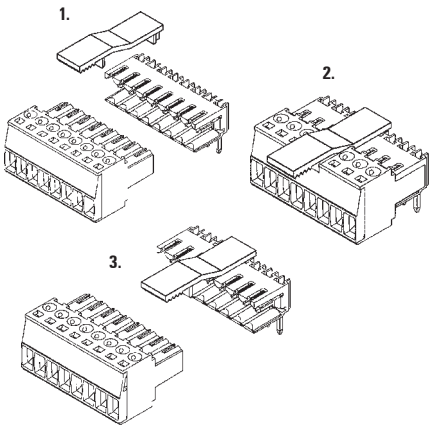
Pole	W (mm)	L (mm)	a (mm)	b (mm)	Qty.	Order No.
2	–	–	–	–	–	**–**
3	11,43	29	10	10	10	**1005280000**
4	15,24	29	10	10	10	**1005290000**
5	19,05	29	10	10	10	**1005300000**
6	22,86	29	10	10	10	**1005310000**
7	26,67	39	10	12,5	10	**1005320000**
8	30,48	39	10	12,5	10	**1005330000**
9	34,29	39	10	12,5	10	**1005340000**
10	38,1	39	10	13	10	**1005350000**
11	41,91	39	10	13,8	10	**1005360000**
12	45,72	39	10	14,6	10	**1005370000**
13	49,53	39	10	15,4	10	**1005380000**
14	53,34	39	10	16,2	10	**1005390000**
15	57,15	39	10	17	10	**1005400000**
16	60,96	39	10	17,8	10	**1005410000**

BL/SL 3.50 VR

Lock



- Simple, screw-less, vibration-proof mechanism for all single-row male connectors in conjunction with the standard 180° screw terminal socket connector BL 3.5.
- 2 VR locks are recommended for plug-in connectors with more than 8 poles.



Ordering data

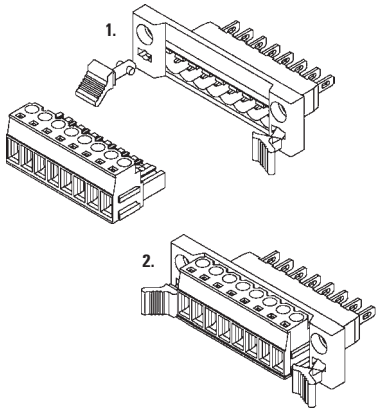
Colour		orange	black
No. of poles	Qty.	Order No.	Order No.
BL/SL 3.50 VR	100	1669310000	1669300000

SLDF VR

Lock



- For vibration-proof plug-in connections
- Socket must be B-Version with dovetail



Ordering data

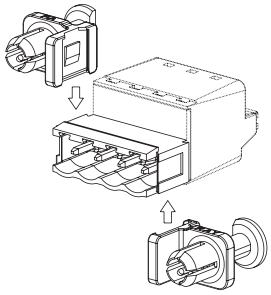
Colour		black
Type	Qty.	Order No.
SLDF VR	100	1599120000

BBDF

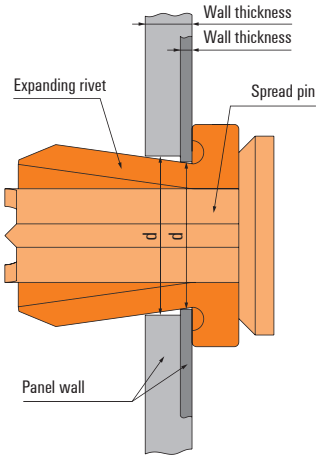
for universal feed-through-connection



Assembly Instruction



view of BBDF inside the panel



Ordering data

Colour			orange	black
Type	Width (mm)	Qty.	Order No.	Order No.
BBDF	9,5	100	1307570000	1307580000

SLA BB1R
SLA BB11R

Mounting blocks for headers, in 5.0x-mm pitch

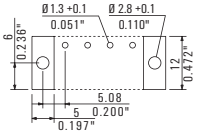
SLA BB11R



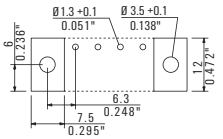
SLA BB1R



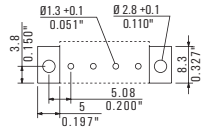
90 °



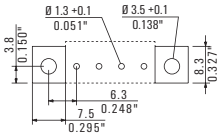
90 °

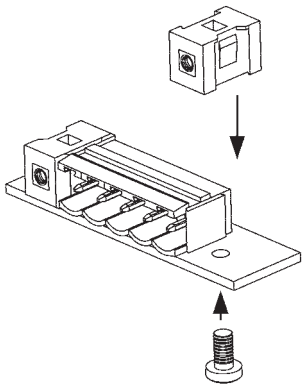


180 °



180 °





SLA BB2R
SLA BB12R

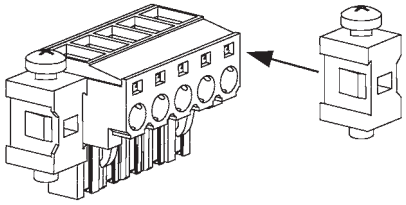
Mounting blocks for plugs, in 5.0x-mm pitch

SLA BB12R



SLA BB2R

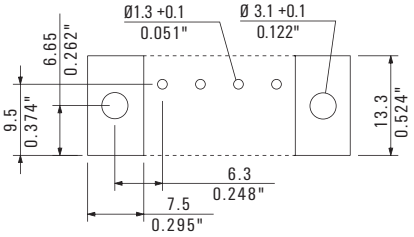




SL 135 BB15R

Mounting blocks for SL 135 male header





Ordering data

Colour			orange	black
Type	Width (mm)	Qty.	Order No.	Order No.
SLA BB1R	7,5	20	1723430000	1723480000
SLA BB11R	5,0	100	1604120000	1692340000

Ordering data

Colour			orange	black
Type	Width (mm)	Qty.	Order No.	Order No.
SLA BB2R	7,5	20	1723440000	1723490000
SLA BB12R	5,0	100	1593450000	1626880000

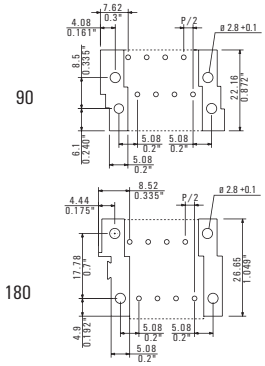
Ordering data

Colour			orange	black
Type	Width (mm)	Qty.	Order No.	Order No.
SL135 BB15R	7,5	20	1606450000	1636370000

SLA BB14

Mounting blocks for SLD 5.08 headers





- Provides additional mechanical support for rows of male connectors on the PCB
- Also enables vibration-proof connections for the matching socket connectors.
- BB12 fixing blocks or an integral screw flange are required for the socket.
- Caution: Only to be used with SLD 5.08 90 / SLD 5.08 180.

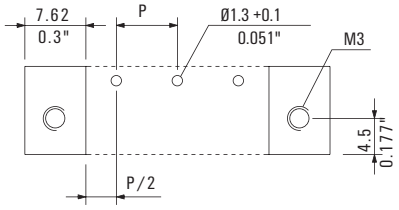
Ordering data

Colour			orange	black
Type	Width (mm)	Qty.	Order No.	Order No.
SLA BB14	5,0	20	1594200000	1774460000

LPBB

PCB fixing block





- Provides additional mechanical support for terminals LP, LP1N and LP 1H.
- Can also be supplied with captive nut (LPBB MU).
Ordering

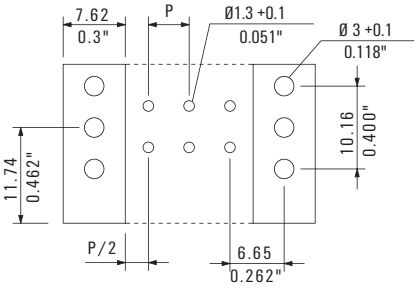
Ordering data

Colour		orange	black
Type	Qty.	Order No.	Order No.
LPBB	100	1747540000	1747560000
LPBB MU	100	1747530000	1747550000

TOP 1.5 BB

Fixing block for TOP 1.5 GS terminals





- Provides additional mechanical support for TOP 1.5 GS terminals.
- Supplied complete with 2.9 x 19 mm self-tapping screw.

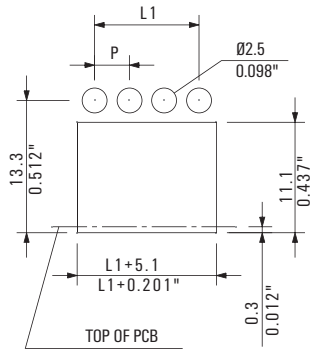
Ordering data

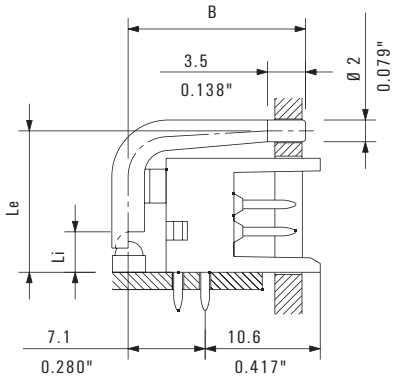
Colour		orange	black
Type	Qty.	Order No.	Order No.
TOP1.5 BB	20	1539860000	

S2L FLA

Light guide







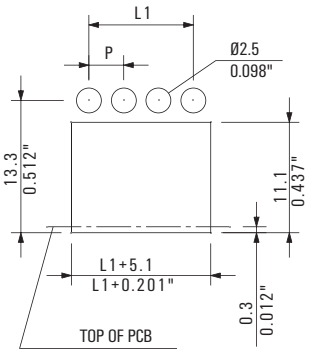
Ordering data

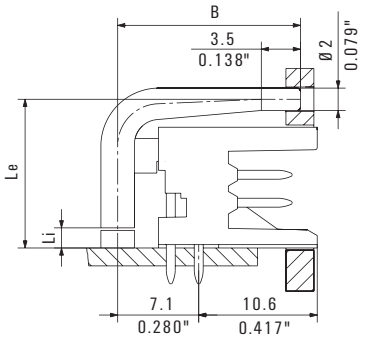
Pole	Li (mm)	Le (mm)	B (mm)	Qty.	Order No.
10	3,70	13,00	16,35	100	**1699580000**

S2L-SMT FLA

Light guide







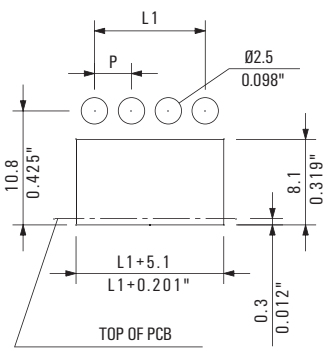
Ordering data

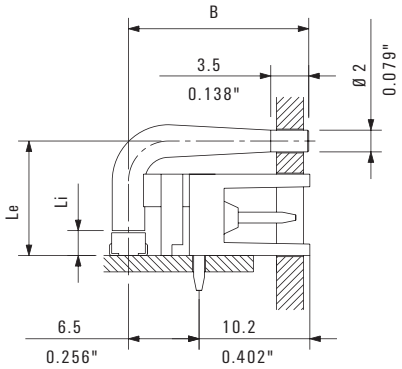
Pole	Li (mm)	Le (mm)	B (mm)	Qty.	Order No.
10	1,80	13,30	16,35	50	**1814590000**

SL 3.50 FLA

Light guide







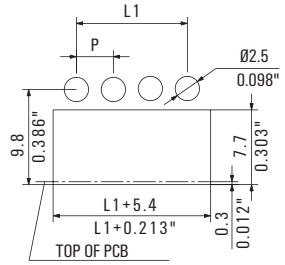
Ordering data

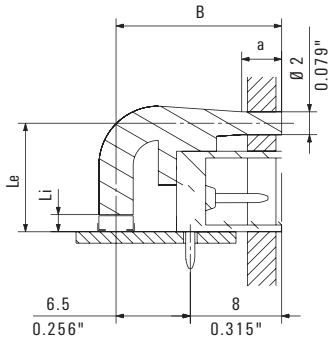
Pole	Li (mm)	Le (mm)	B (mm)	Qty.	Order No.
8	1,50	10,55	16,60	50	**1597510000**
8	2,30	10,55	16,60	50	**1597520000**
8	4,00	10,55	16,60	50	**1597530000**
8	1,50	10,55	14,85	50	**1597630000**
8	2,30	10,55	14,85	50	**1597640000**
8	4,00	10,55	14,85	50	**1597650000**

SC 3.81 FLA

Light guide







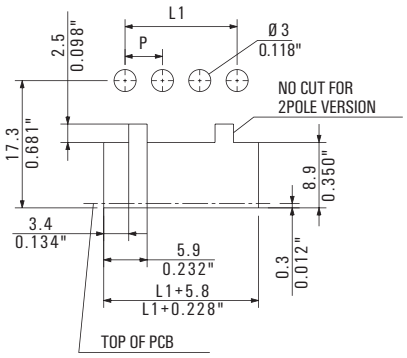
Ordering data

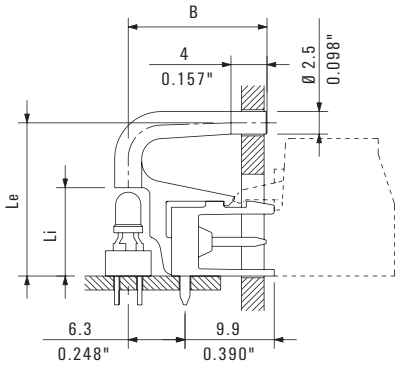
Pole	Li (mm)	Le (mm)	B (mm)	Qty.	Order No.
8	1,5	9,50	14,25	50	**1979730000**
8	2,3	9,50	14,25	50	**1979750000**
8	1,5	9,50	16,00	50	**1979720000**
8	2,3	9,50	16,00	50	**1979740000**

SL 5.08 FLA

Light guide







Ordering data

Pole	Li (mm)	Le (mm)	B (mm)	Qty.	Order No.
1	1,50	17,00	15,40	100	**1580100000**
1	2,30	17,00	15,40	100	**1636670000**
1	3,80	17,00	15,40	100	**1580110000**
1	9,00	17,00	15,40	100	**1580120000**
24	1,50	17,00	15,40	10	**1595850000**
24	2,30	17,00	15,40	10	**1636680000**
24	3,80	17,00	15,40	10	**1595860000**
24	9,00	17,00	15,40	10	**1595870000**

B2L/S2L KO

Coding element



- For coding plug-in connectors to prevent errors during installation.
- Suitable for plug and socket connectors.
- The coding does not block any poles.

Ordering data

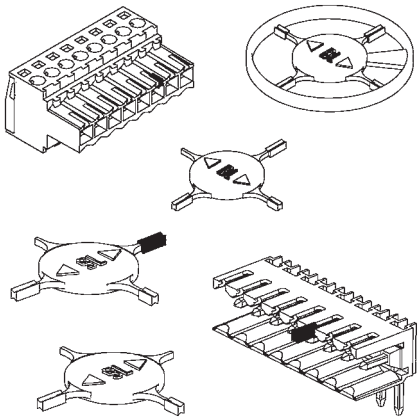
Colour		orange	black
Type	Qty.	Order No.	Order No.
B2L/S2L KO	100	1849730000	1849740000

BL/SL 3.50 KO

Coding element



- For coding plug-in connectors to prevent errors during installation.
- Suitable for plug and socket connectors.
- The coding does not block any poles.



Ordering data

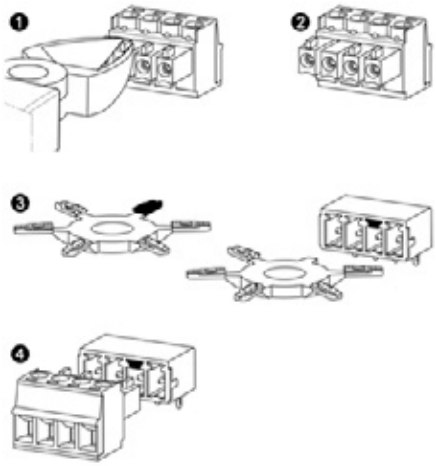
Colour		orange	black
Type	Qty.	Order No.	Order No.
BL/SL 3.5 KO	100	1693430000	1610100000

SC-SMT 3.81 KO

Coding element



- For coding connectors in order to prevent mistakes during installation
- Only for male headers (SC 3.81 and SC-SMT 3.81).
- Female headers (BCZ 3.81, BCF 3.81 and BCL-SMT 3.81) are coded using diagonal-cutting pliers. The coding does not occupy a pole.



Ordering data

Colour		grey
Type	Qty.	Order No.
SC-SMT 3.81 KO GR	100	1968900000

1 unit = 6 coding elements

BLZ/SL KO

Coding element



- For coding plug-in connectors to prevent errors during installation.
- Suitable for plug and socket connectors.
- The coding does not block any poles.
- Coding element for the BL/SL 5.00 and BL/SL 5.08 series

Ordering data

Colour		orange	black
Type	Qty.	Order No.	Order No.
BLZ/SL KO	100	1573010000	1545710000

RSV 1.6 KO

Coding element



- For coding plug-in connectors to prevent errors during installation.
- Suitable for plug and socket connectors.
- The coding blocks individual poles.

Ordering data

Colour		black
Type	Qty.	Order No.
RSV 1.6 KO	50	1567430000

SLAT

Dividing element



- Subdivides male connectors into distinct segments.
- Prevents errors during installation.



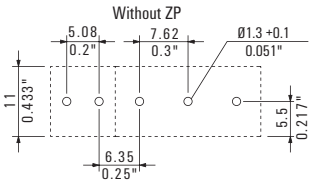
Ordering data

Colour		orange	black
Type	Qty.	Order No.	Order No.
SLAT	100	1598300000	1770240000

LPZP 1.27/90

Separator plates





- Spacer plate for separating connections with different voltages and pitches.

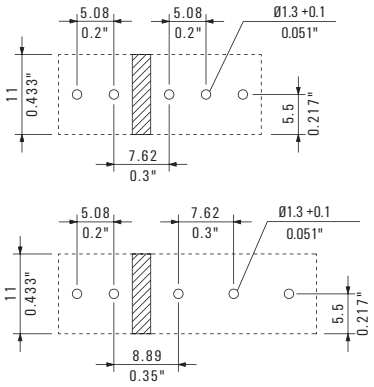
Ordering data

Colour		orange	black
Type	Qty.	Order No.	Order No.
LPZP 1.27/90	100	1747490000	1747510000

LPZP 2.54/90

Separator plates





- For clear identification of phases in adjacent connections.
- Spacer plate for separating connections with different voltages and pitches.

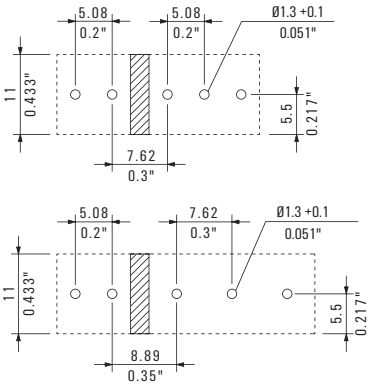
Ordering data

Colour		orange	black
Type	Qty.	Order No.	Order No.
LPZP 2.54/90	100	1747480000	1747500000

LPZP 2.54/135

Separator plates





- For clear identification of phases in adjacent connections.
- Spacer plate for separating connections with different voltages and pitches.

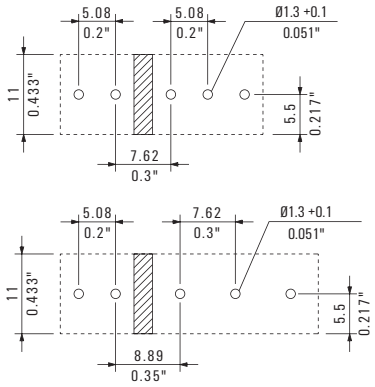
Ordering data

Colour		orange	black
Type	Qty.	Order No.	Order No.
LPZP 2.54/135	100	1753740000	1753750000

LPZP1N 2.54

Separator plates





- For clear identification of phases in adjacent connections.
- Spacer plate for separating connections with different voltages and pitches.

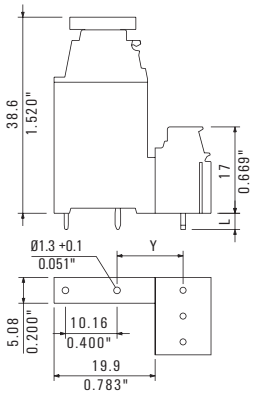
Ordering data

Colour		orange	black
Type	Qty.	Order No.	Order No.
LPZP1N 2.54	100	1747470000	1747520000

LPA TR

Disconnect element





Technical data

	VDE	UL	CSA
Rated voltage	250 V	300 V	300 V
Rated current	9 A	10 A	10 A

- Can be fixed to the rear of all LP 90 terminals.
- DEKAFIX markers not included.

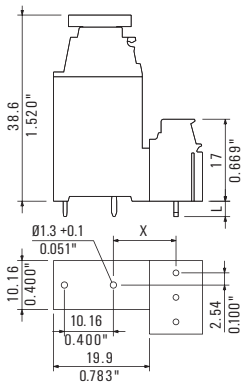
Ordering data

Type	Y (mm)		Qty.	Order No.
	with LP	with LPP		
LPA TR	12,8	15,2	100	1495460000

LPA SI

Fuse element





Technical data

	VDE	UL	CSA
Rated voltage	250 V	300 V	300 V
Rated current	6,3 A	10 A	10 A

- Can be fixed to the rear of all LP 5.08/90 terminals.
- Takes 5 x 25 cartridge fuses (DIN 820, IEC 127-2).
- Power loss = 1.6 W
- DEKAFIX markers not included.

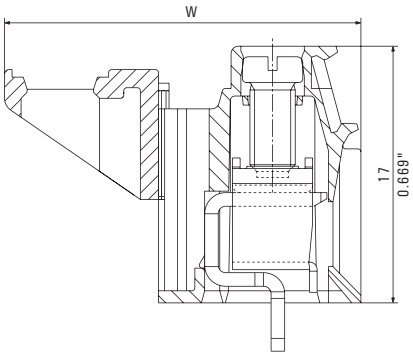
Ordering data

Type	Y (mm)		Qty.	Order No.
	with LP	with LPP		
LPA SI	12,8	15,2	50	1495060000

LPA BZ

Marker carrier





- For better marking of the connection clamps of the LP series
- Simply fixed to the back of the terminal.
- The WS 10/5 and WS 12/5 markers are not included with the delivery. Refer to the chapter on Accessories: Labelling Cards
- LEDs not included.

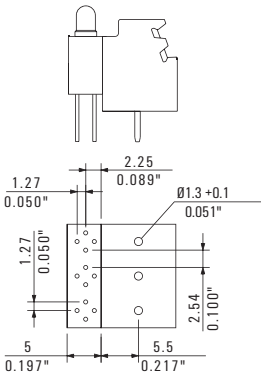
Ordering data

Colour				black
Pole	Width W		Qty.	Order No.
	with LP	with LPP		
2 LPA BZ2	21,2	23,6	100	**1497260000**
3 LPA BZ3	21,2	23,6	100	**1497360000**

LPA FA

LED holder





- Holder for standard 3 mm LEDs.
- Raised mounting position improves visibility of LEDs.
- Simply fixed to the back of the terminal.
- LEDs not included.

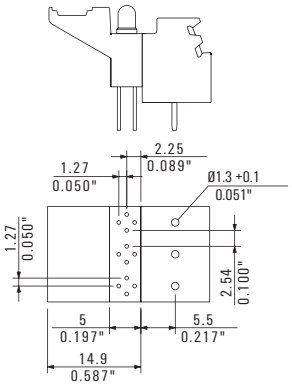
Ordering data

Colour		black
Pole	Qty.	Order No.
2 LPA FA 2	50	**1495960000**
3 LPA FA 3	50	**1496060000**

LPA FA BZ

LED holder with marker carrier





- For additional marking and fixing of three LEDs.
- Simply fixed to the back of the terminal.
- The WS 10/5 and WS 12/5 markers are not included with the delivery. Refer to the chapter on Accessories: Labelling Cards
- LEDs not included.

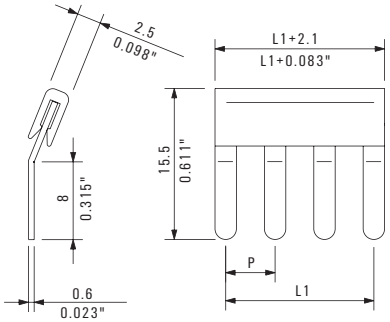
Ordering data

Colour		black
Pole	Qty.	Order No.
2 LPA FA BZ2	50	**1496160000**
3 LPA FA BZ3	50	**1496260000**

LPA QB

Cross-connector





- For distributing potential after installation.
- Reduces the feasible conductor diameter to the next smaller cross-section.
- Not suitable for use with tension clamp spring connection.

Ordering data

Pole	Pitch	Type	Qty.	Order No.
2	5,08 mm	LPA QB2	50	**1472200000**
3	5,08 mm	LPA QB3	50	**1472300000**
4	5,08 mm	LPA QB4	50	**1472400000**
10	5,08 mm	LPA QB10	20	**1472500000**
17	5,08 mm	LPA QB17	20	**1584770000**
24	5,08 mm	LPA QB24	20	**1472600000**

PS 2.0 MC

Test plug



- For conductors up to 0.75 mm2 (AWG 18).
- Gold-plated lantern-type contact.
- Conductor must be soldered to contact in test plug.

Ordering data

Type	Conductor size	Qty.	Order No.
PS 2.0 MC	≤ 0,75 mm²	20	**0310000000**

KSW 4 / KSW 2.5

Marking strips



KSW marking strips are suitable for labelling multi-pole PCB terminals and connectors. The white, self-adhesive strips are made from a non-PVC, environmentally friendly material. These marking strips provide individual printing, i.e. are suitable for every pitch. Available in two widths: 2.5 and 4.0 mm.

Printed strips

KSW 4	Pitch			
Char.	3.50 mm	5,00 mm	5,08 mm	7,62 mm
1-8	1630190001	1700670001	1630200001	1700680001
1-12	–	–	–	1652270001
1-16	1630150001	1700700001	1630160001	–
1-24*	1640410001	1700710001	1630180001	–

KSW 2.5	Pitch			
Char.	3,50 mm	5,00 mm	5,08 mm	7,62 mm
1-8	–	1700660001	1630100001	–
1-12	–	–	–	–
1-16	1652260001	1630070001	1713970001	–
1-24*	1652250001	1713980001	1713990001	–

Technical data

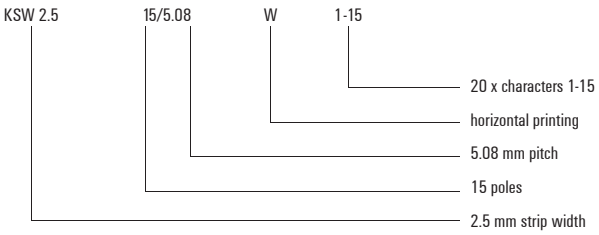
Material data	
Material	polyester with white surface
Adhesive	acrylic base
Temperature range	–40 °C to +150 °C
Min. bonding temperature	+4 °C
Flammability	self-extinguishing after 15 s

No. of marking strips per sheet

up to 20 poles = 20 strips per sheet
* more than 20 poles = 15 strips per sheet

Ordering example

Order No. 1630060001



Blank strips

	Length of strip		
	50 mm	100 mm	150 mm
KSW 4	1629970000	1629990000	1630010000
KSW 2.5	1629960000	1629980000	1630000000

Custom printing to specification

	Length of strip		
	50 mm	100 mm	150 mm
KSW 4	1629910000	1629930000	1629950000
KSW 2.5	1629900000	1629920000	1629940000

Direct printing





We can also print directly on your plug and socket connectors to your specification. Please ask for details.

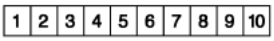
DEK 5

Dekafix system

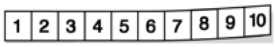




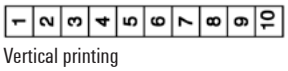
Dekafix is supplied in packs of 10 cards with 50 individual tags per card.
Dekafix tags are white with black printing as standard.



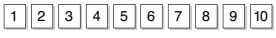
Horizontal printing



Mounted as strip



Vertical printing



Mounted singly

Technical data

Material data	
Material	polyamide
Temperature range	– 40 °C to +100 °C
Flammability rating	UL 94 V-2
Contents	silicone-free, halogens below minimum detectable level self-extinguishing after 15 s
Mounting	as strips or singly depending on type of carrier
Printing	black printing, standard or to customer specification
Smudge resistance	to DIN IEC 50
Custom printing	according to list or data exchange by diskette or modem
Colour	to international colour code
Max. characters DEK 5	3 horizontal/3 vertical up to 2.5 mm font size

Custom printing to specification

Colour	Order No.	Colour	Order No.	Colour	Order No.	Qty. 500
❍ white	0490760000	(Note: white has a different order No; otherwise, please state colour when ordering.)				
● black	0490790000	● yellow	0490790000	● violet	0490790000	
● brown	0490790000	● green	0490790000	● grey	0490790000	
● red	0490790000	● blue	0490790000	● orange	0490790000	

Blank

Colour	Order No.	Colour	Order No.	Colour	Order No.	Qty. 500
● black	0473391694	● yellow	0473391687	● violet	0473391689	
● brown	0473391692	● green	0473391688	● grey	0473391691	
● red	0473391686	● blue	0473391693	❍ white	0473360000	
● orange	0473391690					

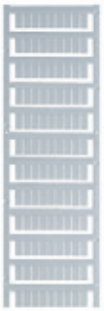
Printed tags

(horizontal only)	Character	Order No.
Tags with individual letters	A	0522761021
	B	0522761022
	C	0522761023
A A A A A A A A A A	D	0522761024
	E	0522761025
	F	0522761026
	G	0522761027
	H	0522761028
	I	0522761029
	J	0522761030
	K	0522761031
	L	0522761032
	M	0522761033
	N	0522761034
	O	0522761035
	P	0522761036
	Q	0522761037
	R	0522761038
	S	0522761039
	T	0522761040
	U	0522761041
	V	0522761042
	W	0522761043
	X	0522761044
	Y	0522761045
	Z	0522761046

	Character	Horizontal	Vertical
Beschriftung je 50 Zahlen fortlaufend	1 ... 50	0473460001	0473560001
1 2 3 4 5 6 7 8 9 10	51 ... 100	0473460051	0473560051
11 12 13 14 15 16 17 18 19 20	to	The last 3 digits of the order No. indicate the first character.	
	951 ... 999	0473460951	0473560951
10 consecutive numbers	1 ... 10	0523060001	0460660001
1 2 3 4 5 6 7 8 9 10	11 ... 20	0523060011	0460660011
11 12 13 14 15 16 17 18 19 20	to	The last 3 digits of the order No. indicate the first character.	
	91 ... 100	0523060091	0460660091
Individual numbers	1	0522660001	–
1 1 1 1 1 1 1 1 1 1	2	0522660002	–
	bis	The last 3 digits of the order No. indicate the first character.	
	200	0522660200	–
Various symbols	L1, L2, L3, N, PE	0354361187	–
L1 L2 L3 N PE L1 L2 L3 N PE			
Single symbols	plus +	0576261198	–
+ + + + + + + + + +	minus –	0576261199	–
L1 L1 L1 L1 L1 L1 L1 L1 L1 L1	PE	–	0157261187
	L1	0522361075	–
	L2	0522361076	–
	L3	0522361077	–
	earth	0576261202	0157261202
	earth in circle	0576261203	0157261203
	AC ~	0576261215	–
Individual card (state characters and orientation when ordering)		0490760000	0490760000
Coloured blank Dekafix (state colour when ordering)		0473390000	0473390000
Coloured printed Dekafix = custom printing (state colour and characters when ordering)		0490790000	0490790000

WS 10/5
WS 12/5

MultiCard marking



- WS 10/5 = 10 mm long x 5 mm wide
- WS 12/5 = 12 mm long x 5 mm wide
- Supplied as MultiCard 5 cards each with 144 markers

Ordering data

Type	Length mm	Order No.
WS 10/5	10	**1635000000**
WS 12/5	12	**1609860000**

S 10

Marker strips



- Markers for TOP 4 terminals
- Supplied in packs of 100 strips with 10 markers per strip

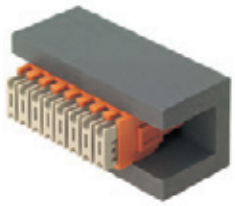
Ordering data

Printing	Qty.	Order No.
10 consecutive numbers (SF10)	0 ... 9	**0332400000**
	1 ...10	**0331500001**
	11 ... 20	**0331500011**
Individual numbers (SF 10)	1	**0332500001**
	2	**0332500002**
	3	**0332500003**
	4	**0332500004**
	5	**0332500005**
	6	**0332500006**
	7	**0332500007**
	8	**0332500008**
	9	**0332500009**
Blank		**0332500000**
Custom printing on request*		

* A minimum order quantity can be agreed for custom printing.

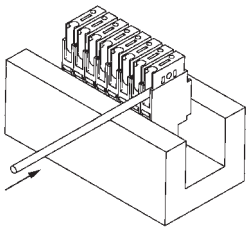
BLIDC B 3.5 ASB

IDC assembly block



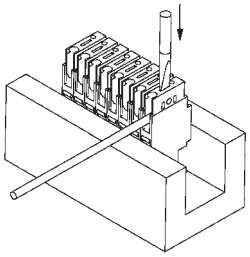
Wiring the module

1.



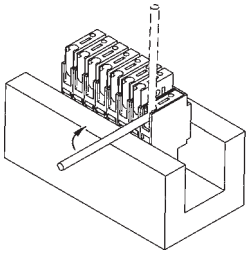
Insert conductor as far as possible.

2.



Insert screwdriver into centre opening and press down.

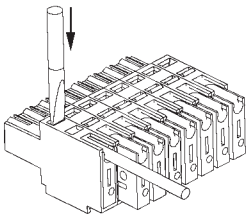
3.



Module is engaged and conductor is now connected.

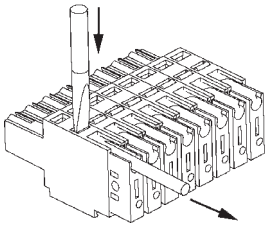
Detaching the module

1.



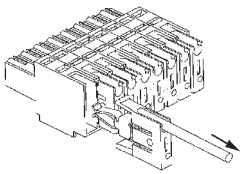
Insert screwdriver into first opening and press down.

2.



Insert screwdriver into second opening and press down.

3.



Module is now disengaged and can be pulled out.

Ordering data

Type	Qty.	Order No.
BLIDCB 3.5	1	**1770310000**

HTF 28
HTF 63

Crimping tools





- Precision crimping tool with ratchet for 2.80 and 6.30 mm spade connections with open or rolled terminals
- HTF 28 for flexible conductors 0.10-1.00 mm² (AWG 26-16)
- HTF 63 for flexible conductors 0.50-2.50 mm² (AWG 20-14)

Ordering data

Type	Crimp size mm/inch	Cross-section mm²/AWG	Order No.
HTF 28	2,8/0,110	0,14-1,5/26-16	**9013090000**
HTF 63	6,3/0,250	0,50-2,5/20-14	**9013400000**

HTF DFF

Crimping tools





- Precision crimping tool with ratchet for the Weidmüller DFFC crimp contacts of BLC and BLAC socket connectors
- 0.22-0.35 mm² (AWG 24-22)
- 0.50-1.00 mm² (AWG 20-17)
- 1.50-2.50 mm² (AWG 16-12)

Ordering data

Type	Cross-section mm²/AWG	Order No.
HTF DFF	0,22-2,5/24-12	**9014140000**

HTF RSV 12
HTF RSV 16

Crimping tools





- Precision crimping tool with ratchet for the Weidmüller CB and CS crimp contacts of RSV 1.6 plug-in connectors
- RSV 16 = 0.14 - 1.50 mm² (AWG 26-16)
- RSV 12 = 1.50 - 2.50 mm² (AWG 14-12)

Ordering data

Type	Cross-section mm²/AWG	Order No.
HTF RSV 16	0,14-1,5/26-16	**9013560000**
HTF RSV 12	1,50-2,5/14-12	**9013550000**

DFFC EW2

Disengaging tool





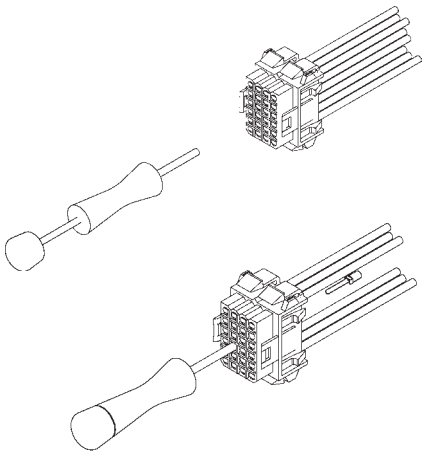
Ordering data

Type	Qty.	Order No.
DFFC EW2	1	1803790000

DW RSV

Disengaging tool





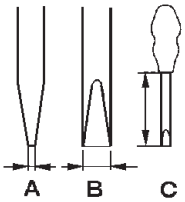
Ordering data

Type	Qty.	Order No.
DW RSV 1.6	1	9004530000

SDI

VDE-insulated slotted screwdriver





VDE-insulated slotted screwdriver, SDI

- DIN 7437, ISO 2380/2
- Output acc. to DIN 5264, ISO 2380/1
- SoftFinish® handle

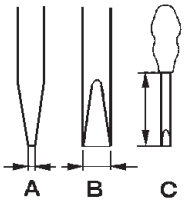
Ordering data

Type	Dims. (mm)	A	B	C	Order No.
SDI		0,4	2,5	75	9008370000
SDI		0,5	3,0	100	9008380000
SDI		0,6	3,5	100	9008390000
SDI		0,8	4,0	100	9008400000
SDI		1,0	4,5	125	9008910000
SDI		1,0	5,5	125	9008410000
SDI		1,2	6,5	150	9008420000
SDI		1,6	8,0	175	9008430000

SD

Slotted screwdriver with round blade





Slotted screwdriver with round blade, SD

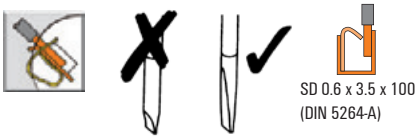
- DIN 5265, ISO 2380/2
- Output acc. to DIN 5264, ISO 2380/1
- ChromTop tip
- SoftFinish® handle

Ordering data

Type	Dims. (mm)	A	B	C	Order No.
SD		0,4	2,5	75	9009030000
SD		0,5	3,0	80	9008320000
SD		0,6	3,5	100	9008330000
SD		0,8	4,0	100	9008340000
SD		0,8	4,5	125	9009020000
SD		1,0	5,5	150	9008350000
SD		1,2	6,5	150	9009010000

Tension clamp terminal tool

Tool for PCB terminals with tension clamp connection



You do not need any special tool to connect or disconnect our tension clamp connection.
The opening is designed to accommodate a standard 0.6 x 3.5 x 100 screwdriver 9008330000 to DIN 5264-A (with flat blade).

SDK PH

Crosshead screwdriver





Crosshead screwdriver PH (Philips)

- SDK PH DIN 5262, ISO 8764/2-PH
- Output acc. to ISO 8764-PH
- ChromTop tip
- SoftFinish® handle

Crosshead screwdriver PZ (Pozidrive)

- SDK PZ DIN 5262, ISO 8764/2-PZ
- Output acc. to ISO 8764-PZ
- ChromTop tip
- SoftFinish® handle

Ordering data PH

Type	Dims. (mm)	A	B	C	Order No.
SDK PH0	0			60	9008470000
SDK PH1	1			80	9008480000
SDK PH2	2			100	9008490000
SDK PH3	3			150	9008500000

Ordering data PZ

Type	Dims. (mm)	A	B	C	Order No.
SDK PZ1	1			80	9008530000
SDK PZ2	2			100	9008540000
SDK PZ3	3			150	9008550000

OMNIMATE Power
PCB terminals

OMNIMATE Power PCB terminals

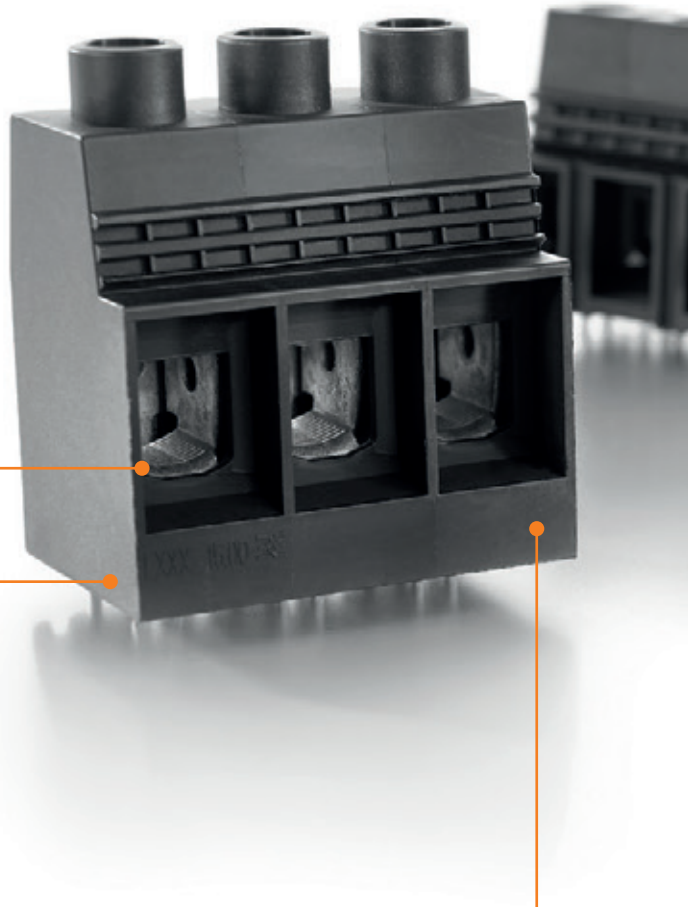
Clamping yoke screw connection

Explanation	E.2
Quick selection	E.4
Technical data	E.6

OMNIMATE Power PCB terminals

High-power connections up to 150 A /1.000 V

The OMNIMATE Power PCB terminals – ranging from the LUP in 10.16-mm pitch to the LXXX in 15.00-mm pitch – is approved for unlimited international use in applications according to UL 1059 (600 V) and IEC (1.000 V). Weidmüller's self-securing steel clamping yoke is 100 % maintenance free.
It provides vibration-proof connections to the PCB for wires up to 50 mm².



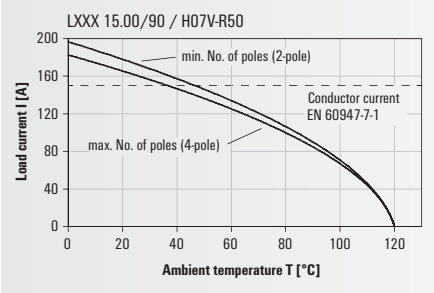
Unrivalled clamping
With an unmatched clamping range, the LXXX 15.0 offers a safe and strong wire connection for cross-sections up to 50 mm² / AWG1 and 150 A to the circuit board.



Standard-compliant integration
Weidmüller terminals meet the extended creepage and clearance distances according to UL and finger safety in accordance with the IEC 61800-5-1 device standard.



Power reserve for safety
The high-performance WEMID insulation material helps increase the availability of the system. With an RTI (relative temperature index) of 120 °C, the OMNIMATE Power PCB terminals exceed the upper continuous-use temperature recommended by the Standard PA (100 °C) by 20 °C. Thus there are more power reserves and improved safety in event of temperature fluctuations or overloads.

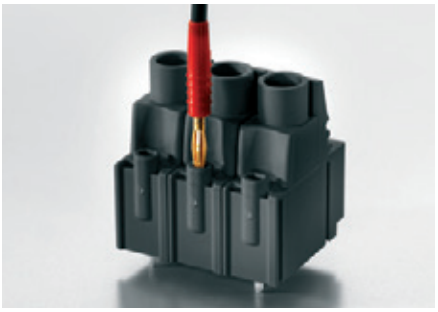


Wire protection
The integrated "Wire Guard" mechanism on the OMNIMATE Power PCB terminals prevents wires from being inserted improperly and prevents a malfunctioning contact.





Integrated test point
The required maintenance and measurements can be carried out in a safe, reliable and convenient manner.



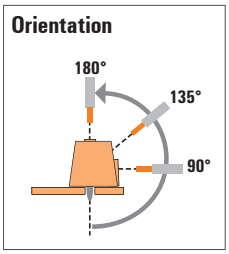


Labelling and assigning
Terminals are available with custom direct printing, versatile Dekafix labelling, affordable adhesive strips and colour coding.



http://www.OMNIMATE.net

○ = 300 V (UL) / 1.000 V (IEC)
● = 600 V (UL) / 1.000 V (IEC)



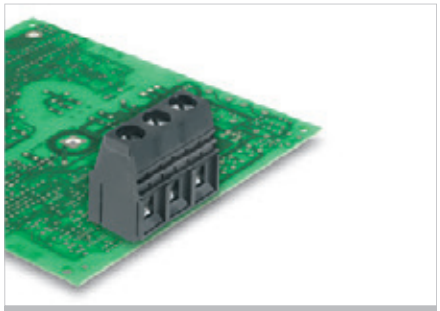
PCB terminals

Type of connection		Clamping range		Type	IEC / UL	Page	90°	135°	180°
Screw	Screw Clamping yoke	≤ 16 mm²		**LU 10.16**	IEC: 1.000 V/76 A/0.5 - 16 mm² UL: 300 V/65 A/AWG 26 - 6	E.6	●		
				**LUP 10.16**	IEC: 1.000 V/76 A/0.5 - 16 mm² UL: 300 V/58 A/AWG 26 - 6	E.7	●		
				**LUP 10.16/../90V***	IEC: 1.000 V/76 A/0.5 - 16 mm² UL: 600 V/51 A/AWG 22 - 6	E.8	●		
				**LUP 12.70**	IEC: 1.000 V/76 A/0.5 - 16 mm² UL: 600 V/58 A/AWG 26 - 6	E.9	●		
		≤ 25 mm²		**LX 15.00**	IEC: 1.000 V/101 A/0.5 - 25 mm² UL: 600 V/85 A/AWG 16 - 4	E.10	●		
				**LXB 15.00**	IEC: 1.000 V/101 A/1.5 - 25 mm² UL: 600 V/85 A/AWG 16 - 4	E.11	●		
		≤ 50 mm²		**LXXX 15.00**	IEC: 1.000 V/150 A/0.5 - 50 mm² UL: 600 V/127 A/AWG 20 - 1	E.12	●		
				**LXXX 15.00/../90F**	IEC: 1.000 V/150 A/0.5 - 50 mm² UL: 600 V/127 A/AWG 20 - 1	E.13	●		

* With offset solder pins

Pitch, in mm	10.16	12.70	15.00
Max. rated voltage, IEC	1.000 V		
UL nominal voltage UL	300 V	600 V	
	○		
	○		
		●	
		●	
			●
			●
			●
			●

LU 10.16/../90



High-power PCB Terminal with clamping yoke screw connection, in 10.16 mm pitch for wire cross-sections up to 16 mm² (AWG 6).

- Increased derating reserves because WEMID insulating material is used.
- Wire outlet direction: 90° version.
- 2- and 3-pole block construction can be aligned together for higher pole counts.

Product data

IEC: 1000 V / 76 A / 0.5 - 16 mm²
UL: 300 V / 65 A / AWG 26 - 6

For additional articles and information, refer to catalog.weidmueller.com

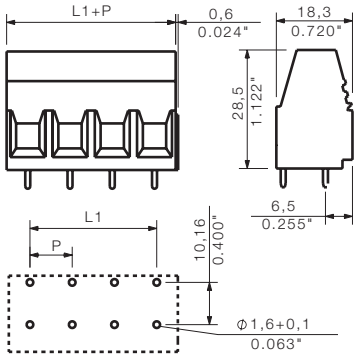
Note:

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

LU 10.16/../90



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm²	0.14...16		
Solid core H05(07) V-U	**mm²**	**0.5...16**		
Stranded H07 V-R		6...16		
Flexible H05(07) V-K	mm²	0.5...16		
Flexible with ferrule	mm²	2.5...10		
Ferrule with plastic collar	mm²	2.5...10		
Stripping length	mm	12		
Screwdriver blade	mm	1.0 x 5.5		
According to norm		DIN 5264		
Tightening torque range	Nm	1.2...1.5		
Rated current, max.	**A**	**76**		**76**
At ambient temperature		20°C		40°C
For conductor cross-section	mm²	16		
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	**V**	**690**	**690**	**1000**
Rated impulse voltage	kV	6	6	4
UL / CUL (Use Group)		**B**	**C**	**D**
Rated voltage	**V**	**300**	**150**	**300**
Rated current	**A**	**65**	**65**	**10**
AWG conductor	**AWG**		**26-6**	
CSA (Use Group)		**B**	**C**	**D**
Rated voltage	V	300	150	300
Rated current	A	65	65	10
AWG conductor	AWG		22-6	
General data				
Type of insulation material		Wemid (PA)		
UL 94 flammability rating		V-0		
Contact base material		E-Cu		
Material of contact surface		tinned		
Pin dimensions = d	mm	1.2 x 1.2		
Solder eyelet Ø = D	mm	1.6		
Solder eyelet Ø tolerance	mm	+ 0,1		

Accessories

Note: Refer to the Accessories chapter for additional accessories.

Screwdriver		Order No.
	SDIS 1.0X5.5X125	9008410000
	SDS 1.0X5.5X150	9008350000

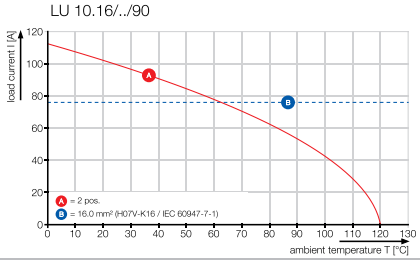
Ordering data

Solder pin length 4.5 mm
Colour Black

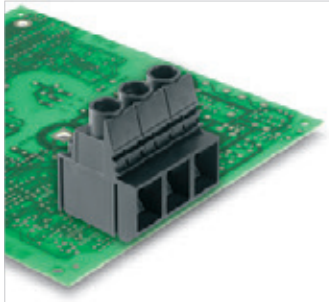
Pitch 10.16 mm

Pol.	L1	(inch)	Qty.	Order No.
2	10.16	0.400	20	1934140000
3	20.32	0.800	20	1921450000
4	30.48	1.200	20	1226220000
5	40.64	1.600	20	1226230000
6	50.80	2.000	20	1226240000
7	60.96	2.400	20	1226250000
8	71.12	2.800	20	1226260000
9	81.28	3.200	20	1226270000
10	91.44	3.600	20	1226280000

Representative deratings curve



LUP 10.16/../90



High-power PCB Terminal with clamping yoke screw connection, in 10.16 mm pitch for wire cross-sections up to 16 mm² (AWG 6).

- Increased derating reserves because WEMID insulating material is used.
- Wire outlet direction: 90°
- With integrated test point for the PS 2.0 test plug.

Product data

IEC: 1000 V / 76 A / 0.5 - 16 mm²
UL: 300 V / 58 A / AWG 26 - 6

For additional articles and information, refer to catalog.weidmueller.com

Note:

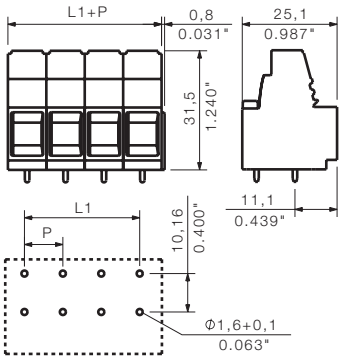
- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

LUP 10.16/../90

with test point



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm²	0.13...16		
Solid core H05(07) V-U	**mm²**	**0.5...16**		
Stranded H07 V-R		6...16		
Flexible H05(07) V-K	mm²	0.5...16		
Flexible with ferrule	mm²	2.5...10		
Ferrule with plastic collar	mm²	2.5...10		
Stripping length	mm	12		
Screwdriver blade	mm	1.0 x 5.5		
According to norm		DIN 5264		
Tightening torque range	Nm	1.2...1.5		
Rated current, max.	**A**	**76**		**72**
At ambient temperature		20°C		40°C
For conductor cross-section	mm²	16		
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	**V**	**800**	**1000**	**1000**
Rated impulse voltage	kV	8	8	6
UL / CUL (Use Group)		**B**	**C**	**D**
Rated voltage	**V**	**300**	**300**	**300**
Rated current	**A**	**58**	**58**	**10**
AWG conductor	**AWG**		**26-6**	
CSA (Use Group)		**B**	**C**	**D**
Rated voltage	V	300	300	300
Rated current	A	58	58	10
AWG conductor	AWG		22-6	
General data				
Type of insulation material		Wemid (PA)		
UL 94 flammability rating		V-0		
Contact base material		E-Cu		
Material of contact surface		tinned		
Pin dimensions = d	mm	1.2 x 1.2		
Solder eyelet Ø = D	mm	1.6		
Solder eyelet Ø tolerance	mm	+ 0,1		

Accessories

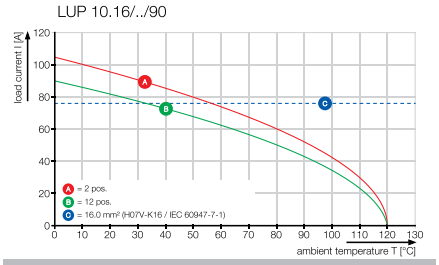
Note: Refer to the Accessories chapter for additional accessories.

Screwdriver		Order No.
	SDIS 1.0X5.5X125	9008410000
	SDS 1.0X5.5X150	9008350000
Crosshead screwdriver		
	SDIK PZ2	9008890000
	SDK PZ2	9008540000
Test plug		
	PS 2.0 MC	0310000000

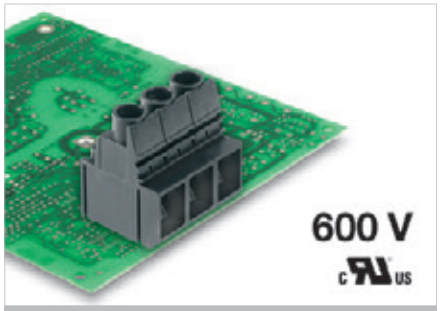
Ordering data

Solder pin length				3.2 mm
Colour				Black
Pitch	**10.16 mm**			
Pol.	**L1**	**(inch)**	**Qty.**	**Order No.**
2	10.16	0.400	20	1226290000
3	20.32	0.800	20	1226300000
4	30.48	1.200	20	1226310000
5	40.64	1.600	20	1226320000
6	50.80	2.000	20	1226330000
7	60.96	2.400	20	1226340000
8	71.12	2.800	20	1226350000
9	81.28	3.200	20	1226360000

Representative deratings curve



LUP 10.16/../90V



High-power PCB Terminal with clamping yoke screw connection, in 10.16 mm pitch for wire cross-sections up to 16 mm² (AWG 6).

- UL 600 V approval.
- Increased derating reserves because WEMID insulating material is used.
- Wire outlet direction: 90°.
- With integrated test point for PS 2.0 test plug.

Product data

IEC: 1000 V / 76 A / 0.5 - 16 mm²
UL: 600 V / 51 A / AWG 22 - 6

For additional articles and information, refer to catalog.weidmueller.com

Note:

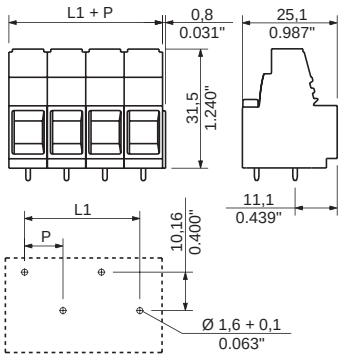
- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

LUP 10.16/../90V

with test point



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm²	0.13...16		
Solid core H05(07) V-U	**mm²**	**0.5...16**		
Stranded H07 V-R		6...16		
Flexible H05(07) V-K	mm²	0.5...16		
Flexible with ferrule	mm²	2.5...10		
Ferrule with plastic collar	mm²	2.5...10		
Stripping length	mm	12		
Screwdriver blade	mm	1.0 x 5.5		
According to norm		DIN 5264		
Tightening torque range	Nm	1.2...1.5		
Rated current, max.	**A**	**76**		**72**
At ambient temperature		20°C		40°C
For conductor cross-section	mm²	16		
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	**V**	**800**	**1000**	**1000**
Rated impulse voltage	kV	8	8	6
UL / CUL (Use Group)		**B**	**C**	**D**
Rated voltage	**V**	**600**	**600**	**600**
Rated current	**A**	**51**	**51**	**5**
AWG conductor	**AWG**		**22-6**	
CSA (Use Group)		**B**	**C**	**D**
Rated voltage	V	600	600	600
Rated current	A	51	51	5
AWG conductor	AWG		22-6	
General data				
Type of insulation material		Wemid (PA)		
UL 94 flammability rating		V-0		
Contact base material		E-Cu		
Material of contact surface		tinned		
Pin dimensions = d	mm	1.2 x 1.2		
Solder eyelet Ø = D	mm	1.6		
Solder eyelet Ø tolerance	mm	+ 0,1		

Accessories

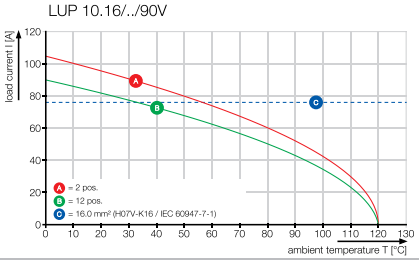
Note: Refer to the Accessories chapter for additional accessories.

Screwdriver		Order No.
	SDIS 1.0X5.5X125	9008410000
	SDS 1.0X5.5X150	9008350000
Crosshead screwdriver		
	SDIK PZ2	9008890000
	SDK PZ2	9008540000
Test plug		
	PS 2.0 MC	0310000000

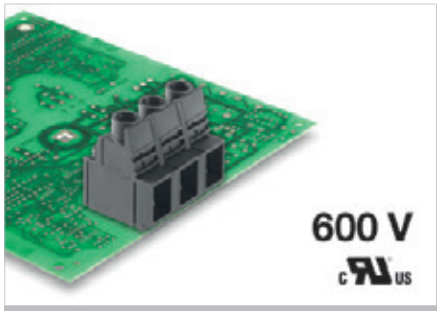
Ordering data

Solder pin length				3.2 mm
Colour				Black
Pitch	**10.16 mm**			
Pol.	**L1**	**(inch)**	**Qty.**	**Order No.**
2	10.16	0.400	20	1192980000
3	20.32	0.800	20	1192990000
4	30.48	1.200	20	1193000000
5	40.64	1.600	20	1193010000
6	50.80	2.000	20	1193020000
7	60.96	2.400	20	1193030000
8	71.12	2.800	20	1193040000
9	81.28	3.200	20	1193050000

Representative deratings curve



LUP 12.7/../90



High-power PCB Terminal with clamping yoke screw connection, in 12.70 mm pitch for wire cross-sections up to 16 mm².

- UL 600 V approval.
- Increased derating reserves because WEMID insulating material is used.
- Wire outlet direction: 90°.
- With integrated test point for PS 2.0 test plug.

Product data

IEC: 1000 V / 76 A / 0.5 - 16 mm²
UL: 600 V / 58 A / AWG 26 - 6

For additional articles and information, refer to catalog.weidmueller.com

Note:

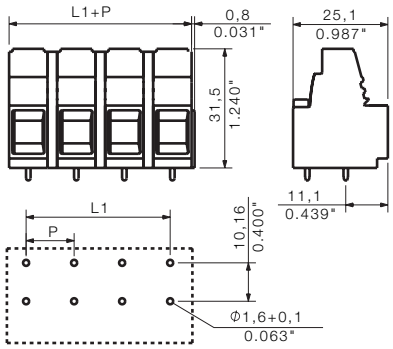
- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

LUP 12.7/../90

with test point



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm²	0.13...16		
Solid core H05(07) V-U	**mm²**	**0.5...16**		
Stranded H07 V-R		6...16		
Flexible H05(07) V-K	mm²	0.5...16		
Flexible with ferrule	mm²	2.5...10		
Ferrule with plastic collar	mm²	2.5...10		
Stripping length	mm	12		
Screwdriver blade	mm	1.0 x 5.5		
According to norm		DIN 5264		
Tightening torque range	Nm	1.2...1.5		
Rated current, max.	**A**	**76**		**76**
At ambient temperature		20°C		40°C
For conductor cross-section	mm²	16		
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	**V**	**1000**	**1000**	**1000**
Rated impulse voltage	kV	8	8	6
UL / CUL (Use Group)		**B**	**C**	**D**
Rated voltage	**V**	**600**	**600**	**600**
Rated current	**A**	**58**	**58**	**5**
AWG conductor	**AWG**		**26-6**	
CSA (Use Group)		**B**	**C**	**D**
Rated voltage	V	600	600	600
Rated current	A	58	58	5
AWG conductor	AWG		22-6	
General data				
Type of insulation material		Wemid (PA)		
UL 94 flammability rating		V-0		
Contact base material		E-Cu		
Material of contact surface		tinned		
Pin dimensions = d	mm	1.2 x 1.2		
Solder eyelet Ø = D	mm	1.6		
Solder eyelet Ø tolerance	mm	+ 0,1		

Accessories

Note: Refer to the Accessories chapter for additional accessories.

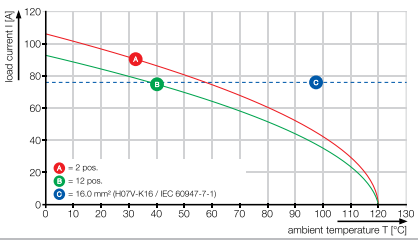
Screwdriver		Order No.
	SDIS 1.0X5.5X125	9008410000
	SDS 1.0X5.5X150	9008350000
Crosshead screwdriver		
	SDIK PZ2	9008890000
	SDK PZ2	9008540000
Test plug		
	PS 2.0 MC	0310000000

Ordering data

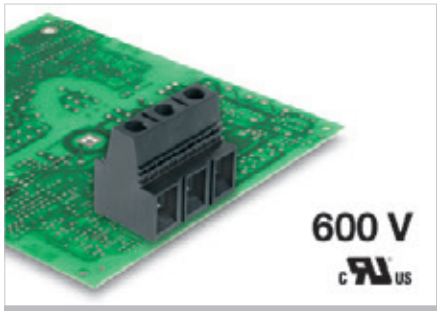
Solder pin length				3.2 mm
Colour				Black
Pitch	**12.70 mm**			
Pol.	**L1**	**(inch)**	**Qty.**	**Order No.**
2	12.70	0.500	20	1226370000
3	25.40	1.000	20	1226380000
4	38.10	1.500	20	1226390000
5	50.80	2.000	20	1226410000
6	63.50	2.500	20	1226420000
7	76.20	3.000	20	1226430000
8	88.90	3.250	20	1226440000
9	101.60	4.000	20	1226450000

Representative deratings curve

LUP 12.7/../90



LX 15.00/../90



High-power PCB Terminal with clamping yoke screw connection, in 15.00 mm pitch for wire cross-sections up to 25 mm² (AWG 4).

- UL 600 V approval.
- Increased derating reserves because WEMID insulating material is used.
- Wire outlet direction: 90°.
- With integrated test point for PS 2.0 test plug.
- Versions up to 8 poles have block construction.
- Available with and without mounting flange.

Product data

IEC: 1000 V / 101 A / 1.5 - 25 mm²
UL: 600 V / 85 A / AWG 16 - 4

For additional articles and information, refer to catalog.weidmueller.com

Note:

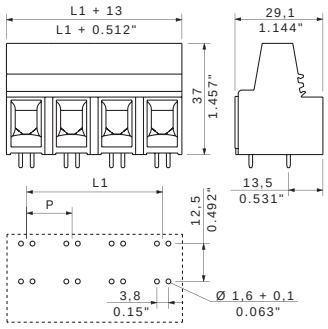
- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

LX 15.00/../90

with test point



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm²	1.31...25		
Solid core H05(07) V-U	**mm²**	**1.5...16**		
Stranded H07 V-R		6...25		
Flexible H05(07) V-K	mm²	1.5...25		
Flexible with ferrule	mm²	1.5...16		
Ferrule with plastic collar	mm²	1.5...16		
Stripping length	mm	16		
Screwdriver blade	mm	1.0 x 5.5		
According to norm		DIN 5264		
Tightening torque range	Nm	2.4...4		
Rated current, max.	**A**	**101**		**101**
At ambient temperature		20°C		40°C
For conductor cross-section	mm²	25		
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	**V**	**1000**	**1000**	**1000**
Rated impulse voltage	kV	8	8	6
UL / CUL (Use Group)		**B**	**C**	**D**
Rated voltage	**V**	**600**	**600**	**600**
Rated current	**A**	**85**	**85**	**5**
AWG conductor	**AWG**		**16-4**	
CSA (Use Group)		**B**	**C**	**D**
Rated voltage	V	600	600	600
Rated current	A	85	85	5
AWG conductor	AWG		16-4	
General data				
Type of insulation material		Wemid (PA)		
UL 94 flammability rating		V-0		
Contact base material		E-Cu		
Material of contact surface		tinned		
Pin dimensions = d	mm	1.2 x 1.2		
Solder eyelet Ø = D	mm	1.6		
Solder eyelet Ø tolerance	mm	+ 0,1		

Accessories

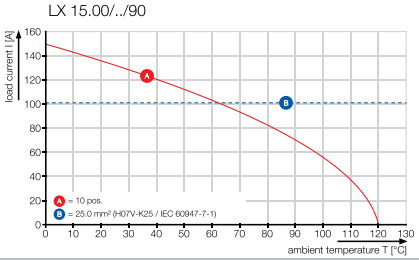
Note: Refer to the Accessories chapter for additional accessories.

Screwdriver		Order No.
	SDIS 1.2X6.5X150	9008420000
	SDS 1.2X6.5X150	9009010000
Crosshead screwdriver		
	SDIK PZ2	9008890000
	SDK PZ2	9008540000
Test plug		
	PS 2.0 MC	0310000000

Ordering data

Solder pin length				4.5 mm
Colour				Black
Pitch	**15.00 mm**			
Pol.	**L1**	**(inch)**	**Qty.**	**Order No.**
1	0.00	0.000	20	1226460000
2	15.00	0.591	20	1226470000
3	30.00	1.181	20	1174720000
4	45.00	1.772	20	1226480000
5	60.00	2.362	20	1226490000
6	75.00	2.953	10	1226500000
7	90.00	3.543	10	1226510000
8	105.00	4.134	10	1921480000

Representative deratings curve

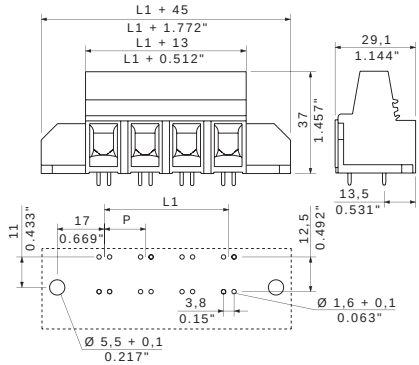


LXB 15.00/../90

with fixing flange and test point



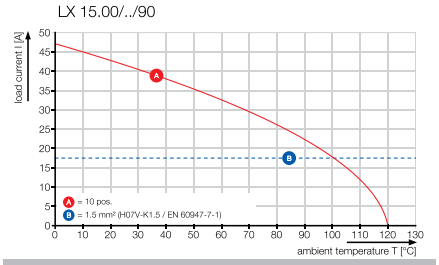
Dimensioned drawing



Ordering data

Solder pin length				4.5 mm
Colour				Black
Pitch	**15.00 mm**			
Pol.	L1	(inch)	**Qty.**	**Order No.**
2	15.00	0.591	20	**1226520000**
3	30.00	1.181	20	**1226530000**
4	45.00	1.772	20	**1226540000**
5	60.00	2.362	20	**1226550000**
6	75.00	2.953	10	**1226560000**
7	90.00	3.543	10	**1226570000**
8	105.00	4.134	10	**1226580000**

Additional deratings curves

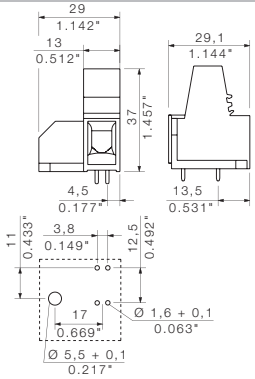


LXBL 15.00/../90

with fixing flange left and test point



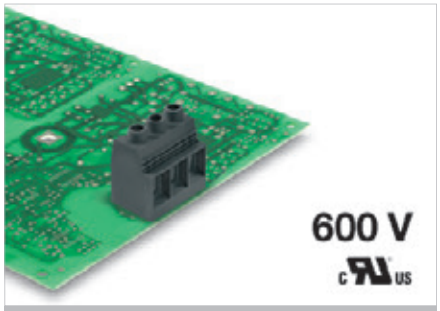
Dimensioned drawing



Ordering data

Solder pin length				4.5 mm
Colour				Black
Pitch	**15.00 mm**			
Pol.	L1	(inch)	**Qty.**	**Order No.**
1	0.00	0.000	20	**1226590000**

LXXX 15.00/../90



High-power PCB Terminal with clamping yoke screw connection, in 15.00 mm pitch for wire cross-sections up to 50 mm² (AWG 1).

- UL 600 V approval for unlimited international usage in devices.
- Increased derating reserves because WEMID insulating material is used.
- Wire outlet direction of 90°.
- With integrated test point for PS 2.0 test plug.
- Versions up to 8 poles have block construction.
- Available with and without mounting flange.

Product data

IEC: 1000 V / 150 A / 0.5 - 50 mm²
UL: 600 V / 127 A / AWG 20 - 1

For additional articles and information, refer to catalog.weidmueller.com

Note:

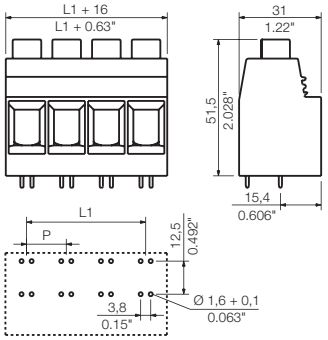
- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- IP 20 from 16 mm² to 50 mm²

LXXX 15.00/../90

with test point



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm²	0.5...50		
Solid core H05(07) V-U	**mm²**	**0.5...16**		
Stranded H07 V-R		6...50		
Flexible H05(07) V-K	mm²	0.5...35		
Flexible with ferrule	mm²	0.5...35		
Ferrule with plastic collar	mm²	0.5...35		
Stripping length	mm	18		
Screwdriver blade	mm	1.2 x 6.5		
According to norm		DIN 5264		
Tightening torque range	Nm	2.5...4		
Rated current, max.	**A**	**150**		**150**
At ambient temperature		20°C		40°C
For conductor cross-section	mm²	35		
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	**V**	**1000**	**1000**	**1000**
Rated impulse voltage	kV	8	8	8
UL / CUL (Use Group)		**B**	**C**	**D**
Rated voltage	**V**	**600**	**600**	**600**
Rated current	**A**	**127**	**127**	**5**
AWG conductor	**AWG**		**20-1**	
CSA (Use Group)		**B**	**C**	**D**
Rated voltage	V	600	600	600
Rated current	A	127	127	5
AWG conductor	AWG		20-1	
General data				
Type of insulation material		Wemid (PA)		
UL 94 flammability rating		V-0		
Contact base material		Copper alloy		
Material of contact surface		tinned		
Pin dimensions = d	mm	1.2 x 1.2		
Solder eyelet Ø = D	mm	1.6		
Solder eyelet Ø tolerance	mm	+ 0,1		

Accessories

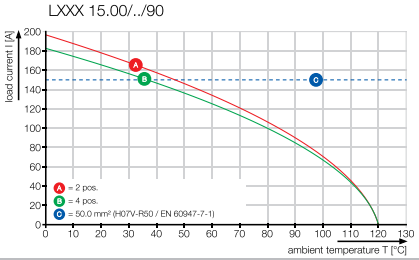
Note: Refer to the Accessories chapter for additional accessories.

Screwdriver		Order No.
	SDIS 1.2X6.5X150	9008420000
	SDS 1.2X6.5X150	9009010000
Crosshead screwdriver		
	SDIK PZ2	9008890000
	SDK PZ2	9008540000
Test plug		
	PS 2.0 MC	0310000000

Ordering data

Solder pin length				4.5 mm
Colour				Black
Pitch	**15.00 mm**			
Pol.	**L1**	**(inch)**	**Qty.**	**Order No.**
1	0.00	0.000	20	1047120000
2	15.00	0.591	20	1047130000
3	30.00	1.181	10	1047140000
4	45.00	1.772	10	1047150000

Representative deratings curve

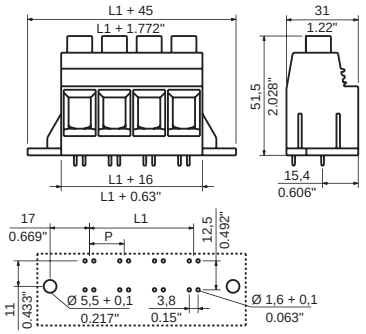


LXXX 15.00/../90F

with fixing flange and test point



Dimensioned drawing



Ordering data

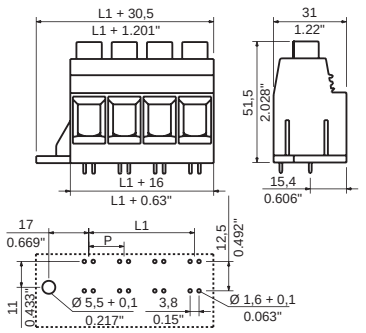
Solder pin length				4.5 mm
Colour				Black
Pitch	15.00 mm			
Pol.	L1	(inch)	Qty.	Order No.
1	0.00	0.000	20	1047280000
2	15.00	0.591	20	1047290000
3	30.00	1.181	10	1047300000
4	45.00	1.772	10	1047310000

LXXX 15.00/../90FL

with fixing flange left and test point



Dimensioned drawing



Ordering data

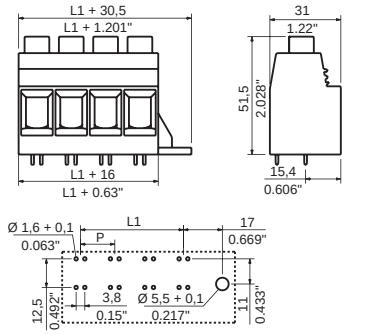
Solder pin length				4.5 mm
Colour				Black
Pitch	15.00 mm			
Pol.	L1	(inch)	Qty.	Order No.
1	0.00	0.000	20	1047440000
2	15.00	0.591	20	1047450000
3	30.00	1.181	10	1047460000
4	45.00	1.772	10	1047470000

LXXX 15.00/../90FR

with fixing flange right and test point



Dimensioned drawing

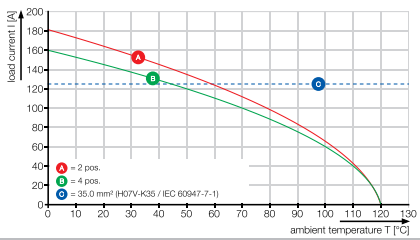


Ordering data

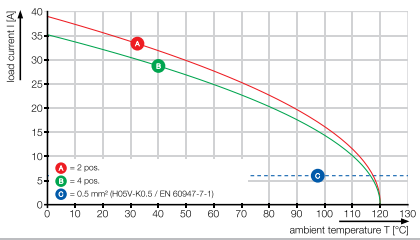
Solder pin length				4.5 mm
Colour				Black
Pitch	15.00 mm			
Pol.	L1	(inch)	Qty.	Order No.
1	0.00	0.000	20	1047600000
2	15.00	0.591	20	1047610000
3	30.00	1.181	10	1047620000
4	45.00	1.772	10	1047630000

Additional deratings curves

LXXX 15.00/../90



LXXX 15.00/../90



OMNIMATE Power
PCB connectors

OMNIMATE Power
PCB connectors

OMNIMATE Power		
	Explanation	F.2
OMNIMATE Power HP to 4 mm²		
	Explanation	F.4
	Quick selection	F.6
	Technical data	F.8
OMNIMATE Power HP 6 mm²		
	Explanation	F.24
	Quick selection	F.26
	Technical data	F.28
OMNIMATE Power HP 16 mm²		
	Explanation	F.76
	Quick selection	F.78
	Technical data	F.80
OMNIMATE Power IT		
	Explanation	F.92
	Quick selection	F.94
	Technical data	F.96
OMNIMATE Power Hybrid		
	Explanation	F.112
	Quick selection	F.114
	Technical data	F.116

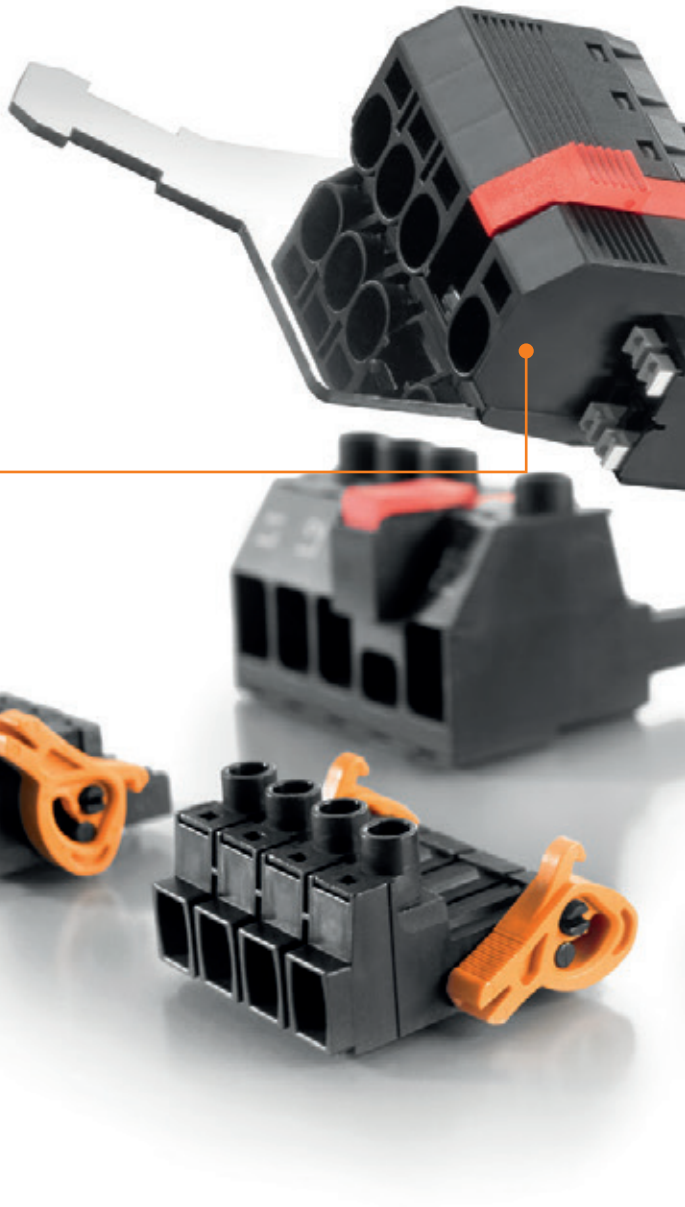
OMNIMATE Power on BOARD

Integrated connection systems delivering innovative drive applications

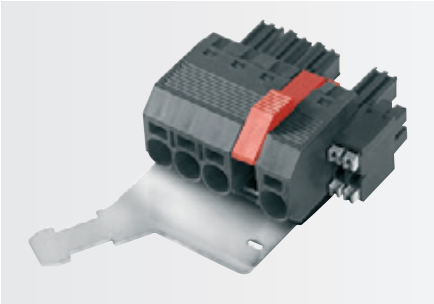
The OMNIMATE Power system excels in power electronics and drive applications because it has implemented and incorporated customer and market requirements.

Custom-fit connection solutions for power electronics – resulting from the synergy between application-oriented components, individual services and competent design-in support.

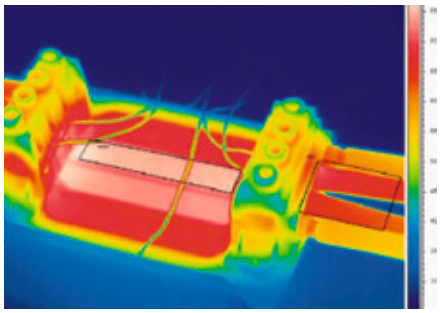
The following pages show why OMNIMATE Power is the ideal system for power electronics and drive applications. This system has benefited from our broader perspective of component directives and our consistent implementation of requests from the market and customers.



Performance + Innovation
Designed with future requirements in mind whether for cars or servo-drives: hybrid design concepts create an efficient solution from two distinct elements.

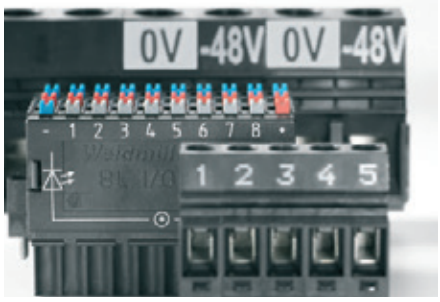


Performance + Support
Weidmüller delivers more than just components. Our design-in competence encompassing work from design and implementation to the market release phase delivers the top results.





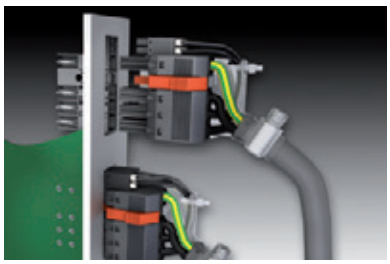
Performance + Services
Customised services supplement our comprehensive standard portfolio. The housing colour, printing, coding, contact surfaces, packaging and much more can be configured online with just a few mouse clicks.



Power
Signal
Data

Weidmüller's connection strategy for drive applications joins power and signals. It also takes advantage of innovate EMC protection for data transmissions between the communications modules.

Power – Signal – Data



An overview of OMNIMATE Power
The single-source solution that omits no necessary components a result of Weidmüller's technology and application expertise delivers the optimal designed-in results. The following pages describe the individual product lines in detail.



Design-In Services & Support
The path to top results starts before component selection and does not end with delivery. More information can be found in the "Services & Support" brochure (order number 1077670000) or at http://galaxy.weidmueller.com

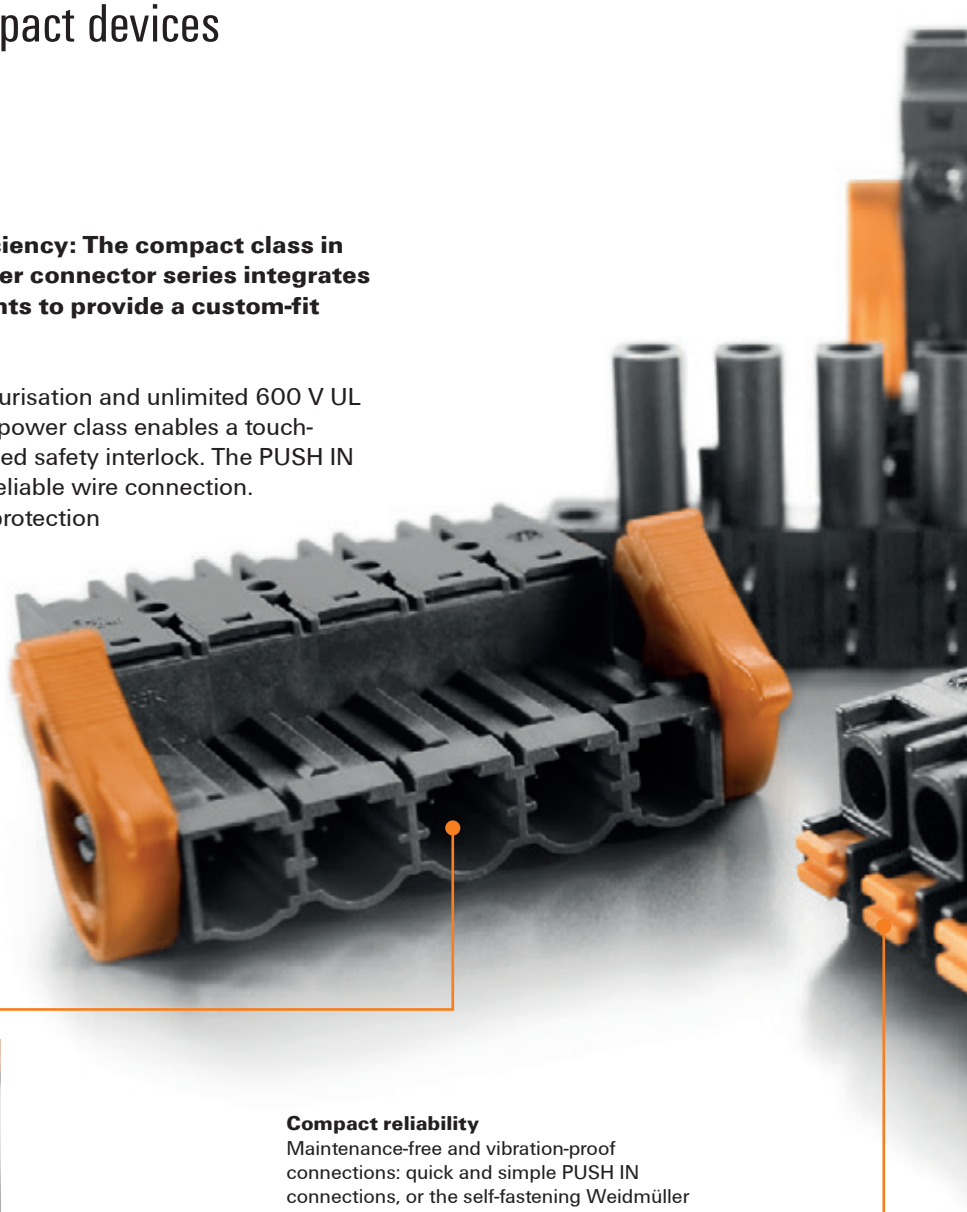


OMNIMATE Power BL/SL 7.62HP – the 12 kVA power class

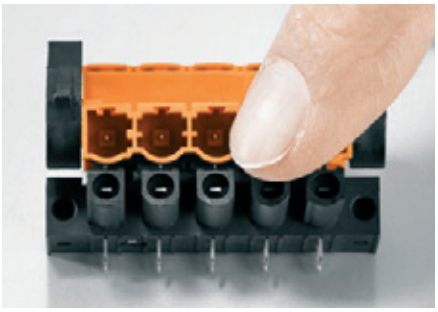
Custom-fit solutions for compact devices

Compact power for more safety and efficiency: The compact class in the OMNIMATE Power BL/SL 7.62HP power connector series integrates previously-conflicting market requirements to provide a custom-fit solution for drive applications.

This closes the gap between increasing miniaturisation and unlimited 600 V UL approval. The system extension to the 12 kVA power class enables a touch-safe, inverted motor connection with one-handed safety interlock. The PUSH IN connection system also provides a quick and reliable wire connection. Doublesided touch protection guarantees full protection even with inverse voltages. Thus even OMNIMATE Power's compact class is qualified for use with the DC link bus.

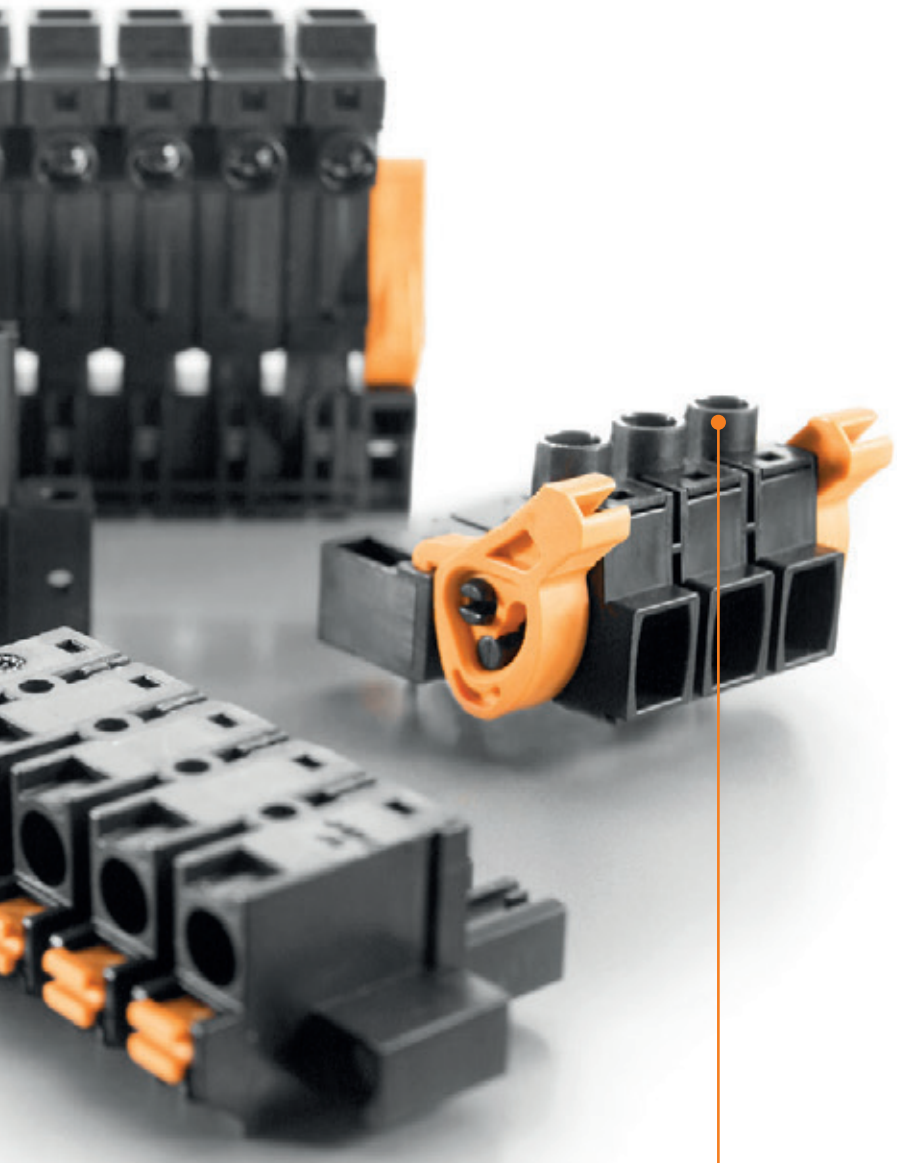


Compact safety
No additional measures required for DC links or inverse voltage: the inverted versions have finger-safe male header and female header even when not plugged in.

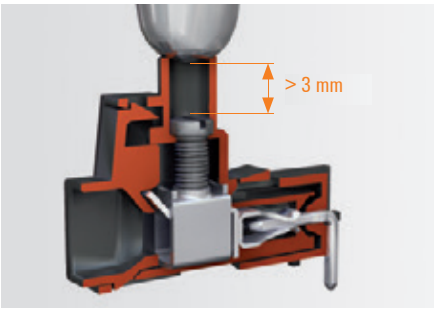


Compact reliability
Maintenance-free and vibration-proof connections: quick and simple PUSH IN connections, or the self-fastening Weidmüller steel clamp with plus/minus screw and WIRE GUARD.





Compact integration
No compromises during design and approval: compact and standard-compliant with additional + 3.0 mm finger safety, according to IEC 61800- 5-1, and increased creepage and clearance distances according to UL.



Compact system power
An overview of OMNIMATE Power's 12 kVA class: The compact system with either standard or inverted mating profile, with screw or PUSH IN wire connection; optionally with lock & release lever, screw flange or one-handed safety interlock.



Unrivalled current-carrying capacity
The highest load capacity in the 12 kVA compact class: with up to 29 A current-carrying capacity at 1.000 V (IEC) with a 4 mm² wire cross-section or 18.5 A at 600 V according to UL.

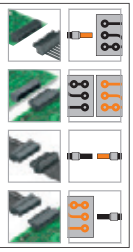


Individualised configuration
Standard + Services = custom design with simple configuration across the entire range of services: features include colour coding, application-oriented labelling and custom modifications or design. More information can be found in the " Services & Support" brochure (order number 1077670000) or at http://galaxy.weidmueller.com

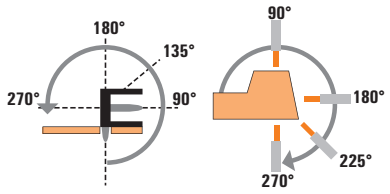


http://www.OMNIMATE.net

○ = Wire-to-Board
● = Board-to-Board
● = Wire-to-Wire
● = Board-to-Wire



Orientation



Male header

Solder connection



BL/SL 7.62 series

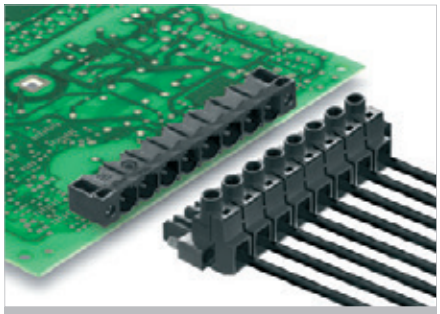
Type						SL	SL
Orientation						90°	180°
Flange options						G/F/LF	G/F/LF
Product code numbers						IEC: 800 V/24 A UL: 300 V/20 A	IEC: 800 V/24 A UL: 300 V/20 A
					Page	F.8	F.10
Female plug	Screw Clamping yoke		BLZ	180°	(G)/LR	IEC: 630 V/24 A/0.08 - 4 mm² UL: 600 V/20 A/AWG 20 - 12	F.16	○	○
Female plug	Spring PUSH IN		BLF	180°	(G)/F/LR	IEC: 1.000 V/24 A/0.08 - 4 mm² UL: 300 V/20 A/AWG 20	F.18	○	○
Female header	Solder connection		BLL	90°	(G)/F/LF	IEC: 630 V/24 A UL: 300 V/20 A	F.20		
			BLL	180°	(G)/F/LF	IEC: 630 V/24 A UL: 300 V/20 A	F.22		

Female plug and header:
(G) = Closed (without flange)
F = Screw flange with screw
LR = Lock & Release lever

Male header and plug:
G = Closed (without flange)
F = Screw flange with nut
LF = Solder flange with nut
LR = Lock & Release lever

	Male plug	
	Screw Clamping yoke	**Spring PUSH IN**
		
	SLZ	**SLF**
	180°	180°
	G/F/LR	G/F/LR
	IEC: 1.000 V/24 A/ 0.08 - 2.5 mm² UL: 600 V/17 A/ AWG 20 - 12	IEC: 1.000 V/24 A/ 0.08 - 2.5 mm² UL: 600 V/20 A/ AWG 20 - 12
	F.12	F.14
	●	●
	●	●

SL 7.62HP/../90



Male header in 90° outlet direction. The compact and efficient solution for UL-600 V applications in the lower power range meets in conjunction with a female plug, the 600 V requirements for UL508 / UL840 and the increased need for touch-safe protection according to IEC 68100-5-1.

- Available with screw flange (F) and a solder flange (SF).

Product data

IEC: 630 V / 29 A
UL: 300 V / 20 A

For additional articles and information, refer to catalog.weidmueller.com

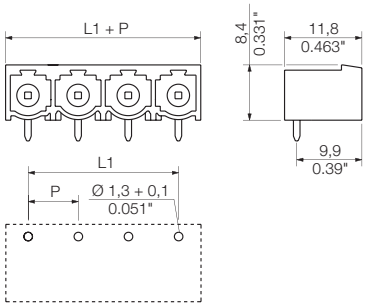
Note:

- Additional colours on request
- Gold-plated contact surfaces on request
- Rated current related to rated cross-section & min. No. of poles.
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

SL 7.62HP/../90G



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm²			
Solid core H05(07) V-U	**mm²**			
Stranded H07 V-R				
Flexible H05(07) V-K	mm²			
Flexible with ferrule	mm²			
Ferrule with plastic collar	mm²			
Stripping length	mm			
Screwdriver blade	mm			
According to norm				
Tightening torque range	Nm			
Rated current, max.	**A**	**29**		**25**
At ambient temperature		20°C		40°C
For conductor cross-section	mm²			
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	**V**	**400**	**500**	**630**
Rated impulse voltage	kV	6	6	6
UL / CUL (Use Group)		**B**	**C**	**D**
Rated voltage	**V**	**300**	**300**	**600**
Rated current	**A**	**20**	**20**	**5**
AWG conductor	**AWG**		-	
CSA (Use Group)		**B**	**C**	**D**
Rated voltage	V	300	300	600
Rated current	A	20	20	5
AWG conductor	AWG		-	
General data				
Type of insulation material			PBT	
UL 94 flammability rating			V-0	
Contact base material			Copper alloy	
Material of contact surface			tinned	
Pin dimensions = d	mm		1.0 x 1.0	
Solder eyelet Ø = D	mm		1.3	
Solder eyelet Ø tolerance	mm		+ 0,1	

Accessories

Note: Refer to the Accessories chapter for additional accessories.

Coding		Order No.
	BLZ/SL KO OR	**1573010000**
	BLZ/SL KO SW	**1545710000**

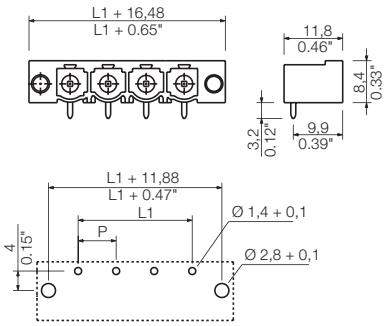
Ordering data

Solder pin length				**3.2 mm**
Colour				**Black**
Pitch	**7.62 mm**			
Pol.	L1	(inch)	**Qty.**	**Order No.**
2	7.62	0.300	100	**1026760000**
3	15.24	0.600	100	**1026770000**
4	22.86	0.900	100	**1026780000**
5	30.48	1.200	50	**1026790000**
6	38.10	1.500	50	**1059490000**
7	45.72	1.800	50	**1059500000**
8	53.34	2.100	50	**1059510000**
9	60.96	2.400	50	**1059520000**
10	68.58	2.700	50	**1059530000**
11	76.20	3.000	50	**1059550000**
12	83.82	3.300	50	**1059570000**

SL 7.62HP/../90F



Dimensioned drawing



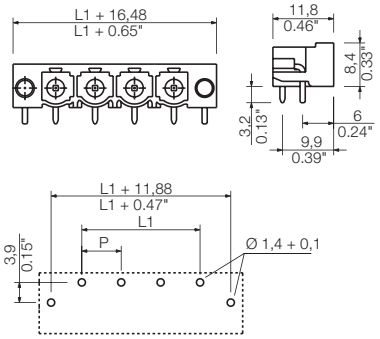
Ordering data

Solder pin length				3.2 mm
Colour				Black
Pitch	**7.62 mm**			
Pol.	L1	(inch)	**Qty.**	**Order No.**
2	7.62	0.300	100	**1026850000**
3	15.24	0.600	100	**1026860000**
4	22.86	0.900	100	**1026870000**
5	30.48	1.200	50	**1026880000**
6	38.10	1.500	50	**1124250000**
7	45.72	1.800	50	**1124270000**
8	53.34	2.100	50	**1124280000**
9	60.96	2.400	50	**1124290000**
10	68.58	2.700	50	**1124300000**
11	76.20	3.000	50	**1124310000**
12	83.82	3.300	50	**1124320000**

SL 7.62HP/../90LF



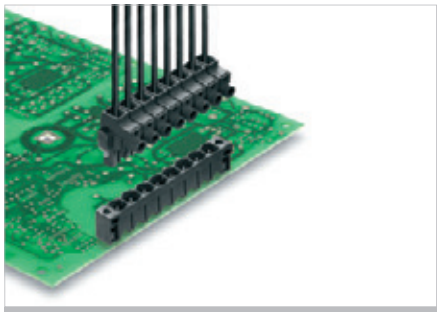
Dimensioned drawing



Ordering data

Solder pin length				3.2 mm
Colour				Black
Pitch	**7.62 mm**			
Pol.	L1	(inch)	**Qty.**	**Order No.**
2	7.62	0.300	100	**1095920000**
3	15.24	0.600	100	**1095930000**
4	22.86	0.900	100	**1095940000**
5	30.48	1.200	50	**1095950000**
6	38.10	1.500	50	**1095960000**
7	45.72	1.800	50	**1095970000**
8	53.34	2.100	50	**1095980000**
9	60.96	2.400	50	**1095990000**
10	68.58	2.700	50	**1096000000**
11	76.20	3.000	50	**1096010000**
12	83.82	3.300	50	**1096020000**

SL 7.62HP/../180



Male header in 180° outlet direction. The compact and efficient solution for UL-600 V applications in the lower power range meets in conjunction with a female plug, the 600 V requirements for UL508 / UL840 and the increased need for touch-safe protection according to IEC 68100-5-1.

- Available with screw flange (F) and a solder flange (SF).

Product data

IEC: 630 V / 26 A
UL: 300 V / 20 A

For additional articles and information, refer to catalog.weidmueller.com

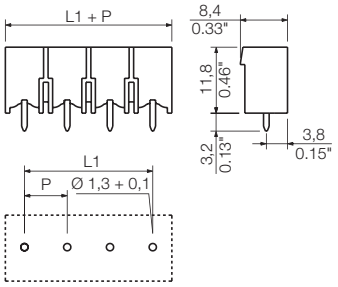
Note:

- Additional colours on request
- Gold-plated contact surfaces on request
- Rated current related to rated cross-section & min. No. of poles.
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

SL 7.62HP/../180G



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm²			
Solid core H05(07) V-U	**mm²**			
Stranded H07 V-R				
Flexible H05(07) V-K	mm²			
Flexible with ferrule	mm²			
Ferrule with plastic collar	mm²			
Stripping length	mm			
Screwdriver blade	mm			
According to norm				
Tightening torque range	Nm			
Rated current, max.	**A**	**26**		**25**
At ambient temperature		20°C		40°C
For conductor cross-section	mm²			
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	**V**	**400**	**500**	**630**
Rated impulse voltage	kV	6	6	6
UL / CUL (Use Group)		**B**	**C**	**D**
Rated voltage	**V**	**300**	**300**	**600**
Rated current	**A**	**20**	**20**	**5**
AWG conductor	**AWG**		-	
CSA (Use Group)		**B**	**C**	**D**
Rated voltage	V	300	300	600
Rated current	A	20	20	5
AWG conductor	AWG		-	
General data				
Type of insulation material			PBT	
UL 94 flammability rating			V-0	
Contact base material			Copper alloy	
Material of contact surface			tinned	
Pin dimensions = d	mm		1.0 x 1.0	
Solder eyelet Ø = D	mm		1.3	
Solder eyelet Ø tolerance	mm		+ 0,1	

Accessories

Note: Refer to the Accessories chapter for additional accessories.

Coding		Order No.
	BLZ/SL KO OR	**1573010000**
	BLZ/SL KO SW	**1545710000**

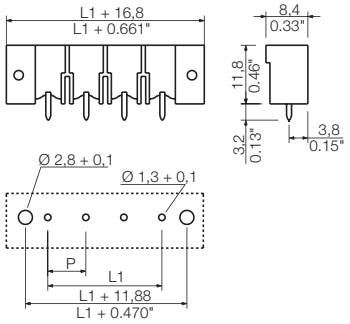
Ordering data

Solder pin length				3.2 mm
Colour				Black
Pitch	**7.62 mm**			
Pol.	L1	(inch)	Qty.	Order No.
2	7.62	0.300	100	**1122550000**
3	15.24	0.600	100	**1122570000**
4	22.86	0.900	100	**1122580000**
5	30.48	1.200	50	**1048980000**
6	38.10	1.500	50	**1048990000**
7	45.72	1.800	50	**1122590000**
8	53.34	2.100	50	**1049000000**
9	60.96	2.400	50	**1122600000**
10	68.58	2.700	50	**1122610000**
11	76.20	3.000	50	**1122640000**
12	83.82	3.300	50	**1122650000**

SL 7.62HP/../180F



Dimensioned drawing



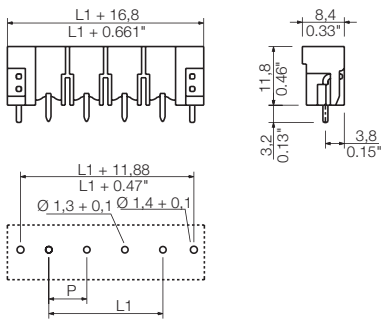
Ordering data

Solder pin length				3.2 mm
Colour				Black
Pitch	**7.62 mm**			
Pol.	L1	(inch)	**Qty.**	**Order No.**
2	7.62	0.300	100	**1140870000**
3	15.24	0.600	100	**1140880000**
4	22.86	0.900	100	**1140890000**
5	30.48	1.200	50	**1140900000**
6	38.10	1.500	50	**1140910000**
7	45.72	1.800	50	**1140920000**
8	53.34	2.100	50	**1140930000**
9	60.96	2.400	50	**1140940000**
10	68.58	2.700	50	**1140950000**
11	76.20	3.000	50	**1140960000**
12	83.82	3.300	50	**1140970000**

SL 7.62HP/../180LF



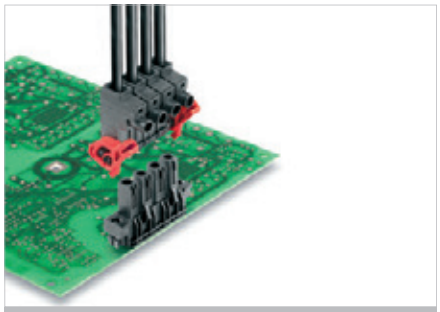
Dimensioned drawing



Ordering data

Solder pin length				3.2 mm
Colour				Black
Pitch	**7.62 mm**			
Pol.	L1	(inch)	**Qty.**	**Order No.**
2	7.62	0.300	100	**1141090000**
3	15.24	0.600	100	**1141100000**
4	22.86	0.900	100	**1141110000**
5	30.48	1.200	50	**1141120000**
6	38.10	1.500	50	**1141130000**
7	45.72	1.800	50	**1141140000**
8	53.34	2.100	50	**1141150000**
9	60.96	2.400	50	**1141160000**
10	68.58	2.700	50	**1141170000**
11	76.20	3.000	50	**1141180000**
12	83.82	3.300	50	**1141190000**

SLZ 7.62HP/../180



Male plug with clamping-yoke screw connection in 180° outlet direction. Also perfect for finger-safe solutions involving inverse voltages. Complies with UL1059 600 V Use Group C and IEC 61800-5-1 requirements for 3 mm of finger safety on 400 V TNC(S) systems.

- Available with screw flange (F) and lock and release-levers (LR).

Product data

IEC: 1000 V / 20 A / 0.5 - 2.5 mm²
UL: 600 V / 17 A / AWG 20 - 12

For additional articles and information, refer to catalog.weidmueller.com

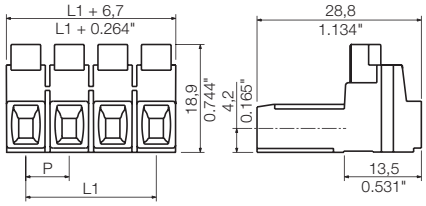
Note:

- Additional colours on request
- Gold-plated contact surfaces on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

SLZ 7.62HP/../180G



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm²	0.08...2.5		
Solid core H05(07) V-U	**mm²**	**0.5...2.5**		
Stranded H07 V-R				
Flexible H05(07) V-K	mm²	0.5...2.5		
Flexible with ferrule	mm²	0.5...2.5		
Ferrule with plastic collar	mm²	0.5...1.5		
Stripping length	mm	8		
Screwdriver blade	mm	0.6 x 3.5		
According to norm		DIN 5264		
Tightening torque range	Nm	0.4...0.5		
Rated current, max.	**A**	**20**		**17.5**
At ambient temperature		20°C		40°C
For conductor cross-section	mm²	2.5		
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	**V**	**630**	**1000**	**1000**
Rated impulse voltage	kV	6	8	6
UL / CUL (Use Group)		**B**	**C**	**D**
Rated voltage	**V**	**600**	**600**	**600**
Rated current	**A**	**17**	**17**	**5**
AWG conductor	**AWG**	**20-12**		
CSA (Use Group)		**B**	**C**	**D**
Rated voltage	V	600	600	600
Rated current	A	17	17	5
AWG conductor	AWG	20-12		
General data				
Type of insulation material		PBT		
UL 94 flammability rating		V-0		
Contact base material		Copper alloy		
Material of contact surface		tinned		
Pin dimensions = d	mm			
Solder eyelet Ø = D	mm			
Solder eyelet Ø tolerance	mm			

Accessories

Note: Refer to the Accessories chapter for additional accessories.

Screwdriver		Order No.
	SDIS 0.6X3.5X100	**9008390000**
	SDS 0.6X3.5X100	**9008330000**

Ordering data

Solder pin length

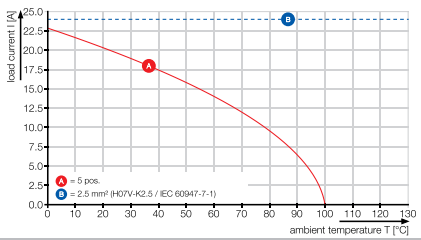
Colour **Black**

Pitch 7.62 mm

Pol.	L1	(inch)	Qty.	Order No.
2	7.62	0.300	126	**1043350000**
3	15.24	0.600	84	**1043360000**
4	22.86	0.900	60	**1043370000**
5	30.48	1.200	48	**1043380000**

Representative deratings curve

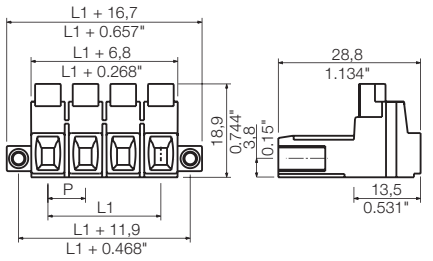
BLL 7.62HP/../90 - SLZ 7.62HP/../180



SLZ 7.62HP/../180F



Dimensioned drawing

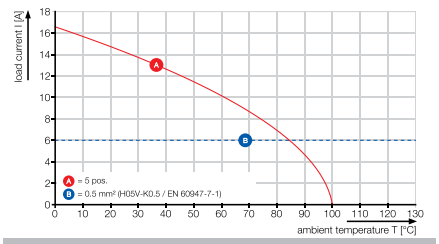


Ordering data

Solder pin length				
Colour				Black
Pitch	7.62 mm			
Pol.	L1	(inch)	Qty.	Order No.
2	7.62	0.300	72	1043430000
3	15.24	0.600	54	1043440000
4	22.86	0.900	42	1043450000
5	30.48	1.200	36	1043460000

Additional deratings curves

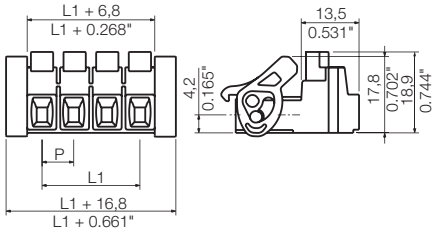
BLL 7.62HP/../90 - SLZ 7.62HP/../180



SLZ 7.62HP/../180LR



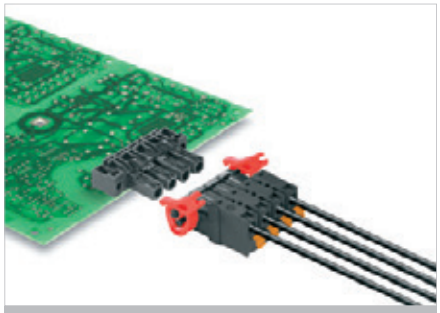
Dimensioned drawing



Ordering data

Solder pin length				
Colour				Black
Pitch	7.62 mm			
Pol.	L1	(inch)	Qty.	Order No.
2	7.62	0.300	72	1043510000
3	15.24	0.600	54	1043520000
4	22.86	0.900	42	1043530000
5	30.48	1.200	36	1043540000

SLF 7.62HP/../180



Female plug with PUSH IN spring connection in 180° outlet direction. Also perfect for finger-safe solutions involving inverse voltages.
Complies with UL1059 600 V Use Group C and IEC 61800-5-1 requirements for 3 mm of finger safety on 400 V TNC systems.

- Available with screw flange (F) and lock and release-levers (LR).

Product data

IEC: 1000 V / 24 A / 0.5 - 2.5 mm²
UL: 600 V / 20 A / AWG 20 - 12

For additional articles and information, refer to catalog.weidmueller.com

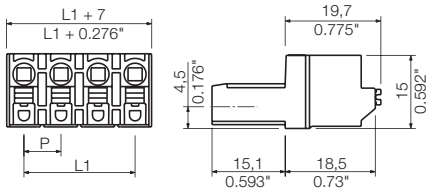
Note:

- Additional colours on request
- Gold-plated contact surfaces on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

SLF 7.62HP/../180G



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm²	0.08...2.5		
Solid core H05(07) V-U	**mm²**	**0.5...2.5**		
Stranded H07 V-R				
Flexible H05(07) V-K	mm²	0.5...2.5		
Flexible with ferrule	mm²	0.5...1.5		
Ferrule with plastic collar	mm²	0.5...1.5		
Stripping length	mm	10		
Screwdriver blade	mm	0.6 x 3.5		
According to norm		DIN 5264		
Tightening torque range	Nm			
Rated current, max.	**A**	**24**		**23.8**
At ambient temperature		20°C		40°C
For conductor cross-section	mm²	2.5		
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	**V**	**630**	**1000**	**1000**
Rated impulse voltage	kV	6	8	6
UL / CUL (Use Group)		**B**	**C**	**D**
Rated voltage	**V**	**600**	**600**	**600**
Rated current	**A**	**20**	**20**	**5**
AWG conductor	**AWG**	**20-12**		
CSA (Use Group)		**B**	**C**	**D**
Rated voltage	V	600	600	600
Rated current	A	20	20	5
AWG conductor	AWG	20-12		
General data				
Type of insulation material		PBT		
UL 94 flammability rating		V-0		
Contact base material		Copper alloy		
Material of contact surface		tinned		
Pin dimensions = d	mm			
Solder eyelet Ø = D	mm			
Solder eyelet Ø tolerance	mm			

Accessories

Note: Refer to the Accessories chapter for additional accessories.

Screwdriver		Order No.
	SDIS 0.6X3.5X100	9008390000
	SDS 0.6X3.5X100	9008330000

Ordering data

Solder pin length

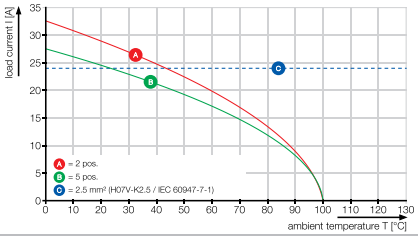
Colour **Black**

Pitch 7.62 mm

Pol.	L1	(inch)	Qty.	Order No.
2	7.62	0.300	126	1043590000
3	15.24	0.600	84	1043600000
4	22.86	0.900	60	1043610000
5	30.48	1.200	48	1043620000

Representative deratings curve

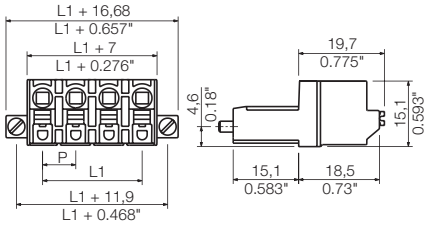
BLL 7.62HP/../90 - SLF 7.62HP/../180



SLF 7.62HP/../180F



Dimensioned drawing



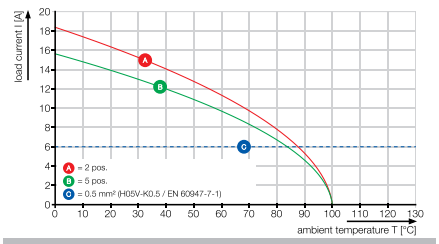
Ordering data

Solder pin length

Colour				Black
Pitch	**7.62 mm**			
Pol.	L1	(inch)	**Qty.**	**Order No.**
2	7.62	0.300	72	**1043670000**
3	15.24	0.600	54	**1043680000**
4	22.86	0.900	42	**1043690000**
5	30.48	1.200	36	**1043700000**

Additional deratings curves

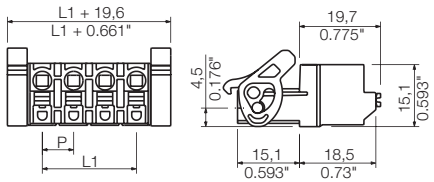
BLL 7.62HP/../90 - SLF 7.62HP/../180



SLF 7.62HP/../180LR



Dimensioned drawing

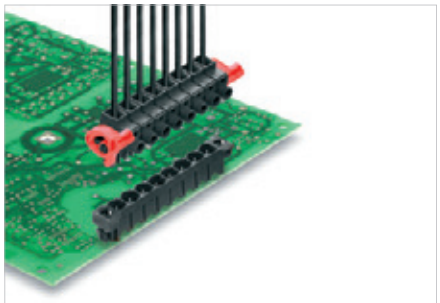


Ordering data

Solder pin length

Colour				Black
Pitch	**7.62 mm**			
Pol.	L1	(inch)	**Qty.**	**Order No.**
2	7.62	0.300	72	**1043750000**
3	15.24	0.600	54	**1043760000**
4	22.86	0.900	42	**1043770000**
5	30.48	1.200	36	**1043780000**

BLZ 7.62HP/../180



Female plug with clamping-yoke screw connection in 180° outlet direction. Complies with UL1059 600 V Use Group C and IEC 61800-5-1 requirements for 3 mm of finger safety on 400 V TNC(S) systems.

- Available with lock and release-levers (LR) and screw flange on request.

Product data

IEC: 630 V / 29 A / 0.2 - 4 mm²
UL: 600 V / 20 A / AWG 20 - 12

For additional articles and information, refer to catalog.weidmueller.com

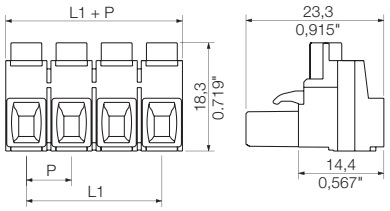
Note:

- Additional colours on request
- Gold-plated contact surfaces on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

BLZ 7.62HP/../180



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm²	0.08...4		
Solid core H05(07) V-U	**mm²**	**0.2...4**		
Stranded H07 V-R				
Flexible H05(07) V-K	mm²	0.2...4		
Flexible with ferrule	mm²	0.2...2.5		
Ferrule with plastic collar	mm²	0.2...2.5		
Stripping length	mm	7		
Screwdriver blade	mm	0.6 x 3.5		
According to norm		DIN 5264		
Tightening torque range	Nm	0.4...0.5		
Rated current, max.	**A**	**29**		**25**
At ambient temperature		20°C		40°C
For conductor cross-section	mm²	2.5		
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	**V**	**400**	**500**	**630**
Rated impulse voltage	kV	6	6	4
UL / CUL (Use Group)		**B**	**C**	**D**
Rated voltage	**V**	**600**	**600**	**600**
Rated current	**A**	**20**	**20**	**5**
AWG conductor	**AWG**	**20-12**		
CSA (Use Group)		**B**	**C**	**D**
Rated voltage	V	600	600	600
Rated current	A	20	20	5
AWG conductor	AWG	20-12		
General data				
Type of insulation material		PBT		
UL 94 flammability rating		V-0		
Contact base material		Copper alloy		
Material of contact surface		tinned		
Pin dimensions = d	mm			
Solder eyelet Ø = D	mm			
Solder eyelet Ø tolerance	mm			

Accessories

Note: Refer to the Accessories chapter for additional accessories.

Coding		Order No.
	BLZ/SL KO OR	**1573010000**
	BLZ/SL KO SW	**1545710000**
Screwdriver		
	SDIS 0.6X3.5X100	**9008390000**
	SDS 0.6X3.5X100	**9008330000**

Ordering data

Solder pin length

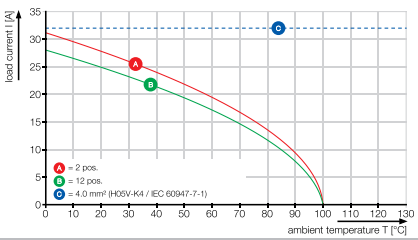
Colour **Black**

Pitch **7.62 mm**

Pol.	L1	(inch)	Qty.	Order No.
2	7.62	0.300	100	**1059580000**
3	15.24	0.600	100	**1059590000**
4	22.86	0.900	100	**1059600000**
5	30.48	1.200	50	**1049010000**
6	38.10	1.500	50	**1049020000**
7	45.72	1.800	50	**1059610000**
8	53.34	2.100	50	**1049030000**
9	60.96	2.400	50	**1059620000**
10	68.58	2.700	50	**1059630000**
11	76.20	3.000	50	**1059640000**
12	83.82	3.300	50	**1059670000**

Representative deratings curve

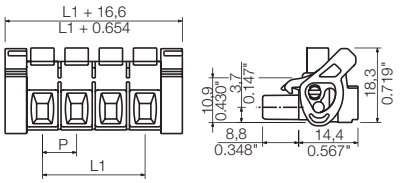
BLZ 7.62HP/../180 - SL 7.62HP/../90



BLZ 7.62HP/../180LR



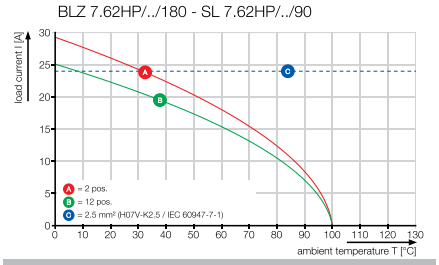
Dimensioned drawing



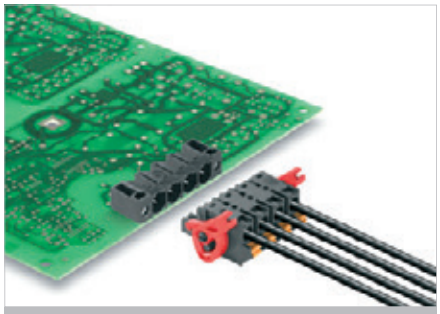
Ordering data

Solder pin length				
Colour				Black
Pitch	**7.62 mm**			
Pol.	L1	(inch)	**Qty.**	**Order No.**
2	7.62	0.300	60	**1093430000**
3	15.24	0.600	45	**1093440000**
4	22.86	0.900	35	**1093450000**
5	30.48	1.200	30	**1093460000**
6	38.10	1.500	25	**1164960000**
7	45.72	1.800	20	**1164970000**
8	53.34	2.100	20	**1164980000**
9	60.96	2.400	15	**1164990000**
10	68.58	2.700	15	**1165000000**
11	76.20	3.000	15	**1165010000**
12	83.82	3.300	15	**1165020000**

Additional deratings curves



BLF 7.62HP/../180



Female plug with PUSH IN spring connection in 180 ° outlet direction. Complies with UL1059 600 V Use Group C and IEC 61800-5-1 requirements for 3 mm of finger safety on 400 V TNC(S) systems.

- Available with screw flange (F) and lock and release-levers (LR).

Product data

IEC: 1000 V / 24 A / 0.5 - 2.5 mm²
UL: 600 V / 20 A / AWG 20 - 12

For additional articles and information, refer to catalog.weidmueller.com

Note:

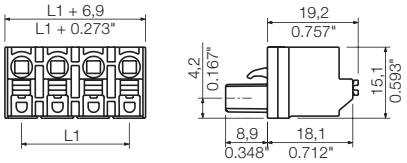
- Additional colours on request
- Gold-plated contact surfaces on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

BLF 7.62HP/../180

with test point



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm²	0.08...2.5		
Solid core H05(07) V-U	**mm²**	**0.5...2.5**		
Stranded H07 V-R				
Flexible H05(07) V-K	mm²	0.5...2.5		
Flexible with ferrule	mm²	0.5...2.5		
Ferrule with plastic collar	mm²	0.5...2.5		
Stripping length	mm	10		
Screwdriver blade	mm	0.6 x 3.5		
According to norm		DIN 5264		
Tightening torque range	Nm			
Rated current, max.	**A**	**24**		**23.8**
At ambient temperature		20°C		40°C
For conductor cross-section	mm²	2.5		
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	**V**	**630**	**1000**	**1000**
Rated impulse voltage	kV	6	8	6
UL / CUL (Use Group)		**B**	**C**	**D**
Rated voltage	**V**	**600**	**600**	**600**
Rated current	**A**	**20**	**20**	**5**
AWG conductor	**AWG**	**20-12**		
CSA (Use Group)		**B**	**C**	**D**
Rated voltage	V	600	600	600
Rated current	A	21	21	5
AWG conductor	AWG	20-12		
General data				
Type of insulation material		PBT		
UL 94 flammability rating		V-0		
Contact base material		Copper alloy		
Material of contact surface		tinned		
Pin dimensions = d	mm			
Solder eyelet Ø = D	mm			
Solder eyelet Ø tolerance	mm			

Accessories

Note: Refer to the Accessories chapter for additional accessories.

Screwdriver		Order No.
	SDIS 0.5X3.0X100	9008380000
	SDS 0.5X3.0X80	9008320000
Crimping tool		
	PZ 6/5	9011460000

Ordering data

Solder pin length

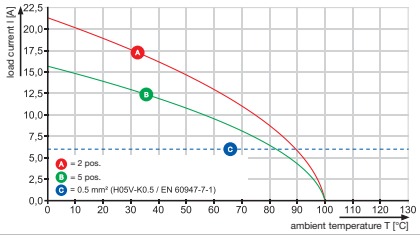
Colour **Black**

Pitch 7.62 mm

Pol.	L1	(inch)	Qty.	Order No.
2	7.62	0.300	126	1043830000
3	15.24	0.600	78	1043840000
4	22.86	0.900	60	1043850000
5	30.48	1.200	48	1043860000
6	38.10	1.500	36	1227340000
7	45.72	1.800	30	1227350000
8	53.34	2.100	30	1227360000
9	60.96	2.400	24	1227370000
10	68.58	2.700	24	1227380000
11	76.20	3.000	18	1227390000
12	83.82	3.300	18	1227410000

Representative deratings curve

BLF 7.62HP/../180 - SL 7.62HP/../90

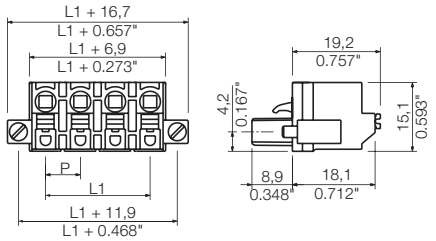


BLF 7.62HP/../180F

with test point



Dimensioned drawing



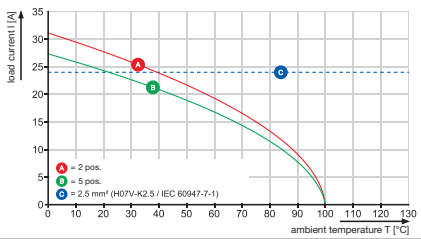
Ordering data

Solder pin length

Colour				Black
Pitch	**7.62 mm**			
Pol.	L1	(inch)	**Qty.**	**Order No.**
2	7.62	0.300	72	**1043910000**
3	15.24	0.600	54	**1043920000**
4	22.86	0.900	42	**1043930000**
5	30.48	1.200	36	**1043940000**
6	38.10	1.500	30	**1227490000**
7	45.72	1.800	24	**1227510000**
8	53.34	2.100	24	**1227520000**
9	60.96	2.400	18	**1227530000**
10	68.58	2.700	18	**1227540000**

Additional deratings curves

BLF 7.62HP/../180 - SL 7.62HP/../90

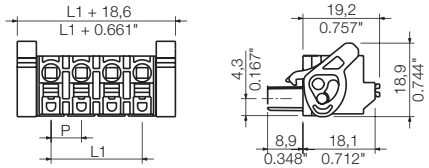


BLF 7.62HP/../180LR

with test point



Dimensioned drawing



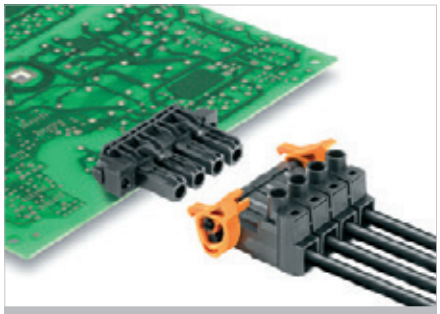
Ordering data

Solder pin length

Colour				Black
Pitch	**7.62 mm**			
Pol.	L1	(inch)	**Qty.**	**Order No.**
2	7.62	0.300	72	**1043990000**
3	15.24	0.600	54	**1044000000**
4	22.86	0.900	42	**1044010000**
5	30.48	1.200	36	**1044020000**
6	38.10	1.500	30	**1227420000**
7	45.72	1.800	24	**1227430000**
8	53.34	2.100	24	**1227440000**
9	60.96	2.400	18	**1227450000**
10	68.58	2.700	18	**1227460000**

Connectors in 7.62 mm pitch
Series BL/SL 7.62 – connects up to 4 mm²

BLL 7.62HP/../90



Touch-safe female header in 90° outlet direction. Meets the requirements of IEC 61800-5-1 and allows UL approval in accordance with UL508 / UL840 for 600 V. An ideal touch-safe solution for power output and DC link applications. According to IEC 61800-5-1, the mating profile ensures more than 3 mm of touch safety.

- Available with screw flange (F) and solder flange (LF).

Product data

IEC: 630 V / 24 A
UL: 300 V / 20 A

For additional articles and information, refer to catalog.weidmueller.com

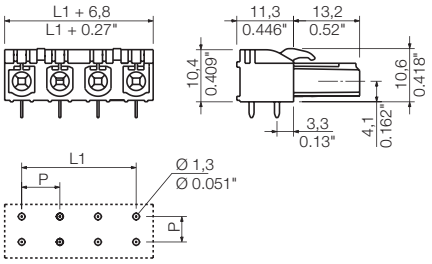
Note:

- Additional colours on request
- Gold-plated contact surfaces on request
- Spacing between rows: see hole layout
- Rated current related to rated cross-section & min. No. of poles.
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

BLL 7.62HP/../90G



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm²			
Solid core H05(07) V-U	**mm²**			
Stranded H07 V-R				
Flexible H05(07) V-K	mm²			
Flexible with ferrule	mm²			
Ferrule with plastic collar	mm²			
Stripping length	mm			
Screwdriver blade	mm			
According to norm				
Tightening torque range	Nm			
Rated current, max.	**A**	**24**		**24**
At ambient temperature		20°C		40°C
For conductor cross-section	mm²			
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	**V**	**400**	**630**	**630**
Rated impulse voltage	kV	6	6	4
UL / CUL (Use Group)		**B**	**C**	**D**
Rated voltage	**V**	**300**	**150**	**300**
Rated current	**A**	**20**	**20**	**10**
AWG conductor	**AWG**		-	
CSA (Use Group)		**B**	**C**	**D**
Rated voltage	V	300	150	300
Rated current	A	20	20	10
AWG conductor	AWG		-	
General data				
Type of insulation material			PA GF	
UL 94 flammability rating			V-0	
Contact base material			Copper alloy	
Material of contact surface			tinned	
Pin dimensions = d	mm		0.4 x 1.00	
Solder eyelet Ø = D	mm		1.3	
Solder eyelet Ø tolerance	mm		+ 0,1	

Accessories

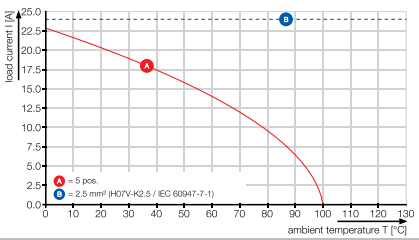
Note: Refer to the Accessories chapter for additional accessories.

Ordering data

Solder pin length				3.2 mm
Colour				Black
Pitch	**7.62 mm**			
Pol.	**L1**	**(inch)**	**Qty.**	**Order No.**
2	7.62	0.300	126	**1043230000**
3	15.24	0.600	84	**1043240000**
4	22.86	0.900	60	**1043250000**
5	30.48	1.200	48	**1043260000**

Representative deratings curve

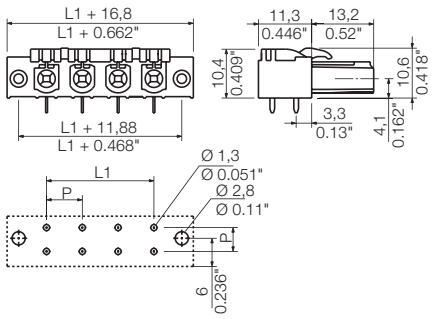
BLL 7.62HP/../90 - SLZ 7.62HP/../180



BLL 7.62HP/../90F



Dimensioned drawing



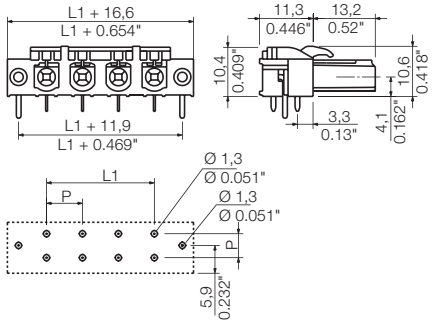
Ordering data

Solder pin length				3.2 mm
Colour				Black
Pitch	**7.62 mm**			
Pol.	L1	(inch)	**Qty.**	**Order No.**
2	7.62	0.300	72	**1043270000**
3	15.24	0.600	54	**1043280000**
4	22.86	0.900	42	**1043290000**
5	30.48	1.200	36	**1043300000**

BLL 7.62HP/../90LF



Dimensioned drawing

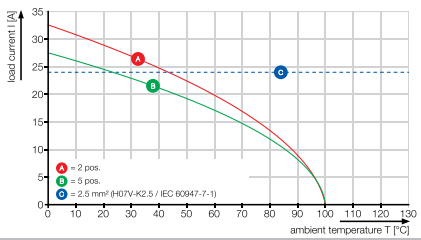


Ordering data

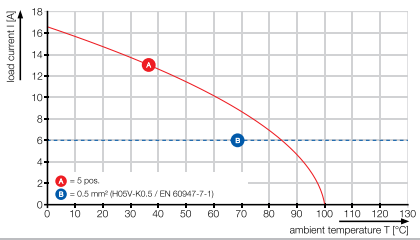
Solder pin length				3.2 mm
Colour				Black
Pitch	**7.62 mm**			
Pol.	L1	(inch)	**Qty.**	**Order No.**
2	7.62	0.300	72	**1095640000**
3	15.24	0.600	54	**1095650000**
4	22.86	0.900	42	**1095660000**
5	30.48	1.200	36	**1095670000**

Additional deratings curves

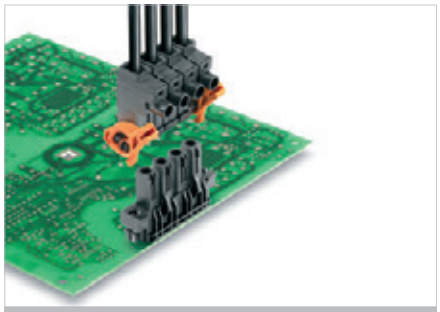
BLL 7.62HP/../90 - SLF 7.62HP/../180



BLL 7.62HP/../90 - SLZ 7.62HP/../180



BLL 7.62HP/../180



Touch-safe female header in 180° outlet direction. Meets the requirements of IEC 61800-5-1 and allows UL approval in accordance with UL508 / UL840 for 600 V. An ideal touch-safe solution for power output and DC link applications. According to IEC 61800-5-1, the mating profile ensures more than 3 mm of touch safety.

- Available with screw flange (F) and solder flange (LF).

Product data

IEC: 630 V / 24 A
UL: 300 V / 20 A

For additional articles and information, refer to catalog.weidmueller.com

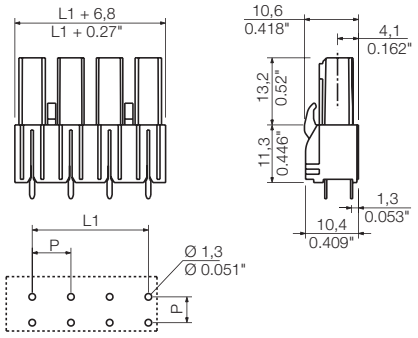
Note:

- Additional colours on request
- Gold-plated contact surfaces on request
- Spacing between rows: see hole layout
- Rated current related to rated cross-section & min. No. of poles.
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

BLL 7.62HP/../180G



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm²			
Solid core H05(07) V-U	**mm²**			
Stranded H07 V-R				
Flexible H05(07) V-K	mm²			
Flexible with ferrule	mm²			
Ferrule with plastic collar	mm²			
Stripping length	mm			
Screwdriver blade	mm			
According to norm				
Tightening torque range	Nm			
Rated current, max.	**A**	**24**		**24**
At ambient temperature		20°C		40°C
For conductor cross-section	mm²			
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	**V**	**400**	**630**	**630**
Rated impulse voltage	kV	6	6	4
UL / CUL (Use Group)		**B**	**C**	**D**
Rated voltage	**V**	**300**	**150**	**300**
Rated current	**A**	**20**	**20**	**10**
AWG conductor	**AWG**		-	
CSA (Use Group)		**B**	**C**	**D**
Rated voltage	V	300	150	300
Rated current	A	20	20	10
AWG conductor	AWG		-	
General data				
Type of insulation material			PA GF	
UL 94 flammability rating			V-0	
Contact base material			Copper alloy	
Material of contact surface			tinned	
Pin dimensions = d	mm		0.4 x 1.00	
Solder eyelet Ø = D	mm		1.3	
Solder eyelet Ø tolerance	mm		+ 0,1	

Accessories

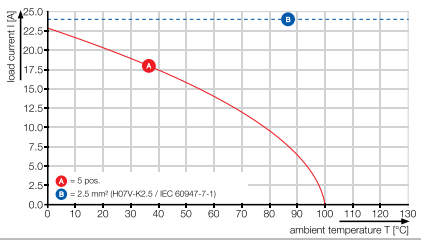
Note: Refer to the Accessories chapter for additional accessories.

Ordering data

Solder pin length				3.2 mm
Colour				Black
Pitch	**7.62 mm**			
Pol.	**L1**	**(inch)**	**Qty.**	**Order No.**
2	7.62	0.300	126	**1122070000**
3	15.24	0.600	84	**1122080000**
4	15.24	0.600	60	**1122090000**
5	30.48	1.200	48	**1122100000**

Representative deratings curve

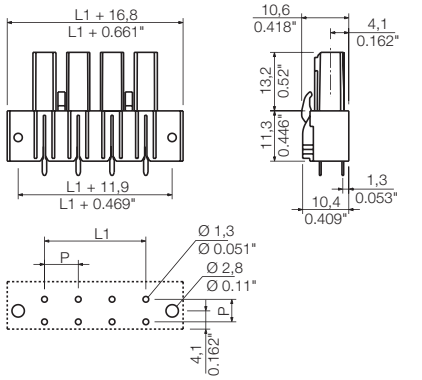
BLL 7.62HP/../90 - SLZ 7.62HP/../180



BLL 7.62HP/../180F



Dimensioned drawing



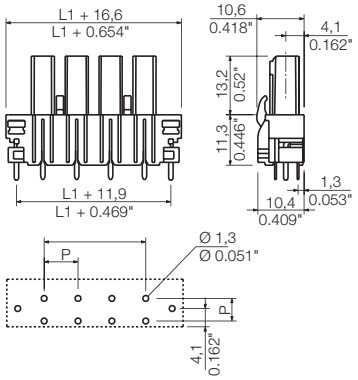
Ordering data

Solder pin length				3.2 mm
Colour				Black
Pitch	**7.62 mm**			
Pol.	**L1**	**(inch)**	**Qty.**	**Order No.**
2	7.62	0.300	72	**1122110000**
3	15.24	0.600	54	**1122120000**
4	22.86	0.900	42	**1122130000**
5	30.48	1.200	36	**1122140000**

BLL 7.62HP/../180LF



Dimensioned drawing

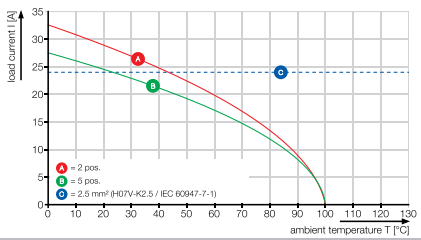


Ordering data

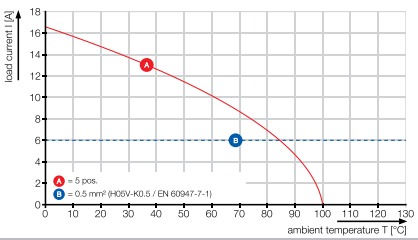
Solder pin length				3.2 mm
Colour				Black
Pitch	**7.62 mm**			
Pol.	**L1**	**(inch)**	**Qty.**	**Order No.**
2	7.62	0.300	72	**1134080000**
3	15.24	0.600	54	**1134090000**
4	22.86	0.900	42	**1134110000**
5	30.48	1.200	36	**1134120000**

Additional deratings curves

BLL 7.62HP/../90 - SLF 7.62HP/../180



BLL 7.62HP/../90 - SLZ 7.62HP/../180



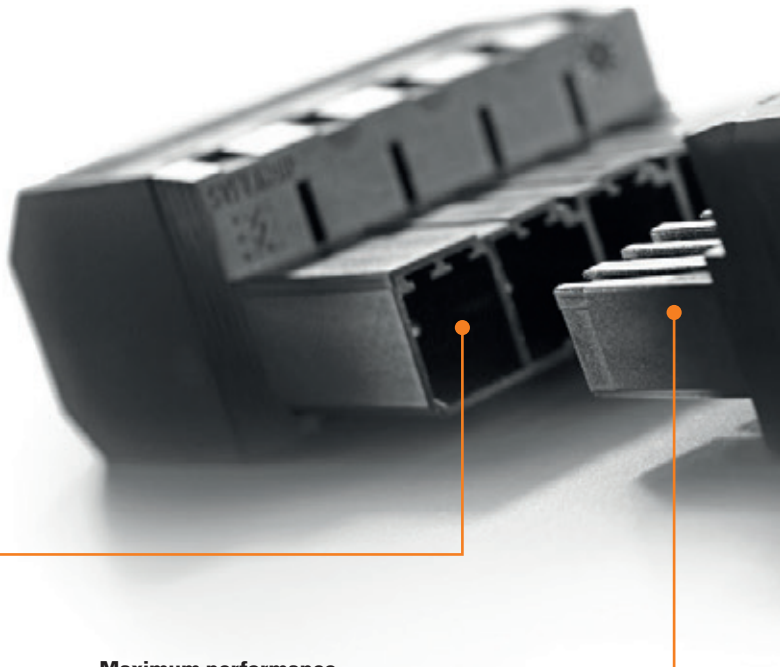
OMNIMATE Power BV / SV 7.62HP – the 28 kVA power class

Custom-fit high-powered solutions

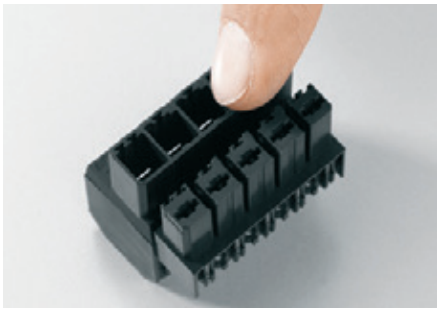
More power reserves for more load capacity: The OMNIMATE Power SV / BV 7.62HP mid-level class of power connection systems is the top performer of the HP series. It features a large clamping range, increased overload capacity and the widest selection of variants and accessories.

HP means High Performance – this performance covers a great deal: the full rated current up to 50 °C without derating, unlimited 600 V approval according to UL, and the additional finger safety for 400 V-TN systems (+ 3.0 mm) in compliance with the application directive IEC 61800-5-1.

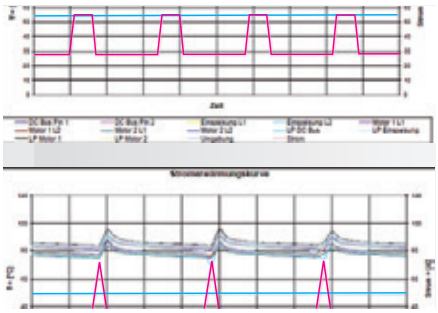
PUSH IN



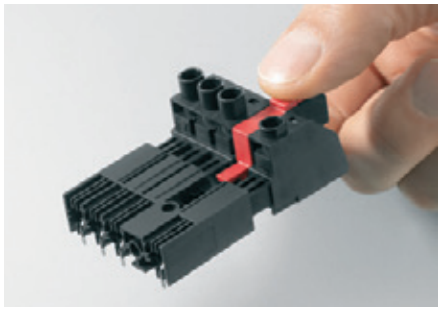
Maximum safety
Safe for both man and machine with bi-directional finger safety: also when not plugged in and covering inverse voltages from power electronics.



Maximum performance
Full current rating at 40 °C ambient temperature is a mandatory requirement in drive applications. What really makes the difference here is real-world, application-based overload and over-heating capacities.

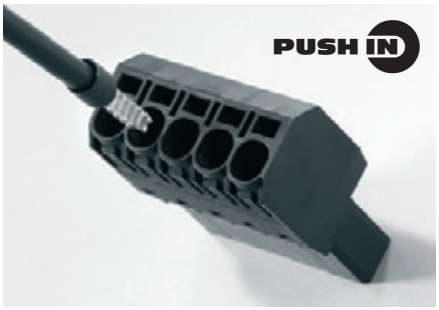


Maximum user-friendliness
Quick, simple plug and release: with the one-handed safety flange – convenient for the user and safe for the application.





Maximum efficiency
Tool-free simplicity: quick PUSH IN connection mechanism and automatic, convenient snap-in with one-handed safety interlock.



High system performance
An overview of the 28-kVA class of OMNIMATE Power: The HP system has been leading the way with its tool-free rapid interlock, installation-safe creepage and clearance distances, and application-based versioning scheme. This integrated strategy of system expansion includes a one-handed safety flange and wide range of innovative extras.



Individualised configuration
Standard + Services = custom design with simple configuration across the entire range of services: features include colour coding, application-oriented labelling and custom modifications or design. More information can be found in the "Services & Support" brochure
(Order number 10777670000).

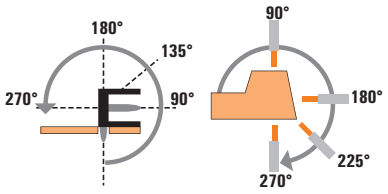


http://www.OMNIMATE.net

= Wire-to-Board
= Board-to-Board
= Wire-to-Wire
= Board-to-Wire

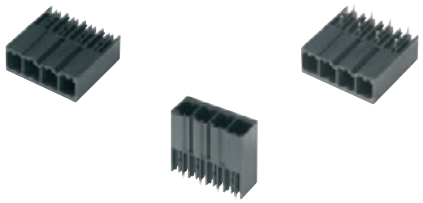


Orientation



Male header

Solder connection



BV/SV 7.62 series

Type						SV	SV	SV
				Orientation		90°	180°	270°
				Flange options		G/F/SF/MF/ MSF	G/F/SF/MF/ MSF	G/F/SF/MF/ MSF
				Product code numbers		IEC: 1.000 V/41 A UL: 300 V/35 A	IEC: 1.000 V/41 A UL: 300 V/35 A	IEC: 1.000 V/41 A UL: 300 V/35 A
					Page	F.28	F.30	F.34
Female plug	Screw Clamping yoke		**BVZ**	180°	(G)/F/SF	IEC: 1.000 V/41 A/0.2 - 6 mm² UL: 600 V/35 A/AWG 24 - 10	F.58	○	○	○
			**BVZ**	180°	FC/SFC	IEC: 1.000 V/41 A/0.2 - 6 mm² UL: 600 V/35 A/AWG 24 - 10	F.59			
			**BVZ**	180°	SH...	IEC: 1.000 V/41 A/0.2 - 6 mm² UL: 600 V/35 A/AWG 24 - 10	F.60	○	○	○
			**BVZ**	180°	SH... C	IEC: 1.000 V/41 A/0.2 - 6 mm² UL: 600 V/35 A/AWG 24 - 10	F.62			
	Spring PUSH IN		**BVF**	180°	(G)/F/SF/ MF/MSF	IEC: 1.000 V/41 A/0.2 - 10 mm² UL: 600 V/35 A/AWG 24 - 10	F.65	○	○	○
Female header	Solder connection		**BVL**	90°	(G)/FI/SFI	IEC: 1.000 V/41 A UL: 300 V/35 A	F.70	●	●	●
			**BVL**	180°	(G)/FI/SFI	IEC: 1.000 V/41 A UL: 300 V/35 A	F.72	●	●	●
			**BVL**	270°	(G)/FI/SFI	IEC: 1.000 V/41 A UL: 300 V/35 A	F.74	●	●	●

Female plug and header:

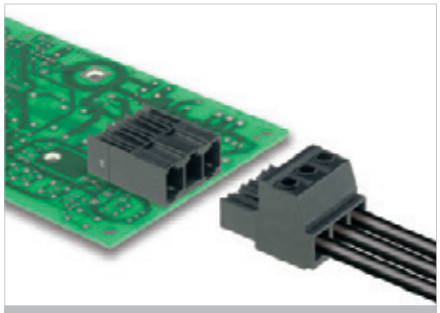
(G) = Closed (without flange)
F = Flange with clasp
SF = Flange with clasp and additional screw
SFC = Flange with clasp and additional screw
FI = Inverted flange with clasp
SFI = Inverted flange with clasp and additional screw
FC = Flange with clasp
SH... = Shielded flange with additional nut
SH... C = Shielded flange with additional screw
MF = Centre flange for clasp
MSF = Centre flange for clasp with additional nut

	Male plug								
	Screw Clamping yoke						Spring PUSH IN		
									
	SVZ	**SVZ**	**SVZ**	**SVZ**	**SVZ**	**SVZ**	**SVF**	**SVF**	**SVF**
	180°	180°	180°	180°	180°	180°	180°	180°	180°
	G/F/SF	G/FC/SFC	G/FI/SFI	SH	SH	SH	G/F/SF	G/FI/SFI	MF/MSF
	IEC: 1.000 V/41 A/ 0.2 - 6 mm² UL: 600 V/35 A/ AWG 24 - 10	IEC: 1.000 V/41 A/ 0.2 - 6 mm² UL: 600 V/35 A/ AWG 24 - 10	IEC: 1.000 V/41 A/ 0,2 - 6 mm² UL: 600 V/35 A/ AWG 24 - 10	IEC: 1.000 V/41 A/ 0.2 - 6 mm² UL: 600 V/35 A/ AWG 24 - 10	IEC: 1.000 V/41 A/ 0.2 - 6 mm² UL: 600 V/35 A/ AWG 24 - 10	IEC: 1.000 V/41 A/ 0.2 - 6 mm² UL: 600 V/35 A/ AWG 24 - 10	IEC: 1.000 V/41 A/ 0.5 - 10 mm² UL: 600 V/35 A/ AWG 24 - 10	IEC: 1.000 V/41 A/ 0.5 - 10 mm² UL: 600 V/35 A/ AWG 24 - 10	IEC: 1.000 V/41 A/ 0.5 - 10 mm² UL: 600 V/35 A/ AWG 24 - 10
	F.38	F.41	F.43	F.44	F.46	F.48	F.50	F.53	F.56
	●			●	●		●		
		●			●				
	●			●			●		
		●							
	●			●	●		●		●
	●		●			●		●	
	●		●			●		●	
	●		●			●		●	

Male header and plug:

G = Closed (without flange)
F = Flange with clasp
SF = Flange with clasp and additional screw
FI = Inverted flange with clasp
SFI = Inverted flange with clasp and additional screw
FC = Flange with clasp
SFC = Flange with clasp and additional screw
SH... = Shielded flange with additional nut
MF = Centre flange for clasp
MSF = Centre flange for clasp with additional nut

SV 7.62HP/../90



Male header in 90° outlet direction for 400 V TNC (S) systems. UL approved for 600 V in accordance with UL508 / UL840. The mating profile ensures touch-safety of more than 3 mm according to IEC 61800-5-1.

Maximum operational reliability: with a derating up to 125 °C, a mating profile that can only be plugged in correct, unique coding capabitlity and additional fastening mechanism.

- Available with a flange (F), screw flange (SF) and middle screw flange (MF).

Product data

IEC: 1000 V / 41 A
UL: 300 V / 35 A

For additional articles and information, refer to catalog.weidmueller.com

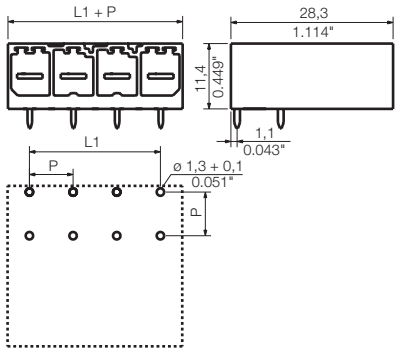
Note:

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

SV 7.62HP/../90G



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm²			
Solid core H05(07) V-U	**mm²**			
Stranded H07 V-R				
Flexible H05(07) V-K	mm²			
Flexible with ferrule	mm²			
Ferrule with plastic collar	mm²			
Stripping length	mm			
Screwdriver blade	mm			
According to norm				
Tightening torque range	Nm			
Rated current, max.	**A**	**41**		**41**
At ambient temperature		20°C		40°C
For conductor cross-section	mm²			
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	**V**	**630**	**630**	**1000**
Rated impulse voltage	kV	6	6	6
UL / CUL (Use Group)		**B**	**C**	**D**
Rated voltage	**V**	**300**	**300**	**600**
Rated current	**A**	**35**	**35**	**5**
AWG conductor	**AWG**		-	
CSA (Use Group)		**B**	**C**	**D**
Rated voltage	V	300	300	600
Rated current	A	35	35	5
AWG conductor	AWG		-	
General data				
Type of insulation material		PA GF		
UL 94 flammability rating		V-0		
Contact base material		Copper alloy		
Material of contact surface		tinned		
Pin dimensions = d	mm	0.8 x 1.0		
Solder eyelet Ø = D	mm	1.3		
Solder eyelet Ø tolerance	mm	+ 0,1		

Accessories

Note: Refer to the Accessories chapter for additional accessories.

Coding		Order No.
	BV/SV 7.62HP KO	1937590000

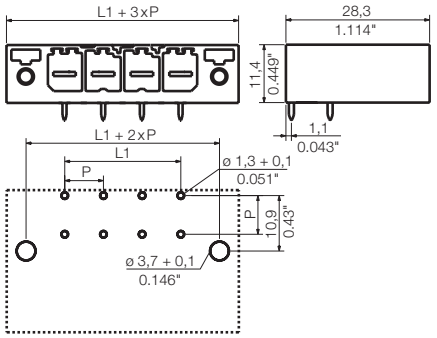
Ordering data

Solder pin length				3.5 mm
Colour				Black
Pitch	**7.62 mm**			
Pol.	**L1**	**(inch)**	**Qty.**	**Order No.**
2	7.62	0.300	100	1930270000
3	15.24	0.600	100	1930280000
4	22.86	0.900	100	1930290000
5	30.48	1.200	50	1930300000
6	38.10	1.500	50	1930310000
7	45.72	1.800	50	1930320000

SV 7.62HP/../90F



Dimensioned drawing



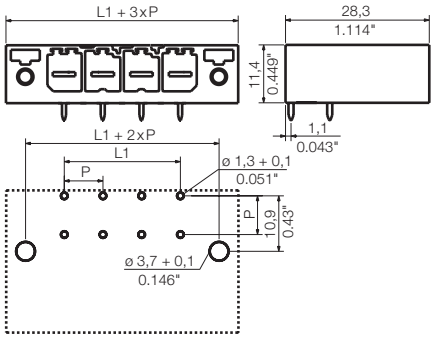
Ordering data

Solder pin length				3.5 mm
Colour				Black
Pitch	7.62 mm			
Pol.	L1	(inch)	Qty.	Order No.
2	7.62	0.300	100	1930380000
3	15.24	0.600	100	1930390000
4	22.86	0.900	100	1930400000
5	30.48	1.200	50	1930410000
6	38.10	1.500	50	1930420000
7	45.72	1.800	50	1930430000

SV 7.62HP/../90SF



Dimensioned drawing



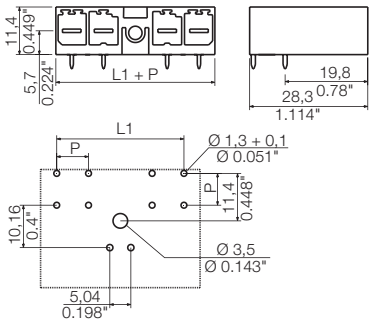
Ordering data

Solder pin length				3.5 mm
Colour				Black
Pitch	7.62 mm			
Pol.	L1	(inch)	Qty.	Order No.
2	7.62	0.300	100	1930490000
3	15.24	0.600	100	1930500000
4	22.86	0.900	100	1930510000
5	30.48	1.200	50	1930520000
6	38.10	1.500	50	1930530000
7	45.72	1.800	50	1930540000

SV 7.62HP/../90MF



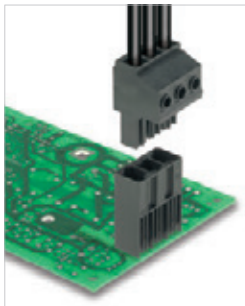
Dimensioned drawing



Ordering data

Solder pin length				3.5 mm
Colour				Black
Pitch	7.62 mm			
Pol.	L1	(inch)	Qty.	Order No.
2	15.24	0.600	78	1048390000
3	22.86	0.900	60	1048500000
3	22.86	0.900	60	1048490000
4	30.48	1.200	48	1048570000
5	38.10	1.500	36	1048690000
5	38.10	1.500	36	1048680000
6	45.72	1.800	30	1048760000

SV 7.62HP/../180



Male header in 180° outlet direction for 400 V TNC (S) systems. UL approved for 600 V in accordance with UL508 / UL840. The mating profile ensures touch-safety of more than 3 mm according to IEC 61800-5-1.

Maximum operational reliability: with a derating up to 125 °C, a mating profile that can only be plugged in correct, unique coding capabitlity, additional fastening mechanism, and integrated positioning.

- Available with a flange (F), screw flange (SF) and middle screw flange (MF).

Product data

IEC: 1000 V / 41 A
UL: 300 V / 35 A

For additional articles and information, refer to catalog.weidmueller.com

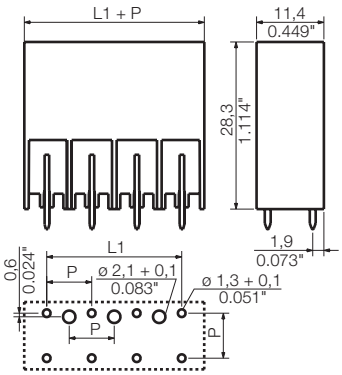
Note:

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

SV 7.62HP/../180G



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm²			
Solid core H05(07) V-U	**mm²**			
Stranded H07 V-R				
Flexible H05(07) V-K	mm²			
Flexible with ferrule	mm²			
Ferrule with plastic collar	mm²			
Stripping length	mm			
Screwdriver blade	mm			
According to norm				
Tightening torque range	Nm			
Rated current, max.	**A**	**41**		**41**
At ambient temperature		20°C		40°C
For conductor cross-section	mm²			
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	**V**	**630**	**630**	**1000**
Rated impulse voltage	kV	6	6	6
UL / CUL (Use Group)		**B**	**C**	**D**
Rated voltage	**V**	**300**	**300**	**600**
Rated current	**A**	**35**	**35**	**5**
AWG conductor	**AWG**		-	
CSA (Use Group)		**B**	**C**	**D**
Rated voltage	V	300	300	600
Rated current	A	35	35	5
AWG conductor	AWG		-	
General data				
Type of insulation material		PA GF		
UL 94 flammability rating		V-0		
Contact base material		Copper alloy		
Material of contact surface		tinned		
Pin dimensions = d	mm	0.8 x 1.0		
Solder eyelet Ø = D	mm	1.3		
Solder eyelet Ø tolerance	mm	+ 0,1		

Accessories

Note: Refer to the Accessories chapter for additional accessories.

Coding		Order No.
	BV/SV 7.62HP KO	**1937590000**
Protection against twisting		
	VDS180 SV7.62	**1853940000**

Ordering data

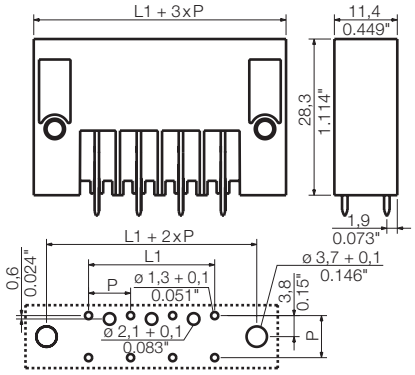
Solder pin length 3.5 mm
Colour Black
Pitch 7.62 mm

Pol.	L1	(inch)	Qty.	Order No.
2	7.62	0.300	100	**1930600000**
3	15.24	0.600	100	**1930610000**
4	22.86	0.900	100	**1930620000**
5	30.48	1.200	50	**1930630000**
6	38.10	1.500	50	**1930640000**
7	45.72	1.800	50	**1930650000**

SV 7.62HP/../180F



Dimensioned drawing



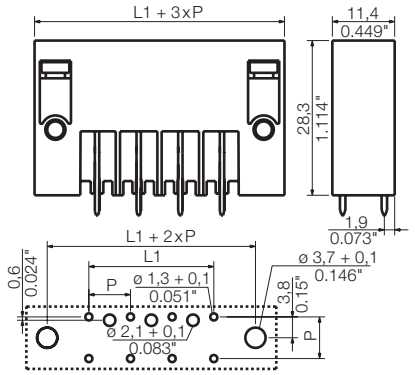
Ordering data

Solder pin length				3.5 mm
Colour				Black
Pitch	**7.62 mm**			
Pol.	L1	(inch)	**Qty.**	**Order No.**
2	7.62	0.300	100	**1930710000**
3	15.24	0.600	100	**1930720000**
4	22.86	0.900	100	**1930730000**
5	30.48	1.200	50	**1930740000**
6	38.10	1.500	50	**1930750000**
7	45.72	1.800	50	**1930760000**

SV 7.62HP/../180SF



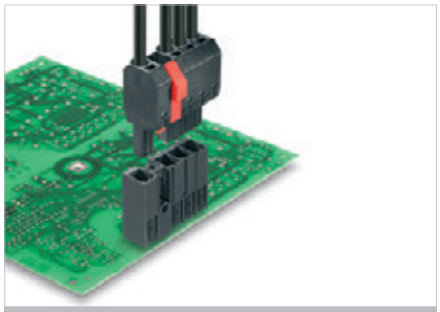
Dimensioned drawing



Ordering data

Solder pin length				3.5 mm
Colour				Black
Pitch	**7.62 mm**			
Pol.	L1	(inch)	**Qty.**	**Order No.**
2	7.62	0.300	100	**1930820000**
3	15.24	0.600	100	**1930830000**
4	22.86	0.900	100	**1930840000**
5	30.48	1.200	50	**1930850000**
6	38.10	1.500	50	**1930860000**
7	45.72	1.800	50	**1930870000**

SV 7.62HP/../180MF



Male header in 180° outlet direction for 400 V TNC (S) systems. UL approved for 600 V in accordance with UL508 / UL840. The mating profile ensures touch-safety of more than 3 mm according to IEC 61800-5-1.

Maximum operational reliability: with a derating up to 125 °C, a mating profile that can only be plugged in correct, unique coding capabitlity, additional fastening mechanism, and integrated positioning.

- Middle flange available in positions 2, 3 and 4.

Product data

IEC: 1000 V / 41 A
UL: 300 V / 35 A

For additional articles and information, refer to catalog.weidmueller.com

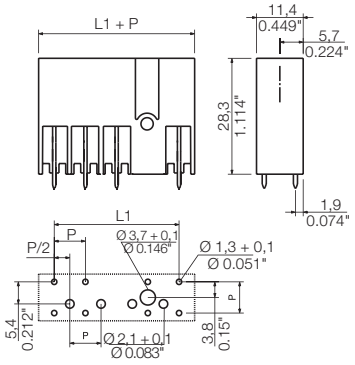
Note:

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

SV 7.62HP/../180MF2



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm²			
Solid core H05(07) V-U	**mm²**			
Stranded H07 V-R				
Flexible H05(07) V-K	mm²			
Flexible with ferrule	mm²			
Ferrule with plastic collar	mm²			
Stripping length	mm			
Screwdriver blade	mm			
According to norm				
Tightening torque range	Nm			
Rated current, max.	**A**	**41**		**41**
At ambient temperature		20°C		40°C
For conductor cross-section	mm²			
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	**V**	**630**	**630**	**1000**
Rated impulse voltage	kV	6	6	6
UL / CUL (Use Group)		**B**	**C**	**D**
Rated voltage	**V**	**300**	**300**	**600**
Rated current	**A**	**35**	**35**	**5**
AWG conductor	**AWG**		-	
CSA (Use Group)		**B**	**C**	**D**
Rated voltage	V	300	300	600
Rated current	A	35	35	5
AWG conductor	AWG		-	
General data				
Type of insulation material		PA GF		
UL 94 flammability rating		V-0		
Contact base material		Copper alloy		
Material of contact surface		tinned		
Pin dimensions = d	mm	0.8 x 1.0		
Solder eyelet Ø = D	mm	1.3		
Solder eyelet Ø tolerance	mm	+ 0,1		

Accessories

Note: Refer to the Accessories chapter for additional accessories.

Coding		Order No.
	BV/SV 7.62HP KO	**1937590000**
Protection against twisting		
	VDS180 SV7.62	**1853940000**

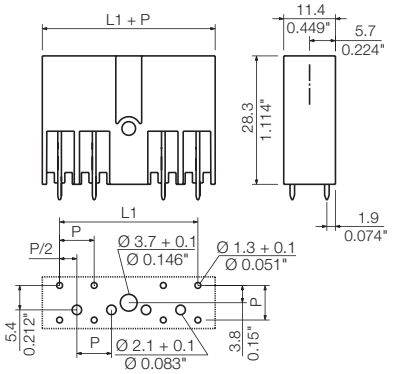
Ordering data

Solder pin length				3.5 mm
Colour				Black
Pitch	**7.62 mm**			
Pol.	**L1**	**(inch)**	**Qty.**	**Order No.**
2	15.24	0.600	78	**1048350000**
3	22.86	0.900	60	**1048410000**

SV 7.62HP/../180MF3



Dimensioned drawing



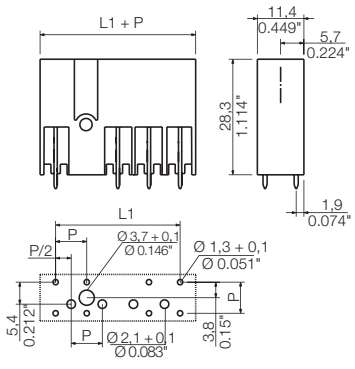
Ordering data

Solder pin length				3.5 mm
Colour				Black
Pitch	**7.62 mm**			
Pol.	L1	(inch)	**Qty.**	**Order No.**
3	22.86	0.900	60	**1048420000**
4	30.48	1.200	48	**1048530000**
5	38.10	1.500	36	**1048590000**

SV 7.62HP/../180MF4



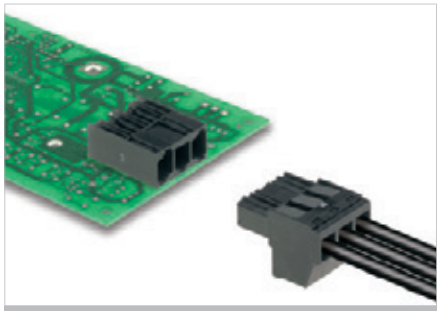
Dimensioned drawing



Ordering data

Solder pin length				3.5 mm
Colour				Black
Pitch	**7.62 mm**			
Pol.	L1	(inch)	**Qty.**	**Order No.**
5	38.10	1.500	36	**1048600000**
6	45.72	1.800	30	**1048720000**

SV 7.62HP/../270



Male header in 270° outlet direction for 400 V TNC (S) systems. UL approved for 600 V in accordance with UL508 / UL840. The mating profile ensures touch-safety of more than 3 mm according to IEC 61800-5-1.

Maximum operational reliability: with a derating up to 125 °C, a mating profile that can only be plugged in correct, unique coding capabitlity and additional fastening mechanism.

- Available with a flange (F), screw flange (SF) and middle screw flange (MF).

Product data

IEC: 1000 V / 41 A
UL: 300 V / 35 A

For additional articles and information, refer to catalog.weidmueller.com

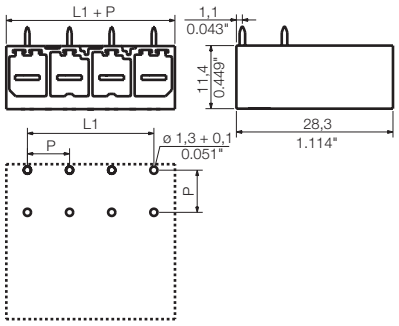
Note:

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

SV 7.62HP/../270G



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm²			
Solid core H05(07) V-U	**mm²**			
Stranded H07 V-R				
Flexible H05(07) V-K	mm²			
Flexible with ferrule	mm²			
Ferrule with plastic collar	mm²			
Stripping length	mm			
Screwdriver blade	mm			
According to norm				
Tightening torque range	Nm			
Rated current, max.	**A**	**41**		**41**
At ambient temperature		20°C		40°C
For conductor cross-section	mm²			
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	**V**	**630**	**630**	**1000**
Rated impulse voltage	kV	6	6	6
UL / CUL (Use Group)		**B**	**C**	**D**
Rated voltage	**V**	**300**	**300**	**600**
Rated current	**A**	**35**	**35**	**5**
AWG conductor	**AWG**		-	
CSA (Use Group)		**B**	**C**	**D**
Rated voltage	V	300	300	600
Rated current	A	35	35	5
AWG conductor	AWG		-	
General data				
Type of insulation material		PA GF		
UL 94 flammability rating		V-0		
Contact base material		Copper alloy		
Material of contact surface		tinned		
Pin dimensions = d	mm	0.8 x 1.0		
Solder eyelet Ø = D	mm	1.3		
Solder eyelet Ø tolerance	mm	+ 0,1		

Accessories

Note: Refer to the Accessories chapter for additional accessories.

Coding		Order No.
	BV/SV 7.62HP KO	1937590000

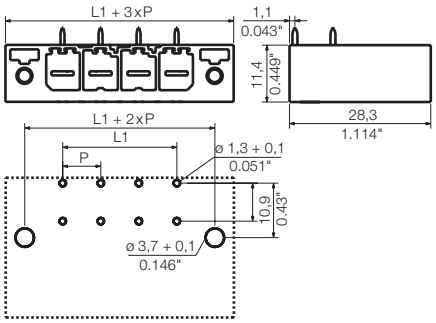
Ordering data

Solder pin length				3.5 mm
Colour				Black
Pitch	**7.62 mm**			
Pol.	**L1**	**(inch)**	**Qty.**	**Order No.**
2	7.62	0.300	100	1931260000
3	15.24	0.600	100	1931270000
4	22.86	0.900	100	1931280000
5	30.48	1.200	50	1931290000
6	38.10	1.500	50	1931300000
7	45.72	1.800	50	1931310000

SV 7.62HP/../270F



Dimensioned drawing



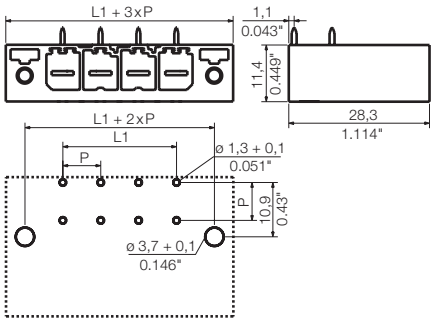
Ordering data

Solder pin length				3.5 mm
Colour				Black
Pitch	**7.62 mm**			
Pol.	L1	(inch)	**Qty.**	**Order No.**
2	7.62	0.300	100	**1931370000**
3	15.24	0.600	100	**1931380000**
4	22.86	0.900	100	**1931390000**
5	30.48	1.200	50	**1931400000**
6	38.10	1.500	50	**1931410000**
7	45.72	1.800	50	**1931420000**

SV 7.62HP/../270SF



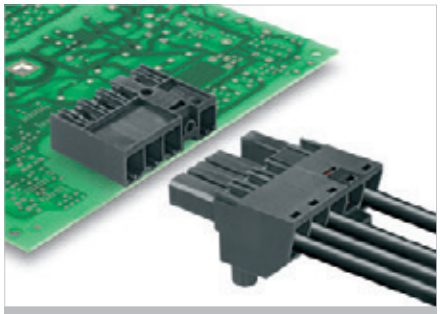
Dimensioned drawing



Ordering data

Solder pin length				3.5 mm
Colour				Black
Pitch	**7.62 mm**			
Pol.	L1	(inch)	**Qty.**	**Order No.**
2	7.62	0.300	100	**1931480000**
3	15.24	0.600	100	**1931490000**
4	22.86	0.900	100	**1931500000**
5	30.48	1.200	50	**1931510000**
6	38.10	1.500	50	**1931520000**
7	45.72	1.800	50	**1931530000**

SV 7.62HP/../270MF



Male header in 180° outlet direction for 400 V TNC (S) systems. UL approved for 600 V in accordance with UL508 / UL840. The mating profile ensures touch-safety of more than 3 mm according to IEC 61800-5-1.

Maximum operational reliability: with a derating up to 125 °C, a mating profile that can only be plugged in correct, unique coding capabitlity and additional fastening mechanism.

- Middle flange available in positions 2, 3 and 4.

Product data

IEC: 1000 V / 41 A
UL: 300 V / 35 A

For additional articles and information, refer to catalog.weidmueller.com

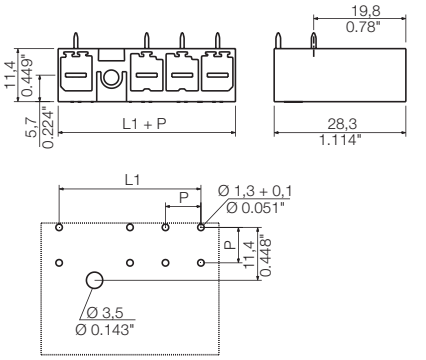
Note:

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

SV 7.62HP/../270MF2



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm²			
Solid core H05(07) V-U	**mm²**			
Stranded H07 V-R				
Flexible H05(07) V-K	mm²			
Flexible with ferrule	mm²			
Ferrule with plastic collar	mm²			
Stripping length	mm			
Screwdriver blade	mm			
According to norm				
Tightening torque range	Nm			
Rated current, max.	**A**	**41**		**41**
At ambient temperature		20°C		40°C
For conductor cross-section	mm²			
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	**V**	**630**	**630**	**1000**
Rated impulse voltage	kV	6	6	6
UL / CUL (Use Group)		**B**	**C**	**D**
Rated voltage	**V**	**300**	**300**	**600**
Rated current	**A**	**35**	**35**	**5**
AWG conductor	**AWG**		-	
CSA (Use Group)		**B**	**C**	**D**
Rated voltage	V	300	300	600
Rated current	A	35	35	5
AWG conductor	AWG		-	
General data				
Type of insulation material		PA GF		
UL 94 flammability rating		V-0		
Contact base material		Copper alloy		
Material of contact surface		tinned		
Pin dimensions = d	mm	0.8 x 1.0		
Solder eyelet Ø = D	mm	1.3		
Solder eyelet Ø tolerance	mm	+ 0,1		

Accessories

Note: Refer to the Accessories chapter for additional accessories.

Coding		Order No.
	BV/SV 7.62HP KO	**1937590000**

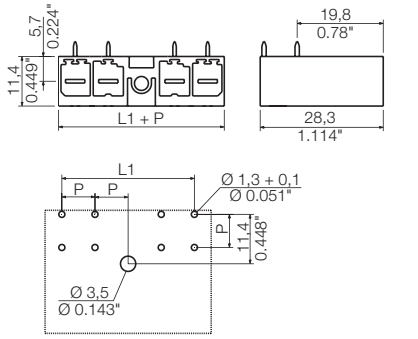
Ordering data

Solder pin length				**3.5 mm**
Colour				**Black**
Pitch	**7.62 mm**			
Pol.	L1	(inch)	**Qty.**	**Order No.**
2	15.24	0.600	78	**1048370000**
3	22.86	0.900	60	**1048450000**

SV 7.62HP/../270MF3



Dimensioned drawing



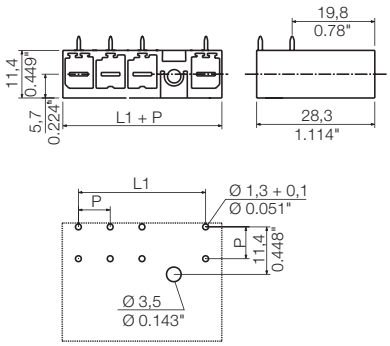
Ordering data

Solder pin length				3.5 mm
Colour				Black
Pitch	**7.62 mm**			
Pol.	L1	(inch)	**Qty.**	**Order No.**
3	22.86	0.900	60	**1048460000**
4	30.48	1.200	48	**1048550000**
5	38.10	1.500	36	**1048640000**

SV 7.62HP/../270MF4



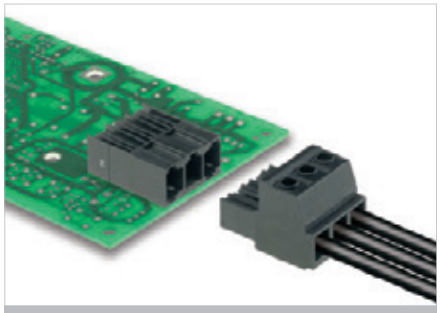
Dimensioned drawing



Ordering data

Solder pin length				3.5 mm
Colour				Black
Pitch	**7.62 mm**			
Pol.	L1	(inch)	**Qty.**	**Order No.**
5	38.10	1.500	36	**1048650000**
6	45.72	1.800	30	**1048740000**

SVZ 7.62HP/../180



Male plug in 180° outlet direction with clamping yoke screw connection for TNC (S) systems.
Also perfect for finger-safe solutions involving inverse voltages. Meets the requirements of UL1059 for 600 V Use Group C. The mating profile ensures touch-safety of > 3 mm in accordance with IEC 61800-5-1.

Maximum operational reliability: with a derating up to 125 °C, a mating profile that can only be plugged in correct, and unique coding capabitlity.

- Available with a flange (F) and screw flange (SF).

Product data

IEC: 1000 V / 41 A / 0.2 - 6 mm²
UL: 600 V / 35 A / AWG 24 - 10

For additional articles and information, refer to catalog.weidmueller.com

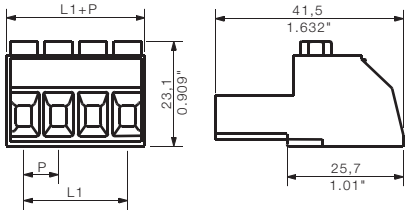
Note:

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

SVZ 7.62HP/../180



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm²	0.2...6		
Solid core H05(07) V-U	**mm²**	**0.2...6**		
Stranded H07 V-R				
Flexible H05(07) V-K	mm²	0.5...6		
Flexible with ferrule	mm²	0.25...6		
Ferrule with plastic collar	mm²	0.25...6		
Stripping length	mm	12		
Screwdriver blade	mm	0.8 x 4.5		
According to norm		DIN 5264		
Tightening torque range	Nm	0.5...0.6		
Rated current, max.	**A**	**41**		**41**
At ambient temperature		20°C		40°C
For conductor cross-section	mm²	6		
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	**V**	**800**	**1000**	**1000**
Rated impulse voltage	kV	8	8	6
UL / CUL (Use Group)		**B**	**C**	**D**
Rated voltage	**V**	**600**	**600**	**600**
Rated current	**A**	**35**	**35**	**5**
AWG conductor	**AWG**	**24-10**		
CSA (Use Group)		**B**	**C**	**D**
Rated voltage	V	600	600	600
Rated current	A	35	35	5
AWG conductor	AWG	24-10		
General data				
Type of insulation material		PA GF		
UL 94 flammability rating		V-0		
Contact base material		Copper alloy		
Material of contact surface		tinned		
Pin dimensions = d	mm			
Solder eyelet Ø = D	mm			
Solder eyelet Ø tolerance	mm			

Accessories

Note: Refer to the Accessories chapter for additional accessories.

Coding		Order No.
	BV/SV 7.62HP KO	1937590000
Strain relief		
	BV/SV 7.62HP/02 ZE GR	1937550000
	BV/SV 7.62HP/04 ZE GR	1937560000
Screwdriver		
	SDS 0.8X4.0X125	9009020000
Crosshead screwdriver		
	SDK PH1	9008480000

Ordering data

Solder pin length

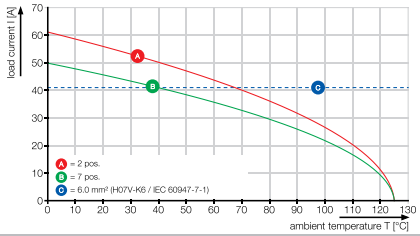
Colour **Black**

Pitch 7.62 mm

Pol.	L1	(inch)	Qty.	Order No.
2	7.62	0.300	100	1931620000
3	15.24	0.600	100	1931630000
4	22.86	0.900	100	1931640000
5	30.48	1.200	50	1931660000
6	38.10	1.500	50	1931670000
7	45.72	1.800	50	1931680000

Representative deratings curve

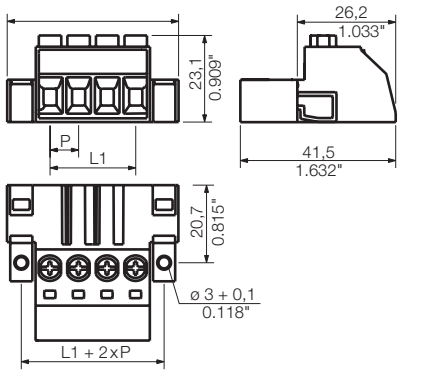
BVL 7.62HP/../180 - SVZ 7.62HP/../180



SVZ 7.62HP/../180F



Dimensioned drawing



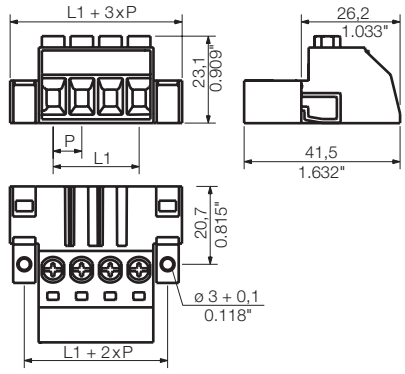
Ordering data

Solder pin length				
Colour				Black
Pitch	7.62 mm			
Pol.	L1	(inch)	Qty.	Order No.
2	7.62	0.300	100	1931740000
3	15.24	0.600	100	1931760000
4	22.86	0.900	100	1931820000
5	30.48	1.200	50	1931840000
6	38.10	1.500	50	1931850000
7	45.72	1.800	50	1931860000

SVZ 7.62HP/../180SF



Dimensioned drawing

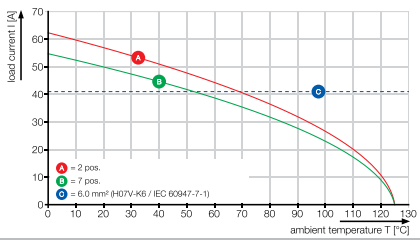


Ordering data

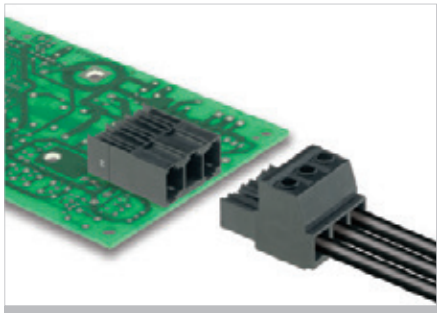
Solder pin length				
Colour				Black
Pitch	7.62 mm			
Pol.	L1	(inch)	Qty.	Order No.
2	7.62	0.300	100	1931960000
3	15.24	0.600	100	1931970000
4	22.86	0.900	100	1931980000
5	30.48	1.200	50	1931990000
6	38.10	1.500	50	1932000000
7	45.72	1.800	50	1932010000

Additional deratings curves

BVZ 7.62HP/../180 - SVZ 7.62HP/../180



SVZ 7.62HP/../180FC



Male plug in 180° outlet direction with clamping yoke screw connection for TNC (S) systems.
Also perfect for finger-safe solutions involving inverse voltages. Meets the requirements of UL1059 for 600 V Use Group C. The mating profile ensures touch-safety of > 3 mm in accordance with IEC 61800-5-1.

Maximum operational reliability: with a derating up to 125 °C, a mating profile that can only be plugged in correct, and unique coding capability.

- Available with a flange (FL) and a screw flange (SFC).

Product data

IEC: 1000 V / 41 A / 0.2 - 6 mm²
UL: 600 V / 35 A / AWG 24 - 10

For additional articles and information, refer to catalog.weidmueller.com

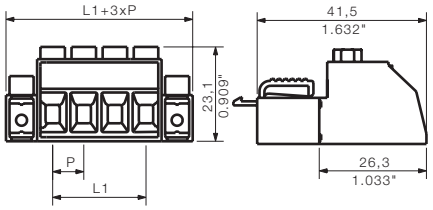
Note:

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

SVZ 7.62HP/../180FC



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm²	0.2...6		
Solid core H05(07) V-U	**mm²**	**0.2...6**		
Stranded H07 V-R				
Flexible H05(07) V-K	mm²	0.5...6		
Flexible with ferrule	mm²	0.25...6		
Ferrule with plastic collar	mm²	0.25...6		
Stripping length	mm	12		
Screwdriver blade	mm	0.8 x 4.5		
According to norm		DIN 5264		
Tightening torque range	Nm	0.5...0.6		
Rated current, max.	**A**	**41**		**41**
At ambient temperature		20°C		40°C
For conductor cross-section	mm²	6		
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	**V**	**800**	**1000**	**1000**
Rated impulse voltage	kV	8	8	6
UL / CUL (Use Group)		**B**	**C**	**D**
Rated voltage	**V**	**600**	**600**	**600**
Rated current	**A**	**35**	**35**	**5**
AWG conductor	**AWG**	**24-10**		
CSA (Use Group)		**B**	**C**	**D**
Rated voltage	V	600	600	600
Rated current	A	35	35	5
AWG conductor	AWG	24-10		
General data				
Type of insulation material		PA GF		
UL 94 flammability rating		V-0		
Contact base material		Copper alloy		
Material of contact surface		tinned		
Pin dimensions = d	mm			
Solder eyelet Ø = D	mm			
Solder eyelet Ø tolerance	mm			

Accessories

Note: Refer to the Accessories chapter for additional accessories.

Coding		Order No.
	BV/SV 7.62HP KO	1937590000
Strain relief		
	BV/SV 7.62HP/02 ZE GR	1937550000
	BV/SV 7.62HP/04 ZE GR	1937560000
Screwdriver		
	SDS 0.8X4.0X125	9009020000
Crosshead screwdriver		
	SDK PH1	9008480000

Ordering data

Solder pin length

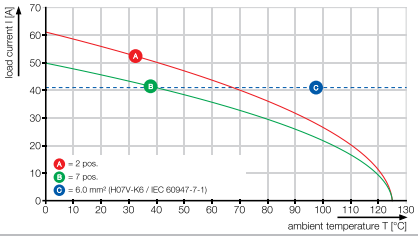
Colour **Black**

Pitch 7.62 mm

Pol.	L1	(inch)	Qty.	Order No.
2	7.62	0.300	100	1950880000
3	15.24	0.600	100	1950890000
4	22.86	0.900	100	1950900000
5	30.48	1.200	50	1950910000
6	38.10	1.500	50	1950920000
7	45.72	1.800	50	1950930000

Representative deratings curve

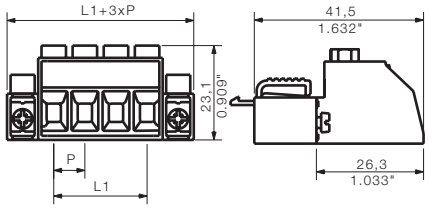
BVL 7.62HP/../180 - SVZ 7.62HP/../180



SVZ 7.62HP/../180SFC



Dimensioned drawing



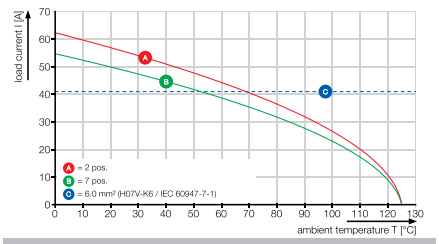
Ordering data

Solder pin length

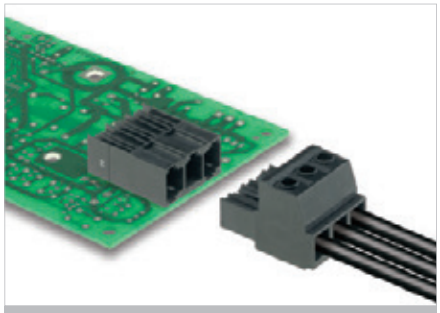
Colour				Black
Pitch	**7.62 mm**			
Pol.	L1	(inch)	**Qty.**	**Order No.**
2	7.62	0.300	100	**1950990000**
3	15.24	0.600	100	**1951000000**
4	22.86	0.900	100	**1951010000**
5	30.48	1.200	50	**1951020000**
6	38.10	1.500	50	**1951030000**
7	45.72	1.800	50	**1951050000**

Additional deratings curves

BVZ 7.62HP/../180 - SVZ 7.62HP/../180



SVZ 7.62HP/../180FI



Male plug in 180° outlet direction with clamping yoke screw connection for TNC (S) systems. Also perfect for finger-safe solutions involving inverse voltages for board-to-wire connections. Meets the requirements of UL1059 for 600 V Use Group C. The mating profile ensures touch-safety of > 3 mm in accordance with IEC 61800-5-1.

Maximum operational reliability: with a derating up to 125 °C, a mating profile that can only be plugged in correct, and unique coding capability.

Variants: flange and screw flange mountings.
- Available with a flange (FI) and a screw flange (SFI).

Product data

IEC: 1000 V / 41 A / 0.2 - 6 mm²
UL: 600 V / 35 A / AWG 24 - 10

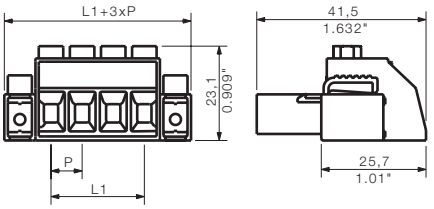
For additional articles and information, refer to catalog.weidmueller.com

Note:
- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

SVZ 7.62HP/../180FI



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm²	0.2...6		
Solid core H05(07) V-U	**mm²**	**0.2...6**		
Stranded H07 V-R				
Flexible H05(07) V-K	mm²	0.5...6		
Flexible with ferrule	mm²	0.25...6		
Ferrule with plastic collar	mm²	0.25...6		
Stripping length	mm	12		
Screwdriver blade	mm	0.8 x 4.5		
According to norm		DIN 5264		
Tightening torque range	Nm	0.5...0.6		
Rated current, max.	**A**	**41**		**41**
At ambient temperature		20°C		40°C
For conductor cross-section	mm²	6		
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	**V**	**800**	**1000**	**1000**
Rated impulse voltage	kV	8	8	6
UL / CUL (Use Group)		**B**	**C**	**D**
Rated voltage	**V**	**600**	**600**	**600**
Rated current	**A**	**35**	**35**	**5**
AWG conductor	**AWG**	**24-10**		
CSA (Use Group)		**B**	**C**	**D**
Rated voltage	V	600	600	600
Rated current	A	35	35	5
AWG conductor	AWG	24-10		
General data				
Type of insulation material		PA GF		
UL 94 flammability rating		V-0		
Contact base material		Copper alloy		
Material of contact surface		tinned		
Pin dimensions = d	mm			
Solder eyelet Ø = D	mm			
Solder eyelet Ø tolerance	mm			

Accessories

Note: Refer to the Accessories chapter for additional accessories.

Coding		Order No.
	BV/SV 7.62HP KO	1937590000
Strain relief		
	BV/SV 7.62HP/02 ZE GR	1937550000
	BV/SV 7.62HP/04 ZE GR	1937560000
Screwdriver		
	SDS 0.8X4.0X125	9009020000
Crosshead screwdriver		
	SDK PH1	9008480000

Ordering data

Solder pin length

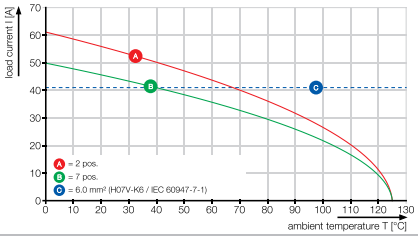
Colour **Black**

Pitch 7.62 mm

Pol.	L1	(inch)	Qty.	Order No.
2	7.62	0.300	100	1932070000
3	15.24	0.600	100	1932080000
4	22.86	0.900	100	1932090000
5	30.48	1.200	50	1932100000
6	38.10	1.500	50	1932110000
7	45.72	1.800	50	1932120000

Representative deratings curve

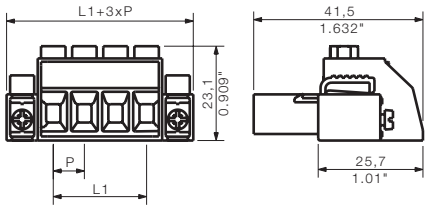
BVL 7.62HP/../180 - SVZ 7.62HP/../180



SVZ 7.62HP/../180SFI



Dimensioned drawing



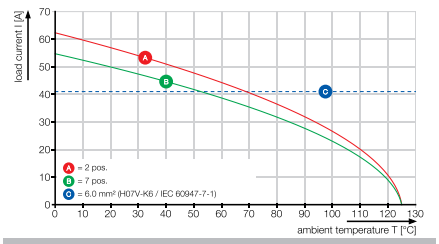
Ordering data

Solder pin length

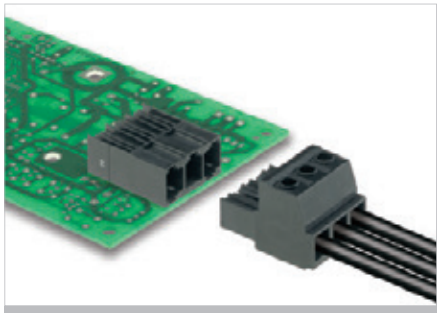
Colour				Black
Pitch	**7.62 mm**			
Pol.	L1	(inch)	**Qty.**	**Order No.**
2	7.62	0.300	100	**1932180000**
3	15.24	0.600	100	**1932190000**
4	22.86	0.900	100	**1932200000**
5	30.48	1.200	50	**1932210000**
6	38.10	1.500	50	**1932220000**
7	45.72	1.800	50	**1932230000**

Additional deratings curves

BVZ 7.62HP/../180 - SVZ 7.62HP/../180



SVZ 7.62HP/../180SH



Male plug in 180° outlet direction with clamping yoke screw connection and additional shield connection for TNC (S) systems. Also perfect for finger-safe solutions involving inverse voltages. Meets the requirements of UL1059 for 600 V Use Group C. The mating profile ensures touch-safety of > 3 mm in accordance with IEC 61800-5-1.

Maximum operational reliability with a derating up to 125 °C, a mating profile that can only be plugged in correct, and unique coding capability.

- Available with shield in three different orientations.

Product data

IEC: 1000 V / 41 A / 0.2 - 6 mm²
UL: 600 V / 35 A / AWG 24 - 10

For additional articles and information, refer to catalog.weidmueller.com

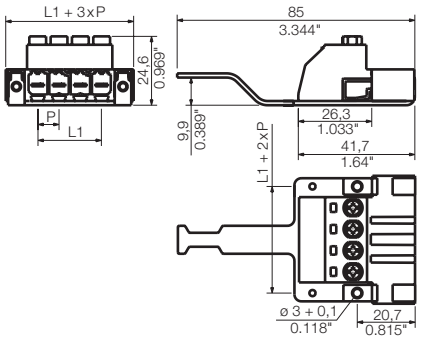
Note:

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

SVZ 7.62HP/../180SH180



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm²	0.2...6		
Solid core H05(07) V-U	**mm²**	**0.2...6**		
Stranded H07 V-R				
Flexible H05(07) V-K	mm²	0.5...6		
Flexible with ferrule	mm²	0.25...6		
Ferrule with plastic collar	mm²	0.25...6		
Stripping length	mm	12		
Screwdriver blade	mm	0.8 x 4.5		
According to norm		DIN 5264		
Tightening torque range	Nm	0.5...0.6		
Rated current, max.	**A**	**41**		**41**
At ambient temperature		20°C		40°C
For conductor cross-section	mm²	6		
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	**V**	**800**	**1000**	**1000**
Rated impulse voltage	kV	8	8	6
UL / CUL (Use Group)		**B**	**C**	**D**
Rated voltage	**V**	**600**	**600**	**600**
Rated current	**A**	**35**	**35**	**5**
AWG conductor	**AWG**	**24-10**		
CSA (Use Group)		**B**	**C**	**D**
Rated voltage	V	600	600	600
Rated current	A	35	35	5
AWG conductor	AWG	24-10		
General data				
Type of insulation material		PA GF		
UL 94 flammability rating		V-0		
Contact base material		Copper alloy		
Material of contact surface		tinned		
Pin dimensions = d	mm			
Solder eyelet Ø = D	mm			
Solder eyelet Ø tolerance	mm			

Accessories

Note: Refer to the Accessories chapter for additional accessories.

Coding		Order No.
	BV/SV 7.62HP KO	1937590000
Screwdriver		
	SDS 0.8X4.0X125	9009020000
Crosshead screwdriver		
	SDK PH1	9008480000

Ordering data

Solder pin length

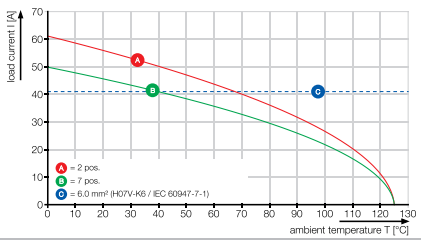
Colour **Black**

Pitch 7.62 mm

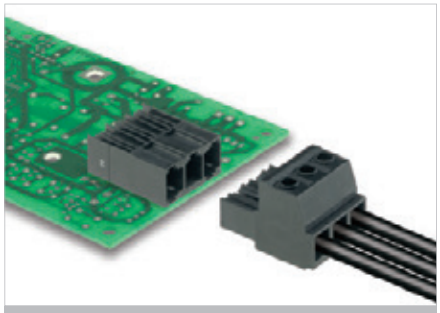
Pol.	L1	(inch)	Qty.	Order No.
3	15.24	0.600	50	1932460000
4	22.86	0.900	25	1932470000
5	30.48	1.200	25	1932480000
6	38.10	1.500	25	1932490000

Representative deratings curve

BVL 7.62HP/../180 - SVZ 7.62HP/../180



SVZ 7.62HP/../180SH C



Female plug in 180° outlet direction with clamping yoke screw connection and additional shield connection for TNC (S) systems. Also perfect for finger-safe solutions involving inverse voltages. Meets the requirements of UL1059 for 600 V Use Group C. The mating profile ensures touch-safety of > 3 mm in accordance with IEC 61800-5-1.

Maximum operational reliability with a derating up to 125 °C, a mating profile that can only be plugged in correct, and unique coding capability.

- Available with shield in three different orientations.

Product data

IEC: 1000 V / 41 A / 0.2 - 6 mm²
UL: 600 V / 35 A / AWG 24 - 10

For additional articles and information, refer to catalog.weidmueller.com

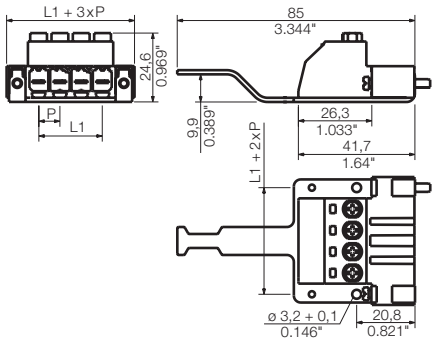
Note:

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

SVZ 7.62HP/../180SH180C



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm²	0.2...6		
Solid core H05(07) V-U	**mm²**	**0.2...6**		
Stranded H07 V-R				
Flexible H05(07) V-K	mm²	0.5...6		
Flexible with ferrule	mm²	0.25...6		
Ferrule with plastic collar	mm²	0.25...6		
Stripping length	mm	12		
Screwdriver blade	mm	0.8 x 4.5		
According to norm		DIN 5264		
Tightening torque range	Nm	0.5...0.6		
Rated current, max.	**A**	**41**		**41**
At ambient temperature		20°C		40°C
For conductor cross-section	mm²	6		
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	**V**	**800**	**1000**	**1000**
Rated impulse voltage	kV	8	8	6
UL / CUL (Use Group)		**B**	**C**	**D**
Rated voltage	**V**	**600**	**600**	**600**
Rated current	**A**	**35**	**35**	**5**
AWG conductor	**AWG**	**24-10**		
CSA (Use Group)		**B**	**C**	**D**
Rated voltage	V	600	600	600
Rated current	A	35	35	5
AWG conductor	AWG	24-10		
General data				
Type of insulation material		PA GF		
UL 94 flammability rating		V-0		
Contact base material		Copper alloy		
Material of contact surface		tinned		
Pin dimensions = d	mm			
Solder eyelet Ø = D	mm			
Solder eyelet Ø tolerance	mm			

Accessories

Note: Refer to the Accessories chapter for additional accessories.

Coding		Order No.
	BV/SV 7.62HP KO	1937590000
Screwdriver		
	SDS 0.8X4.0X125	9009020000
Crosshead screwdriver		
	SDK PH1	9008480000

Ordering data

Solder pin length

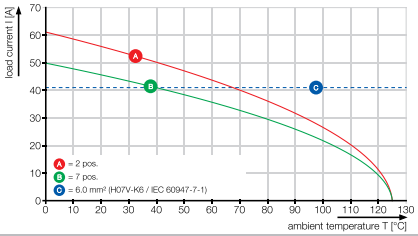
Colour **Black**

Pitch 7.62 mm

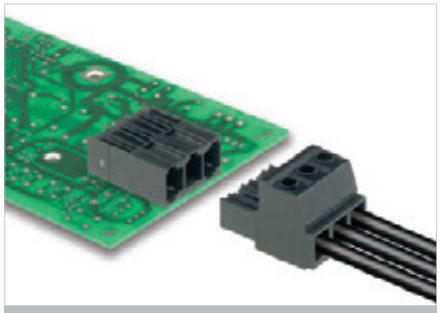
Pol.	L1	(inch)	Qty.	Order No.
3	15.24	0.600	50	1951150000
4	22.86	0.900	25	1951160000
5	30.48	1.200	25	1951170000
6	38.10	1.500	25	1951180000

Representative deratings curve

BVL 7.62HP/../180 - SVZ 7.62HP/../180



SVZ 7.62HP/../180SH I



Male plug in 180° outlet direction with clamping yoke screw connection and additional shield connection for TNC (S) systems. Also perfect for finger-safe solutions involving inverse voltages for board-to-wire connections. Meets the requirements of UL1059 for 600 V Use Group C. The mating profile ensures touch-safety of > 3 mm in accordance with IEC 61800-5-1.

Maximum operational reliability with a derating up to 125 °C, a mating profile that can only be plugged in correct, and unique coding capabitlity.

- Available with shield in three different orientations.

Product data

IEC: 1000 V / 41 A / 0.2 - 6 mm²
UL: 600 V / 35 A / AWG 24 - 10

For additional articles and information, refer to catalog.weidmueller.com

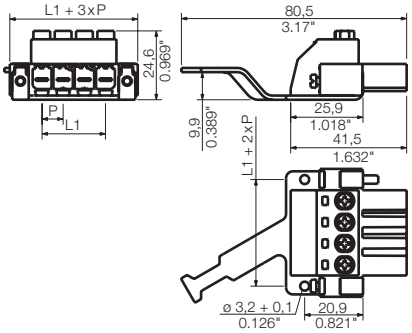
Note:

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

SVZ 7.62HP/../180SH150I



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm²	0.2...6		
Solid core H05(07) V-U	**mm²**	**0.2...6**		
Stranded H07 V-R				
Flexible H05(07) V-K	mm²	0.5...6		
Flexible with ferrule	mm²	0.25...6		
Ferrule with plastic collar	mm²	0.25...6		
Stripping length	mm	12		
Screwdriver blade	mm	0.8 x 4.5		
According to norm		DIN 5264		
Tightening torque range	Nm	0.5...0.6		
Rated current, max.	**A**	**41**		**41**
At ambient temperature		20°C		40°C
For conductor cross-section	mm²	6		
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	**V**	**800**	**1000**	**1000**
Rated impulse voltage	kV	8	8	6
UL / CUL (Use Group)		**B**	**C**	**D**
Rated voltage	**V**	**600**	**600**	**600**
Rated current	**A**	**35**	**35**	**5**
AWG conductor	**AWG**	**24-10**		
CSA (Use Group)		**B**	**C**	**D**
Rated voltage	V	600	600	600
Rated current	A	35	35	5
AWG conductor	AWG	24-10		
General data				
Type of insulation material		PA GF		
UL 94 flammability rating		V-0		
Contact base material		Copper alloy		
Material of contact surface		tinned		
Pin dimensions = d	mm			
Solder eyelet Ø = D	mm			
Solder eyelet Ø tolerance	mm			

Accessories

Note: Refer to the Accessories chapter for additional accessories.

Coding		Order No.
	BV/SV 7.62HP KO	1937590000
Screwdriver		
	SDS 0.8X4.0X125	9009020000
Crosshead screwdriver		
	SDK PH1	9008480000

Ordering data

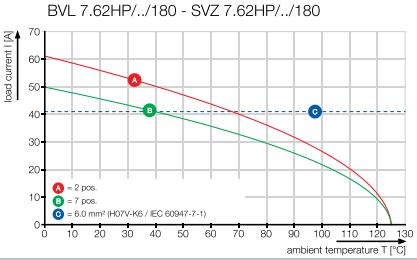
Solder pin length

Colour **Black**

Pitch 7.62 mm

Pol.	L1	(inch)	Qty.	Order No.
3	15.24	0.600	50	1932330000
4	22.86	0.900	25	1932340000
5	30.48	1.200	25	1932350000
6	38.10	1.500	25	1932360000

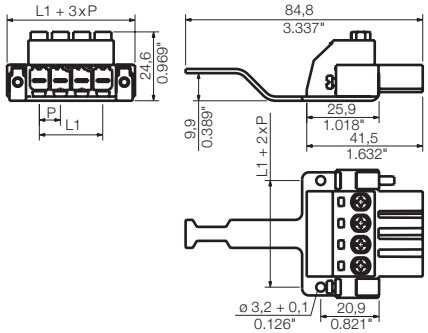
Representative deratings curve



SVZ 7.62HP/../180SH180I



Dimensioned drawing

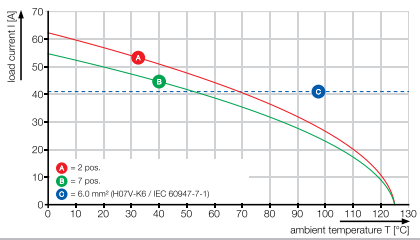


Ordering data

Solder pin length				
Colour				Black
Pitch	7.62 mm			
Pol.	L1	(inch)	Qty.	Order No.
3	15.24	0.600	50	1932500000
4	22.86	0.900	25	1932510000
5	30.48	1.200	25	1932520000
6	38.10	1.500	25	1932530000

Additional deratings curves

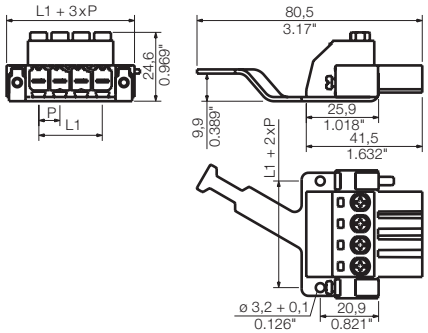
BVZ 7.62HP/../180 - SVZ 7.62HP/../180



SVZ 7.62HP/../180SH210I



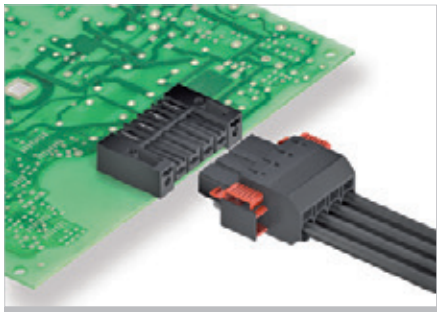
Dimensioned drawing



Ordering data

Solder pin length				
Colour				Black
Pitch	7.62 mm			
Pol.	L1	(inch)	Qty.	Order No.
3	15.24	0.600	50	1932580000
4	22.86	0.900	25	1932590000
5	30.48	1.200	25	1932600000
6	38.10	1.500	25	1932610000

SVF 7.62HP/../180



Male plug in 180° outlet direction and PUSH IN spring connection for TNC(S) networks. Also perfect for finger-safe solutions involving inverse voltages. Meets the requirements of UL1059 for 600 V Use Group C. The mating profile ensures touch-safety of > 3 mm in accordance with IEC 61800-5-1.

Maximum operational reliability: with a derating up to 125 °C, a mating profile that can only be plugged in correct, and unique coding capability.

- Available with a flange (F) and a screw flange (SF).

Product data

IEC: 1000 V / 41 A / 0.5 - 10 mm²
UL: 600 V / 35 A / AWG 24 - 10

For additional articles and information, refer to catalog.weidmueller.com

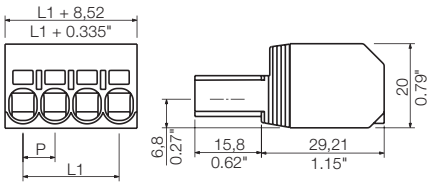
Note:

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

SVF 7.62HP/../180G



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm²	0.5...10		
Solid core H05(07) V-U	**mm²**	**0.5...10**		
Stranded H07 V-R		...10		
Flexible H05(07) V-K	mm²	0.5...		
Flexible with ferrule	mm²	1.5...4		
Ferrule with plastic collar	mm²	1.5...6		
Stripping length	mm	12		
Screwdriver blade	mm	0.8 x 4.5		
According to norm		DIN 5264		
Tightening torque range	Nm			
Rated current, max.	**A**	**41**		**41**
At ambient temperature		20°C		40°C
For conductor cross-section	mm²	6		
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	**V**	**800**	**1000**	**1000**
Rated impulse voltage	kV	8	8	6
UL / CUL (Use Group)		**B**	**C**	**D**
Rated voltage	**V**	**600**	**600**	**600**
Rated current	**A**	**35**	**35**	**5**
AWG conductor	**AWG**		**24-10**	
CSA (Use Group)		**B**	**C**	**D**
Rated voltage	V	600	600	600
Rated current	A	35	35	5
AWG conductor	AWG		24-10	
General data				
Type of insulation material		PA GF		
UL 94 flammability rating		V-0		
Contact base material		Copper alloy		
Material of contact surface		tinned		
Pin dimensions = d	mm			
Solder eyelet Ø = D	mm			
Solder eyelet Ø tolerance	mm			

Accessories

Note: Refer to the Accessories chapter for additional accessories.

Coding		Order No.
	BV/SV 7.62HP KO	1937590000
Screwdriver		
	SDS 0.8X4.0X125	9009020000
Crimping tool		
	PZ 6/5	9011460000

Ordering data

Solder pin length

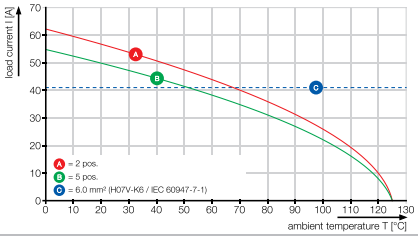
Colour **Black**

Pitch 7.62 mm

Pol.	L1	(inch)	Qty.	Order No.
2	7.62	0.300	95	1060830000
3	15.24	0.600	65	1060840000
4	22.86	0.900	45	1060850000
5	30.48	1.200	40	1060870000
6	38.10	1.500	30	1060880000

Representative deratings curve

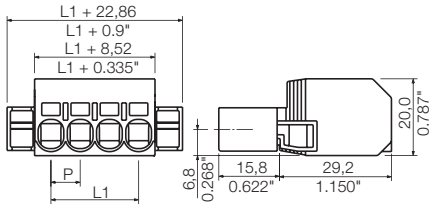
BVF 7.62HP/../180 - SVF 7.62HP/../180



SVF 7.62HP/../180F



Dimensioned drawing



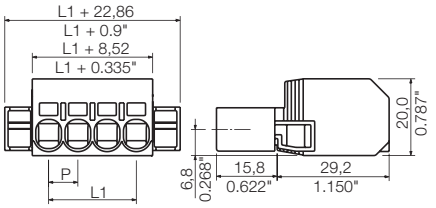
Ordering data

Solder pin length				
Colour				Black
Pitch	**7.62 mm**			
Pol.	L1	(inch)	**Qty.**	**Order No.**
2	7.62	0.300	50	**1060900000**
3	15.24	0.600	40	**1060910000**
4	22.86	0.900	30	**1060920000**
5	30.48	1.200	25	**1060930000**

SVF 7.62HP/../180SF



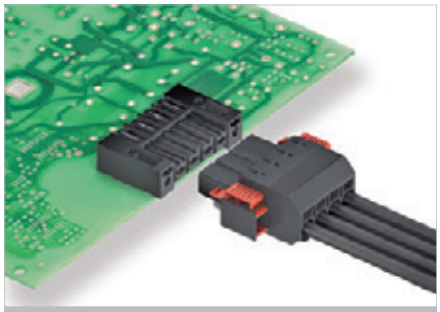
Dimensioned drawing



Ordering data

Solder pin length				
Colour				Black
Pitch	**7.62 mm**			
Pol.	L1	(inch)	**Qty.**	**Order No.**
2	7.62	0.300	50	**1060950000**
3	15.24	0.600	40	**1060970000**
4	22.86	0.900	30	**1060980000**
5	30.48	1.200	25	**1061000000**

SVF 7.62HP/../180 I



Male plug in 180° outlet direction and PUSH IN spring connection for TNC(S) networks. Also perfect for finger-safe solutions involving inverse voltages for board-to-wire connections. Meets the requirements of UL1059 for 600 V Use Group C. The mating profile ensures touch-safety of > 3 mm in accordance with IEC 61800-5-1.

Maximum operational reliability with a derating up to 125 °C, a mating profile that can only be plugged in correct, and unique coding capability.

- Available with a flange (FI) and a screw flange (SFI).

Product data

IEC: 1000 V / 41 A / 0.5 - 10 mm²
UL: 600 V / 35 A / AWG 24 - 10

For additional articles and information, refer to catalog.weidmueller.com

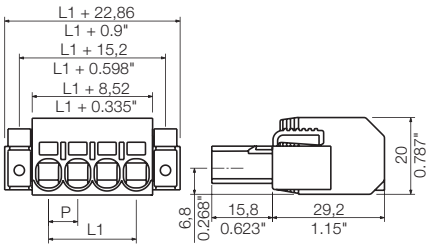
Note:

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

SVF 7.62HP/../180FI



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm²	0.5...10		
Solid core H05(07) V-U	**mm²**	**0.5...10**		
Stranded H07 V-R		...10		
Flexible H05(07) V-K	mm²	0.5...		
Flexible with ferrule	mm²	1.5...4		
Ferrule with plastic collar	mm²	1.5...6		
Stripping length	mm	12		
Screwdriver blade	mm	0.8 x 4.5		
According to norm		DIN 5264		
Tightening torque range	Nm			
Rated current, max.	**A**	**41**		**41**
At ambient temperature		20°C		40°C
For conductor cross-section	mm²	6		
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	**V**	**800**	**1000**	**1000**
Rated impulse voltage	kV	8	8	6
UL / CUL (Use Group)		**B**	**C**	**D**
Rated voltage	**V**	**600**	**600**	**600**
Rated current	**A**	**35**	**35**	**5**
AWG conductor	**AWG**		**24-10**	
CSA (Use Group)		**B**	**C**	**D**
Rated voltage	V	600	600	600
Rated current	A	35	35	5
AWG conductor	AWG		24-10	
General data				
Type of insulation material			PA GF	
UL 94 flammability rating			V-0	
Contact base material			Copper alloy	
Material of contact surface			tinned	
Pin dimensions = d	mm			
Solder eyelet Ø = D	mm			
Solder eyelet Ø tolerance	mm			

Accessories

Note: Refer to the Accessories chapter for additional accessories.

Coding		Order No.
	BV/SV 7.62HP KO	1937590000
Screwdriver		
	SDS 0.8X4.0X125	9009020000
Crimping tool		
	PZ 6/5	9011460000

Ordering data

Solder pin length

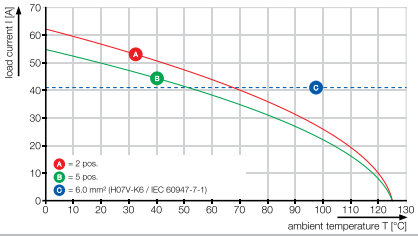
Colour **Black**

Pitch 7.62 mm

Pol.	L1	(inch)	Qty.	Order No.
2	7.62	0.300	50	1124750000
3	15.24	0.600	40	1124760000
4	22.86	0.900	30	1124770000
5	30.48	1.200	25	1124780000

Representative deratings curve

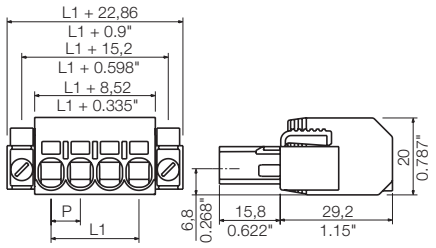
BVF 7.62HP/../180 - SVF 7.62HP/../180



SVF 7.62HP/../180SFI



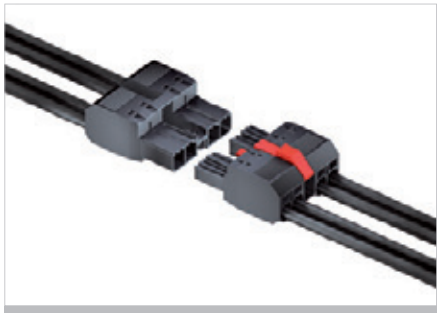
Dimensioned drawing



Ordering data

Solder pin length				
Colour				Black
Pitch	**7.62 mm**			
Pol.	L1	(inch)	**Qty.**	**Order No.**
2	7.62	0.300	50	**1124810000**
3	15.24	0.600	40	**1124820000**
4	22.86	0.900	30	**1124830000**
5	30.48	1.200	25	**1124840000**

SVF 7.62HP/../180MF



Male plug in 180° outlet direction with PUSH IN spring connection for TNC(S) networks. Also perfect for finger-safe solutions involving inverse voltages. Meets the requirements of UL1059 for 600 V Use Group C. The mating profile ensures touch-safety of > 3 mm in accordance with IEC 61800-5-1.

Maximum operational reliability with a derating up to 125 °C, a mating profile that can only be plugged in correct, and unique coding capability.

- Middle flange is available in positions 2, 3 and 4.

Product data

IEC: 1000 V / 41 A / 0.5 - 10 mm²
UL: 600 V / 35 A / AWG 24 - 10

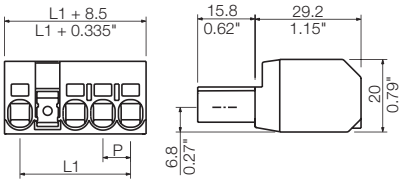
For additional articles and information, refer to catalog.weidmueller.com

Note:

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

SVF 7.62HP/../180MF2

Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm²	0.5...10		
Solid core H05(07) V-U	**mm²**	**0.5...10**		
Stranded H07 V-R		...10		
Flexible H05(07) V-K	mm²	0.5...		
Flexible with ferrule	mm²	1.5...4		
Ferrule with plastic collar	mm²	1.5...6		
Stripping length	mm	12		
Screwdriver blade	mm	0.8 x 4.5		
According to norm		DIN 5264		
Tightening torque range	Nm			
Rated current, max.	**A**	**41**		**41**
At ambient temperature		20°C		40°C
For conductor cross-section	mm²	6		
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	**V**	**800**	**1000**	**1000**
Rated impulse voltage	kV	8	8	6
UL / CUL (Use Group)		**B**	**C**	**D**
Rated voltage	**V**	**600**	**600**	**600**
Rated current	**A**	**35**	**35**	**5**
AWG conductor	**AWG**		**24-10**	
CSA (Use Group)		**B**	**C**	**D**
Rated voltage	V	600	600	600
Rated current	A	35	35	5
AWG conductor	AWG		24-10	
General data				
Type of insulation material		PA GF		
UL 94 flammability rating		V-0		
Contact base material		Copper alloy		
Material of contact surface		tinned		
Pin dimensions = d	mm			
Solder eyelet Ø = D	mm			
Solder eyelet Ø tolerance	mm			

Accessories

Note: Refer to the Accessories chapter for additional accessories.

Coding		Order No.
	BV/SV 7.62HP KO	**1937590000**
Screwdriver		
	SDS 0.8X4.0X125	**9009020000**
Crimping tool		
	PZ 6/5	**9011460000**

Ordering data

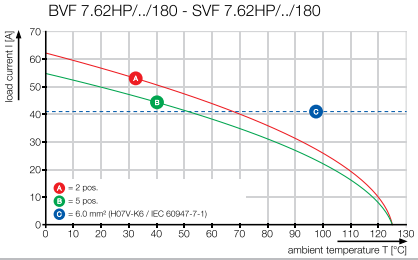
Solder pin length

Colour **Black**

Pitch 7.62 mm

Pol.	L1	(inch)	Qty.	Order No.
2	7.62	0.300	65	**1061020000**
3	15.24	0.600	50	**1061030000**

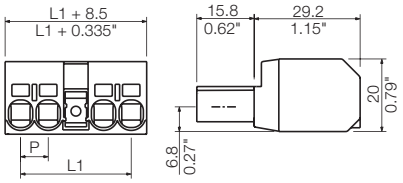
Representative deratings curve



SVF 7.62HP/../180MF3



Dimensioned drawing

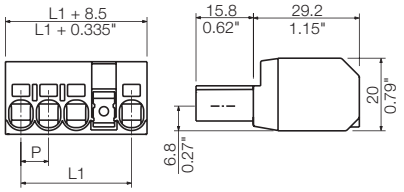


Ordering data

Solder pin length				
Colour				Black
Pitch	**7.62 mm**			
Pol.	L1	(inch)	**Qty.**	**Order No.**
3	15.24	0.600	50	**1061040000**
4	22.86	0.900	40	**1061050000**
5	30.48	1.200	30	**1061070000**

SVF 7.62HP/../180MF4

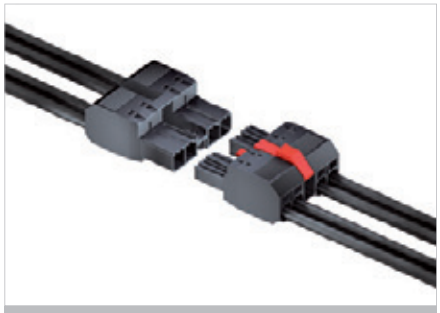
Dimensioned drawing



Ordering data

Solder pin length				
Colour				Black
Pitch	**7.62 mm**			
Pol.	L1	(inch)	**Qty.**	**Order No.**
5	30.48	1.200	30	**1061080000**

SVF 7.62HP/../180MSF



Male plug in 180° outlet direction with PUSH IN spring connection for TNC(S) networks. Also perfect for finger-safe solutions involving inverse voltages. Meets the requirements of UL1059 for 600 V Use Group C. The mating profile ensures touch-safety of > 3 mm in accordance with IEC 61800-5-1.

Maximum operational reliability: with a derating up to 125 °C, a mating profile that can only be plugged in correct, and unique coding capability.

- Middle flange is available in positions 2, 3 and 4.

Product data

IEC: 1000 V / 41 A / 0.5 - 10 mm²
UL: 600 V / 35 A / AWG 24 - 10

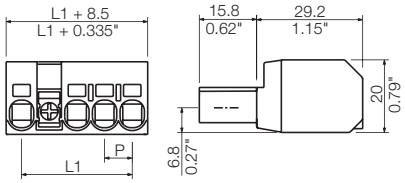
For additional articles and information, refer to catalog.weidmueller.com

Note:

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

SVF 7.62HP/../180MSF2

Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm²	0.5...10		
Solid core H05(07) V-U	**mm²**	**0.5...10**		
Stranded H07 V-R		...10		
Flexible H05(07) V-K	mm²	0.5...		
Flexible with ferrule	mm²	1.5...4		
Ferrule with plastic collar	mm²	1.5...6		
Stripping length	mm	12		
Screwdriver blade	mm	0.8 x 4.5		
According to norm		DIN 5264		
Tightening torque range	Nm			
Rated current, max.	**A**	**41**		**41**
At ambient temperature		20°C		40°C
For conductor cross-section	mm²	6		
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	**V**	**800**	**1000**	**1000**
Rated impulse voltage	kV	8	8	6
UL / CUL (Use Group)		**B**	**C**	**D**
Rated voltage	**V**	**600**	**600**	**600**
Rated current	**A**	**35**	**35**	**5**
AWG conductor	**AWG**		**24-10**	
CSA (Use Group)		**B**	**C**	**D**
Rated voltage	V	600	600	600
Rated current	A	35	35	5
AWG conductor	AWG		24-10	
General data				
Type of insulation material		PA GF		
UL 94 flammability rating		V-0		
Contact base material		Copper alloy		
Material of contact surface		tinned		
Pin dimensions = d	mm			
Solder eyelet Ø = D	mm			
Solder eyelet Ø tolerance	mm			

Accessories

Note: Refer to the Accessories chapter for additional accessories.

Coding		Order No.
	BV/SV 7.62HP KO	**1937590000**
Screwdriver		
	SDIS 0.6X3.5X100	**9008390000**
	SDS 0.6X3.5X100	**9008330000**
Crimping tool		
	PZ 6/5	**9011460000**

Ordering data

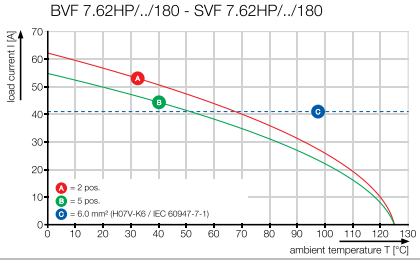
Solder pin length

Colour **Black**

Pitch **7.62 mm**

Pol.	L1	(inch)	Qty.	Order No.
2	7.62	0.300	65	**1061110000**
3	15.24	0.600	50	**1061120000**

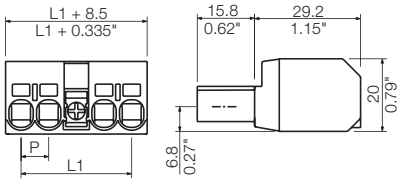
Representative deratings curve



SVF 7.62HP/../180MSF3



Dimensioned drawing

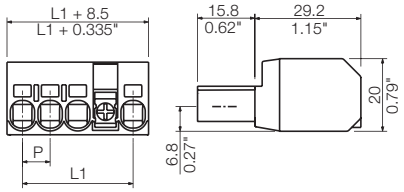


Ordering data

Solder pin length				
Colour				Black
Pitch	**7.62 mm**			
Pol.	L1	(inch)	**Qty.**	**Order No.**
3	15.24	0.600	50	**1061130000**
4	22.86	0.900	40	**1061140000**
5	30.48	1.200	30	**1061150000**

SVF 7.62HP/../180MSF4

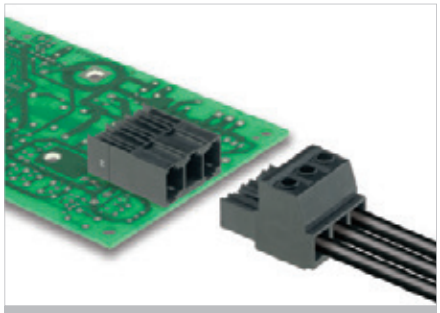
Dimensioned drawing



Ordering data

Solder pin length				
Colour				Black
Pitch	**7.62 mm**			
Pol.	L1	(inch)	**Qty.**	**Order No.**
5	30.48	1.200	30	**1061170000**

BVZ 7.62HP/../180



Female plug in 180° outlet direction with clamping yoke screw connection for TNC (S) systems. Meets the requirements of UL1059 for 600 V Use Group C. The mating profile ensures touch-safety of > 3 mm in accordance with
IEC 61800-5-1.

Maximum operational reliability: with a derating up to 125 °C, a mating profile that can only be plugged in correct, and unique coding capability.

- Available with a flange (F), screw flange (SF) and clip on screw flange (SFC)

Product data

IEC: 1000 V / 41 A / 0.2 - 6 mm²
UL: 600 V / 35 A / AWG 24 - 10

For additional articles and information, refer to catalog.weidmueller.com

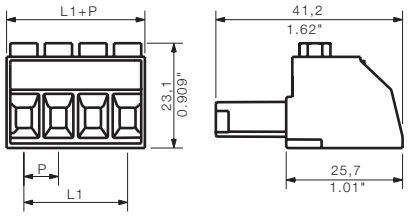
Note:

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

BVZ 7.62HP/../180



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm²	0.2...6		
Solid core H05(07) V-U	**mm²**	**0.2...6**		
Stranded H07 V-R				
Flexible H05(07) V-K	mm²	0.5...6		
Flexible with ferrule	mm²	0.25...6		
Ferrule with plastic collar	mm²	0.25...6		
Stripping length	mm	12		
Screwdriver blade	mm	0.8 x 4.5		
According to norm		DIN 5264		
Tightening torque range	Nm	0.5...0.6		
Rated current, max.	**A**	**41**		**41**
At ambient temperature		20°C		40°C
For conductor cross-section	mm²	6		
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	**V**	**800**	**1000**	**1000**
Rated impulse voltage	kV	8	8	6
UL / CUL (Use Group)		**B**	**C**	**D**
Rated voltage	**V**	**600**	**600**	**600**
Rated current	**A**	**35**	**35**	**5**
AWG conductor	**AWG**		**24-10**	
CSA (Use Group)		**B**	**C**	**D**
Rated voltage	V	600	600	600
Rated current	A	35	35	5
AWG conductor	AWG		24-10	
General data				
Type of insulation material			PA GF	
UL 94 flammability rating			V-0	
Contact base material			Copper alloy	
Material of contact surface			tinned	
Pin dimensions = d	mm			
Solder eyelet Ø = D	mm			
Solder eyelet Ø tolerance	mm			

Accessories

Note: Refer to the Accessories chapter for additional accessories.

Coding		Order No.
	BV/SV 7.62HP KO	**1937590000**
Strain relief		
	BV/SV 7.62HP/02 ZE GR	**1937550000**
	BV/SV 7.62HP/04 ZE GR	**1937560000**
Screwdriver		
	SDS 0.8X4.0X125	**9009020000**
Crosshead screwdriver		
	SDK PH1	**9008480000**

Ordering data

Solder pin length

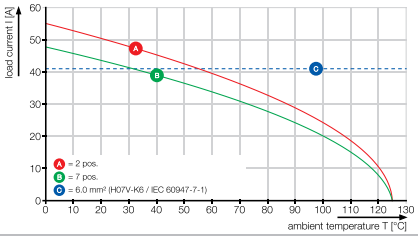
Colour **Black**

Pitch 7.62 mm

Pol.	L1	(inch)	Qty.	Order No.
2	7.62	0.300	100	**1929930000**
3	15.24	0.600	100	**1929940000**
4	22.86	0.900	100	**1929950000**
5	30.48	1.200	50	**1929960000**
6	38.10	1.500	50	**1929970000**
7	45.72	1.800	50	**1929980000**

Representative deratings curve

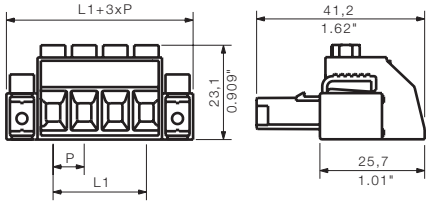
BVZ 7.62HP/../180 - SV 7.62HP/../90



BVZ 7.62HP/../180F



Dimensioned drawing



Ordering data

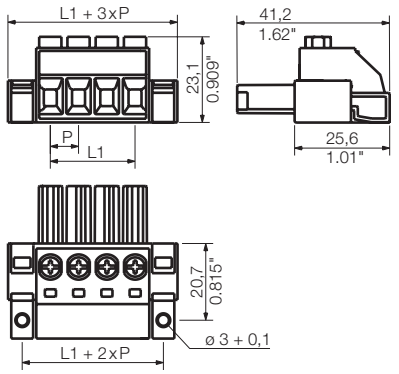
Solder pin length

Colour				Black
Pitch	**7.62 mm**			
Pol.	L1	(inch)	**Qty.**	**Order No.**
2	7.62	0.300	100	**1930050000**
3	15.24	0.600	100	**1930060000**
4	22.86	0.900	100	**1930070000**
5	30.48	1.200	50	**1930080000**
6	38.10	1.500	50	**1930090000**
7	45.72	1.800	50	**1930100000**

BVZ 7.62HP/../180SF



Dimensioned drawing



Ordering data

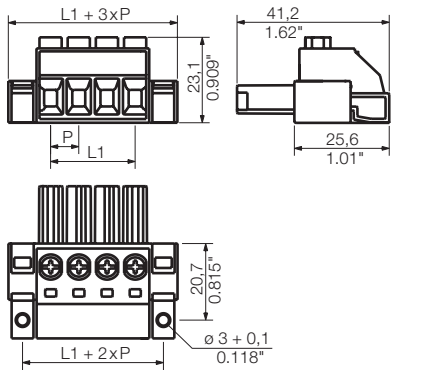
Solder pin length

Colour				Black
Pitch	**7.62 mm**			
Pol.	L1	(inch)	**Qty.**	**Order No.**
2	7.62	0.300	100	**1930160000**
3	15.24	0.600	100	**1930170000**
4	22.86	0.900	100	**1930180000**
5	30.48	1.200	50	**1930190000**
6	38.10	1.500	50	**1930200000**
7	45.72	1.800	50	**1930210000**

BVZ 7.62HP/../180SFC



Dimensioned drawing



Ordering data

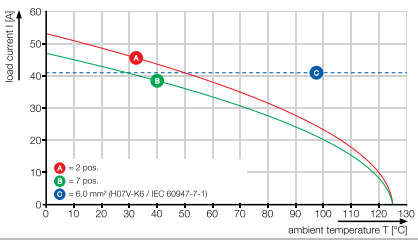
Solder pin length

Colour				Black
Pitch	**7.62 mm**			
Pol.	L1	(inch)	**Qty.**	**Order No.**
2	7.62	0.300	100	**1929740000**
3	15.24	0.600	100	**1929750000**
4	22.86	0.900	100	**1929760000**
5	30.48	1.200	50	**1929770000**
6	38.10	1.500	50	**1929780000**
7	45.72	1.800	50	**1929790000**

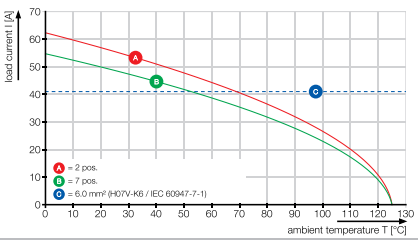
Also available with a clip-on flange (..180FC).

Additional deratings curves

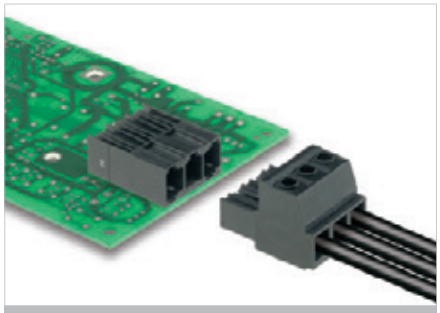
BVZ 7.62HP/../180 - SV 7.62HP/../180



BVZ 7.62HP/../180 - SVZ 7.62HP/../180



BVZ 7.62HP/../180SH



Female plug in 180° outlet direction with clamping yoke screw connection and additional shield connection for TNC (S) systems. Meets the requirements of UL1059 for 600 V Use Group C. The mating profile ensures touch-safety of > 3 mm in accordance with IEC 61800-5-1.

Maximum operational reliability with a derating up to 125 °C, a mating profile that can only be plugged in correct, and unique coding capability.

- Available with shield in three different orientations.

Product data

IEC: 1000 V / 41 A / 0.2 - 6 mm²
UL: 600 V / 35 A / AWG 24 - 10

For additional articles and information, refer to catalog.weidmueller.com

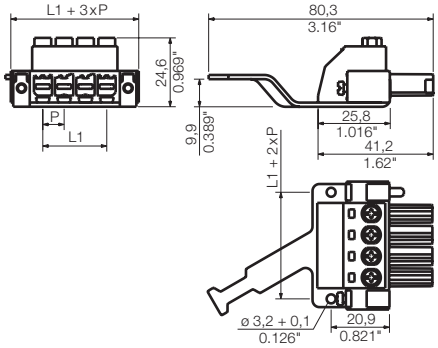
Note:

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

BVZ 7.62HP/../180SH150



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm²	0.2...6		
Solid core H05(07) V-U	**mm²**	**0.2...6**		
Stranded H07 V-R				
Flexible H05(07) V-K	mm²	0.5...6		
Flexible with ferrule	mm²	0.25...6		
Ferrule with plastic collar	mm²	0.25...6		
Stripping length	mm	12		
Screwdriver blade	mm	0.8 x 4.5		
According to norm		DIN 5264		
Tightening torque range	Nm	0.5...0.6		
Rated current, max.	**A**	**41**		**41**
At ambient temperature		20°C		40°C
For conductor cross-section	mm²	6		
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	**V**	**800**	**1000**	**1000**
Rated impulse voltage	kV	8	8	6
UL / CUL (Use Group)		**B**	**C**	**D**
Rated voltage	**V**	**600**	**600**	**600**
Rated current	**A**	**35**	**35**	**5**
AWG conductor	**AWG**		**24-10**	
CSA (Use Group)		**B**	**C**	**D**
Rated voltage	V	600	600	600
Rated current	A	35	35	5
AWG conductor	AWG		24-10	
General data				
Type of insulation material			PA GF	
UL 94 flammability rating			V-0	
Contact base material			Copper alloy	
Material of contact surface			tinned	
Pin dimensions = d	mm			
Solder eyelet Ø = D	mm			
Solder eyelet Ø tolerance	mm			

Accessories

Note: Refer to the Accessories chapter for additional accessories.

Coding		Order No.
	BV/SV 7.62HP KO	1937590000
Strain relief		
	BV/SV 7.62HP/02 ZE GR	1937550000
	BV/SV 7.62HP/04 ZE GR	1937560000
Screwdriver		
	SDS 0.8X4.0X125	9009020000
Crosshead screwdriver		
	SDK PH1	9008480000

Ordering data

Solder pin length

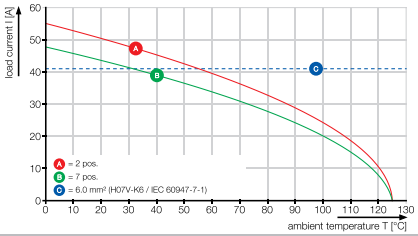
Colour **Black**

Pitch 7.62 mm

Pol.	L1	(inch)	Qty.	Order No.
3	15.24	0.600	50	1929850000
4	22.86	0.900	25	1929860000
5	30.48	1.200	25	1929870000
6	38.10	1.500	25	1929880000

Representative deratings curve

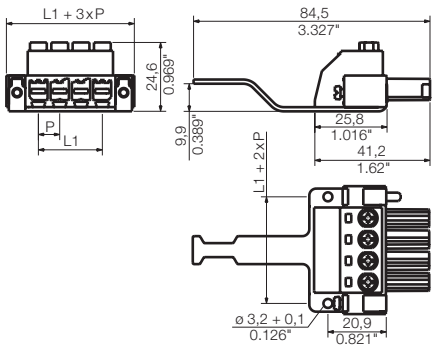
BVZ 7.62HP/../180 - SV 7.62HP/../90



BVZ 7.62HP/../180SH180



Dimensioned drawing



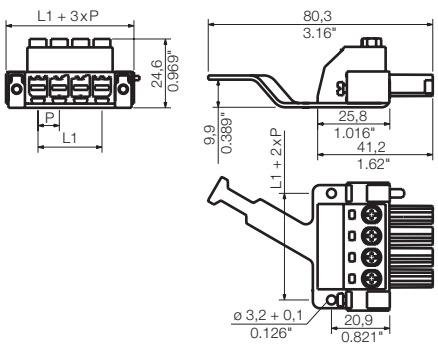
Ordering data

Solder pin length				
Colour				Black
Pitch	7.62 mm			
Pol.	L1	(inch)	Qty.	Order No.
3	15.24	0.600	50	1933340000
4	22.86	0.900	25	1933350000
5	30.48	1.200	25	1933360000
6	38.10	1.500	25	1933370000

BVZ 7.62HP/../180SH210



Dimensioned drawing

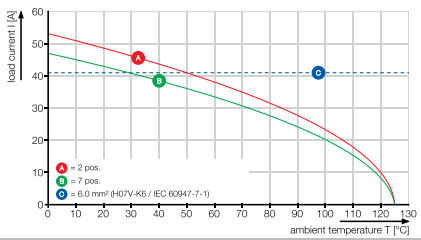


Ordering data

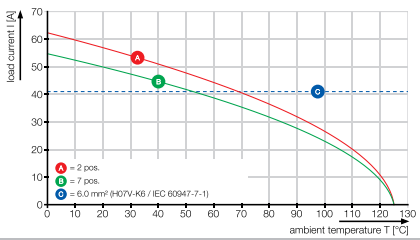
Solder pin length				
Colour				Black
Pitch	7.62 mm			
Pol.	L1	(inch)	Qty.	Order No.
3	15.24	0.600	50	1933430000
4	22.86	0.900	25	1933440000
5	30.48	1.200	25	1933450000
6	38.10	1.500	25	1933460000

Additional deratings curves

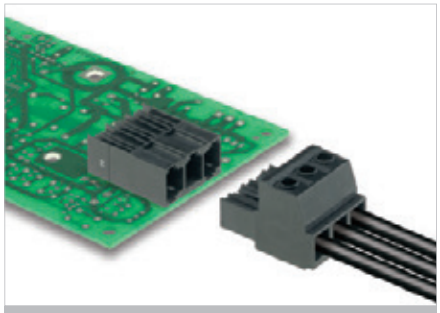
BVZ 7.62HP/../180 - SV 7.62HP/../180



BVZ 7.62HP/../180 - SVZ 7.62HP/../180



BVZ 7.62HP/../180SH C



Female plug in 180° outlet direction with clamping yoke screw connection and additional shield connection for TNC (S) systems. Meets the requirements of UL1059 for 600 V Use Group C. The mating profile ensures touch-safety of > 3 mm in accordance with IEC 61800-5-1.

Maximum operational reliability with a derating up to 125 °C, a mating profile that can only be plugged in correct, and unique coding capability.

- Available with shield in three different orientations.

Product data

IEC: 1000 V / 41 A / 0.2 - 6 mm²
UL: 600 V / 35 A / AWG 24 - 10

For additional articles and information, refer to catalog.weidmueller.com

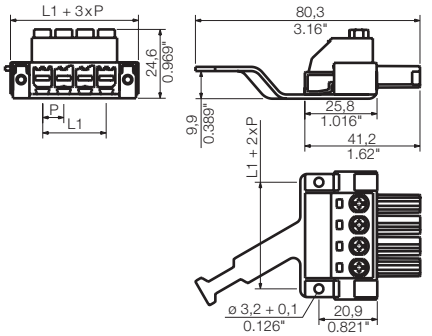
Note:

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

BVZ 7.62HP/../180SH150C



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm²	0.2...6		
Solid core H05(07) V-U	**mm²**	**0.2...6**		
Stranded H07 V-R				
Flexible H05(07) V-K	mm²	0.5...6		
Flexible with ferrule	mm²	0.25...6		
Ferrule with plastic collar	mm²	0.25...6		
Stripping length	mm	12		
Screwdriver blade	mm	0.8 x 4.5		
According to norm		DIN 5264		
Tightening torque range	Nm	0.5...0.6		
Rated current, max.	**A**	**41**		**41**
At ambient temperature		20°C		40°C
For conductor cross-section	mm²	6		
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	**V**	**800**	**1000**	**1000**
Rated impulse voltage	kV	8	8	6
UL / CUL (Use Group)		**B**	**C**	**D**
Rated voltage	**V**	**600**	**600**	**600**
Rated current	**A**	**35**	**35**	**5**
AWG conductor	**AWG**		**24-10**	
CSA (Use Group)		**B**	**C**	**D**
Rated voltage	V	600	600	600
Rated current	A	35	35	5
AWG conductor	AWG		24-10	
General data				
Type of insulation material		PA GF		
UL 94 flammability rating		V-0		
Contact base material		Copper alloy		
Material of contact surface		tinned		
Pin dimensions = d	mm			
Solder eyelet Ø = D	mm			
Solder eyelet Ø tolerance	mm			

Accessories

Note: Refer to the Accessories chapter for additional accessories.

Coding		Order No.
	BV/SV 7.62HP KO	1937590000
Strain relief		
	BV/SV 7.62HP/02 ZE GR	1937550000
	BV/SV 7.62HP/04 ZE GR	1937560000
Screwdriver		
	SDS 0.8X4.0X125	9009020000
Crosshead screwdriver		
	SDK PH1	9008480000

Ordering data

Solder pin length

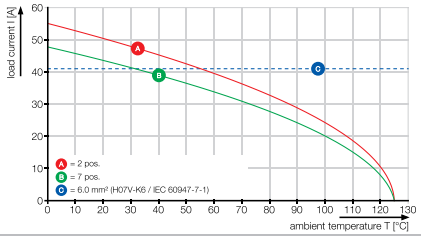
Colour **Black**

Pitch 7.62 mm

Pol.	L1	(inch)	Qty.	Order No.
3	15.24	0.600	50	1929890000
4	22.86	0.900	25	1929900000
5	30.48	1.200	25	1929910000
6	38.10	1.500	25	1929920000

Representative deratings curve

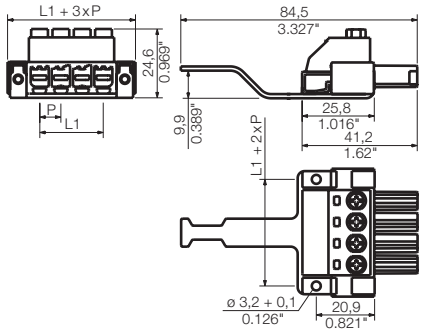
BVZ 7.62HP/../180 - SV 7.62HP/../90



BVZ 7.62HP/../180SH180C



Dimensioned drawing



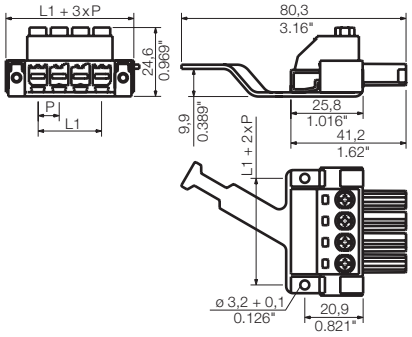
Ordering data

Solder pin length				
Colour				Black
Pitch	7.62 mm			
Pol.	L1	(inch)	Qty.	Order No.
3	15.24	0.600	50	1933380000
4	22.86	0.900	25	1933390000
5	30.48	1.200	25	1933400000
6	38.10	1.500	25	1933410000

BVZ 7.62HP/../180SH210C



Dimensioned drawing

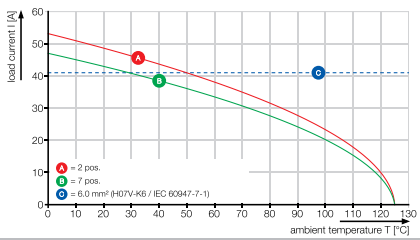


Ordering data

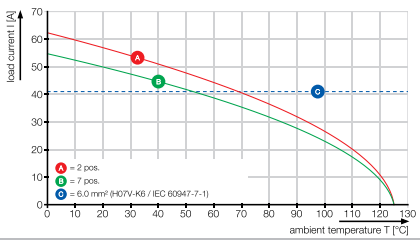
Solder pin length				
Colour				Black
Pitch	7.62 mm			
Pol.	L1	(inch)	Qty.	Order No.
3	15.24	0.600	50	1933470000
4	22.86	0.900	25	1933480000
5	30.48	1.200	25	1933490000
6	38.10	1.500	25	1933500000

Additional deratings curves

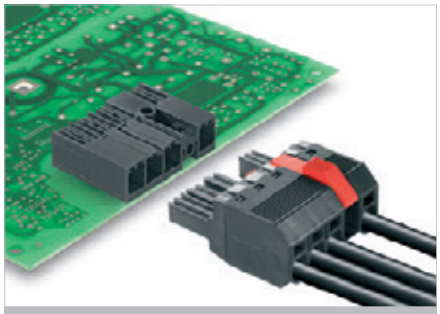
BVZ 7.62HP/../180 - SV 7.62HP/../180



BVZ 7.62HP/../180 - SVZ 7.62HP/../180



BVF 7.62HP/../180



Female plug in 180° outlet direction with PUSH IN spring connection for TNC (S) systems. Meets the requirements of UL1059 for 600 V Use Group C. The mating profile ensures touch-safety of > 3 mm in accordance with IEC 61800-5-1.

Maximum operational reliability with a derating up to 125 °C, a mating profile that can only be plugged in correct, and unique coding capability.

- Available with a flange (F), screw flange (SF) and middle flange (MF).

Product data

IEC: 1000 V / 41 A / 0.5 - 10 mm²
UL: 600 V / 35 A / AWG 24 - 8

For additional articles and information, refer to catalog.weidmueller.com

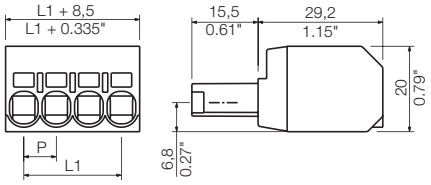
Note:

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

BVF 7.62HP/../180



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm²	0.5...10		
Solid core H05(07) V-U	**mm²**	**0.5...10**		
Stranded H07 V-R				
Flexible H05(07) V-K	mm²	0.5...10		
Flexible with ferrule	mm²	1.5...6		
Ferrule with plastic collar	mm²	1.5...6		
Stripping length	mm	12		
Screwdriver blade	mm	0.8 x 4.5		
According to norm		DIN 5264		
Tightening torque range	Nm			
Rated current, max.	**A**	**41**		**41**
At ambient temperature		20°C		40°C
For conductor cross-section	mm²	6		
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	**V**	**800**	**1000**	**1000**
Rated impulse voltage	kV	8	8	6
UL / CUL (Use Group)		**B**	**C**	**D**
Rated voltage	**V**	**600**	**600**	**600**
Rated current	**A**	**35**	**35**	**5**
AWG conductor	**AWG**		**24-8**	
CSA (Use Group)		**B**	**C**	**D**
Rated voltage	V	600	600	600
Rated current	A	35	35	5
AWG conductor	AWG		24-8	
General data				
Type of insulation material		PA GF		
UL 94 flammability rating		V-0		
Contact base material		Copper alloy		
Material of contact surface		tinned		
Pin dimensions = d	mm			
Solder eyelet Ø = D	mm			
Solder eyelet Ø tolerance	mm			

Accessories

Note: Refer to the Accessories chapter for additional accessories.

Coding		Order No.
	BV/SV 7.62HP KO	**1937590000**
Screwdriver		
	SDS 0.8X4.0X125	**9009020000**
Crimping tool		
	PZ 6/5	**9011460000**

Ordering data

Solder pin length

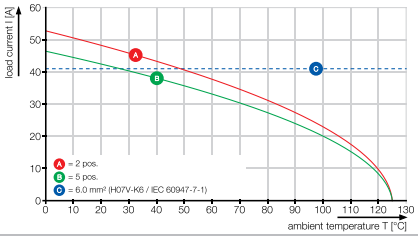
Colour **Black**

Pitch 7.62 mm

Pol.	L1	(inch)	Qty.	Order No.
2	7.62	0.300	95	**1060390000**
3	15.24	0.600	65	**1060400000**
4	22.86	0.900	45	**1060410000**
5	30.48	1.200	40	**1060420000**

Representative deratings curve

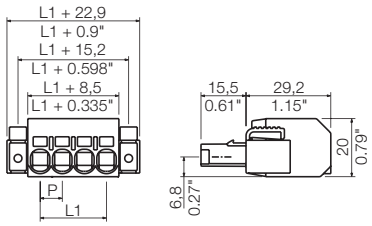
BVF 7.62HP/../180 - SV 7.62HP/../90



BVF 7.62HP/../180F



Dimensioned drawing



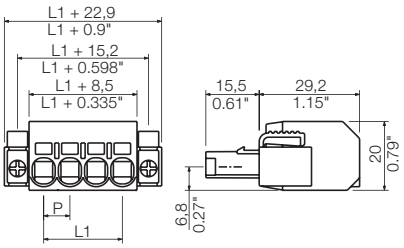
Ordering data

Solder pin length				
Colour				Black
Pitch	7.62 mm			
Pol.	L1	(inch)	Qty.	Order No.
2	7.62	0.300	50	1060440000
3	15.24	0.600	40	1060450000
4	22.86	0.900	30	1060470000
5	30.48	1.200	25	1060480000
6	38.10	1.500	25	1060490000

BVF 7.62HP/../180SF



Dimensioned drawing

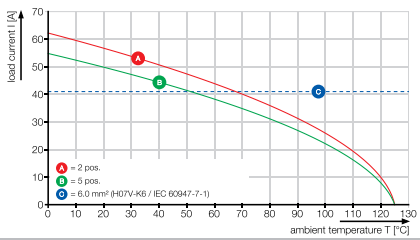


Ordering data

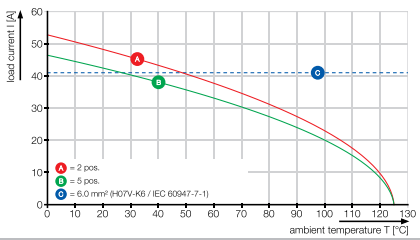
Solder pin length				
Colour				Black
Pitch	7.62 mm			
Pol.	L1	(inch)	Qty.	Order No.
2	7.62	0.300	50	1060500000
3	15.24	0.600	40	1060510000
4	22.86	0.900	30	1060520000
5	30.48	1.200	25	1060530000
6	38.10	1.500	25	1060540000

Additional deratings curves

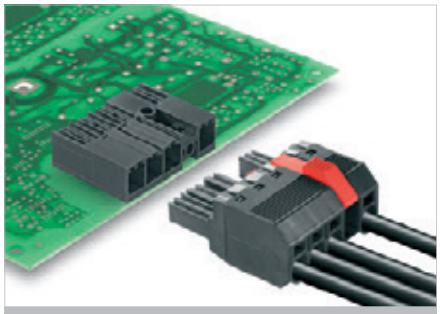
BVF 7.62HP/../180 - SVF 7.62HP/../180



BVF 7.62HP/../180 - SV 7.62HP/../270



BVF 7.62HP/../180MF



Female plug in 180° outlet direction with PUSH IN spring connection for TNC (S) systems. Meets the requirements of UL1059 for 600 V Use Group C. The mating profile ensures touch-safety of > 3 mm in accordance with IEC 61800-5-1.

Maximum operational reliability with a derating up to 125 °C, a mating profile that can only be plugged in correct, and unique coding capability.

- Middle flange available in positions 2, 3 and 4.

Product data

IEC: 1000 V / 41 A / 0.5 - 10 mm²
UL: 600 V / 35 A / AWG 24 - 8

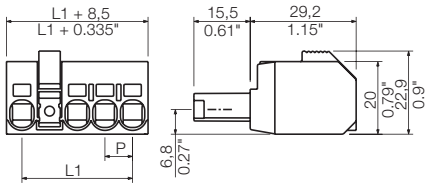
For additional articles and information, refer to catalog.weidmueller.com

Note:

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

BVF 7.62HP/../180MF2

Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm²	0.5...10		
Solid core H05(07) V-U	**mm²**	**0.5...10**		
Stranded H07 V-R				
Flexible H05(07) V-K	mm²	0.5...10		
Flexible with ferrule	mm²	1.5...6		
Ferrule with plastic collar	mm²	1.5...6		
Stripping length	mm	12		
Screwdriver blade	mm	0.8 x 4.5		
According to norm		DIN 5264		
Tightening torque range	Nm			
Rated current, max.	**A**	**41**		**41**
At ambient temperature		20°C		40°C
For conductor cross-section	mm²	6		
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	**V**	**800**	**1000**	**1000**
Rated impulse voltage	kV	8	8	6
UL / CUL (Use Group)		**B**	**C**	**D**
Rated voltage	**V**	**600**	**600**	**600**
Rated current	**A**	**35**	**35**	**5**
AWG conductor	**AWG**		**24-8**	
CSA (Use Group)		**B**	**C**	**D**
Rated voltage	V	600	600	600
Rated current	A	35	35	5
AWG conductor	AWG		24-8	
General data				
Type of insulation material		PA GF		
UL 94 flammability rating		V-0		
Contact base material		Copper alloy		
Material of contact surface		tinned		
Pin dimensions = d	mm			
Solder eyelet Ø = D	mm			
Solder eyelet Ø tolerance	mm			

Accessories

Note: Refer to the Accessories chapter for additional accessories.

Coding		Order No.
	BV/SV 7.62HP KO	**1937590000**
Strain relief		
	BV/SV 7.62HP/02 ZE GR	**1937550000**
	BV/SV 7.62HP/04 ZE GR	**1937560000**
Screwdriver		
	SDS 0.8X4.0X125	**9009020000**
Crimping tool		
	PZ 6/5	**9011460000**

Ordering data

Solder pin length

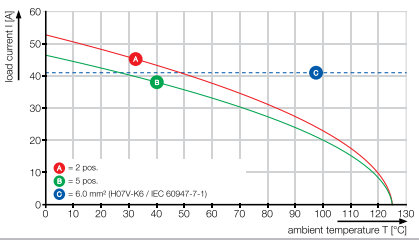
Colour **Black**

Pitch **7.62 mm**

Pol.	L1	(inch)	Qty.	Order No.
2	7.62	0.300	65	**1060550000**
3	15.24	0.600	50	**1060570000**

Representative deratings curve

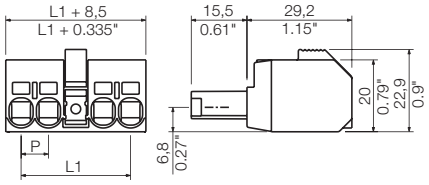
BVF 7.62HP/../180 - SV 7.62HP/../90



BVF 7.62HP/../180MF3



Dimensioned drawing

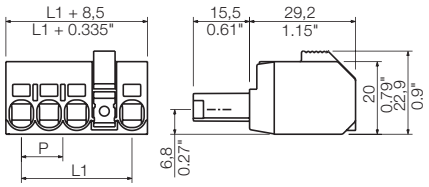


Ordering data

Solder pin length				
Colour				Black
Pitch	7.62 mm			
Pol.	L1	(inch)	Qty.	Order No.
3	15.24	0.600	50	1060580000
4	22.86	0.900	40	1060590000
5	30.48	1.200	30	1060600000

BVF 7.62HP/../180MF4

Dimensioned drawing

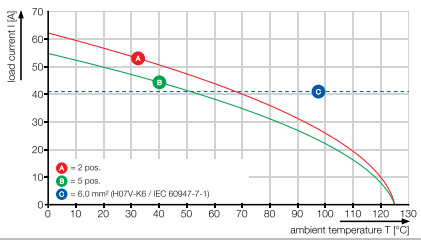


Ordering data

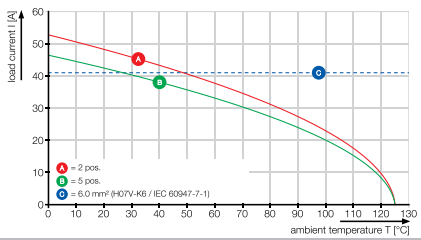
Solder pin length				
Colour				Black
Pitch	7.62 mm			
Pol.	L1	(inch)	Qty.	Order No.
5	30.48	1.200	30	1060610000

Additional deratings curves

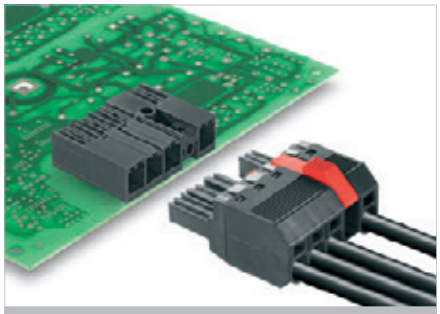
BVF 7.62HP/../180 - SVF 7.62HP/../180



BVF 7.62HP/../180 - SV 7.62HP/../270



BVF 7.62HP/../180MSF



Female plug in 180° outlet direction with PUSH IN spring connection for TNC (S) systems. Meets the requirements of UL1059 for 600 V Use Group C. The mating profile ensures touch-safety of > 3 mm in accordance with IEC 61800-5-1.

Maximum operational reliability with a derating up to 125 °C, a mating profile that can only be plugged in correct, and unique coding capability.

- Middle flange available in positions 2, 3 and 4.

Product data

IEC: 1000 V / 41 A / 0.5 - 10 mm²
UL: 600 V / 35 A / AWG 24 - 8

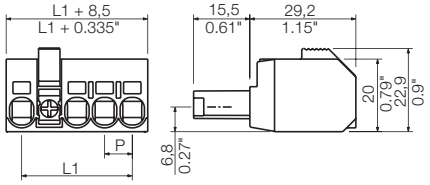
For additional articles and information, refer to catalog.weidmueller.com

Note:

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

BVF 7.62HP/../180MSF2

Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm²	0.5...10		
Solid core H05(07) V-U	**mm²**	**0.5...10**		
Stranded H07 V-R				
Flexible H05(07) V-K	mm²	0.5...10		
Flexible with ferrule	mm²	1.5...6		
Ferrule with plastic collar	mm²	1.5...6		
Stripping length	mm	12		
Screwdriver blade	mm	0.8 x 4.5		
According to norm		DIN 5264		
Tightening torque range	Nm			
Rated current, max.	**A**	**41**		**41**
At ambient temperature		20°C		40°C
For conductor cross-section	mm²	6		
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	**V**	**800**	**1000**	**1000**
Rated impulse voltage	kV	8	8	6
UL / CUL (Use Group)		**B**	**C**	**D**
Rated voltage	**V**	**600**	**600**	**600**
Rated current	**A**	**35**	**35**	**5**
AWG conductor	**AWG**		**24-8**	
CSA (Use Group)		**B**	**C**	**D**
Rated voltage	V	600	600	600
Rated current	A	35	35	5
AWG conductor	AWG		24-8	
General data				
Type of insulation material		PA GF		
UL 94 flammability rating		V-0		
Contact base material		Copper alloy		
Material of contact surface		tinned		
Pin dimensions = d	mm			
Solder eyelet Ø = D	mm			
Solder eyelet Ø tolerance	mm			

Accessories

Note: Refer to the Accessories chapter for additional accessories.

Coding		Order No.
	BV/SV 7.62HP KO	**1937590000**
Screwdriver		
	SDS 0.8X4.0X125	**9009020000**
Crimping tool		
	PZ 6/5	**9011460000**

Ordering data

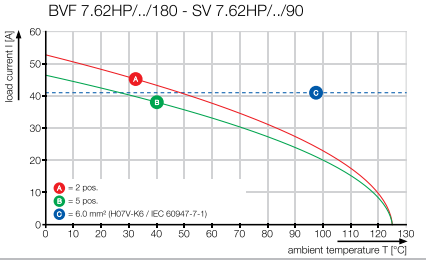
Solder pin length

Colour **Black**

Pitch 7.62 mm

Pol.	L1	(inch)	Qty.	Order No.
2	7.62	0.300	65	**1060630000**
3	15.24	0.600	50	**1060640000**

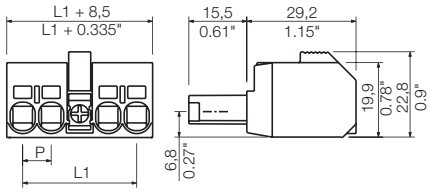
Representative deratings curve



BVF 7.62HP/../180MSF3



Dimensioned drawing

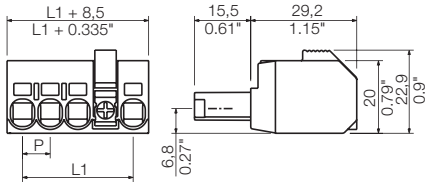


Ordering data

Solder pin length				
Colour				Black
Pitch 7.62 mm				
Pol.	L1	(inch)	Qty.	Order No.
3	15.24	0.600	50	1060650000
4	22.86	0.900	40	1060670000
5	30.48	1.200	30	1060680000

BVF 7.62HP/../180MSF4

Dimensioned drawing

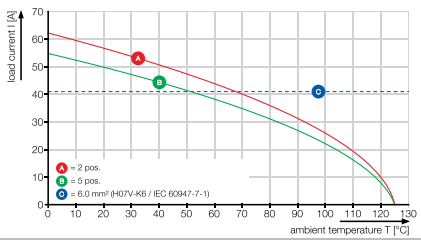


Ordering data

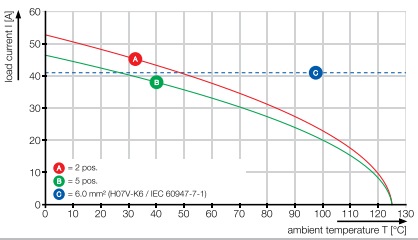
Solder pin length				
Colour				Black
Pitch 7.62 mm				
Pol.	L1	(inch)	Qty.	Order No.
5	30.48	1.200	30	1060690000

Additional deratings curves

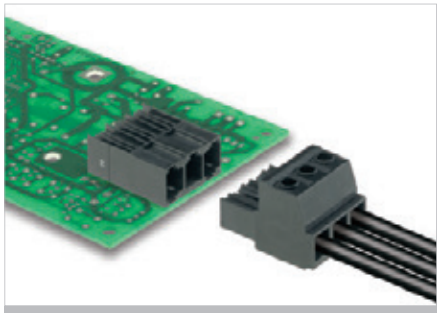
BVF 7.62HP/../180 - SVF 7.62HP/../180



BVF 7.62HP/../180 - SV 7.62HP/../270



BVL 7.62HP/../90



Touch-safe female header in 90° outlet direction. Meets the requirements of IEC 61800-5-1 and allows UL approval in accordance with UL508 / UL840 for 600 V. An ideal touch-safe solution for power output and DC-link applications. According to IEC 61800-5-1, the mating profile ensures more than 3 mm of touch safety.

Maximum operational reliability: with a derating up to 125 °C, a mating profile that can only be plugged in correct, and unique coding capability.

- Available with a flange (FI) and screw flange (SFI).

Product data

IEC: 1000 V / 41 A
UL: 300 V / 35 A

For additional articles and information, refer to catalog.weidmueller.com

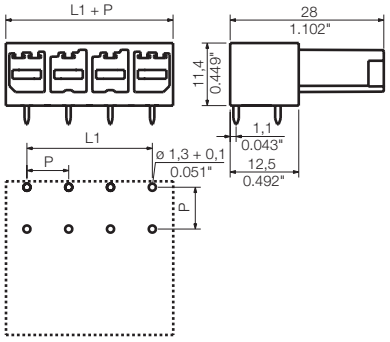
Note:

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

BVL 7.62HP/../90



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm²			
Solid core H05(07) V-U	**mm²**			
Stranded H07 V-R				
Flexible H05(07) V-K	mm²			
Flexible with ferrule	mm²			
Ferrule with plastic collar	mm²			
Stripping length	mm			
Screwdriver blade	mm			
According to norm				
Tightening torque range	Nm			
Rated current, max.	**A**	**41**		**41**
At ambient temperature		20°C		40°C
For conductor cross-section	mm²			
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	**V**	**630**	**630**	**1000**
Rated impulse voltage	kV	6	6	6
UL / CUL (Use Group)		**B**	**C**	**D**
Rated voltage	**V**	**300**	**300**	**600**
Rated current	**A**	**35**	**35**	**5**
AWG conductor	**AWG**		-	
CSA (Use Group)		**B**	**C**	**D**
Rated voltage	V	300	300	600
Rated current	A	35	35	5
AWG conductor	AWG		-	
General data				
Type of insulation material		PA GF		
UL 94 flammability rating		V-0		
Contact base material		Copper alloy		
Material of contact surface		tinned		
Pin dimensions = d	mm	0.8 x 1.0		
Solder eyelet Ø = D	mm	1.3		
Solder eyelet Ø tolerance	mm	+ 0,1		

Accessories

Note: Refer to the Accessories chapter for additional accessories.

Coding		Order No.
	BV/SV 7.62HP KO	1937590000

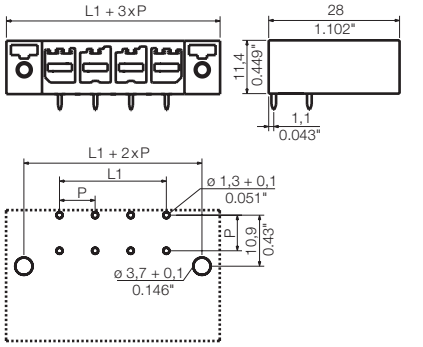
Ordering data

Solder pin length				3.5 mm
Colour				Black
Pitch	**7.62 mm**			
Pol.	**L1**	**(inch)**	**Qty.**	**Order No.**
2	7.62	0.300	100	1928280000
3	15.24	0.600	100	1928290000
4	22.86	0.900	100	1928300000
5	30.48	1.200	50	1928310000
6	38.10	1.500	50	1928320000
7	45.72	1.800	50	1928330000

BVL 7.62HP/../90FI



Dimensioned drawing



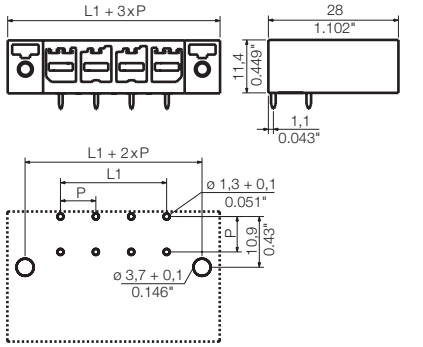
Ordering data

Solder pin length				3.5 mm
Colour				Black
Pitch	**7.62 mm**			
Pol.	L1	(inch)	**Qty.**	**Order No.**
2	7.62	0.300	100	**1928390000**
3	15.24	0.600	100	**1928400000**
4	22.86	0.900	100	**1928410000**
5	30.48	1.200	50	**1928420000**
6	38.10	1.500	50	**1928430000**
7	45.72	1.800	50	**1928440000**

BVL 7.62HP/../90SFI



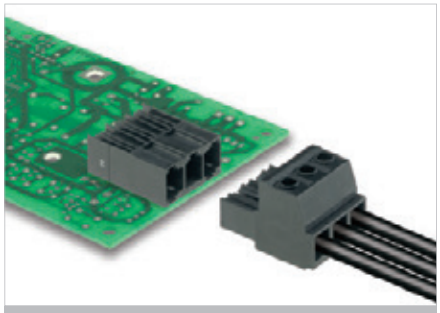
Dimensioned drawing



Ordering data

Solder pin length				3.5 mm
Colour				Black
Pitch	**7.62 mm**			
Pol.	L1	(inch)	**Qty.**	**Order No.**
2	7.62	0.300	100	**1928500000**
3	15.24	0.600	100	**1928510000**
4	22.86	0.900	100	**1928520000**
5	30.48	1.200	50	**1928530000**
6	38.10	1.500	50	**1928540000**
7	45.72	1.800	50	**1928550000**

BVL 7.62HP/../180



Touch-safe female header in 180° outlet direction. Meets the requirements of IEC 61800-5-1 and allows UL approval in accordance with UL508 / UL840 for 600 V. An ideal touch-safe solution for power output and DC-link applications. According to IEC 61800-5-1, the mating profile ensures more than 3 mm of touch safety.

Maximum operational reliability with a derating up to 125 °C, a mating profile that can only be plugged in correct, and unique coding capability.

- Available with a flange (FI) and screw flange (SFI).

Product data

IEC: 1000 V / 41 A
UL: 300 V / 35 A

For additional articles and information, refer to catalog.weidmueller.com

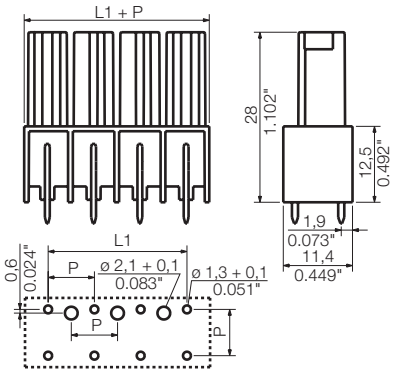
Note:

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

BVL 7.62HP/../180



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm²			
Solid core H05(07) V-U	**mm²**			
Stranded H07 V-R				
Flexible H05(07) V-K	mm²			
Flexible with ferrule	mm²			
Ferrule with plastic collar	mm²			
Stripping length	mm			
Screwdriver blade	mm			
According to norm				
Tightening torque range	Nm			
Rated current, max.	**A**	**41**		**41**
At ambient temperature		20°C		40°C
For conductor cross-section	mm²			
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	**V**	**630**	**630**	**1000**
Rated impulse voltage	kV	6	6	6
UL / CUL (Use Group)		**B**	**C**	**D**
Rated voltage	**V**	**300**	**300**	**600**
Rated current	**A**	**35**	**35**	**5**
AWG conductor	**AWG**		-	
CSA (Use Group)		**B**	**C**	**D**
Rated voltage	V	300	300	600
Rated current	A	35	35	5
AWG conductor	AWG		-	
General data				
Type of insulation material			PA GF	
UL 94 flammability rating			V-0	
Contact base material			Copper alloy	
Material of contact surface			tinned	
Pin dimensions = d	mm		0.8 x 1.0	
Solder eyelet Ø = D	mm		1.3	
Solder eyelet Ø tolerance	mm		+ 0,1	

Accessories

Note: Refer to the Accessories chapter for additional accessories.

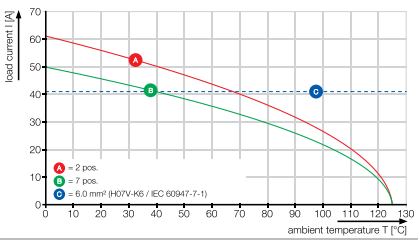
Coding		Order No.
	BV/SV 7.62HP KO	1937590000
Protection against twisting		
	VDS180 SV7.62	1853940000

Ordering data

Solder pin length				3.5 mm
Colour				Black
Pitch	**7.62 mm**			
Pol.	**L1**	**(inch)**	**Qty.**	**Order No.**
2	7.62	0.300	100	1928610000
3	15.24	0.600	100	1928620000
4	22.86	0.900	100	1928630000
5	30.48	1.200	50	1928650000
6	38.10	1.500	50	1928660000
7	45.72	1.800	50	1928670000

Representative deratings curve

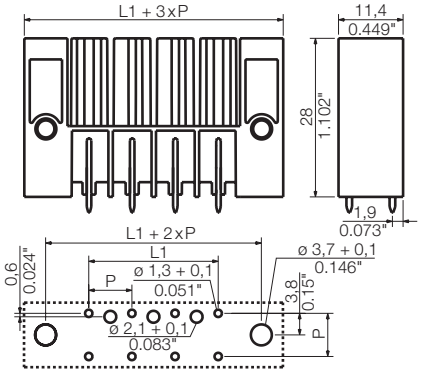
BVL 7.62HP/../180 - SVZ 7.62HP/../180



BVL 7.62HP/../180FI



Dimensioned drawing



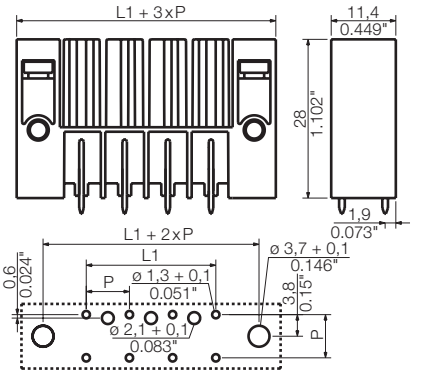
Ordering data

Solder pin length				3.5 mm
Colour				Black
Pitch	**7.62 mm**			
Pol.	**L1**	**(inch)**	**Qty.**	**Order No.**
2	7.62	0.300	100	**1928730000**
3	15.24	0.600	100	**1928740000**
4	22.86	0.900	100	**1928750000**
5	30.48	1.200	50	**1928760000**
6	38.10	1.500	50	**1928770000**
7	45.72	1.800	50	**1928780000**

BVL 7.62HP/../180SFI



Dimensioned drawing

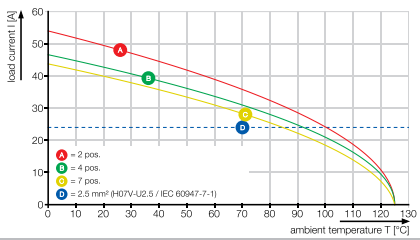


Ordering data

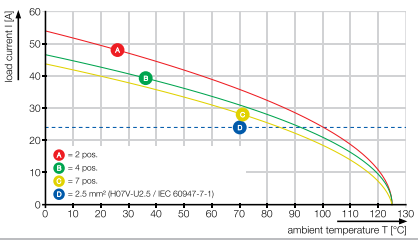
Solder pin length				3.5 mm
Colour				Black
Pitch	**7.62 mm**			
Pol.	**L1**	**(inch)**	**Qty.**	**Order No.**
2	7.62	0.300	100	**1928840000**
3	15.24	0.600	100	**1928850000**
4	22.86	0.900	100	**1928860000**
5	30.48	1.200	50	**1928870000**
6	38.10	1.500	50	**1928900000**
7	45.72	1.800	50	**1928910000**

Additional deratings curves

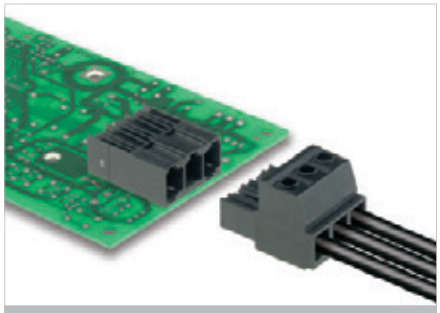
BVL 7.62HP/../180 - SV 7.62HP/../180



BVL 7.62HP/../180 - SV 7.62HP/../90



BVL 7.62HP/../270



Touch-safe female header in 270° outlet direction. Meets the requirements of IEC 61800-5-1 and allows UL approval in accordance with UL508 / UL840 for 600 V. An ideal touch-safe solution for power output and DC-link applications. According to IEC 61800-5-1, the mating profile ensures more than 3 mm of touch safety.

Maximum operational reliability: with a derating up to 125 °C, a mating profile that can only be plugged in correct, and unique coding capability.

- Available with a flange (FI) and screw flange (SFI).

Product data

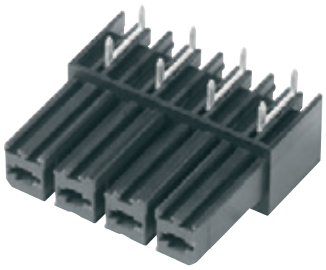
IEC: 1000 V / 41 A
UL: 300 V / 35 A

For additional articles and information, refer to catalog.weidmueller.com

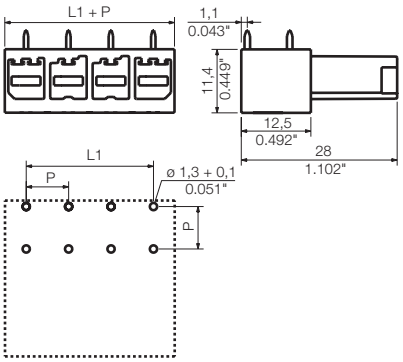
Note:

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

BVL 7.62HP/../270



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm²			
Solid core H05(07) V-U	**mm²**			
Stranded H07 V-R				
Flexible H05(07) V-K	mm²			
Flexible with ferrule	mm²			
Ferrule with plastic collar	mm²			
Stripping length	mm			
Screwdriver blade	mm			
According to norm				
Tightening torque range	Nm			
Rated current, max.	**A**	**41**		**41**
At ambient temperature		20°C		40°C
For conductor cross-section	mm²			
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	**V**	**630**	**630**	**1000**
Rated impulse voltage	kV	6	6	6
UL / CUL (Use Group)		**B**	**C**	**D**
Rated voltage	**V**	**300**	**300**	**600**
Rated current	**A**	**35**	**35**	**5**
AWG conductor	**AWG**		-	
CSA (Use Group)		**B**	**C**	**D**
Rated voltage	V	300	300	600
Rated current	A	35	35	5
AWG conductor	AWG		-	
General data				
Type of insulation material		PA GF		
UL 94 flammability rating		V-0		
Contact base material		Copper alloy		
Material of contact surface		tinned		
Pin dimensions = d	mm	0.8 x 1.0		
Solder eyelet Ø = D	mm	1.3		
Solder eyelet Ø tolerance	mm	+ 0,1		

Accessories

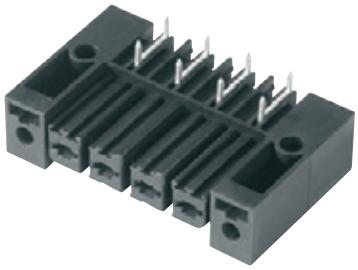
Note: Refer to the Accessories chapter for additional accessories.

Coding		Order No.
	BV/SV 7.62HP KO	1937590000

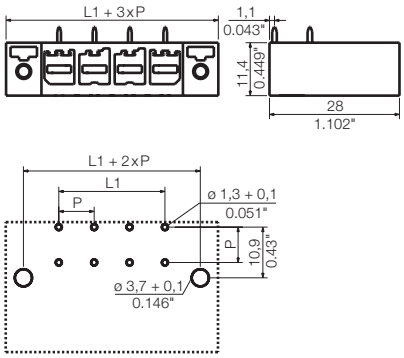
Ordering data

Solder pin length				3.5 mm
Colour				Black
Pitch	**7.62 mm**			
Pol.	**L1**	**(inch)**	**Qty.**	**Order No.**
2	7.62	0.300	100	1929300000
3	15.24	0.600	100	1929310000
4	22.86	0.900	100	1929320000
5	30.48	1.200	50	1929330000
6	38.10	1.500	50	1929340000
7	45.72	1.800	50	1929350000

BVL 7.62HP/../270FI



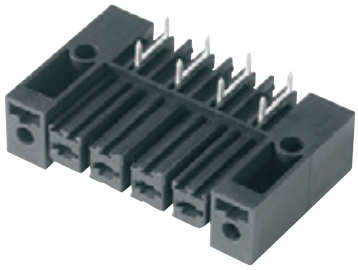
Dimensioned drawing



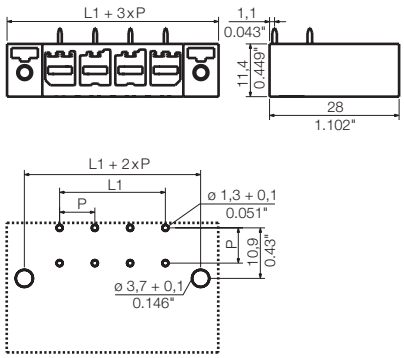
Ordering data

Solder pin length				3.5 mm
Colour				Black
Pitch	**7.62 mm**			
Pol.	L1	(inch)	**Qty.**	**Order No.**
2	7.62	0.300	100	**1929410000**
3	15.24	0.600	100	**1929420000**
4	22.86	0.900	100	**1929430000**
5	30.48	1.200	50	**1929440000**
6	38.10	1.500	50	**1929450000**
7	45.72	1.800	50	**1929460000**

BVL 7.62HP/../270SFI



Dimensioned drawing



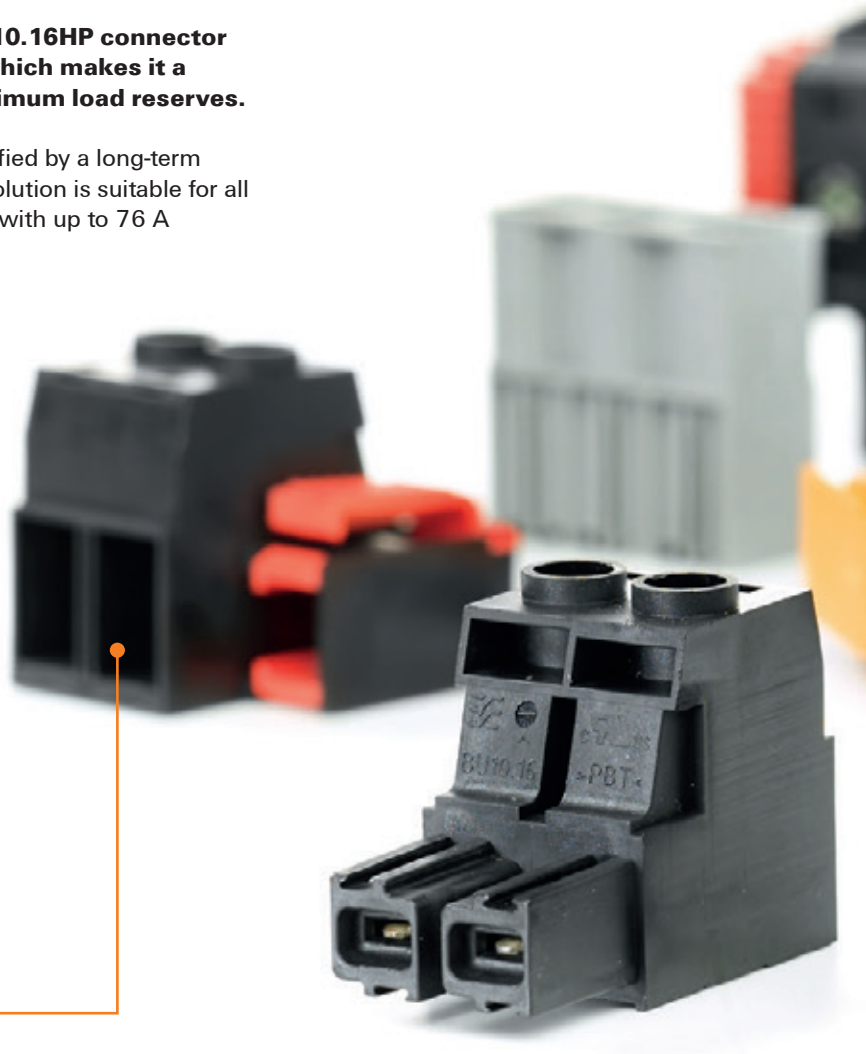
Ordering data

Solder pin length				3.5 mm
Colour				Black
Pitch	**7.62 mm**			
Pol.	L1	(inch)	**Qty.**	**Order No.**
2	7.62	0.300	100	**1929520000**
3	15.24	0.600	100	**1929530000**
4	22.86	0.900	100	**1929540000**
5	30.48	1.200	50	**1929550000**
6	38.10	1.500	50	**1929560000**
7	45.72	1.800	50	**1929570000**

Increased current for better performance

The top class in the OMNIMATE Power SU / BUZ 10.16HP connector system features a very durable contact system which makes it a pluggable power transmission solution with maximum load reserves.

HP stands for High Performance – performance exemplified by a long-term usage temperature of 120 °C. This custom, pluggable solution is suitable for all applications that must meet 600 V UL or 1,000 V (IEC) with up to 76 A (IEC) and 54 A (UL).

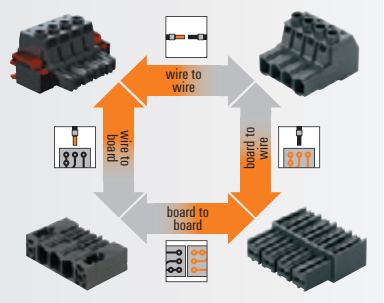


Compact reliability
Silver-plated contacts with stainless-steel top springs can tolerate short-circuit currents of 1,000 A for one second. Weidmüller´s classic clamping yoke features a plus-minus screw and is protected against under insertion. It ensures a long-term, reliable connection.

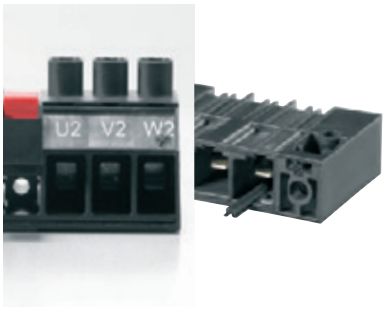




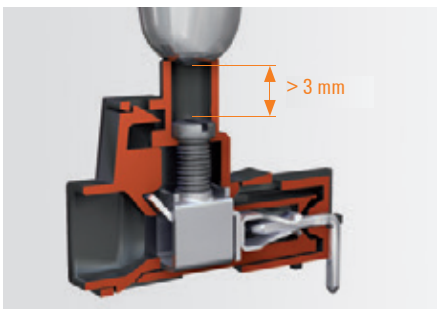
High system performance
The OMNIMATE Power System up to 16 mm² can be individually combined with plugging mates that have an interlocking flange. It is also possible for the plugging mate to be screwed on.



Individualised configuration
Clear printed labelling and customised coding are used to prevent damage that could be caused by installation mistakes.



Compact integration
No compromises during design and approval: compact and standard-compliant with additional + 3.0 mm finger safety, according to IEC 61800-5-1, and increased creepage and clearance distances according to UL.

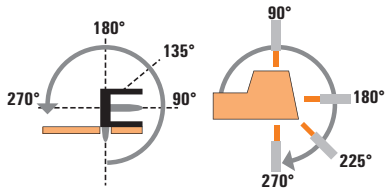


http://www.OMNIMATE.net

= Wire-to-Board
= Board-to-Board
= Wire-to-Wire
= Board-to-Wire



Orientation

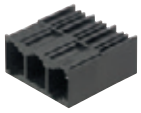


BU/SU 10.16 series

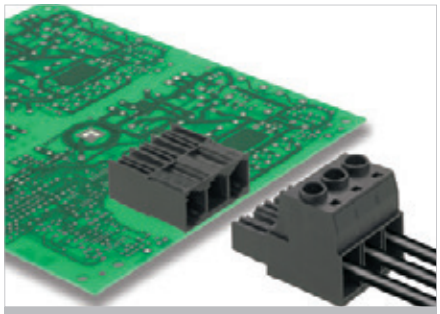
			Type	Orientation	Flange options	Product code numbers	Page
Female plug	Screw Clamping yoke		**BUZ**	180°	(G)/F/SF	IEC: 1.000 V/78 A/0.2 - 16 mm² UL: 600 V/54 A/AWG 22 - 6	F.88
Female header	Solder connection		**BUL**	180°	on request	IEC: 630 V/75 A	F.90

Female:
(G) = without flange
F = Interlock flange
SF = Interlock flange with screw

Pin:
G = Closed (without flange)
F = Interlock flange
SF = Interlock flange with nut

	Male header			Male plug
	Solder connection			Screw Clamping yoke
				
	SU	**SU**	**SU**	**SUZ**
	90°	180°	270°	180°
	G/F	G/F/SF	G/F/SF	G
	IEC: 1.000 V/76 A/ UL: 300 V/54 A	IEC: 1.000 V/76 A/ UL: 300 V/54 A	IEC: 1.000 V/76 A/ UL: 300 V/54 A	IEC: 1.000 V/78 A/ 0.2 - 16 mm² UL: 600 V/54 A/ AWG 24 - 6
	F.80	F.82	F.84	F.86
	○	○	○	●
	●	●	●	●

SU 10.16HP/../90



Male header in 90° outlet direction for TNC (S) systems. UL approved for 600 V in accordance with UL508 / UL840. The mating profile ensures touch-safety of more than 3 mm according to IEC 61800-5-1. Maximum operational reliability with a derating up to 125 °C, a mating profile that can only be plugged in correct and unique coding capability.

- Available with a flange (F) and screw flange (SF).

Product data

IEC: 1000 V / 76 A
UL: 300 V / 54 A

For additional articles and information, refer to catalog.weidmueller.com

Note:

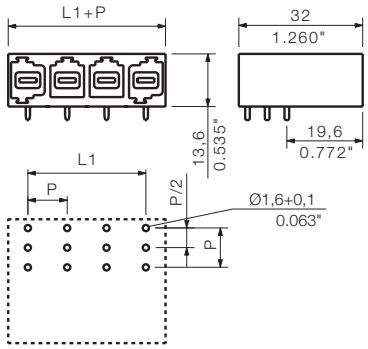
- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- The data given under CSA relates to a cUL approval - E60693
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

SU 10.16HP/../90G

without flanges



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm²			
Solid core H05(07) V-U	**mm²**			
Stranded H07 V-R				
Flexible H05(07) V-K	mm²			
Flexible with ferrule	mm²			
Ferrule with plastic collar	mm²			
Stripping length	mm			
Screwdriver blade	mm			
According to norm				
Tightening torque range	Nm			
Rated current, max.	**A**	**76**		**72**
At ambient temperature		20°C		40°C
For conductor cross-section	mm²			
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	**V**	**690**	**1000**	**1000**
Rated impulse voltage	kV	8	8	6
UL / CUL (Use Group)		**B**	**C**	**D**
Rated voltage	**V**	**300**	**300**	**600**
Rated current	**A**	**54**	**54**	**5**
AWG conductor	**AWG**		-	
CSA (Use Group)		**B**	**C**	**D**
Rated voltage	V	300	300	600
Rated current	A	54	54	5
AWG conductor	AWG		-	
General data				
Type of insulation material		PBT GF		
UL 94 flammability rating		V-0		
Contact base material		Copper alloy		
Material of contact surface		silver-plated		
Pin dimensions = d	mm	1.2 x 1.1		
Solder eyelet Ø = D	mm	1.6		
Solder eyelet Ø tolerance	mm	+ 0,1		

Accessories

Note: Refer to the Accessories chapter for additional accessories.

Coding		Order No.
	KO BV/SV7.62	1824410000

Ordering data

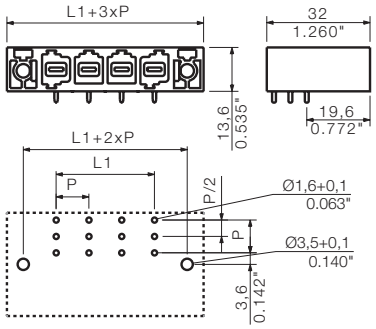
Solder pin length				3.5 mm
Colour				Black
Pitch	**10.16 mm**			
Pol.	**L1**	**(inch)**	**Qty.**	**Order No.**
2	10.16	0.400	50	1813330000
3	20.32	0.800	50	1813340000
4	30.48	1.200	50	1813350000
5	40.64	1.600	20	1813360000
6	50.80	2.000	20	1813370000
7	60.96	2.400	20	1813380000
8	71.12	2.800	20	1813390000
9	81.28	3.200	20	1813400000

SU 10.16HP/../90F

Interlock flanges



Dimensioned drawing



Ordering data

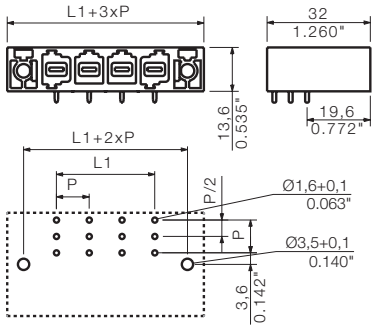
Solder pin length				3.5 mm
Colour				Black
Pitch	**10.16 mm**			
Pol.	L1	(inch)	**Qty.**	**Order No.**
2	10.16	0.400	50	**1813570000**
3	20.32	0.800	50	**1813580000**
4	30.48	1.200	50	**1813590000**
5	40.64	1.600	20	**1813600000**
6	50.80	2.000	20	**1813610000**
7	60.96	2.400	20	**1813620000**
8	71.12	2.800	20	**1813630000**
9	81.28	3.200	20	**1813640000**

SU 10.16HP/../90SF

Interlock flanges with nuts



Dimensioned drawing



Ordering data

Solder pin length				3.5 mm
Colour				Black
Pitch	**10.16 mm**			
Pol.	L1	(inch)	**Qty.**	**Order No.**
2	10.16	0.400	50	**1851040000**
3	20.32	0.800	50	**1851050000**
4	30.48	1.200	50	**1851060000**
5	40.64	1.600	20	**1851070000**
6	50.80	2.000	20	**1851080000**
7	60.96	2.400	20	**1851090000**
8	71.12	2.800	20	**1851100000**
9	81.28	3.200	20	**1851110000**

SU 10.16HP/../180



Male header in 180° outlet direction for TNC (S) systems. UL approved for 600 V in accordance with UL508 / UL840. The mating profile ensures touch-safety of more than 3 mm according to IEC 61800-5-1. Maximum operational reliability with a derating up to 125 °C, a mating profile that can only be plugged in correct and unique coding capability.

- Available with a flange (F) and screw flange (SF).

Product data

IEC: 1000 V / 74 A
UL: 300 V / 54 A

For additional articles and information, refer to catalog.weidmueller.com

Note:

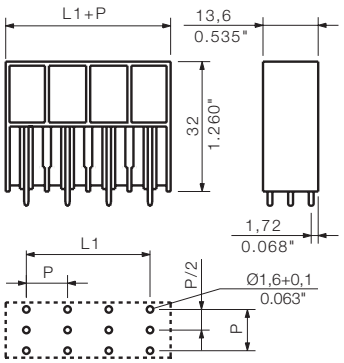
- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- The data given under CSA relates to a cUL approval - E60693
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

SU 10.16HP/../180G

without flanges



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm²			
Solid core H05(07) V-U	**mm²**			
Stranded H07 V-R				
Flexible H05(07) V-K	mm²			
Flexible with ferrule	mm²			
Ferrule with plastic collar	mm²			
Stripping length	mm			
Screwdriver blade	mm			
According to norm				
Tightening torque range	Nm			
Rated current, max.	**A**	**74**		**68**
At ambient temperature		20°C		40°C
For conductor cross-section	mm²			
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	**V**	**690**	**1000**	**1000**
Rated impulse voltage	kV	8	8	6
UL / CUL (Use Group)		**B**	**C**	**D**
Rated voltage	**V**	**300**	**300**	**600**
Rated current	**A**	**54**	**54**	**5**
AWG conductor	**AWG**		-	
CSA (Use Group)		**B**	**C**	**D**
Rated voltage	V	300	300	600
Rated current	A	54	54	5
AWG conductor	AWG		-	
General data				
Type of insulation material		PBT GF		
UL 94 flammability rating		V-0		
Contact base material		Copper alloy		
Material of contact surface		silver-plated		
Pin dimensions = d	mm	1.2 x 1.1		
Solder eyelet Ø = D	mm	1.6		
Solder eyelet Ø tolerance	mm	+ 0,1		

Accessories

Note: Refer to the Accessories chapter for additional accessories.

Protection against twisting		Order No.
	VDS180 SV7.62	**1853940000**
Coding		
	KO BV/SV7.62	**1824410000**

Ordering data

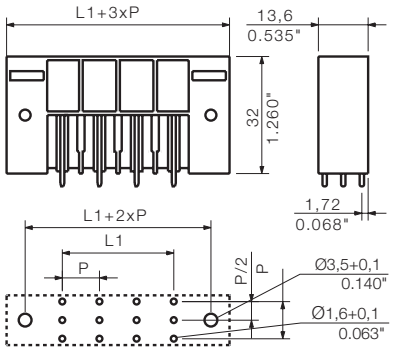
Solder pin length				3.5 mm
Colour				Black
Pitch	**10.16 mm**			
Pol.	L1	(inch)	Qty.	Order No.
2	10.16	0.400	50	**1813410000**
3	20.32	0.800	50	**1813420000**
4	30.48	1.200	50	**1813430000**
5	40.64	1.600	20	**1813440000**
6	50.80	2.000	20	**1813450000**
7	60.96	2.400	20	**1813460000**
8	71.12	2.800	20	**1813470000**
9	81.28	3.200	20	**1813480000**

SU 10.16HP/../180F

Interlock flanges



Dimensioned drawing



Ordering data

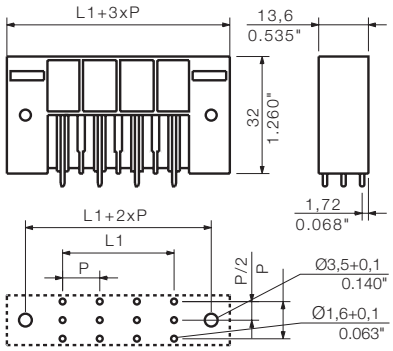
Solder pin length				3.5 mm
Colour				Black
Pitch	**10.16 mm**			
Pol.	L1	(inch)	**Qty.**	**Order No.**
2	10.16	0.400	50	**1813650000**
3	20.32	0.800	50	**1813660000**
4	30.48	1.200	50	**1813670000**
5	40.64	1.600	20	**1813680000**
6	50.80	2.000	20	**1813690000**
7	60.96	2.400	20	**1813700000**
8	71.12	2.800	20	**1813710000**
9	81.28	3.200	20	**1813720000**

SU 10.16HP/../180SF

Interlock flanges with nuts



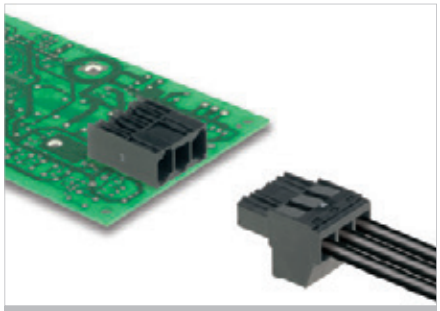
Dimensioned drawing



Ordering data

Solder pin length				3.5 mm
Colour				Black
Pitch	**10.16 mm**			
Pol.	L1	(inch)	**Qty.**	**Order No.**
2	10.16	0.400	50	**1850880000**
3	20.32	0.800	50	**1850890000**
4	30.48	1.200	50	**1850900000**
5	40.64	1.600	20	**1850910000**
6	50.80	2.000	20	**1850920000**
7	60.96	2.400	20	**1850930000**
8	71.12	2.800	20	**1850940000**
9	81.28	3.200	20	**1850950000**

SU 10.16HP/../270



Male header in 270° outlet direction for TNC (S) systems. UL approved for 600 V in accordance with UL508 / UL840. The mating profile ensures touch-safety of more than 3 mm according to IEC 61800-5-1. Maximum operational reliability with a derating up to 125 °C, a mating profile that can only be plugged in correct and unique coding capability.

- Available with a flange (F) and screw flange (SF).

Product data

IEC: 1000 V / 76 A
UL: 300 V / 54 A

For additional articles and information, refer to catalog.weidmueller.com

Note:

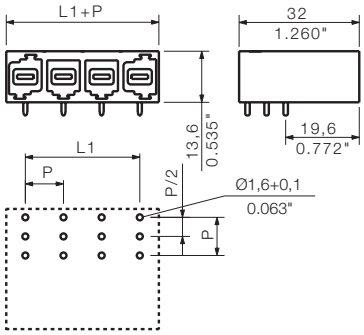
- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- The data given under CSA relates to a cUL approval - E60693
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

SU 10.16HP/../270G

without flanges



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm²			
Solid core H05(07) V-U	**mm²**			
Stranded H07 V-R				
Flexible H05(07) V-K	mm²			
Flexible with ferrule	mm²			
Ferrule with plastic collar	mm²			
Stripping length	mm			
Screwdriver blade	mm			
According to norm				
Tightening torque range	Nm			
Rated current, max.	**A**	**76**		**72**
At ambient temperature		20°C		40°C
For conductor cross-section	mm²			
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	**V**	**690**	**1000**	**1000**
Rated impulse voltage	kV	8	8	6
UL / CUL (Use Group)		**B**	**C**	**D**
Rated voltage	**V**	**300**	**300**	**600**
Rated current	**A**	**54**	**54**	**5**
AWG conductor	**AWG**		-	
CSA (Use Group)		**B**	**C**	**D**
Rated voltage	V	300	300	600
Rated current	A	54	54	5
AWG conductor	AWG		-	
General data				
Type of insulation material		PBT GF		
UL 94 flammability rating		V-0		
Contact base material		Copper alloy		
Material of contact surface		silver-plated		
Pin dimensions = d	mm	1.2 x 1.1		
Solder eyelet Ø = D	mm	1.6		
Solder eyelet Ø tolerance	mm	+ 0,1		

Accessories

Note: Refer to the Accessories chapter for additional accessories.

Coding		Order No.
	KO BV/SV7.62	**1824410000**

Ordering data

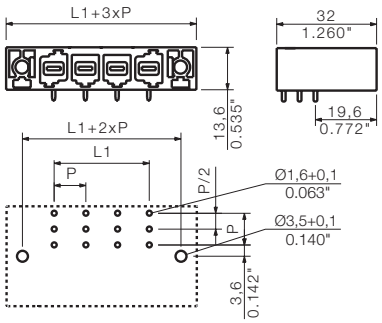
Solder pin length				3.5 mm
Colour				Black
Pitch	**10.16 mm**			
Pol.	L1	(inch)	**Qty.**	**Order No.**
2	10.16	0.400	50	**1813490000**
3	20.32	0.800	50	**1813500000**
4	30.48	1.200	50	**1813510000**
5	40.64	1.600	20	**1813520000**
6	50.80	2.000	20	**1813530000**
7	60.96	2.400	20	**1813540000**
8	71.12	2.800	20	**1813550000**
9	81.28	3.200	20	**1813560000**

SU 10.16HP/../270F

Interlock flanges



Dimensioned drawing



Ordering data

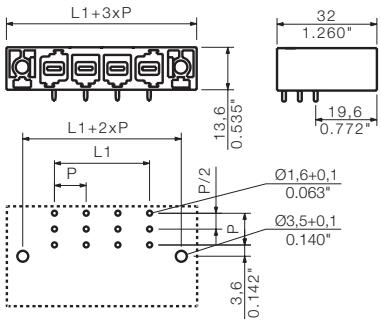
Solder pin length				3.5 mm
Colour				Black
Pitch	**10.16 mm**			
Pol.	L1	(inch)	**Qty.**	**Order No.**
2	10.16	0.400	50	**1813730000**
3	20.32	0.800	50	**1813740000**
4	30.48	1.200	50	**1813750000**
5	40.64	1.600	20	**1813760000**
6	50.80	2.000	20	**1813770000**
7	60.96	2.400	20	**1813780000**
8	71.12	2.800	20	**1813790000**
9	81.28	3.200	20	**1813800000**

SU 10.16HP/../270SF

Interlock flanges with nuts



Dimensioned drawing



Ordering data

Solder pin length				3.5 mm
Colour				Black
Pitch	**10.16 mm**			
Pol.	L1	(inch)	**Qty.**	**Order No.**
2	10.16	0.400	50	**1851120000**
3	20.32	0.800	50	**1851130000**
4	30.48	1.200	50	**1851140000**
5	40.64	1.600	20	**1851150000**
6	50.80	2.000	20	**1851160000**
7	60.96	2.400	20	**1851170000**
8	71.12	2.800	20	**1851180000**
9	81.28	3.200	20	**1851190000**

SUZ 10.16HP/../180



Male plug in 180° outlet direction with clamping yoke screw connection for TNC (S) systems.
Meets the requirements of UL1059 for 600 V Use Group C. The mating profile ensures touch safety of more than 3 mm according to IEC 61800-5-1 when connected.

Maximum operational reliability with a derating up to 125 °C, a mating profile that can only be plugged in correct and unique coding capbility.

- Available with a flange (F) and screw flange on request.

Product data

IEC: 1000 V / 78 A / 0.2 - 16 mm²
UL: 600 V / 54 A / AWG 24 - 6

For additional articles and information, refer to catalog.weidmueller.com

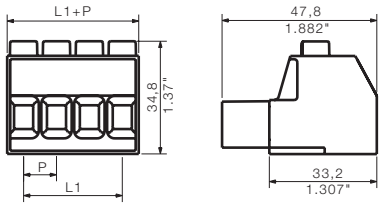
Note:

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

SUZ 10.16HP/../180G



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm²	0.2...16		
Solid core H05(07) V-U	**mm²**	**0.2...16**		
Stranded H07 V-R		6...16		
Flexible H05(07) V-K	mm²	0.5...16		
Flexible with ferrule	mm²	0.25...16		
Ferrule with plastic collar	mm²	0.25...10		
Stripping length	mm	12		
Screwdriver blade	mm	1.0 x 5.5		
According to norm		DIN 5264		
Tightening torque range	Nm	1.2...1.5		
Rated current, max.	**A**	**78**		**72**
At ambient temperature		20°C		40°C
For conductor cross-section	mm²	16		
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	**V**	**1000**	**1000**	**1000**
Rated impulse voltage	kV	8	8	6
UL / CUL (Use Group)		**B**	**C**	**D**
Rated voltage	**V**	**600**	**600**	**600**
Rated current	**A**	**54**	**54**	**5**
AWG conductor	**AWG**		**24-6**	
CSA (Use Group)		**B**	**C**	**D**
Rated voltage	V	600	600	600
Rated current	A	54	54	5
AWG conductor	AWG		24-6	
General data				
Type of insulation material		PA GF		
UL 94 flammability rating		V-0		
Contact base material		Copper alloy		
Material of contact surface		silver-plated		
Pin dimensions = d	mm			
Solder eyelet Ø = D	mm			
Solder eyelet Ø tolerance	mm			

Accessories

Note: Refer to the Accessories chapter for additional accessories.

Coding		Order No.
	KO BV/SV7.62	**1824410000**
Screwdriver		
	SDIS 1.0X5.5X125	**9008410000**
Crosshead screwdriver		
	SDIK PZ2	**9008890000**
	SDK PZ2	**9008540000**

Ordering data

Solder pin length

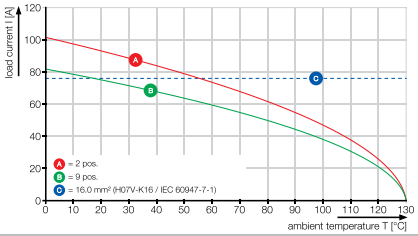
Colour **Black**

Pitch 10.16 mm

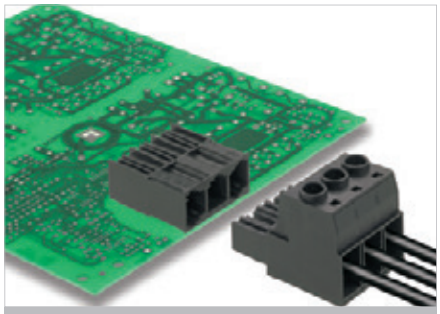
Pol.	L1	(inch)	Qty.	Order No.
2	10.16	0.400	50	**1947480000**
3	20.32	0.800	50	**1947490000**
4	30.48	1.200	50	**1947500000**
5	40.64	1.600	20	**1947510000**
6	50.80	2.000	20	**1966920000**
7	60.96	2.400	20	**1966930000**
8	71.12	2.800	20	**1962400000**
9	81.28	3.200	20	**1966910000**

Representative deratings curve

BUZ 10.16HP/../180 - SUZ 10.16HP/../180



BUZ 10.16HP/../180



Female plug in 180° outlet direction with clamping yoke screw connection for TNC (S) systems. Meets the requirements of UL1059 for 600 V Use Group C. Ensures touch-safety of > 3 mm in accordance with IEC 61800-5-1.
Maximum operational reliability with a derating up to 125 °C, a mating profile that can only be plugged in correct and unique coding capability.

- Available with a flange (F) and screw flange (SF).

Product data

IEC: 1000 V / 78 A / 0.2 - 16 mm²
UL: 600 V / 54 A / AWG 22 - 6

For additional articles and information, refer to catalog.weidmueller.com

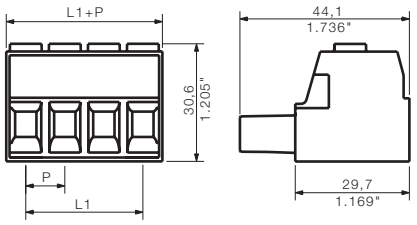
Note:

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

BUZ 10.16HP/../180



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm²	0.2...16		
Solid core H05(07) V-U	**mm²**	**0.2...16**		
Stranded H07 V-R		6...16		
Flexible H05(07) V-K	mm²	0.5...16		
Flexible with ferrule	mm²	0.25...16		
Ferrule with plastic collar	mm²	0.25...10		
Stripping length	mm	12		
Screwdriver blade	mm	1.0 x 5.5		
According to norm		DIN 5264		
Tightening torque range	Nm	1.2...1.5		
Rated current, max.	**A**	**78**		**72**
At ambient temperature		20°C		40°C
For conductor cross-section	mm²	16		
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	**V**	**1000**	**1000**	**1000**
Rated impulse voltage	kV	8	8	6
UL / CUL (Use Group)		**B**	**C**	**D**
Rated voltage	**V**	**600**	**600**	**600**
Rated current	**A**	**54**	**54**	**5**
AWG conductor	**AWG**		**22-6**	
CSA (Use Group)		**B**	**C**	**D**
Rated voltage	V	600	600	600
Rated current	A	54	54	5
AWG conductor	AWG		22-6	
General data				
Type of insulation material		PA GF		
UL 94 flammability rating		V-0		
Contact base material		Copper alloy		
Material of contact surface		silver-plated		
Pin dimensions = d	mm			
Solder eyelet Ø = D	mm			
Solder eyelet Ø tolerance	mm			

Accessories

Note: Refer to the Accessories chapter for additional accessories.

Coding		Order No.
	KO BV/SV7.62	**1824410000**
Screwdriver		
	SDIS 1.0X5.5X125	**9008410000**
Crosshead screwdriver		
	SDIK PZ2	**9008890000**
	SDK PZ2	**9008540000**

Ordering data

Solder pin length

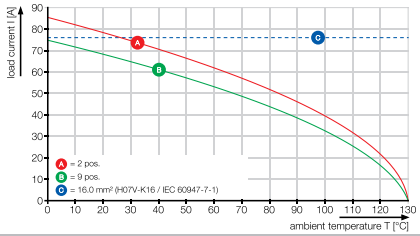
Colour **Black**

Pitch **10.16 mm**

Pol.	L1	(inch)	Qty.	Order No.
2	10.16	0.400	50	**1924540000**
3	20.32	0.800	50	**1924550000**
4	30.48	1.200	50	**1924560000**
5	40.64	1.600	20	**1924570000**
6	50.80	2.000	20	**1924580000**
7	60.96	2.400	20	**1924590000**
8	71.12	2.800	20	**1924600000**
9	81.28	3.200	20	**1924610000**

Representative deratings curve

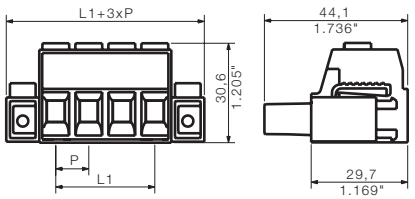
BUZ 10.16HP/../180 - SU 10.16HP/../90



BUZ 10.16HP/../180F



Dimensioned drawing



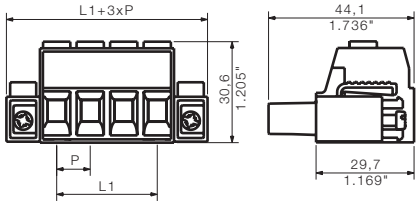
Ordering data

Solder pin length				
Colour				Black
Pitch	10.16 mm			
Pol.	L1	(inch)	Qty.	Order No.
2	10.16	0.400	50	1924620000
3	20.32	0.800	50	1924630000
4	30.48	1.200	20	1924640000
5	40.64	1.600	20	1924650000
6	50.80	2.000	20	1924660000
7	60.96	2.400	20	1924670000
8	71.12	2.800	20	1924680000
9	81.28	3.200	20	1924690000

BUZ 10.16HP/../180SF



Dimensioned drawing

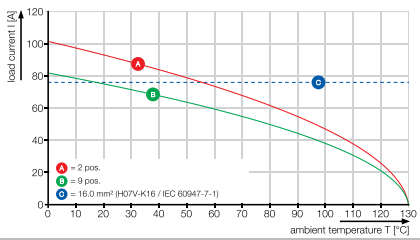


Ordering data

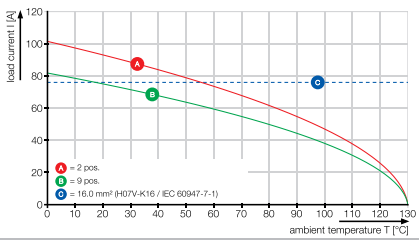
Solder pin length				
Colour				Black
Pitch	10.16 mm			
Pol.	L1	(inch)	Qty.	Order No.
2	10.16	0.400	50	1924700000
3	20.32	0.800	50	1924710000
4	30.48	1.200	20	1924720000
5	40.64	1.600	20	1924740000
6	50.80	2.000	20	1924750000
7	60.96	2.400	20	1924760000
8	71.12	2.800	20	1924770000
9	81.28	3.200	20	1924780000

Additional deratings curves

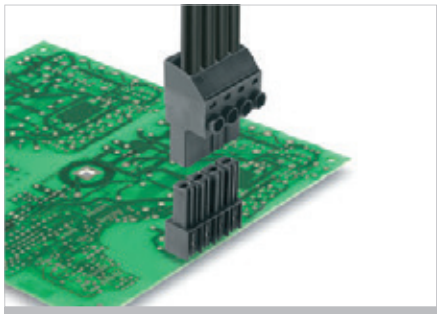
BUZ 10.16HP/../180 - SU 10.16HP/../180



BUZ 10.16HP/../180 - SUZ 10.16HP/../180



BUL 10.16HP/../180



Finger-safe female header with 180° outlet direction for PCBs. Meets the requirements of IEC 61800-5-1 and allows UL approval in accordance with UL508 / UL840 for 600 V. An ideal finger-safe solution for power output and DC-link applications. The pin arrangement is finger-safe. The assembly coding ensures that it cannot be assembled on the PCB turned through 180°.

Features:
- Derating up to 130 °C, 100 %
- Pin arrangement that prevents wrong connections or wrong wiring
- Unique coding diversity and assembly coding

Product data

IEC: 1000 V / 76 A
UL:

For additional articles and information, refer to catalog.weidmueller.com

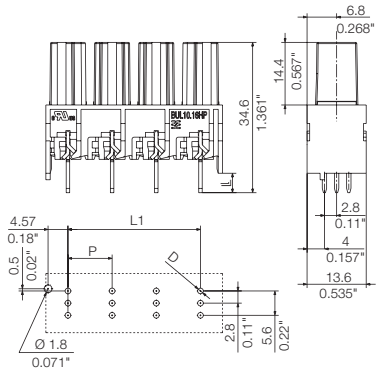
Note:
- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

BUL 10.16HP/../180

Without flange



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm²			
Solid core H05(07) V-U	**mm²**			
Stranded H07 V-R				
Flexible H05(07) V-K	mm²			
Flexible with ferrule	mm²			
Ferrule with plastic collar	mm²			
Stripping length	mm			
Screwdriver blade	mm			
According to norm				
Tightening torque range	Nm			
Rated current, max.	**A**	**76**		**69**
At ambient temperature		20°C		40°C
For conductor cross-section	mm²			
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	**V**	**630**	**630**	**1000**
Rated impulse voltage	kV	6	6	6
UL / CUL (Use Group)		**B**	**C**	**D**
Rated voltage	**V**			
Rated current	**A**			
AWG conductor	**AWG**		-	
CSA (Use Group)		**B**	**C**	**D**
Rated voltage	V			
Rated current	A			
AWG conductor	AWG		-	
General data				
Type of insulation material		PA GF		
UL 94 flammability rating		V-0		
Contact base material		Copper alloy		
Material of contact surface		silver-plated		
Pin dimensions = d	mm	0.8 x 1.0		
Solder eyelet Ø = D	mm	1.3		
Solder eyelet Ø tolerance	mm	+ 0,1		

Accessories

Note: Refer to the Accessories chapter for additional accessories.

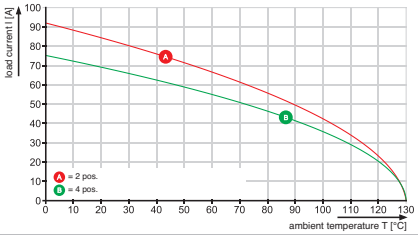
Coding		Order No.
	KO BV/SV7.62	**1824410000**

Ordering data

Solder pin length				4.5 mm
Colour				Black
Pitch	**10.16 mm**			
Pol.	L1	(inch)	Qty.	Order No.
2	10.16	0.400	50	**1289000000**
2	10.16	0.400	50	**1341270000**
4	10.16	0.400	50	**1289010000**

Representative deratings curve

BUL 10.16HP/../180 - SU 10.16HP/../180

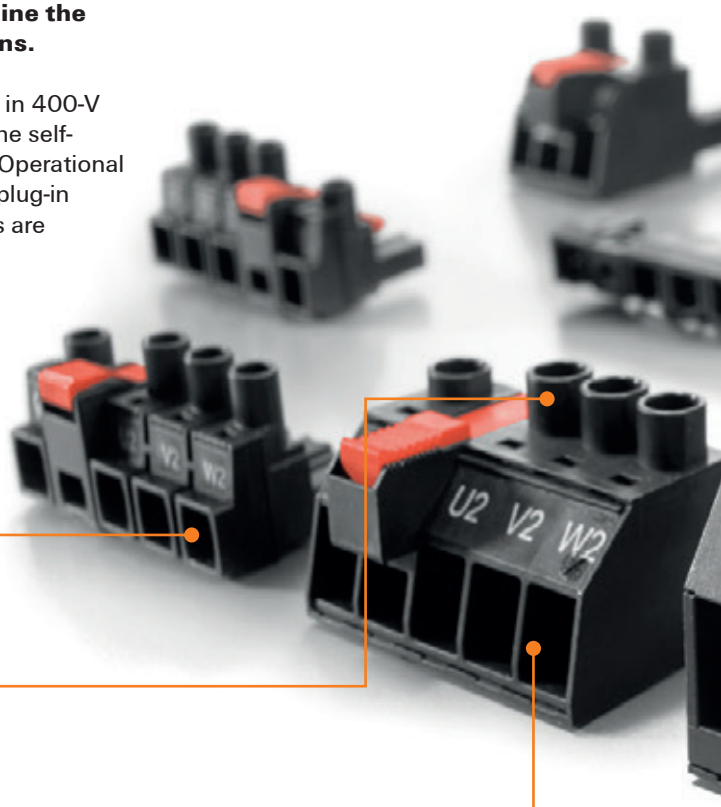


OMNIMATE Power for IT systems – scalable up to 50 kVA

Custom-fit solutions for special requirements

Increased compliance with standards and fewer compromises: OMNIMATE Power for IT systems establishes a new level of excellence with its standard integrated details. These attributes streamline the design-in and approval processes and result in safer operations.

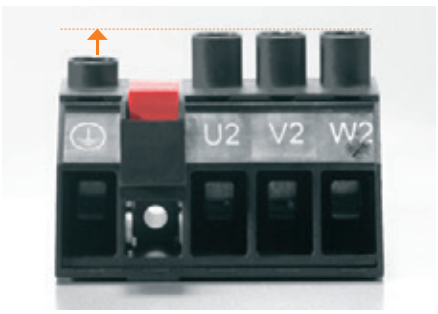
Results for the application and advantages for the user: unlimited use in 400-V IT systems and touch safety according to IEC 61800-5-1 (+ 5 mm). The self-snapping one-handed safety flange enables intuitive and safe usage. Operational reliability is guaranteed by the automatic interlock feature during the plug-in process. The application-oriented design means that no compromises are necessary during the approval process.



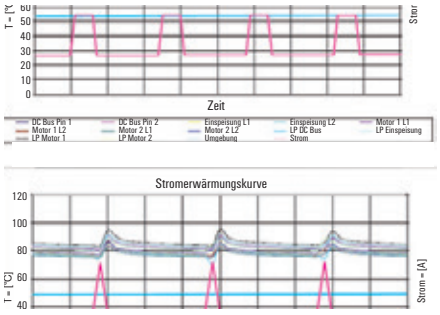
Uncompromised scalability
As much power as required, as little cost as needed: a device series for every power level and power type: scalable from 25 A/2.5 mm² to 41 A/6 mm² to 76 A/16 mm².



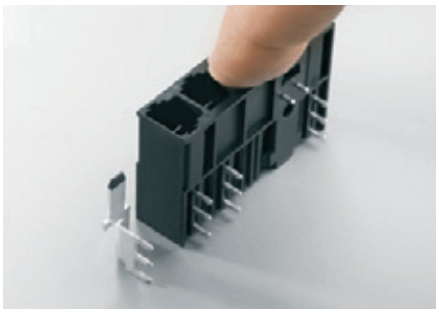
IEC 61800-5-1 approval
No additional measures or compromises in the system suitable, touch-safe certification according to IEC 61800-5-1:
+ 3.0 mm for 400 V TN systems,
+ 5.5 mm for 400 V IT networks.

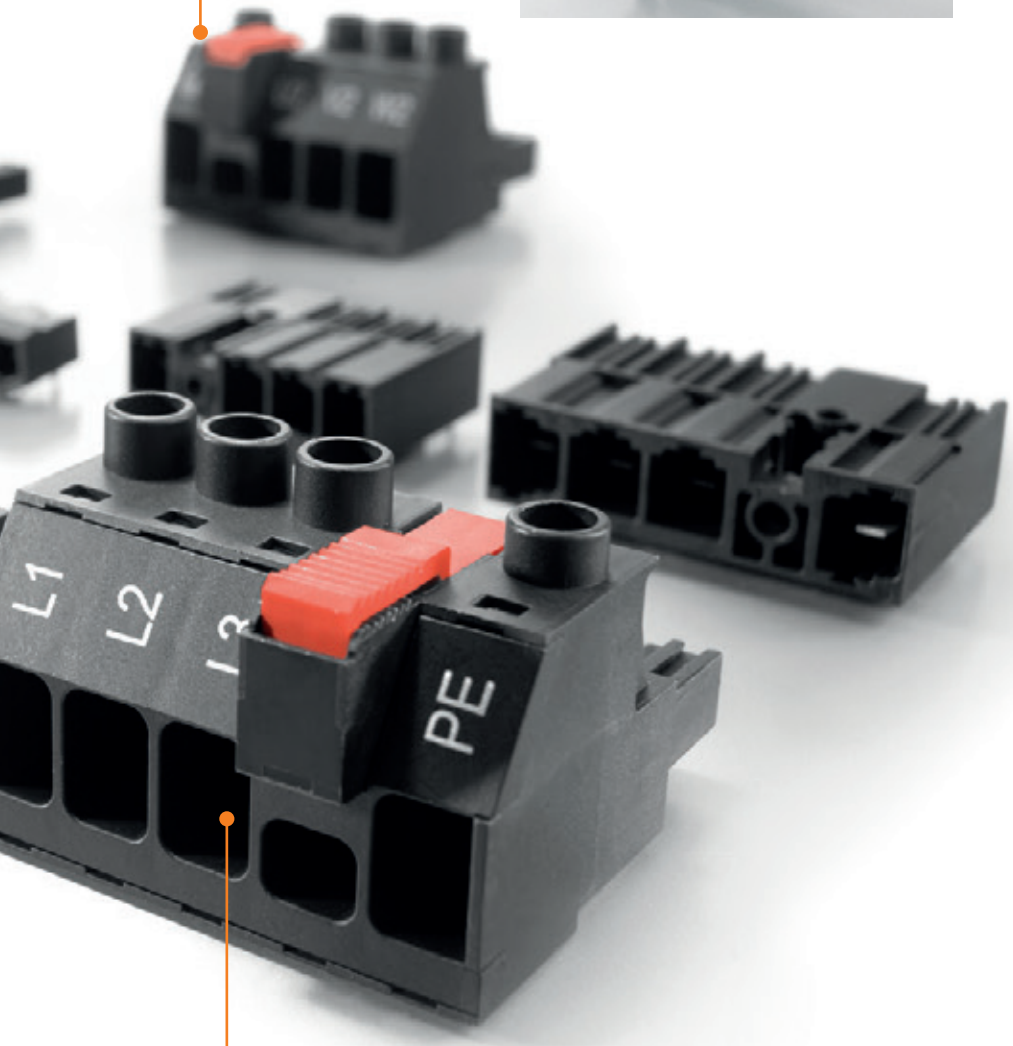


Uncompromised power capabilities
Uncompromised means high power reserves for superior overload capacity even under the high ambient temperatures of real-world applications.



Uncompromised safety
Details such as insulated contact tips that ensure the pin header is touch-safe and automatic snap-in for a secure interlocking connection.

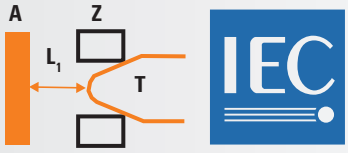




UL approval without compromise
No limitation for UL approval with 600-V applications: with optimised creepage and clearance distance even under difficult installation situations.

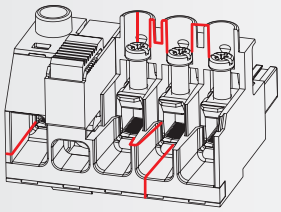
600 V
c UL us

Finger safety according to DIN EN 61800-5-1
Since the end of 2007, device approval according to IEC Directive "Adjustable speed electrical power drive systems – Part 5-1: Safety requirements" requires that – regardless of the line-to-earth voltage – an additional finger safety interval exists (for example, + 3 mm for 400 V-TN systems (wire-to-earth voltage = 230 V), or + 5.5 mm for 400-V IT systems (wire-to-earth voltage up to 400 V in event of error). An additional cover is required if the connection system, as a device section, does not fulfil these requirements. The OMNIMATE Power HP product line already complies with the stricter IEC requirements for additional touch protection.



IEC 61800-5-1:2007

Clearance and creepage distances, acc. to UL
A 600-V connector must have the approval of the UL 1059 component directive – but the potential installation situations must first be taken into consideration. This allows you to avoid making approval compromises – such as UL 508C or incorporating complex additions such as coatings or protective hoods. The OMNIMATE Power HP product line already complies with the UL requirements for 600-V creepage and clearance distances.

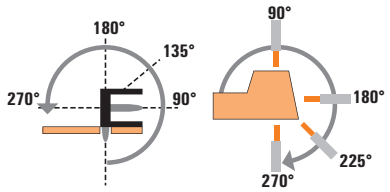


http://www.OMNIMATE.net

= Wire-to-Board
= Board-to-Board
= Wire-to-Wire
= Board-to-Wire



Orientation



Grids 7.62 mm



For IT networks

Type						SL	SL
Orientation						90°	90°
Flange options						MF2	MF3
Product code numbers						IEC: 800 V/24 A UL: 300 V/20 A	IEC: 800 V/24 A UL: 300 V/20 A
					Page	F.96	F.97
Female plug	Screw Clamping yoke		**BLZ**	180°	MF2	IEC: 800 V/24 A/0.08 - 4 mm² UL: 300 V/20 A/AWG 28 - 12	F.98	○ ●	
			**BLZ**	180°	MF3	IEC: 800 V/24 A/0.08 - 4 mm² UL: 300 V/20 A/AWG 28 - 12	F.99		○ ●
			**BLZ**	180°	MF4	IEC: 800 V/24 A/0.08 - 4 mm² UL: 300 V/20 A/AWG 28 - 12	F.99		
			**BVZ**	180°	MF2	IEC: 1.000 V/41 A/0.2 - 6 mm² UL: 300 V/35 A/AWG 24 - 10	F.104		
			**BVZ**	180°	MF3	IEC: 1.000 V/41 A/0.2 - 6 mm² UL: 300 V/35 A/AWG 24 - 10	F.105		
			**BVZ**	180°	MF4	IEC: 1.000 V/41 A/0.2 - 6 mm² UL: 300 V/35 A/AWG 24 - 10	F.105		
			**BUZ**	180°	MF2	IEC: 1.000 V/76 A/0.2 - 16 mm² UL: 300 V/54 A/AWG 22 - 6	F.110		
			**BUZ**	180°	MF3	IEC: 1.000 V/76 A/0.2 - 16 mm² UL: 300 V/54 A/AWG 22 - 6	F.111		
			**BUZ**	180°	MF4	IEC: 1.000 V/76 A/0.2 - 16 mm² UL: 300 V/54 A/AWG 22 - 6	F.111		

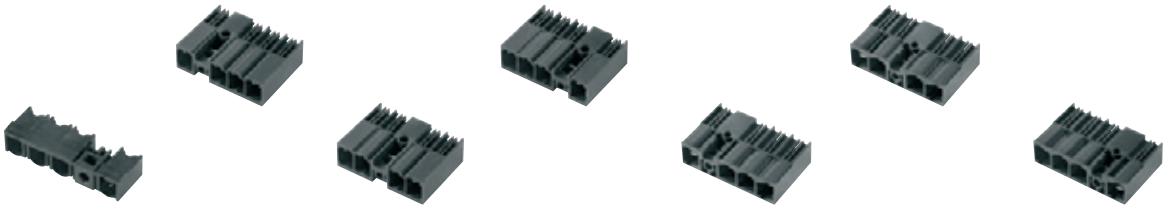
MF2 = Centre snap flange at position 2
MF3 = Centre snap flange at position 3
MF4 = Centre snap flange at position 4

Male header

Solder connection

Grids 7.62 mm

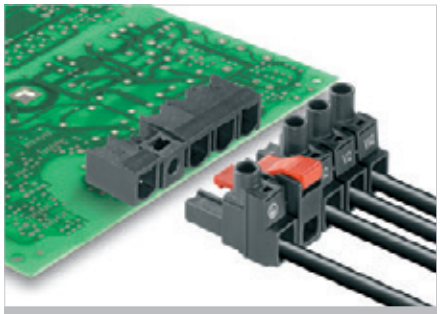
Grids 10.16 mm



	SL	SV	SV	SV	SU	SU	SU
	90°	90° / 270°	90° / 270°	90° / 270°	90° / 270°	90° / 270°	90° / 270°
	MF4	MF2	MF3	MF4	MF2	MF3	MF4
	IEC: 800 V/24 A UL: 300 V/20 A	IEC: 1.000 V/41 A UL: 300 V/35 A	IEC: 1.000 V/41 A UL: 300 V/35 A	IEC: 1.000 V/41 A UL: 300 V/35 A	IEC: 1.000 V/76 A UL: 300 V/54 A	IEC: 1.000 V/76 A UL: 300 V/54 A	IEC: 1.000 V/76 A UL: 300 V/54 A
	F.97	F.100	F.101	F.101	F.106	F.107	F.107
	○ ●						
		○ ●					
			○ ●				
				○ ●			
					○ ●		
						○ ●	
							○ ●

Connectors for IT systems in 7.62 mm pitch
Series BL/SL 7.62 IT – connects up to 4 mm²

SL 7.62IT/../90MF



Male header available in 90° outlet direction with a leading PE contact for IT networks. UL approval according to UL840 (600 V). Used together with the BLZ 7.62 IT female plug. It complies with the expanded requirements for 5.5 mm of touch protection (400 V relative to earth), according to IEC 61800-5-1. When no female plug is present, the mating profile ensures at least 1 mm of finger protection with a test finger pressure of 20N.

The middle flange interlock feature decreases the space required by one pole when compared to other solutions.

Available on request with screw flange mounting block or without flange.

Product data

IEC: 630 V / 29 A
UL: 300 V / 20 A

For additional articles and information, refer to catalog.weidmueller.com

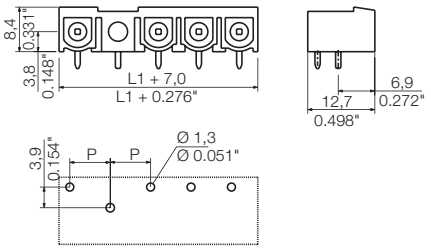
Note:

- Additional colours on request
- Gold-plated contact surfaces on request
- Rated current related to rated cross-section & min. No. of poles.
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

SL 7.62IT/../90MF2



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm²			
Solid core H05(07) V-U	**mm²**			
Stranded H07 V-R				
Flexible H05(07) V-K	mm²			
Flexible with ferrule	mm²			
Ferrule with plastic collar	mm²			
Stripping length	mm			
Screwdriver blade	mm			
According to norm				
Tightening torque range	Nm			
Rated current, max.	**A**	**29**		**25**
At ambient temperature		20°C		40°C
For conductor cross-section	mm²			
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	**V**	**400**	**500**	**630**
Rated impulse voltage	kV	6	6	6
UL / CUL (Use Group)		**B**	**C**	**D**
Rated voltage	**V**	**300**	**300**	**600**
Rated current	**A**	**20**	**20**	**5**
AWG conductor	**AWG**		-	
CSA (Use Group)		**B**	**C**	**D**
Rated voltage	V	300	300	600
Rated current	A	20	20	5
AWG conductor	AWG		-	
General data				
Type of insulation material		PBT GF		
UL 94 flammability rating		V-0		
Contact base material		Copper alloy		
Material of contact surface		tinned		
Pin dimensions = d	mm	1.0 x 1.0		
Solder eyelet Ø = D	mm	1.3		
Solder eyelet Ø tolerance	mm	+ 0,1		

Accessories

Note: Refer to the Accessories chapter for additional accessories.

Coding		Order No.
	BLZ/SL KO OR	1573010000
	BLZ/SL KO SW	1545710000

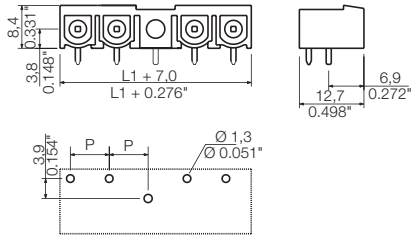
Ordering data

Solder pin length				3.2 mm
Colour				Black
Pitch	**7.62 mm**			
Pol.	**L1**	**(inch)**	**Qty.**	**Order No.**
2	15.24	0.600	100	1173610000
3	22.86	0.900	100	1173640000
4	30.48	1.200	100	1173730000

SL 7.62IT/../90MF3



Dimensioned drawing



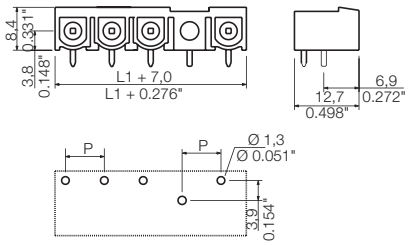
Ordering data

Solder pin length				3.2 mm
Colour				Black
Pitch	7.62 mm			
Pol.	L1	(inch)	Qty.	Order No.
3	22.86	0.900	100	1173690000

SL 7.62IT/../90MF4



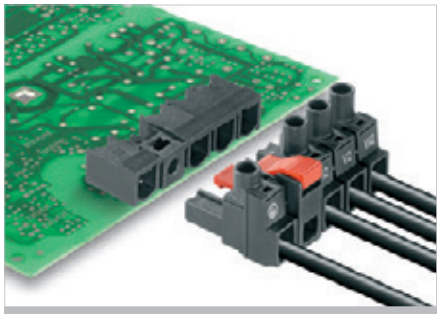
Dimensioned drawing



Ordering data

Solder pin length				3.2 mm
Colour				Black
Pitch	7.62 mm			
Pol.	L1	(inch)	Qty.	Order No.
4	30.48	1.200	100	1173770000

BLZ 7.62IT/../180MF



Female plug in 180° outlet direction for IT networks.
Fulfils the requirements of UL1059
600 V Class C. With a leading PE contact when used with SL 7.62 IT male header.
Fulfils the expanded requirements for 5.5 mm of touch protection (400 V relative to earth), according to IEC 61800-5-1.

The middle flange interlocks automatically and is optionally available with screw connection. It decreases the space required by one pole when compared to other solutions.

Available optionally without middle flange interlock.

Product data

IEC: 630 V / 29 A / 0.08 - 4 mm²
UL: 600 V / 20 A / AWG 20 - 12

For additional articles and information, refer to catalog.weidmueller.com

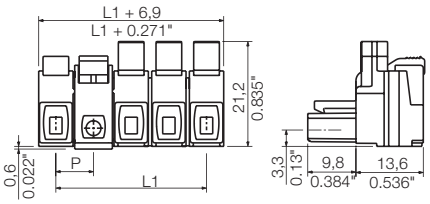
Note:

- Additional colours on request
- Gold-plated contact surfaces on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

BLZ 7.62IT/../180MF2



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm²	0.08...4		
Solid core H05(07) V-U	**mm²**	**0.08...4**		
Stranded H07 V-R				
Flexible H05(07) V-K	mm²	0.08...4		
Flexible with ferrule	mm²	0.2...2.5		
Ferrule with plastic collar	mm²	0.2...2.5		
Stripping length	mm	7		
Screwdriver blade	mm	0.6 x 3.5		
According to norm		DIN 5264		
Tightening torque range	Nm	0.4...0.5		
Rated current, max.	**A**	**29**		**25**
At ambient temperature		20°C		40°C
For conductor cross-section	mm²	2.5		
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	**V**	**400**	**500**	**630**
Rated impulse voltage	kV	6	6	4
UL / CUL (Use Group)		**B**	**C**	**D**
Rated voltage	**V**	**600**	**600**	**600**
Rated current	**A**	**20**	**20**	**5**
AWG conductor	**AWG**	**20-12**		
CSA (Use Group)		**B**	**C**	**D**
Rated voltage	V	600	600	600
Rated current	A	20	20	5
AWG conductor	AWG	20-12		
General data				
Type of insulation material		PBT		
UL 94 flammability rating		V-0		
Contact base material		Copper alloy		
Material of contact surface		tinned		
Pin dimensions = d	mm			
Solder eyelet Ø = D	mm			
Solder eyelet Ø tolerance	mm			

Accessories

Note: Refer to the Accessories chapter for additional accessories.

Coding		Order No.
	BLZ/SL KO OR	1573010000
	BLZ/SL KO SW	1545710000
Screwdriver		
	SDIS 0.6X3.5X100	9008390000
	SDS 0.6X3.5X100	9008330000

Ordering data

Solder pin length

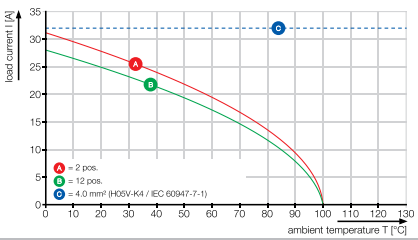
Colour **Black**

Pitch **7.62 mm**

Pol.	L1	(inch)	Qty.	Order No.
2	15.24	0.600	65	1173490000
3	22.86	0.900	50	1173500000
4	30.48	1.200	40	1173520000

Representative deratings curve

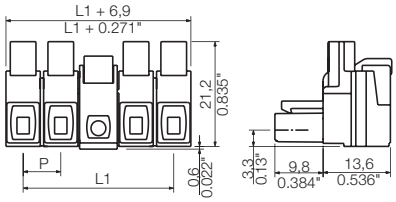
BLZ 7.62HP/../180 - SL 7.62HP/../90



BLZ 7.62IT/../180MF3



Dimensioned drawing



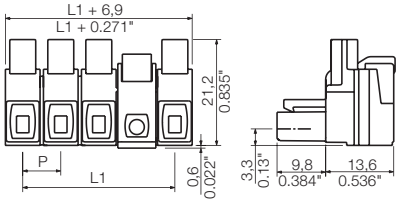
Ordering data

Solder pin length				
Colour				Black
Pitch	7.62 mm			
Pol.	L1	(inch)	Qty.	Order No.
3	22.86	0.900	50	1173510000

BLZ 7.62IT/../180MF4



Dimensioned drawing

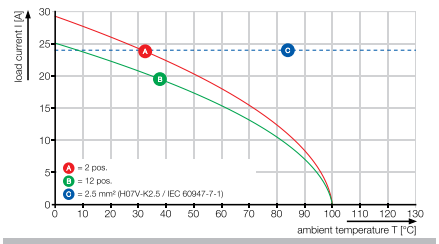


Ordering data

Solder pin length				
Colour				Black
Pitch	7.62 mm			
Pol.	L1	(inch)	Qty.	Order No.
4	30.48	1.200	40	1173530000

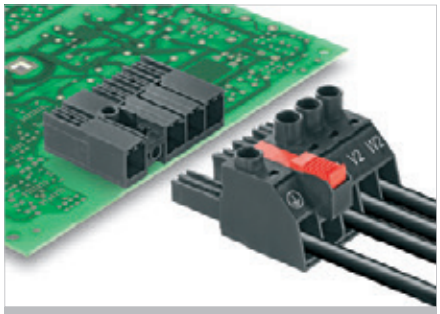
Additional deratings curves

BLZ 7.62HP/../180 - SL 7.62HP/../90



Connectors for IT systems in 7.62 mm pitch
Series BV/SV 7.62 IT – wire connection up to 6 mm²

SV 7.62IT/../90MF



Male header in 90° outlet direction with a leading PE contact for IT networks. UL approval according to UL840 for 600 V. Used together with a BVZ 7.62 IT female plug. It complies with the expanded requirements for 5.5 mm of touch protection (400 V relative to earth), according to IEC 61800-5-1. When no female plug is present, the mating profile ensures at least 1 mm of finger protection with a test finger pressure of 20N.

The middle flange interlock feature decreases the space required by one pole when compared to other solutions.

Available on request with screw flange mounting block or without flange.

Product data

IEC: 1000 V / 41 A
UL: 300 V / 35 A

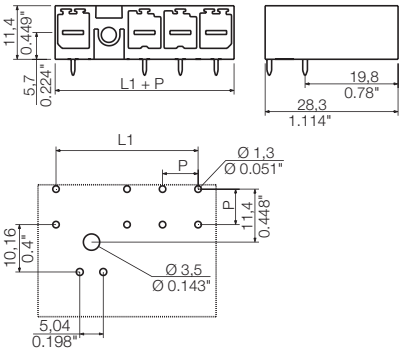
For additional articles and information, refer to catalog.weidmueller.com

Note:
- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

SV 7.62IT/../90MF2



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm²			
Solid core H05(07) V-U	**mm²**			
Stranded H07 V-R				
Flexible H05(07) V-K	mm²			
Flexible with ferrule	mm²			
Ferrule with plastic collar	mm²			
Stripping length	mm			
Screwdriver blade	mm			
According to norm				
Tightening torque range	Nm			
Rated current, max.	**A**	**41**		**41**
At ambient temperature		20°C		40°C
For conductor cross-section	mm²			
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	**V**	**630**	**630**	**1000**
Rated impulse voltage	kV	6	6	6
UL / CUL (Use Group)		**B**	**C**	**D**
Rated voltage	**V**	**300**	**300**	**600**
Rated current	**A**	**35**	**35**	**5**
AWG conductor	**AWG**		-	
CSA (Use Group)		**B**	**C**	**D**
Rated voltage	V	300	300	600
Rated current	A	35	35	5
AWG conductor	AWG		-	
General data				
Type of insulation material		PA GF		
UL 94 flammability rating		V-0		
Contact base material		Copper alloy		
Material of contact surface		tinned		
Pin dimensions = d	mm	0.8 x 1.0		
Solder eyelet Ø = D	mm	1.3		
Solder eyelet Ø tolerance	mm	+ 0,1		

Accessories

Note: Refer to the Accessories chapter for additional accessories.

Coding		Order No.
	BV/SV 7.62HP KO	**1937590000**
Mounting foot		
	BV/SV7.62HP MOFU GR	**1937600000**

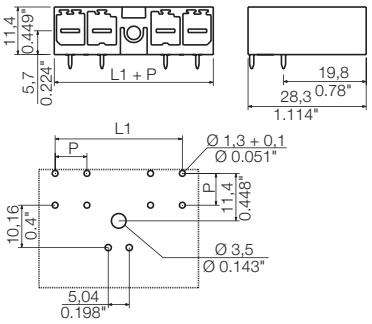
Ordering data

Solder pin length				3.5 mm
Colour				Black
Pitch	**7.62 mm**			
Pol.	L1	(inch)	**Qty.**	**Order No.**
2	15.24	0.600	78	**1156540000**
3	22.86	0.900	60	**1156550000**
4	30.48	1.200	48	**1156580000**

SV 7.62IT../90MF3



Dimensioned drawing



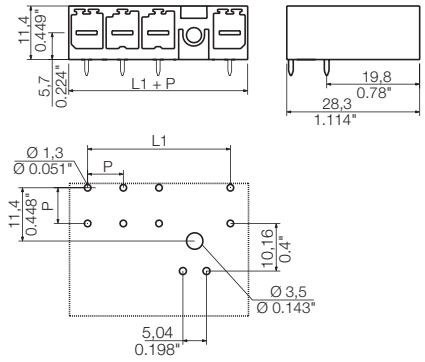
Ordering data

Solder pin length				3.5 mm
Colour				Black
Pitch	**7.62 mm**			
Pol.	L1	(inch)	**Qty.**	**Order No.**
3	22.86	0.900	60	**1156570000**

SV 7.62IT../90MF4



Dimensioned drawing

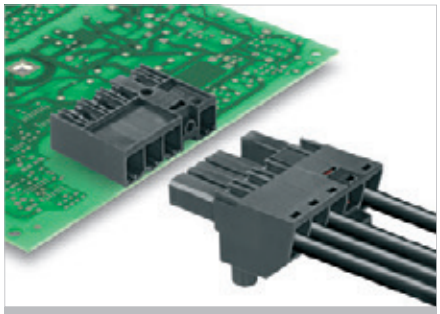


Ordering data

Solder pin length				3.5 mm
Colour				Black
Pitch	**7.62 mm**			
Pol.	L1	(inch)	**Qty.**	**Order No.**
4	30.48	1.200	48	**1156590000**

Connectors for IT systems in 7.62 mm pitch
Series BV/SV 7.62 IT – wire connection up to 6 mm²

SV 7.62IT/../270MF



Male header in 270° outlet direction with a leading PE contact for IT networks. UL approval according to UL840 for 600 V. Used together with a BLZ 7.62 IT female plug, it complies with the expanded requirements for 5.5 mm of touch protection (400 V relative to earth), according to IEC 61800-5-1. When no female header is present, the mating profile ensures at least 1 mm of finger protection with a test finger pressure of 20 N.

The middle flange interlock feature decreases the space required by one pole when compared to other solutions.

Available on request with screw flange mounting block or without flange.

Product data

IEC: 1000 V / 41 A
UL: 300 V / 35 A

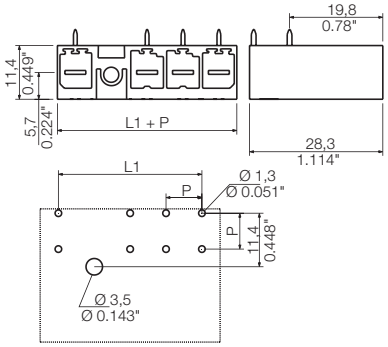
For additional articles and information, refer to catalog.weidmueller.com

Note:
- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

SV 7.62IT/../270MF2



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm²			
Solid core H05(07) V-U	**mm²**			
Stranded H07 V-R				
Flexible H05(07) V-K	mm²			
Flexible with ferrule	mm²			
Ferrule with plastic collar	mm²			
Stripping length	mm			
Screwdriver blade	mm			
According to norm				
Tightening torque range	Nm			
Rated current, max.	**A**	**41**		**41**
At ambient temperature		20°C		40°C
For conductor cross-section	mm²			
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	**V**	**630**	**630**	**1000**
Rated impulse voltage	kV	6	6	6
UL / CUL (Use Group)		**B**	**C**	**D**
Rated voltage	**V**	**300**	**300**	**600**
Rated current	**A**	**35**	**35**	**5**
AWG conductor	**AWG**		-	
CSA (Use Group)		**B**	**C**	**D**
Rated voltage	V	300	300	600
Rated current	A	35	35	5
AWG conductor	AWG		-	
General data				
Type of insulation material		PA GF		
UL 94 flammability rating		V-0		
Contact base material		Copper alloy		
Material of contact surface		tinned		
Pin dimensions = d	mm	0.8 x 1.0		
Solder eyelet Ø = D	mm	1.3		
Solder eyelet Ø tolerance	mm	+ 0,1		

Accessories

Note: Refer to the Accessories chapter for additional accessories.

Coding		Order No.
	BV/SV 7.62HP KO	**1937590000**
Mounting foot		
	BV/SV7.62HP MOFU GR	**1937600000**

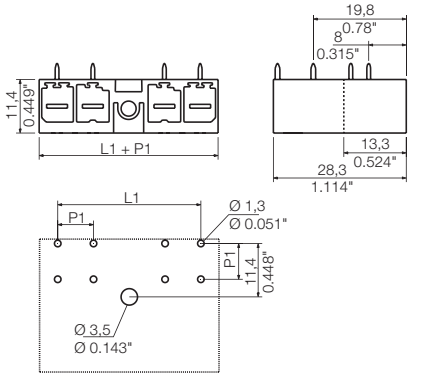
Ordering data

Solder pin length				**3.5 mm**
Colour				**Black**
Pitch	**7.62 mm**			
Pol.	L1	(inch)	**Qty.**	**Order No.**
2	15.24	0.600	78	**1156490000**
3	22.86	0.900	60	**1156500000**
4	30.48	1.200	48	**1156520000**

SV 7.62IT/../270MF3



Dimensioned drawing



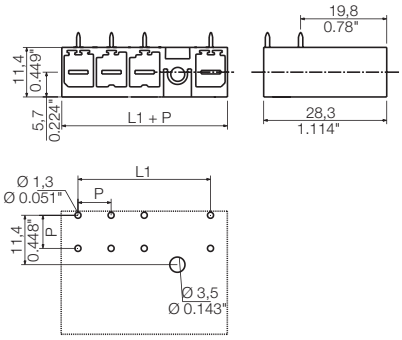
Ordering data

Solder pin length				3.5 mm
Colour				Black
Pitch	**7.62 mm**			
Pol.	L1	(inch)	**Qty.**	**Order No.**
3	22.86	0.900	60	**1156510000**

SV 7.62IT/../270MF4



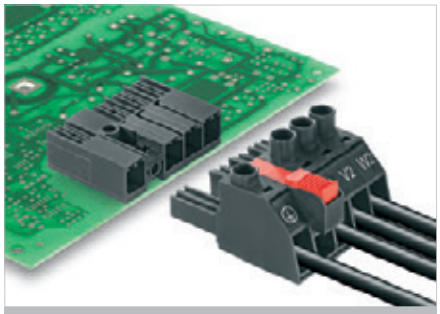
Dimensioned drawing



Ordering data

Solder pin length				3.5 mm
Colour				Black
Pitch	**7.62 mm**			
Pol.	L1	(inch)	**Qty.**	**Order No.**
4	30.48	1.200	48	**1156530000**

BVZ 7.62IT/../180MF



Female plug in 180° outlet direction for IT networks. Fulfils the requirements of UL1059 for 600 V Use Group C. With leading PE contact when used with SV 7.62 IT male header. Fulfils the expanded requirements for 5.5 mm of touch protection (400 V relative to earth), according to IEC 61800-5-1.

The middle flange interlocks automatically and is optionally available with screw connection. It decreases the space required by one pole when compared to other solutions.

Available optionally without middle flange interlock.

Product data

IEC: 1000 V / 41 A / 0.2 - 6 mm²
UL: 600 V / 35 A / AWG 24 - 10

For additional articles and information, refer to catalog.weidmueller.com

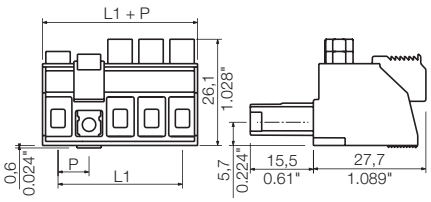
Note:

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

BVZ 7.62IT/../180MF2



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm²	0.2...6		
Solid core H05(07) V-U	**mm²**	**0.2...6**		
Stranded H07 V-R				
Flexible H05(07) V-K	mm²	0.5...6		
Flexible with ferrule	mm²	0.25...6		
Ferrule with plastic collar	mm²	0.25...6		
Stripping length	mm	12		
Screwdriver blade	mm	0.8 x 4.5		
According to norm		DIN 5264		
Tightening torque range	Nm	0.5...0.6		
Rated current, max.	**A**	**41**		**41**
At ambient temperature		20°C		40°C
For conductor cross-section	mm²	6		
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	**V**	**800**	**1000**	**1000**
Rated impulse voltage	kV	8	8	6
UL / CUL (Use Group)		**B**	**C**	**D**
Rated voltage	**V**	**600**	**600**	**600**
Rated current	**A**	**35**	**35**	**5**
AWG conductor	**AWG**		**24-10**	
CSA (Use Group)		**B**	**C**	**D**
Rated voltage	V	600	600	600
Rated current	A	35	35	5
AWG conductor	AWG		24-10	
General data				
Type of insulation material			PA GF	
UL 94 flammability rating			V-0	
Contact base material			Copper alloy	
Material of contact surface			tinned	
Pin dimensions = d	mm			
Solder eyelet Ø = D	mm			
Solder eyelet Ø tolerance	mm			

Accessories

Note: Refer to the Accessories chapter for additional accessories.

Coding		Order No.
	BV/SV 7.62HP KO	**1937590000**
Strain relief		
	BV/SV 7.62HP/02 ZE GR	**1937550000**
	BV/SV 7.62HP/04 ZE GR	**1937560000**
Screwdriver		
	SDS 0.8X4.0X125	**9009020000**
Crosshead screwdriver		
	SDK PH1	**9008480000**

Ordering data

Solder pin length

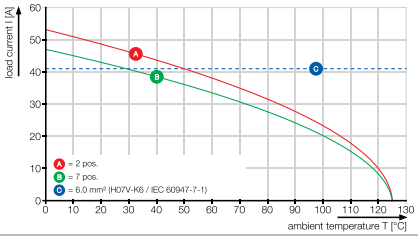
Colour **Black**

Pitch **7.62 mm**

Pol.	L1	(inch)	Qty.	Order No.
2	7.62	0.300	52	**1156710000**
3	15.24	0.600	40	**1156720000**
4	22.86	0.900	32	**1156740000**

Representative deratings curve

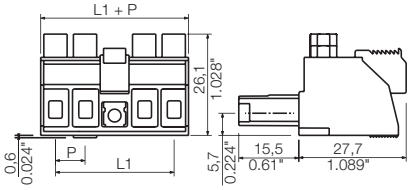
BVZ 7.62HP/../180 - SV 7.62HP/../180



BVZ 7.62IT/../180MF3



Dimensioned drawing



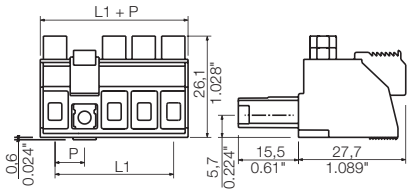
Ordering data

Solder pin length				
Colour				Black
Pitch	**7.62 mm**			
Pol.	L1	(inch)	**Qty.**	**Order No.**
3	15.24	0.600	40	**1156730000**

BVZ 7.62IT/../180MF4



Dimensioned drawing

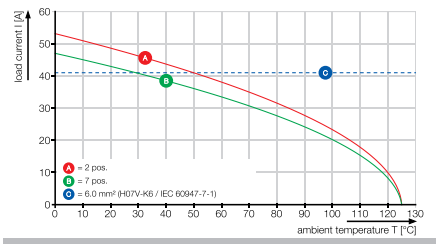


Ordering data

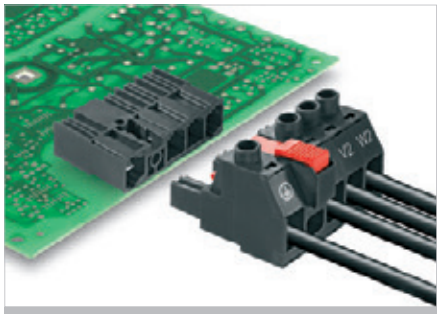
Solder pin length				
Colour				Black
Pitch	**7.62 mm**			
Pol.	L1	(inch)	**Qty.**	**Order No.**
4	22.86	0.900	32	**1156750000**

Additional deratings curves

BVZ 7.62HP/../180 - SV 7.62HP/../180



SU 10.16IT../90MF



Male header in 90 ° outlet direction with a leading PE contact for IT networks. UL approval according to UL840 for 600 V. Used together with a BUZ 10.16 IT female plug. It complies with the expanded requirements for 5.5 mm of touch protection (400 V relative to earth), according to IEC 61800-5-1. When no female plug is present, the mating profile ensures at least 1 mm of finger protection with a test finger pressure of 20 N.

The middle flange interlock feature decreases the space required by one pole when compared to other solutions.

Available on request with screw flange mounting block or without flange.

Product data

IEC: 1000 V / 76 A
UL: 300 V / 54 A

For additional articles and information, refer to catalog.weidmueller.com

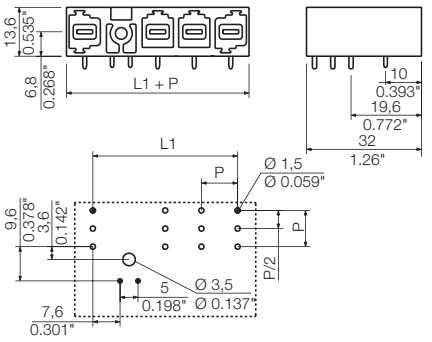
Note:

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

SU 10.16IT../90MF2



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm²			
Solid core H05(07) V-U	**mm²**			
Stranded H07 V-R				
Flexible H05(07) V-K	mm²			
Flexible with ferrule	mm²			
Ferrule with plastic collar	mm²			
Stripping length	mm			
Screwdriver blade	mm			
According to norm				
Tightening torque range	Nm			
Rated current, max.	**A**	**76**		**72**
At ambient temperature		20°C		40°C
For conductor cross-section	mm²			
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	**V**	**690**	**1000**	**1000**
Rated impulse voltage	kV	8	8	6
UL / CUL (Use Group)		**B**	**C**	**D**
Rated voltage	**V**	**300**	**300**	**600**
Rated current	**A**	**54**	**54**	**5**
AWG conductor	**AWG**		-	
CSA (Use Group)		**B**	**C**	**D**
Rated voltage	V	300	300	600
Rated current	A	54	54	5
AWG conductor	AWG		-	
General data				
Type of insulation material		PA GF		
UL 94 flammability rating		V-0		
Contact base material		Copper alloy		
Material of contact surface		silver-plated		
Pin dimensions = d	mm	1.2 x 1.1		
Solder eyelet Ø = D	mm	1.6		
Solder eyelet Ø tolerance	mm	+ 0,1		

Accessories

Note: Refer to the Accessories chapter for additional accessories.

Coding		Order No.
	KO BV/SV7.62	1824410000

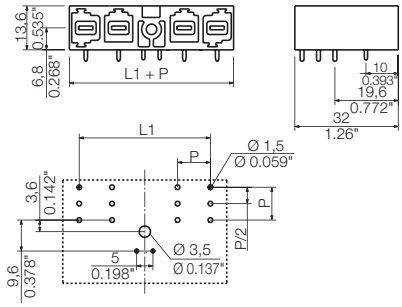
Ordering data

Solder pin length				3.5 mm
Colour				Black
Pitch	**10.16 mm**			
Pol.	L1	(inch)	**Qty.**	**Order No.**
2	20.32	0.800	60	**1156650000**
3	30.48	1.200	42	**1156670000**
4	40.64	1.600	36	**1156690000**

SU 10.16IT/../90MF3



Dimensioned drawing



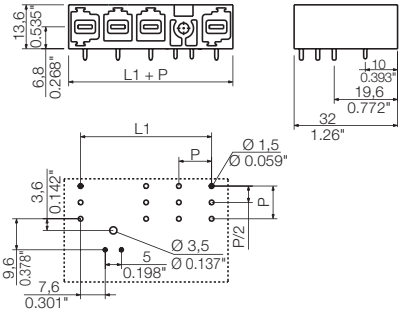
Ordering data

Solder pin length				3.5 mm
Colour				Black
Pitch	**10.16 mm**			
Pol.	L1	(inch)	**Qty.**	**Order No.**
3	30.48	1.200	42	**1156680000**

SU 10.16IT/../90MF4



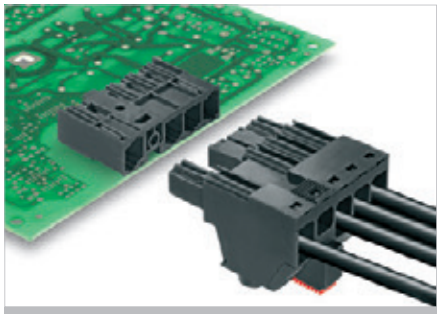
Dimensioned drawing



Ordering data

Solder pin length				3.5 mm
Colour				Black
Pitch	**10.16 mm**			
Pol.	L1	(inch)	**Qty.**	**Order No.**
4	40.64	1.600	36	**1156700000**

SU 10.16IT/../270MF



Male header in 270° outlet direction with a leading PE contact for IT networks. UL approval according to UL840 for 600 V. Used together with a BUZ 10.16 IT female plug. It complies with the expanded requirements for 5.5 mm of touch protection (400 V relative to earth), according to IEC 61800-5-1. When no female plug is present, the mating profile ensures at least 1 mm of finger prtection with a test finger pressure of 20 N.

The middle flange interlock feature decreases the space required by one pole when compared to other solutions.

Available on request with screw flange mounting block or without flange.

Product data

IEC: 1000 V / 76 A
UL: 300 V / 54 A

For additional articles and information, refer to catalog.weidmueller.com

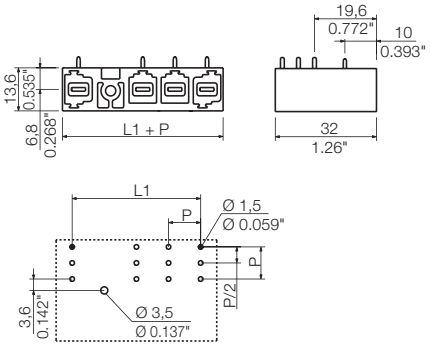
Note:

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

SU 10.16IT/../270MF2



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm²			
Solid core H05(07) V-U	**mm²**			
Stranded H07 V-R				
Flexible H05(07) V-K	mm²			
Flexible with ferrule	mm²			
Ferrule with plastic collar	mm²			
Stripping length	mm			
Screwdriver blade	mm			
According to norm				
Tightening torque range	Nm			
Rated current, max.	**A**	**76**		**72**
At ambient temperature		20°C		40°C
For conductor cross-section	mm²			
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	**V**	**690**	**1000**	**1000**
Rated impulse voltage	kV	8	8	6
UL / CUL (Use Group)		**B**	**C**	**D**
Rated voltage	**V**	**300**	**300**	**600**
Rated current	**A**	**54**	**54**	**5**
AWG conductor	**AWG**		-	
CSA (Use Group)		**B**	**C**	**D**
Rated voltage	V	300	300	600
Rated current	A	54	54	5
AWG conductor	AWG		-	
General data				
Type of insulation material		PA GF		
UL 94 flammability rating		V-0		
Contact base material		Copper alloy		
Material of contact surface		silver-plated		
Pin dimensions = d	mm	1.2 x 1.1		
Solder eyelet Ø = D	mm	1.6		
Solder eyelet Ø tolerance	mm	+ 0,1		

Accessories

Note: Refer to the Accessories chapter for additional accessories.

Coding		Order No.
	KO BV/SV7.62	1824410000

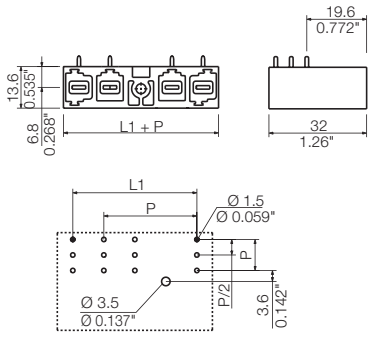
Ordering data

Solder pin length				3.5 mm
Colour				Black
Pitch	**10.16 mm**			
Pol.	L1	(inch)	**Qty.**	**Order No.**
2	20.32	0.800	60	1157310000
3	30.48	1.200	42	1157320000
4	40.64	1.600	36	1157340000

SU 10.16IT/../270MF3



Dimensioned drawing



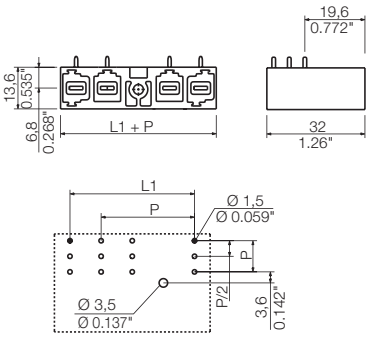
Ordering data

Solder pin length				3.5 mm
Colour				Black
Pitch	**10.16 mm**			
Pol.	L1	(inch)	**Qty.**	**Order No.**
3	30.48	1.200	42	**1157330000**

SU 10.16IT/../270MF4



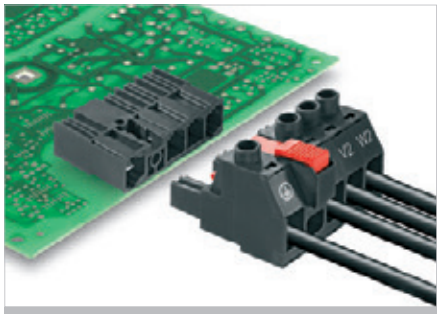
Dimensioned drawing



Ordering data

Solder pin length				3.5 mm
Colour				Black
Pitch	**10.16 mm**			
Pol.	L1	(inch)	**Qty.**	**Order No.**
4	40.64	1.600	36	**1157350000**

BUZ 10.16IT/../180MF



Female plug in 180° outlet direction for IT networks. Fulfils the requirements of UL1059 for 600 V Use Group C with leading PE contact when used with SU 10.16 IT male header. Fulfils the expanded requirements for 5.5 mm of touch protection (400 V relative to earth), according to IEC 61800-5-1.

The middle flange interlocks automatically and is optionally available with screw connection. It decreases the space required by one pole when compared to other solutions.

Available optionally without middle flange interlock.

Product data

IEC: 1000 V / 78 A / 0.2 - 16 mm²
UL: 300 V / 54 A / AWG 22 - 6

For additional articles and information, refer to catalog.weidmueller.com

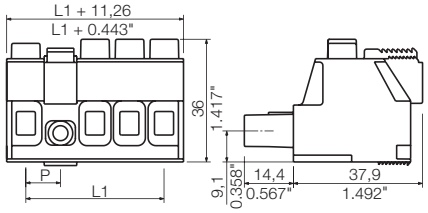
Note:

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

BUZ 10.16IT/../180MF2



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm²	0.2...16		
Solid core H05(07) V-U	**mm²**	**0.2...16**		
Stranded H07 V-R		6...16		
Flexible H05(07) V-K	mm²	0.5...16		
Flexible with ferrule	mm²	0.25...16		
Ferrule with plastic collar	mm²	0.25...10		
Stripping length	mm	12		
Screwdriver blade	mm	1.0 x 5.5		
According to norm		DIN 5264		
Tightening torque range	Nm	1.2...1.5		
Rated current, max.	**A**	**78**		**72**
At ambient temperature		20°C		40°C
For conductor cross-section	mm²	16		
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	**V**	**1000**	**1000**	**1000**
Rated impulse voltage	kV	8	8	6
UL / CUL (Use Group)		**B**	**C**	**D**
Rated voltage	**V**	**300**	**600**	**600**
Rated current	**A**	**54**	**54**	**5**
AWG conductor	**AWG**		**22-6**	
CSA (Use Group)		**B**	**C**	**D**
Rated voltage	V	300	600	600
Rated current	A	54	54	5
AWG conductor	AWG		22-6	
General data				
Type of insulation material		PA GF		
UL 94 flammability rating		V-0		
Contact base material		Copper alloy		
Material of contact surface		silver-plated		
Pin dimensions = d	mm			
Solder eyelet Ø = D	mm			
Solder eyelet Ø tolerance	mm			

Accessories

Note: Refer to the Accessories chapter for additional accessories.

Coding		Order No.
	KO BV/SV7.62	1824410000
Screwdriver		
	SDIS 1.0X5.5X125	9008410000
Crosshead screwdriver		
	SDIK PZ2	9008890000
	SDK PZ2	9008540000

Ordering data

Solder pin length

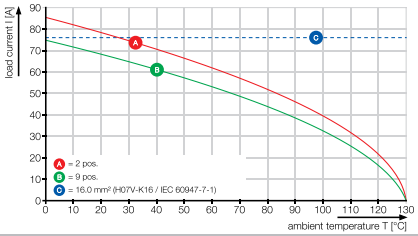
Colour **Black**

Pitch **10.16 mm**

Pol.	L1	(inch)	Qty.	Order No.
2	10.16	0.400	30	1156600000
3	20.32	0.800	21	1156610000
4	30.48	1.200	18	1156630000

Representative deratings curve

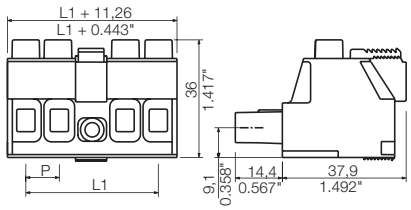
BUZ 10.16HP/../180 - SU 10.16HP/../90



BUZ 10.16IT/../180MF3



Dimensioned drawing



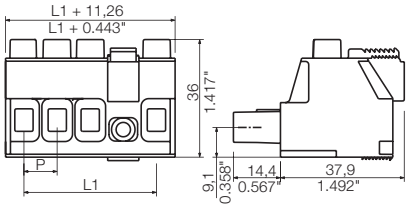
Ordering data

Solder pin length				
Colour				Black
Pitch	10.16 mm			
Pol.	L1	(inch)	Qty.	Order No.
3	20.32	0.800	21	1156620000

BUZ 10.16IT/../180MF4



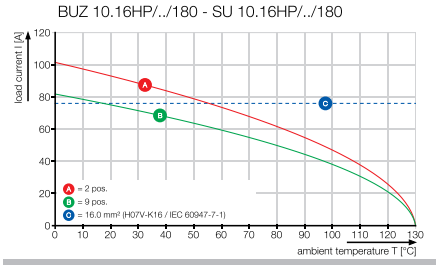
Dimensioned drawing



Ordering data

Solder pin length				
Colour				Black
Pitch	10.16 mm			
Pol.	L1	(inch)	Qty.	Order No.
4	30.48	1.200	18	1156640000

Additional deratings curves



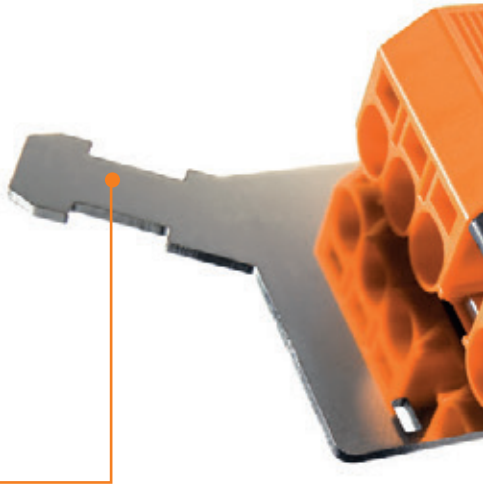
OMNIMATE Power BV / SV 7.62HP Hybrid – for power, signals and EMC

Three functions in one!

Power
Signal
Data

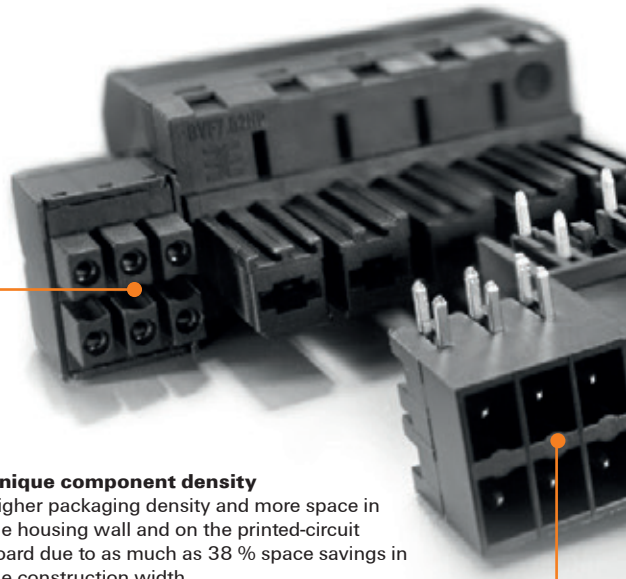
The OMNIMATE Power Hybrid connector provides developers and users with the perfect three-in-one solution.

The hybrid motor connector can simultaneously connect power, signals and a pluggable EMC shield. This allows you to save space on the circuit board, on the outside of the housing and in the electrical cabinet. The self-locking one-handed interlock mechanism requires only one plugging step and thus speeds up installation and maintenance procedures. It is easy to handle and interlocks automatically – even in difficult installation positions. The unique shielding shape with 30° cable entry enables a space savings of up to 10 cm between rows.

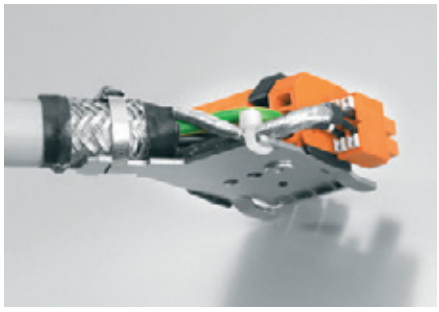


Unique safety
Safe, EMC-compliant shield connection for any application situation and with no risk of error.

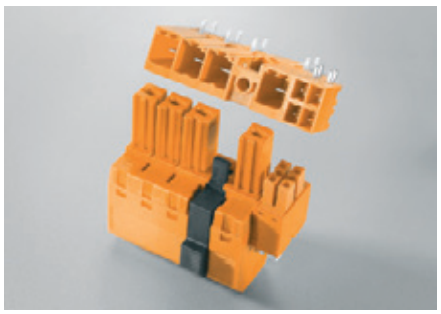




Unique integration
Three-in-one solution: pluggable shield support, integrated signal contacts, and one-handed security flange.

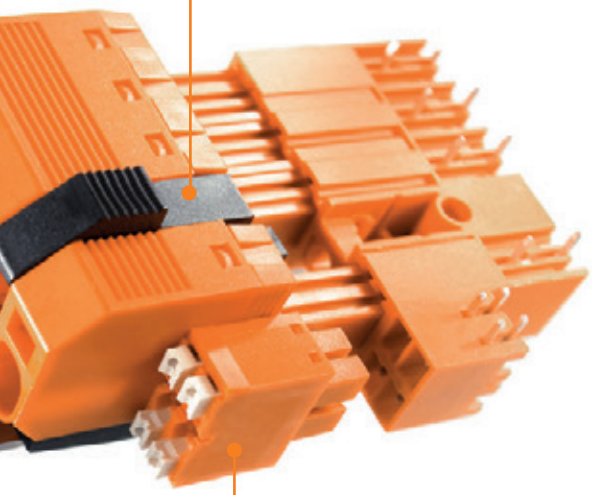


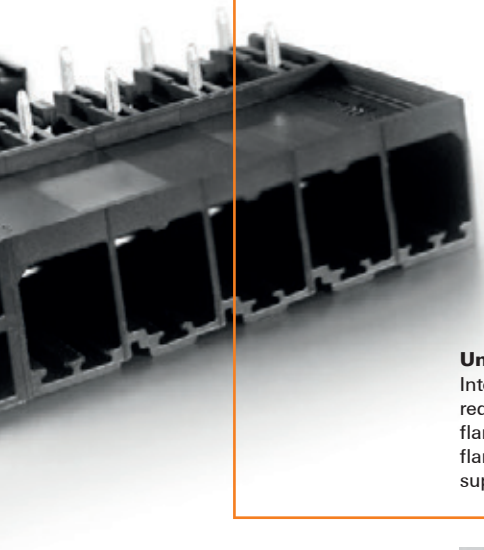
Unique component density
Higher packaging density and more space in the housing wall and on the printed-circuit board due to as much as 38 % space savings in the construction width.



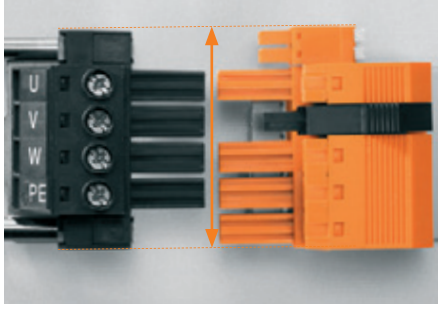
Unique interaction
Plug & Work with intuitive handling: featuring tool-free one-handed operation with automatic snap-in and also "blind" plugging of power, signals and shielding simultaneously.







Unique innovation
Integrating functions, optimising processes, and reducing complexity: The conventional 2 outer flanges have simply been replaced by 1 middle flange, 4 signal contacts and 1 pluggable shield support.

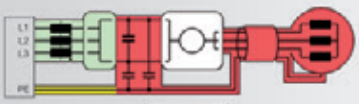


EMC in theory and in the real world
The motor feedback (signal feedback from temperature/encoder) in hybrid, shield-within-shield motor cables is usually made from over-sized power contacts or from disconnected I/O connectors. It also normally requires two separate shield connections. During installation and repairs (replacement), it is possible that the shield terminals could be incorrectly connected, left disconnected or lost. With conventional shielding, it can be quite difficult to tighten the flange screws when the connection is located at a difficult to reach location. So this step is often neglected in the real world.



Reliably avoiding interferences
As a result, malfunctions can then be caused by the coupling of electromagnetic fields within the sensitive electronics. The pluggable, hybrid shield support features a special EMC spring-contact strip which ensures that the shield connection to the housing is permanent, vibration-proof and covers a large surface area. It allows the shielding braid from the power and signal wires to be connected separately – and enables this to be done automatically in one step so that it is not dependent on the user.

Topology of parasitic currents



low parasitic currents

high parasitic currents

Source: Frauenhofer IZM

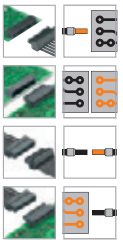
http://www.OMNIMATE.net

= Wire-to-Board

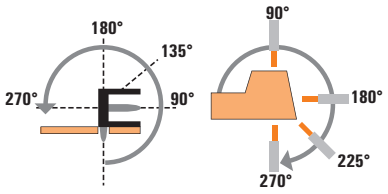
= Board-to-Board

= Wire-to-Wire

= Board-to-Wire



Orientation



Hybrid pin header

Solder connection



BV/SV 7.62 series

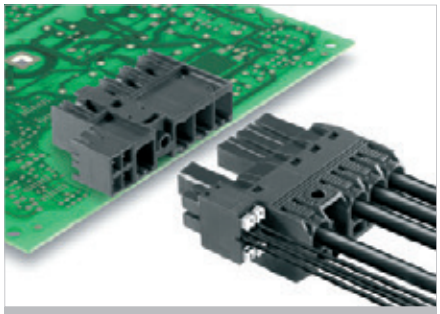
Type						SV & SC 3.81
Orientation						90°/270°
Flange options						G/MF
Product code numbers						IEC: 100 V/38 A/0.5 - 10 mm² UL: 600 V/35 A/AWG 24 - 10
					Page	F.116
Hybrid female connector	Spring PUSH IN		**BVF & BC 3.81**	180°	(G)/MF	IEC: 1.000 V/41 A/0.2 - 10 mm² UL: 600 V/35 A/AWG 24 - 10	F.181	○ ●
Hybrid female connector	Spring PUSH IN		**BVF & BC 3.81***	180°	(G)/MF	IEC: 1.000 V/41 A/0.2 - 10 mm² UL: 600 V/35 A/AWG 24 - 10	F.181	○ ●

* shield support as accessories on H.3

Female plug and header:
(G) = Closed (without flange)
MF = Centre flange with clasp

Male header and plug:
G = Closed (without flange)
MF = Centre flange for clasp

SV 7.62HP/../90 & SC 3.81



Hybrid-header in 90° outlet direction
with power and signal contacts. Meets the enhanced requirements of IEC 61800-5-1 for 3 mm touch safety in 400 V TNC (S) networks and enables UL approval for 600 V in accordance with UL508 / UL840. The middle flange interlocks automatically. It decreases the space required by one pole when compared to other solutions.

- Available with a middle flange (MF).

Product data

IEC: 1000 V / 41 A
UL: 300 V / 35 A

For additional articles and information, refer to catalog.weidmueller.com

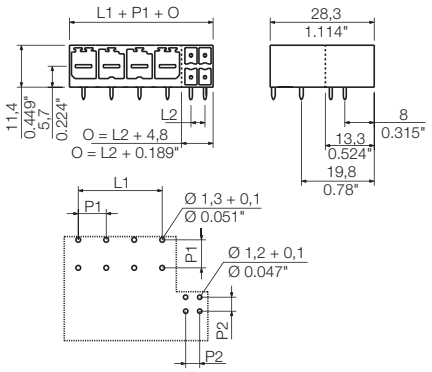
Note:

- Technical specifications refer to the power contacts
- Technical specifications of signal contacts: 50V / 5A
- Rated current related to rated cross-section & min. No. of poles.
- Specifications of diagram: P1=7.62 mm; P2=3.81 mm
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

SV 7.62HP/../90 SC/..R



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm²			
Solid core H05(07) V-U	**mm²**			
Stranded H07 V-R				
Flexible H05(07) V-K	mm²			
Flexible with ferrule	mm²			
Ferrule with plastic collar	mm²			
Stripping length	mm			
Screwdriver blade	mm			
According to norm				
Tightening torque range	Nm			
Rated current, max.	**A**	**41**		**41**
At ambient temperature		20°C		40°C
For conductor cross-section	mm²			
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	**V**	**630**	**630**	**1000**
Rated impulse voltage	kV	6	6	6
UL / CUL (Use Group)		**B**	**C**	**D**
Rated voltage	**V**	**300**	**300**	**600**
Rated current	**A**	**35**	**35**	**5**
AWG conductor	**AWG**		-	
CSA (Use Group)		**B**	**C**	**D**
Rated voltage	V	300	300	600
Rated current	A	35	35	5
AWG conductor	AWG		-	
General data				
Type of insulation material		PA GF		
UL 94 flammability rating		V-0		
Contact base material		Copper alloy		
Material of contact surface		tinned		
Pin dimensions = d	mm	0.8 x 1.0		
Solder eyelet Ø = D	mm	1.3		
Solder eyelet Ø tolerance	mm	+ 0,1		

Accessories

Note: Refer to the Accessories chapter for additional accessories.

Coding		Order No.
	BV/SV 7.62HP KO	**1937590000**

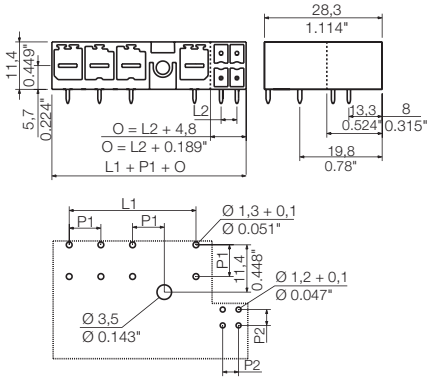
Ordering data

Solder pin length						3.5 mm
Colour						Black
Pitch	**7.62 mm**					
Pol.	L1	(inch)	L2	(inch)	Qty.	**Order No.**
2 / 4	7.62	0.300	3.81	0.150	78	**1089840000**
2 / 6	7.62	0.300	7.62	0.300	72	**1089920000**
2 / 8	7.62	0.300	11.43	0.450	60	**1157040000**
3 / 4	15.24	0.600	3.81	0.150	60	**1090040000**
3 / 6	15.24	0.600	7.62	0.300	54	**1090120000**
3 / 8	15.24	0.600	11.43	0.450	48	**1157050000**
4 / 4	22.86	0.900	3.81	0.150	48	**1090280000**
4 / 6	22.86	0.900	7.62	0.300	42	**1090360000**
4 / 8	22.86	0.900	11.43	0.450	42	**1157380000**
5 / 4	30.48	1.200	3.81	0.150	36	**1090520000**
5 / 6	30.48	1.200	7.62	0.300	36	**1090590000**
5 / 8	30.48	1.200	11.43	0.450	36	**1157080000**

SV 7.62HP/../90MF. SC/..R



Dimensioned drawing



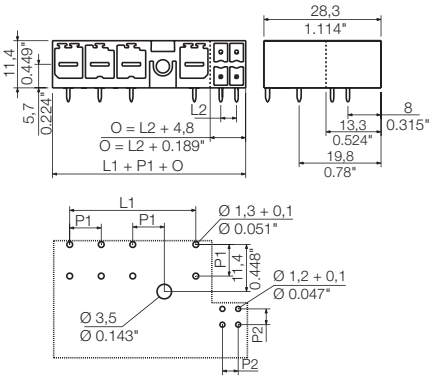
Ordering data

Solder pin length						3.5 mm
Colour						Black
Pitch	**7.62 mm**					
Pol.	L1	(inch)	L2	(inch)	Qty.	**Order No.**
2 / 4	15.24	0.600	3.81	0.150	60	**1089370000**
2 / 6	15.24	0.600	7.62	0.300	54	**1089410000**
2 / 8	15.24	0.600	11.43	0.450	48	**1156820000**
3 / 4	22.86	0.900	3.81	0.150	48	**1156230000**
3 / 4	22.86	0.900	3.81	0.150	48	**1089660000**
3 / 6	22.86	0.900	7.62	0.300	42	**1156240000**
3 / 6	22.86	0.900	7.62	0.300	42	**1089730000**
3 / 8	22.86	0.900	11.43	0.450	36	**1156840000**
3 / 8	22.86	0.900	11.43	0.450	36	**1156850000**
4 / 4	30.48	1.200	3.81	0.150	36	**1090130000**
4 / 6	30.48	1.200	7.62	0.300	36	**1090210000**
4 / 8	30.48	1.200	11.43	0.450	30	**1156890000**
5 / 4	38.10	1.500	3.81	0.150	30	**1156910000**
5 / 4	38.10	1.500	3.81	0.150	30	**1090600000**
5 / 6	38.10	1.500	7.62	0.300	30	**1156930000**
5 / 6	38.10	1.500	7.62	0.300	30	**1090670000**
5 / 8	38.10	1.500	11.43	0.450	30	**1156950000**
5 / 8	38.10	1.500	11.43	0.450	30	**1156980000**

SV 7.62HP/../90MSF. SC/..R



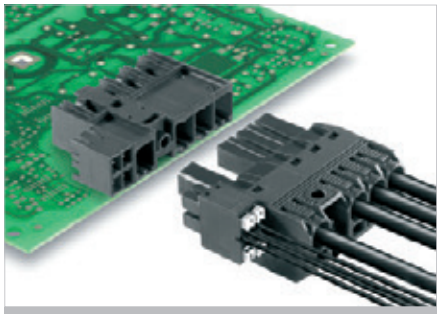
Dimensioned drawing



Ordering data

Solder pin length						3.5 mm
Colour						Black
Pitch	**7.62 mm**					
Pol.	L1	(inch)	L2	(inch)	Qty.	**Order No.**
2 / 4	15.24	0.600	3.81	0.150	60	**1089510000**
2 / 8	15.24	0.600	11.43	0.450	48	**1156830000**
2 / 6	15.24	0.600	7.62	0.300	54	**1089570000**
3 / 4	22.86	0.900	3.81	0.150	48	**1156250000**
3 / 4	22.86	0.900	3.81	0.150	48	**1089890000**
3 / 6	22.86	0.900	7.62	0.300	42	**1156270000**
3 / 6	22.86	0.900	7.62	0.300	42	**1089970000**
3 / 8	22.86	0.900	11.43	0.450	36	**1156870000**
3 / 8	22.86	0.900	11.43	0.450	36	**1156880000**
4 / 4	30.48	1.200	3.81	0.150	36	**1090370000**
4 / 6	30.48	1.200	7.62	0.300	36	**1090450000**
4 / 8	30.48	1.200	11.43	0.450	30	**1156900000**
5 / 4	38.10	1.500	3.81	0.150	30	**1157000000**
5 / 4	38.10	1.500	3.81	0.150	30	**1090830000**
5 / 6	38.10	1.500	7.62	0.300	30	**1157010000**
5 / 6	38.10	1.500	7.62	0.300	30	**1090900000**
5 / 8	38.10	1.500	11.43	0.450	30	**1157020000**
5 / 8	38.10	1.500	11.43	0.450	30	**1157030000**

SV 7.62HP/../270 & SC 3.81



Hybrid male header in 270° outlet direction with power and signal contacts. Meets the enhanced requirements of IEC 61800-5-1 for 3 mm touch safety in 400 V TNC (S) networks and enables UL approval for 600 V in line with UL508 / UL840. The middle flange interlocks automatically. It decreases the space required by one pole when compared to other solutions.

- Available with a middle flange (MF).

Product data

IEC: 1000 V / 41 A
UL: 300 V / 35 A

For additional articles and information, refer to catalog.weidmueller.com

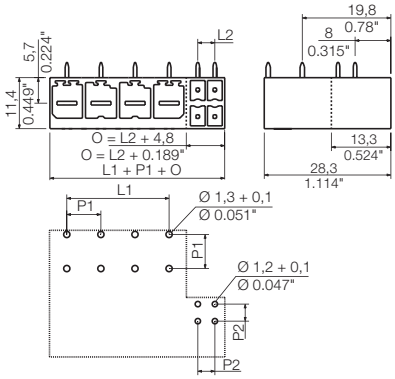
Note:

- Technical specifications refer to the power contacts
- Technical specifications of signal contacts: 50V / 5A
- Rated current related to rated cross-section & min. No. of poles.
- Specifications of diagram: P1=7.62 mm; P2=3.81 mm
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

SV 7.62HP/../270 SC/..R



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm²			
Solid core H05(07) V-U	**mm²**			
Stranded H07 V-R				
Flexible H05(07) V-K	mm²			
Flexible with ferrule	mm²			
Ferrule with plastic collar	mm²			
Stripping length	mm			
Screwdriver blade	mm			
According to norm				
Tightening torque range	Nm			
Rated current, max.	**A**	**41**		**41**
At ambient temperature		20°C		40°C
For conductor cross-section	mm²			
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	**V**	**630**	**630**	**1000**
Rated impulse voltage	kV	6	6	6
UL / CUL (Use Group)		**B**	**C**	**D**
Rated voltage	**V**	**300**	**300**	**600**
Rated current	**A**	**35**	**35**	**5**
AWG conductor	**AWG**		-	
CSA (Use Group)		**B**	**C**	**D**
Rated voltage	V	300	300	600
Rated current	A	35	35	5
AWG conductor	AWG		-	
General data				
Type of insulation material		PA GF		
UL 94 flammability rating		V-0		
Contact base material		Copper alloy		
Material of contact surface		tinned		
Pin dimensions = d	mm	0.8 x 1.0		
Solder eyelet Ø = D	mm	1.3		
Solder eyelet Ø tolerance	mm	+ 0,1		

Accessories

Note: Refer to the Accessories chapter for additional accessories.

Coding		Order No.
	BV/SV 7.62HP KO	**1937590000**

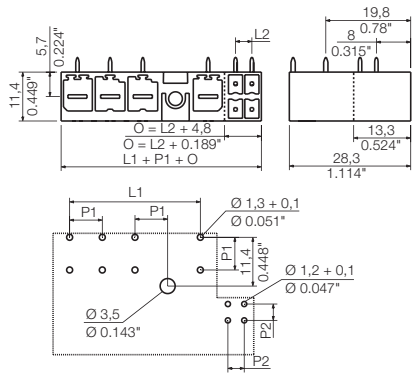
Ordering data

Solder pin length						3.5 mm
Colour						Black
Pitch	**7.62 mm**					
Pol.	L1	(inch)	L2	(inch)	Qty.	**Order No.**
2 / 4	7.62	0.300	3.81	0.150	78	**1090770000**
2 / 6	7.62	0.300	7.62	0.300	72	**1090850000**
2 / 8	7.62	0.300	11.43	0.450	60	**1156920000**
3 / 4	15.24	0.600	3.81	0.150	60	**1090950000**
3 / 6	15.24	0.600	7.62	0.300	54	**1091010000**
3 / 8	15.24	0.600	11.43	0.450	48	**1156940000**
4 / 4	22.86	0.900	3.81	0.150	48	**1091120000**
4 / 6	22.86	0.900	7.62	0.300	42	**1091160000**
4 / 8	22.86	0.900	11.43	0.450	42	**1156970000**
5 / 4	30.48	1.200	3.81	0.150	36	**1091240000**
5 / 6	30.48	1.200	7.62	0.300	36	**1091260000**
5 / 8	30.48	1.200	11.43	0.450	36	**1156990000**

SV 7.62HP/../270MF. SC/..R



Dimensioned drawing



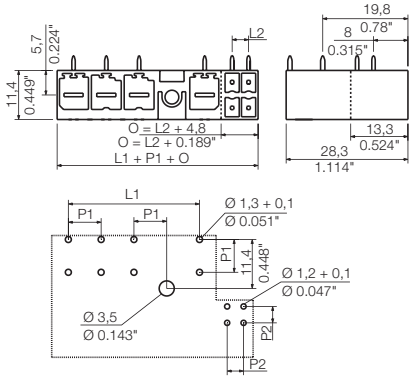
Ordering data

Solder pin length						3.5 mm
Colour						Black
Pitch	7.62 mm					
Pol.	L1	(inch)	L2	(inch)	Qty.	Order No.
2 / 4	15.24	0.600	3.81	0.150	60	1089260000
2 / 6	15.24	0.600	7.62	0.300	54	1089280000
2 / 8	15.24	0.600	11.43	0.450	48	1156120000
3 / 4	22.86	0.900	3.81	0.150	48	1156140000
3 / 4	22.86	0.900	3.81	0.150	48	1089440000
3 / 6	22.86	0.900	7.62	0.300	42	1156150000
3 / 6	22.86	0.900	7.62	0.300	42	1089490000
3 / 8	22.86	0.900	11.43	0.450	36	1156170000
3 / 8	22.86	0.900	11.43	0.450	36	1156180000
4 / 4	30.48	1.200	3.81	0.150	36	1089820000
4 / 6	30.48	1.200	7.62	0.300	36	1089910000
4 / 8	30.48	1.200	11.43	0.450	30	1156280000
5 / 4	38.10	1.500	3.81	0.150	30	1156300000
5 / 4	38.10	1.500	3.81	0.150	30	1090300000
5 / 6	38.10	1.500	7.62	0.300	30	1156310000
5 / 6	38.10	1.500	7.62	0.300	30	1090380000
5 / 8	38.10	1.500	11.43	0.450	30	1156320000
5 / 8	38.10	1.500	11.43	0.450	30	1156340000

SV 7.62HP/../270MSF. SC/..R



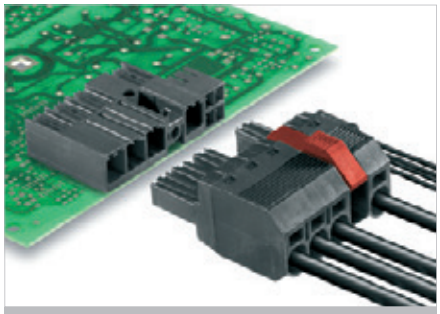
Dimensioned drawing



Ordering data

Solder pin length						3.5 mm
Colour						Black
Pitch	7.62 mm					
Pol.	L1	(inch)	L2	(inch)	Qty.	Order No.
2 / 4	15.24	0.600	3.81	0.150	60	1089340000
2 / 6	15.24	0.600	7.62	0.300	54	1089380000
2 / 8	15.24	0.600	11.43	0.450	48	1156130000
3 / 4	22.86	0.900	3.81	0.150	48	1156190000
3 / 4	22.86	0.900	3.81	0.150	48	1089610000
3 / 6	22.86	0.900	7.62	0.300	42	1156200000
3 / 6	22.86	0.900	7.62	0.300	42	1089670000
3 / 8	22.86	0.900	11.43	0.450	36	1156210000
3 / 8	22.86	0.900	11.43	0.450	36	1156220000
4 / 4	30.48	1.200	3.81	0.150	36	1090060000
4 / 6	30.48	1.200	7.62	0.300	36	1090140000
4 / 8	30.48	1.200	11.43	0.450	30	1156290000
5 / 4	38.10	1.500	3.81	0.150	30	1156370000
5 / 4	38.10	1.500	3.81	0.150	30	1090540000
5 / 6	38.10	1.500	7.62	0.300	30	1156390000
5 / 6	38.10	1.500	7.62	0.300	30	1090610000
5 / 8	38.10	1.500	11.43	0.450	30	1156410000
5 / 8	38.10	1.500	11.43	0.450	30	1156430000

BVF 7.62HP/../180 & BCF 3.81



Hybrid female plug with power and signal contacts with PUSH IN connection system. Allows power, signals and shield to be plugged in simultaneously. It is perfect for connecting servo-drives and asynchronous drives. Meets the requirements of UL1059 for 600 V Use Group C. The mating profile ensures touch-safety of > 3 mm in accordance with IEC 61800-5-1. The pluggable shield connection establishes a large contact area on the device housing and does not need to be screwed on separately.

Product data

IEC: 1000 V / 38 A / 0.5 - 10 mm²
UL: 600 V / 35 A / AWG 24 - 8

For additional articles and information, refer to catalog.weidmueller.com

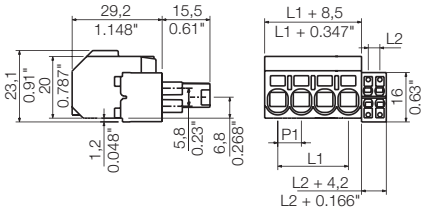
Note:

- Technical specifications refer to the power contacts
- Technical specifications of signal contacts: 50V / 5A
- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

BVF 7.62HP/../180 BCF/..R



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm²	0.5...10		
Solid core H05(07) V-U	**mm²**	**0.5...10**		
Stranded H07 V-R				
Flexible H05(07) V-K	mm²	0.5...10		
Flexible with ferrule	mm²	1.5...6		
Ferrule with plastic collar	mm²	1.5...6		
Stripping length	mm	12		
Screwdriver blade	mm	0.8 x 4.5		
According to norm		DIN 5264		
Tightening torque range	Nm			
Rated current, max.	**A**	**38**		**34**
At ambient temperature		20°C		40°C
For conductor cross-section	mm²	6		
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	**V**	**800**	**1000**	**1000**
Rated impulse voltage	kV	8	8	6
UL / CUL (Use Group)		**B**	**C**	**D**
Rated voltage	**V**	**600**	**600**	**600**
Rated current	**A**	**35**	**35**	**5**
AWG conductor	**AWG**		**24-8**	
CSA (Use Group)		**B**	**C**	**D**
Rated voltage	V	600	600	600
Rated current	A	35	35	5
AWG conductor	AWG		24-8	
General data				
Type of insulation material		PA GF		
UL 94 flammability rating		V-0		
Contact base material		Copper alloy		
Material of contact surface		tinned		
Pin dimensions = d	mm			
Solder eyelet Ø = D	mm			
Solder eyelet Ø tolerance	mm			

Accessories

Note: Refer to the Accessories chapter for additional accessories.

Coding		Order No.
	BV/SV 7.62HP KO	1937590000
Shielding		
	BVF 7.62HP SH150 4-6 KIT	1118480000
	BVF 7.62HP SH180 4-6 KIT	1118470000
	BVF 7.62HP SH210 4-6 KIT	1118490000
Screwdriver		
	SDS 0.8X4.0X125	9009020000
Crimping tool		
	PZ 6/5	9011460000

Ordering data

Solder pin length

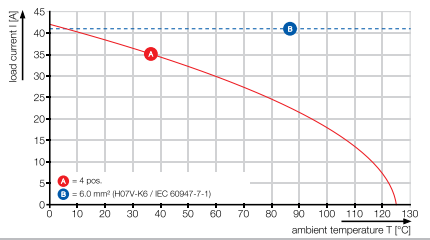
Colour **Black**

Pitch 7.62 mm

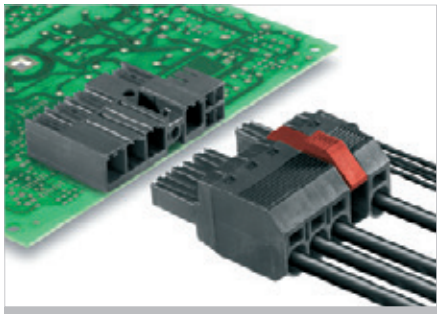
Pol.	L1	(inch)	L2	(inch)	Qty.	Order No.
2 / 4	7.62	0.300	3.81	0.150	65	1080550000
2 / 6	7.62	0.300	7.62	0.300	55	1080320000
2 / 8	7.62	0.300	11.43	0.450	50	1156440000
3 / 4	15.24	0.600	3.81	0.150	50	1080490000
3 / 6	15.24	0.600	7.62	0.300	45	1080570000
3 / 8	15.24	0.600	11.43	0.450	40	1156450000
4 / 4	22.86	0.900	3.81	0.150	40	1080510000
4 / 6	22.86	0.900	7.62	0.300	35	1080440000
4 / 8	22.86	0.900	11.43	0.450	30	1156470000
5 / 8	30.48	1.200	11.43	0.450	25	1156480000

Representative deratings curve

BVF 7.62HP/180 & BCF - SV 7.62HP/90 & SC



BVF 7.62HP/../180MF & BCF 3.81



Hybrid female plug with power and signal contacts with PUSH IN connection system. Allows power, signals and shield to be plugged in simultaneously. It is perfect for connecting servo-drives and asynchronous drives. Meets the requirements of UL1059 for 600 V Use Group C.
The mating profile ensures touch-safety of > 3 mm in accordance with IEC 61800-5-1.
The self-fastening middle flange reduces the space requirements by one pole.

The pluggable shield connection establishes a large contact area on the device housing and does not need to be screwed on separately.

Product data

IEC: 1000 V / 38 A / 0.5 - 10 mm²
UL: 600 V / 35 A / AWG 24 - 8

For additional articles and information, refer to catalog.weidmueller.com

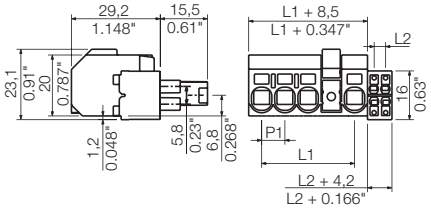
Note:

- Technical specifications refer to the power contacts
- Technical specifications of signal contacts: 50V / 5A
- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

BVF 7.62HP/../180MF. BCF/..R



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm²	0.5...10		
Solid core H05(07) V-U	**mm²**	**0.5...10**		
Stranded H07 V-R				
Flexible H05(07) V-K	mm²	0.5...10		
Flexible with ferrule	mm²	1.5...6		
Ferrule with plastic collar	mm²	1.5...6		
Stripping length	mm	12		
Screwdriver blade	mm	0.8 x 4.5		
According to norm		DIN 5264		
Tightening torque range	Nm			
Rated current, max.	**A**	**38**		**34**
At ambient temperature		20°C		40°C
For conductor cross-section	mm²	6		
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	**V**	**800**	**1000**	**1000**
Rated impulse voltage	kV	8	8	6
UL / CUL (Use Group)		**B**	**C**	**D**
Rated voltage	**V**	**600**	**600**	**600**
Rated current	**A**	**35**	**35**	**5**
AWG conductor	**AWG**		**24-8**	
CSA (Use Group)		**B**	**C**	**D**
Rated voltage	V	600	600	600
Rated current	A	35	35	5
AWG conductor	AWG		24-8	
General data				
Type of insulation material		PA GF		
UL 94 flammability rating		V-0		
Contact base material		Copper alloy		
Material of contact surface		tinned		
Pin dimensions = d	mm			
Solder eyelet Ø = D	mm			
Solder eyelet Ø tolerance	mm			

Accessories

Note: Refer to the Accessories chapter for additional accessories.

Coding		Order No.
	BV/SV 7.62HP KO	1937590000
Shielding		
	BVF 7.62HP SH150 4-6 KIT	1118480000
	BVF 7.62HP SH180 4-6 KIT	1118470000
	BVF 7.62HP SH210 4-6 KIT	1118490000
Screwdriver		
	SDS 0.8X4.0X125	9009020000
Crimping tool		
	PZ 6/5	9011460000

Ordering data

Solder pin length

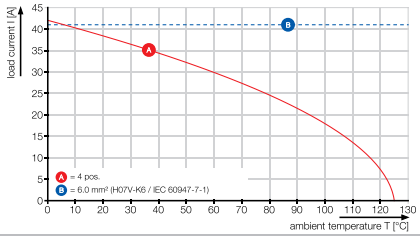
Colour **Black**

Pitch 7.62 mm

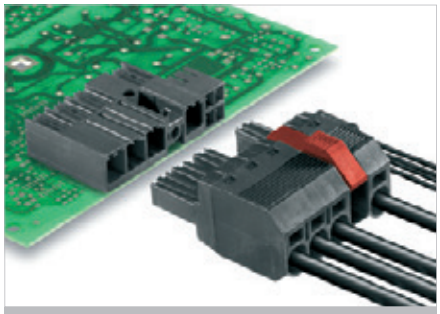
Pol.	L1	(inch)	L2	(inch)	Qty.	Order No.
2 / 4	15.24	0.600	3.81	0.150	50	1081610000
2 / 6	15.24	0.600	7.62	0.300	45	1081030000
2 / 8	15.24	0.600	11.43	0.450	40	1157090000
3 / 4	22.86	0.900	3.81	0.150	40	1157110000
3 / 4	22.86	0.900	3.81	0.150	40	1081630000
3 / 6	22.86	0.900	7.62	0.300	35	1157120000
3 / 6	22.86	0.900	7.62	0.300	35	1081720000
3 / 8	22.86	0.900	11.43	0.450	30	1157130000
3 / 8	22.86	0.900	11.43	0.450	30	1157170000
4 / 4	30.48	1.200	3.81	0.150	30	1081150000
4 / 6	30.48	1.200	7.62	0.300	30	1082020000
4 / 8	30.48	1.200	11.43	0.450	25	1157200000
5 / 4	38.10	1.500	3.81	0.150	25	1157220000
5 / 4	38.10	1.500	3.81	0.150	25	1082140000
5 / 6	38.10	1.500	7.62	0.300	25	1157230000
5 / 6	38.10	1.500	7.62	0.300	25	1081760000
5 / 8	38.10	1.500	11.43	0.450	25	1157240000
5 / 8	38.10	1.500	11.43	0.450	25	1157250000

Representative deratings curve

BVF 7.62HP/180 & BCF - SV 7.62HP/90 & SC



BVF 7.62HP/../180MSF & BCF 3.81



Hybrid female plug with power and signal contacts with PUSH IN connection system. Allows power, signals and shield to be plugged in simultaneously. It is perfect for connecting servo-drives and asynchronous drives. Meets the requirements of UL1059 for 600 V Use Group C.
The mating profile ensures touch-safety of > 3 mm in accordance with IEC 61800-5-1.
The self-fastening middle flange reduces the space requirements by one pole.

The pluggable shield connection establishes a large contact area on the device housing and does not need to be screwed on separately.

Product data

IEC: 1000 V / 38 A / 0.5 - 10 mm²
UL: 600 V / 35 A / AWG 24 - 8

For additional articles and information, refer to catalog.weidmueller.com

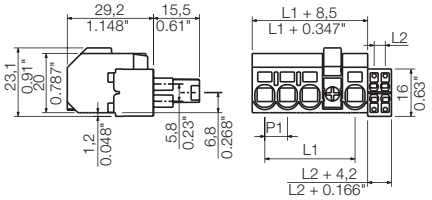
Note:

- Technical specifications refer to the power contacts
- Technical specifications of signal contacts: 50V / 5A
- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

BVF 7.62HP/../180MSF. BCF/..R



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984				
Clamping range, max.	mm²	0.5...10		
Solid core H05(07) V-U	**mm²**	**0.5...10**		
Stranded H07 V-R				
Flexible H05(07) V-K	mm²	0.5...10		
Flexible with ferrule	mm²	1.5...6		
Ferrule with plastic collar	mm²	1.5...6		
Stripping length	mm	12		
Screwdriver blade	mm	0.8 x 4.5		
According to norm		DIN 5264		
Tightening torque range	Nm			
Rated current, max.	**A**	**38**		**34**
At ambient temperature		20°C		40°C
For conductor cross-section	mm²	6		
Overvoltage category		III	III	II
Pollution severity		3	2	2
Rated voltage	**V**	**800**	**1000**	**1000**
Rated impulse voltage	kV	8	8	6
UL / CUL (Use Group)		**B**	**C**	**D**
Rated voltage	**V**	**600**	**600**	**600**
Rated current	**A**	**35**	**35**	**5**
AWG conductor	**AWG**		**24-8**	
CSA (Use Group)		**B**	**C**	**D**
Rated voltage	V	600	600	600
Rated current	A	35	35	5
AWG conductor	AWG		24-8	
General data				
Type of insulation material		PA GF		
UL 94 flammability rating		V-0		
Contact base material		Copper alloy		
Material of contact surface		tinned		
Pin dimensions = d	mm			
Solder eyelet Ø = D	mm			
Solder eyelet Ø tolerance	mm			

Accessories

Note: Refer to the Accessories chapter for additional accessories.

Coding		Order No.
	BV/SV 7.62HP KO	1937590000
Shielding		
	BVF 7.62HP SH150 4-6 KIT	1118480000
	BVF 7.62HP SH180 4-6 KIT	1118470000
	BVF 7.62HP SH210 4-6 KIT	1118490000
Screwdriver		
	SDS 0.8X4.0X125	9009020000
Crimping tool		
	PZ 6/5	9011460000

Ordering data

Solder pin length

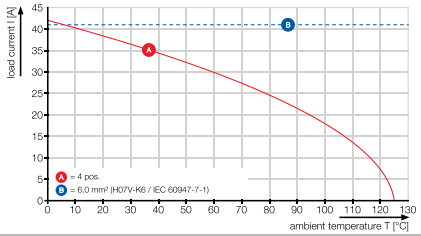
Colour **Black**

Pitch 7.62 mm

Pol.	L1	(inch)	L2	(inch)	Qty.	Order No.
2 / 4	15.24	0.600	3.81	0.150	50	1081930000
2 / 6	15.24	0.600	7.62	0.300	45	1082080000
2 / 8	15.24	0.600	11.43	0.450	40	1157100000
3 / 4	22.86	0.900	3.81	0.150	40	1157440000
3 / 4	22.86	0.900	3.81	0.150	40	1082110000
3 / 6	22.86	0.900	7.62	0.300	35	1157450000
3 / 6	22.86	0.900	7.62	0.300	35	1081730000
3 / 8	22.86	0.900	11.43	0.450	30	1157470000
3 / 8	22.86	0.900	11.43	0.450	30	1157190000
4 / 4	30.48	1.200	3.81	0.150	30	1081660000
4 / 6	30.48	1.200	7.62	0.300	30	1081750000
4 / 8	30.48	1.200	11.43	0.450	25	1157210000
5 / 4	38.10	1.500	3.81	0.150	25	1157270000
5 / 6	38.10	1.500	7.62	0.300	25	1157280000
5 / 8	38.10	1.500	11.43	0.450	25	1157300000
5 / 8	38.10	1.500	11.43	0.450	25	1157290000

Representative deratings curve

BVF 7.62HP/180 & BCF - SV 7.62HP/90 & SC



OMNIMATE Power
Through-Panel Terminals

OMNIMATE Power
Through-Panel Terminals

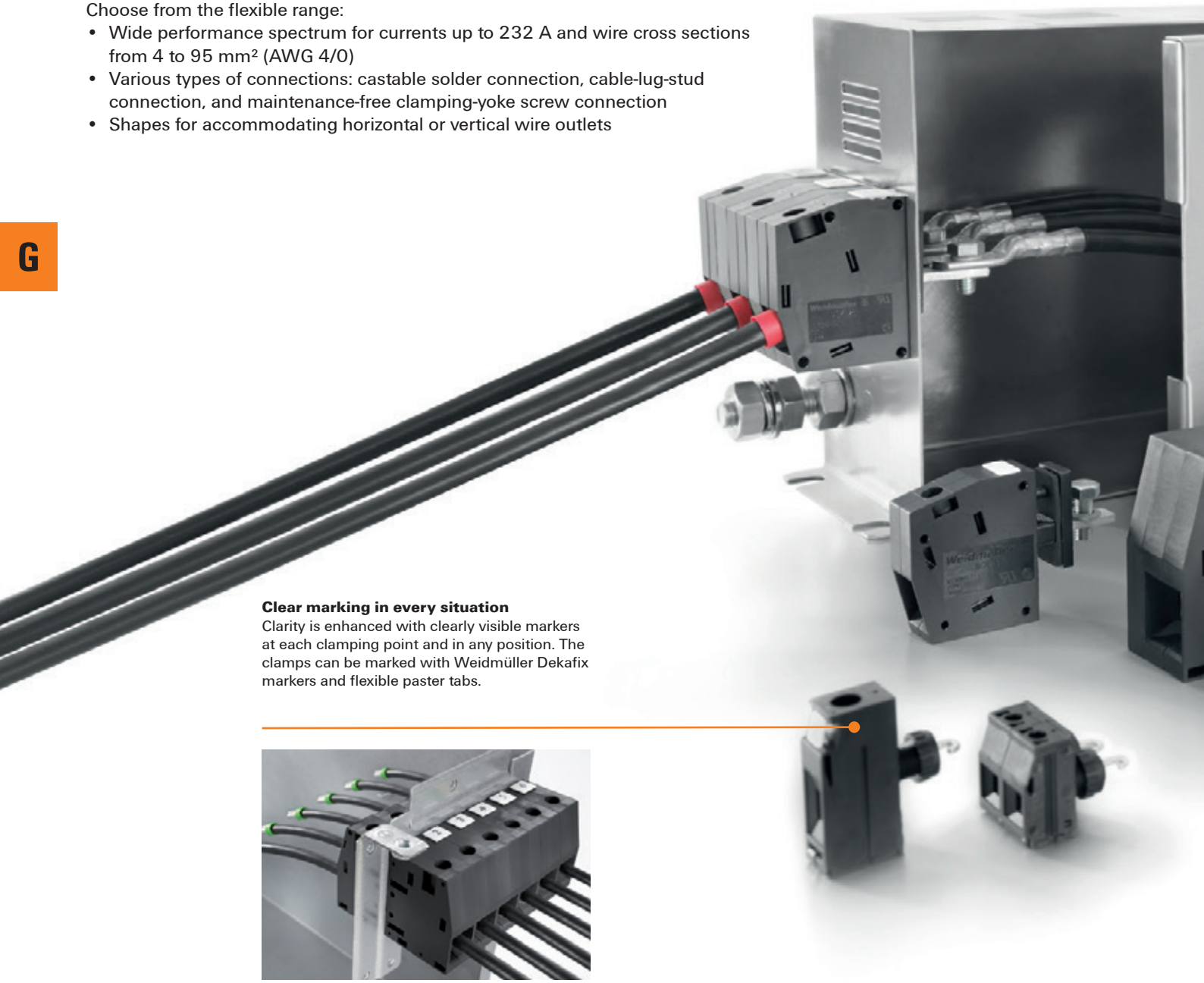
Through-Panel Terminals for devices series WGK – connects up to 95 mm²

Explanation	G.2
System overview	G.4
Technical data	G.8

Through-Panel Terminals
WGK - OMNIMATE Power

The universal solution to feed power through housing walls. Excellent for applications such as EMC filters, power supplies, frequency converters for drive systems and more encapsulated devices.
Choose from the flexible range:

- Wide performance spectrum for currents up to 232 A and wire cross sections from 4 to 95 mm² (AWG 4/0)
- Various types of connections: castable solder connection, cable-lug-stud connection, and maintenance-free clamping-yoke screw connection
- Shapes for accommodating horizontal or vertical wire outlets



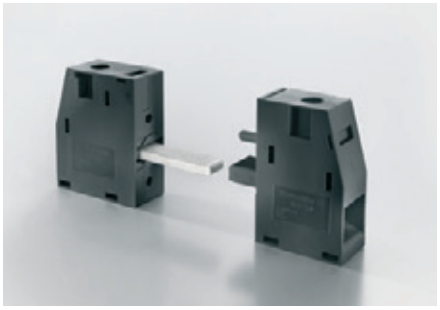
Clear marking in every situation
Clarity is enhanced with clearly visible markers at each clamping point and in any position. The clamps can be marked with Weidmüller Dekafix markers and flexible paster tabs.

Safety with extra power
The high-performance insulating material WEMID meets maximum system availability requirements: With an RTI (relative temperature index) of 120 °C, the OMNIMATE power Through-Panel Terminals exceed the highest continued use temperature of standard PA (100 °C) at +20° K, thus creating more power reserves and maximum safety with temperature fluctuations and overloads

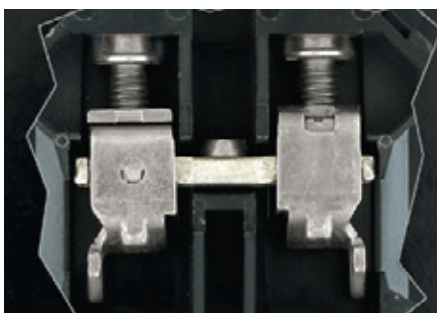




Easy handling
WGK series lead-through terminals consist of an inside and outside component that are easily locked with one another through the housing wall without any tools.

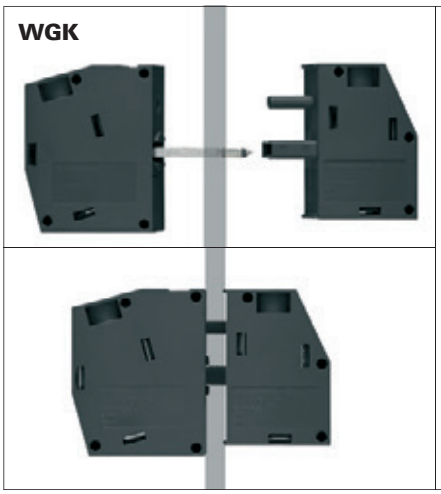


Solid and proven connection
Connections proven a million times. The terminal unit consists of hardened steel, for very high contact force. The current bar is made of copper, which gives a low voltage drop. The tin-plated surface ensures minimum contact resistances.



WGK-series system overview

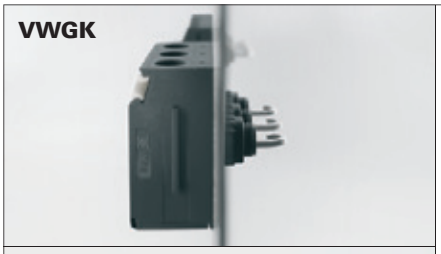
WGK



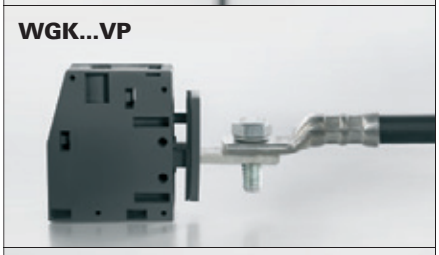
Easy installation

WGK series feedthrough terminals consist of an inside and outside component that are easily locked with one another through the housing wall without any tools.

VWGK



WGK...VP



WGK...WGKV



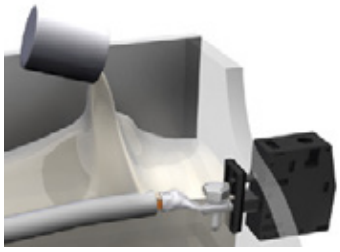
Maximum freedom of design

Different types of connection on the inside such as a castable soldering connection (VWGK...), cable lug bolt connection (WGK ...VP) and a no-service clamping yoke-screw connection (WGK...) provide the optimum connection in any installation situation.

Weidmüller offers two models with a horizontal (WGK) and vertical (WGKV) outgoing direction to adapt the conductor guide to the given installation conditions.

The VP and VWGK models of the WGK lead-through terminals with an insulating housing and clamping yoke connection on the outside are enhanced for use in encapsulated and cast equipment (such as EMV filters).

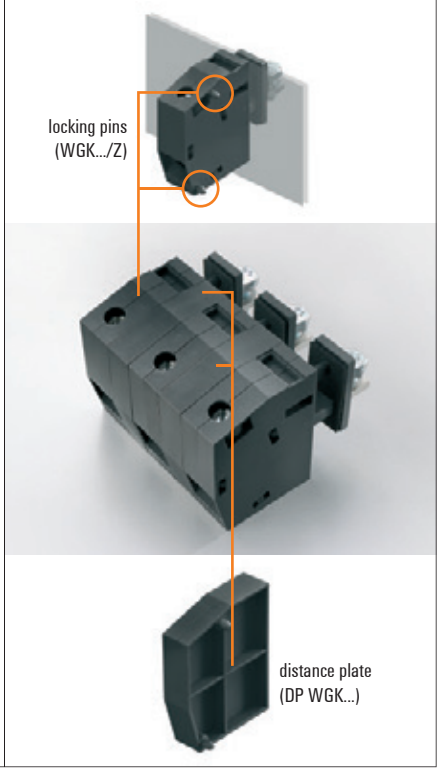
These products are developed for 100 % sealing in completely cast units.



All Through-Panel Terminals terminals are available with pins (WGK.../Z) for easy locking. Multi-pole blocks can be built up quickly and easily.

Clearance and creepage distances to other components must be devised in accordance with the relevant application standard. This can be achieved in the device by full encapsulation or by the use of additional spacer plates.

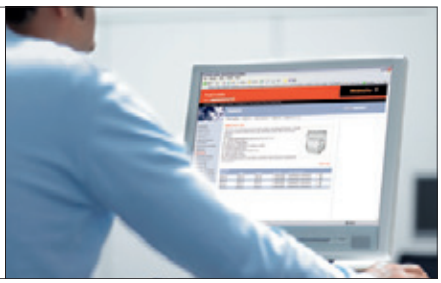
Distance plates (DP WGK...) can be easily mounted with locking pins.



Fast and easy design in online CAD models. The CAD models for OMNIMATE Power WGK lead-through terminals can be found in Weidmüller's online catalogue and in the PART community.

http://catalog.weidmueller.com/

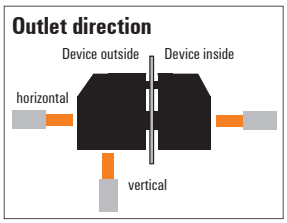
http://weidmueller.partcommunity.com/



http://www.OMNIMATE.net

○ = 300 V (UL) / 250 V (IEC)
● = 600 V (UL) / 690 V (IEC)
● = 600 V (UL) / 1.000 V (IEC)
* = 600 V acc. to UL 508 / UL 840





Through-Panel terminals - WGK

Device Outside Type of connection	Device Inside Type of connection	Clamping range IEC Clamping range UL	Max. rated voltage IEC Nominal current UL		Tipo	Outlet direction
Screw Clamping yoke	Solder connection	0,5 - 6 mm² 30 - 10 AWG	32 A 30 A		VWGK 4	horizontal
		0,5 - 10 mm² 22 - 10 AWG	41 A 50 A		VWGK 6	horizontal
	Screw Clamping yoke	0,5 - 6 mm² 30 - 10 AWG	32 A 30 A		WGK 4 WGKV 4	horizontal vertical
		0,5 - 16 mm² 24 - 6 AWG	57 A 65 A		WGK 10 WGKV 10	horizontal vertical
	Screw Clamping yoke	0,5 - 25 mm² 20 - 4 AWG	76 A 85 A		WGK 16 WGKV 16	horizontal vertical
	Cable lug				WGK 16 VP	horizontal
	Screw Clamping yoke	6 - 34 mm² 10 - 3 AWG	101 A 100 A		WGK 25 WGKV 25	horizontal vertical
	Cable lug				WGK 25 VP	horizontal
	Screw Clamping yoke	16 - 50 mm² 6 - 1/0 AWG	150 A 145 A		WGK 50	horizontal
	Cable lug				WGK 50 VP	horizontal
	Screw Clamping yoke	35 - 95 mm² 4 - 4/0 AWG	232 A 230 A		WGK 95	horizontal
	Cable lug				WGK 95 F VP	horizontal

Max. rated voltage IEC	400 V	690 V	1.000 V
Nominal voltage UL	300 V	600 V	
	○	*	
	○	*	
	○	*	
	○	*	
		●	
		●	
		●	
		●	
		●	
		●	
			●
			●

Through-Panel Terminals for devices
Series WGK – connects up to 95 mm²

	WGK 4	WGKV 4
	4 mm²	4 mm²
	Screw connection	Screw connection
		
Width/Length/External height mm	8.1 x 35.5 x 21.5	8.1 x 40 x 24
Max. current / Max. wire A/mm²	**41 / 6**	**41 / 6**
Max. clamping range mm²	**0.05...6**	**0.05...6**

Technical data

	WGK 4	WGKV 4
Rated data	IEC 60947-7-1	IEC 60947-7-1
Rated voltage V	250 (IEC) / 300 (UL / CUL) / 300 (CSA)	250 (IEC) / 300 (UL / CUL) / 300 (CSA)
Rated current A	32 / 30 / 30	32 / 30 / 30
For conductor cross-section mm²	4 / AWG 30...10 / AWG 30...10	4 / AWG 30...10 / AWG 30...10
Rated impulse withstand voltage / Pollution severity -/-	6 kV / 3	6 kV / 3
Gauge to IEC 60947-1 / UL 94 flammability rating	A3 / V-0	A3 / V-0
Approvals	CE; CSA; CURUS; GOSTME25; ROHS	CE; CSA; CURUS; GOSTME25; ROHS
Clamped conductors (H05V/H07V)	**Rated connection**	**Rated connection**
Solid / Stranded mm²	0.5...6	0.5...6
Flexible / Stranded wire with end ferrules mm²	0.5...4 / 0.5...4	0.5...4 / 0.5...4
Tightening torque (terminal screw) Nm	0.6...0.8 (M 3)	0.6...0.8 (M 3)
Stripping length / Blade size mm/-	8 / 0.6 x 3.5 mm	8 / 0.6 x 3.5 mm
Note	Metal walls: 1 – 2.5 mm = 400 V; 2.5 – 4 mm = 250 V; plastic walls: 1 – 4 mm = 500 V	Metal walls: 1 – 2.5 mm = 400 V; 2.5 – 4 mm = 250 V; plastic walls: 1 – 4 mm = 500 V

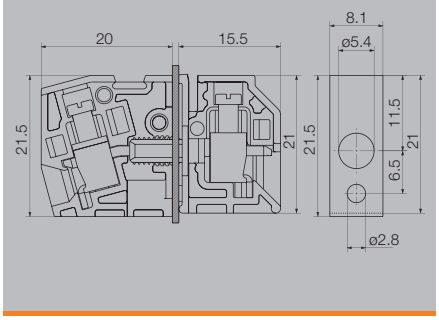
Ordering data

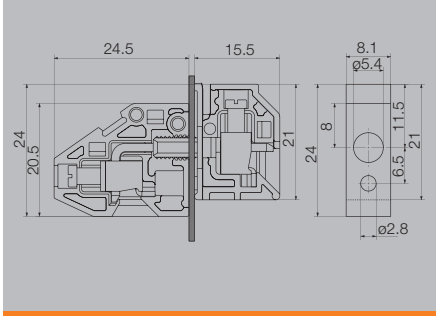
Version	WGK 4 Type	Qty.	Order No.	WGKV 4 Type	Qty.	Order No.
With locking pins grey	WGK 4/Z	50 ST	**1936570000**	WGKV 4/Z	50 ST	**1936630000**
With locking pins green/yellow	WGK 4/Z gn/ye	50 ST	**1936560000**	WGKV 4/Z gn/ye	50 ST	**1936620000**
With locking pins black	WGK 4/Z SW	50 ST	**1250940000**	WGKV 4/Z SW	50 ST	**1250960000**
Without locking pins grey	WGK 4	50 ST	**1936550000**	WGKV 4	50 ST	**1934050000**
Without locking pins green/yellow	WGK 4 GN/YE	50 ST	**1936540000**	WGKV 4 gn/ye	50 ST	**1936610000**
Without locking pins black	WGK 4 SW	50 ST	**1250930000**	WGKV 4 SW	50 ST	**1250950000**
Note						

Accessories

	WGK 4 Type	Qty.	Order No.	WGKV 4 Type	Qty.	Order No.
Distance plate	DP WGK 4	50	**1936450000**	DP WGKV 4	50	**1936470000**
	DP WGK 4 SW	50	**1297840000**			
Screwdriver						
 Standard	SDIS 0.6X3.5X100	1	**9008390000**	SDIS 0.6X3.5X100	1	**9008390000**
Identification systems (see assortment in catalogue 7)						
Marking tags	DEK 5/5 / DEK 5/6 / DEK 5/8			DEK 5/5 / DEK 5/6 / DEK 5/8		
For detailed information on other accessories and applications, refer to the „Accessories" section						

Technical drawing





WGK 4 VP — 4 mm²

Solder connection



8.1 x 20 x 20.5
41 / 6
0.22...6

IEC 60947-7-1

IEC	UL / CUL	CSA
250	300	300
32	30	30
4	AWG 30...10	AWG 30...10
	6 kV / 3	
	A3 / V-0	
	CE; CSA; CURUS; GOSTME25; ROHS	

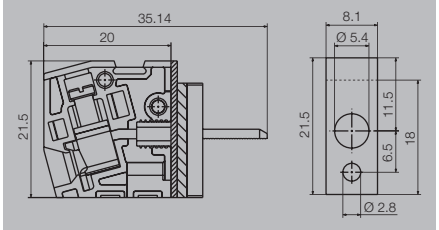
Rated connection
0.5...6 / 0.5...4
0.5...4 / 0.5...4
0.6...0.8 (M 3)
8 / 0.6 x 3.5 mm

Metal walls: 1 – 4 mm = 500 V Plastic walls: 1 – 4 mm = 500 V

Type	Qty.	Order No.
WGK 4 VP/Z	50	1003910000
WGK 4 VP/Z GN/YE	50	1003900000
WGK 4 VP/Z BK	50	1339810000
WGK 4 VP	50	1981890000
WGK 4 VP GN/YE	50	1003890000
WGK 4 VP BK	50	1339790000

Type	Qty.	Order No.
DP WGK 4	50	1936450000
SDIS 0.6X3.5X100	1	9008390000

DEK 5/5 / DEK 5/6 / DEK 5/8



WGK 10 — 10 mm²

Screw connection



10.1 x 43.3 x 31.4
76 / 16
0.21...16

IEC 60947-7-1

IEC	UL / CUL	CSA
250	300	300
57	65	65
10	AWG 24...6	AWG 24...6
	6 kV / 3	
	B6 / V-0	
	CE; CSA; CURUS; GOSTME25; ROHS	

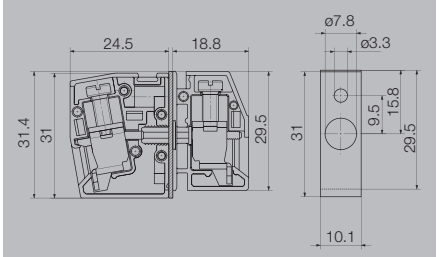
Rated connection
0.5...16 / 0.5...16
0.5...10 / 0.5...10
1.2...1.8 (M 4)
11 / 0.8 x 4.0 mm

Metal walls: 1 – 2.5 mm = 400 V; 2.5 – 4 mm = 250 V; plastic walls: 1 – 4 mm = 500 V

Type	Qty.	Order No.
WGK 10/Z	50 ST	1936530000
WGK 10/Z gn/ye	50 ST	1936520000
WGK 10/Z SW	50 ST	1250890000
WGK 10	50 ST	1936510000
WGK 10 GN/YE	50 ST	1936500000
WGK 10 SW	50 ST	1250880000

Type	Qty.	Order No.
DP WGK 10 SW	50	1250570000
DP WGK 10	50	1936440000
SDIS 0.8X4.0X100	1	9008400000

DEK 5/5 / DEK 5/6 / DEK 5/8



WGKV 10 — 10 mm²

Screw connection



10.1 x 49.8 x 32.8
76 / 16
0.21...16

IEC 60947-7-1

IEC	UL / CUL	CSA
250	300	300
57	65	65
10	AWG 24...6	AWG 24...6
	6 kV / 3	
	B6 / V-0	
	CE; CSA; CURUS; GOSTME25; ROHS	

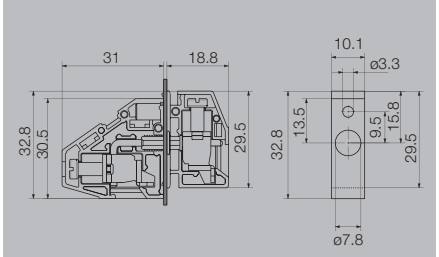
Rated connection
0.5...16 / 0.5...16
0.5...10 / 0.5...10
1.2...1.8 (M 4)
11 / 0.8 x 4.0 mm

Metal walls: 1 – 2.5 mm = 400 V; 2.5 – 4 mm = 250 V; plastic walls: 1 – 4 mm = 500 V

Type	Qty.	Order No.
WGKV 10/Z	50 ST	1936600000
WGKV 10/Z gn/ye	50 ST	1936590000
WGKV 10/Z SW	50 ST	1250920000
WGKV 10	50 ST	1934060000
WGKV 10 gn/ye	50 ST	1936580000
WGKV 10 SW	50 ST	1250910000

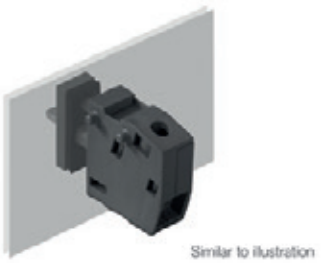
Type	Qty.	Order No.
SDIS 0.8X4.0X100	1	9008400000

DEK 5/5 / DEK 5/6 / DEK 5/8



G

Through-Panel Terminals for devices
Series WGK – connects up to 95 mm²

	WGK 10 VP	WGK 16
	10 mm²	16 mm²
	Solder connection	Screw connection
	 Similar to illustration	
Width/Length/External height mm	10.1 x 24.5 x	12.1 x 63.5 x 40.4
Max. current / Max. wire A/mm²	**76 / 10**	**101 / 25**
Max. clamping range mm²	**0.22...10**	**0.5...25**

Technical data

Rated data	WGK 10 VP	WGK 16
	IEC 60947-7-1	IEC 60947-7-1
	IEC / UL / CUL / CSA	IEC / UL / CUL / CSA
Rated voltage V	250 / 300 / 300	500 / 600 / 600
Rated current A	57 / 65 / 65	76 / 85 / 85
For conductor cross-section mm²	10 / AWG 24...6 / AWG 24...6	16 / AWG 20...4 / AWG 20...4
Rated impulse withstand voltage / Pollution severity -/-	4 kV / 3	6 kV / 3
Gauge to IEC 60947-1 / UL 94 flammability rating	B6 / V-0	B7 / V-0
Approvals	CE; CSA; CURUS; GOSTME25; ROHS	CE; CSA; CURUS; GOSTME25; ROHS
Clamped conductors (H05V/H07V)	**Rated connection**	**Rated connection**
Solid / Stranded mm²	0.5...16 / 0.5...10	0.5...16 / 10...25
Flexible / Stranded wire with end ferrules mm²	0.5...10 / 0.5...10	0.5...16 / 0.5...16
Tightening torque (terminal screw) Nm	1.2...1.8 (M 4)	2...2.3 (M 5)
Stripping length / Blade size mm/-	11 / 0.8 x 4.0 mm	16 / 1.0 x 5.5 mm
Note	Metal walls: 1 - 4 mm = 500 V Plastic walls: 1 - 4 mm = 500 V	Metal walls: 1 - 2.5 mm = 800 V; 2.5 - 4 mm = 690 V; 4 - 6 mm = 500 V; plastic walls: 1 - 6 mm = 800 V

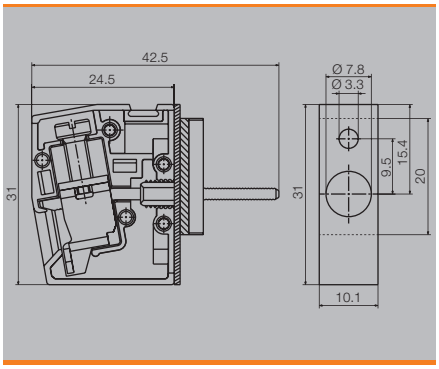
Ordering data

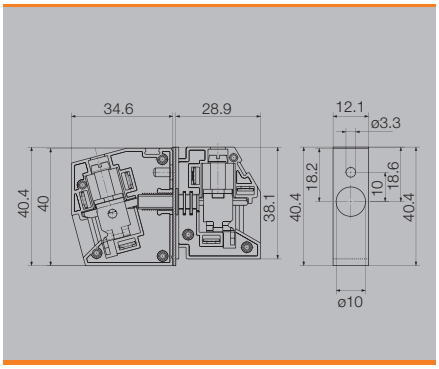
Version	WGK 10 VP	WGK 16
	Type / Qty. / Order No.	Type / Qty. / Order No.
With locking pins grey	WGK 10 VP/Z / 50 / **1003920000**	WGK 16/Z / 50 ST / **1936830000**
With locking pins green/yellow	WGK 10 VP/Z GN/YE / 50 / **1003970000**	WGK 16/Z gn/ye / 50 ST / **1936820000**
With locking pins black		WGK 16/Z SW / 50 ST / **1250870000**
Without locking pins grey	WGK 10 VP / 50 / **1981880000**	WGK 16 / 50 ST / **1936810000**
Without locking pins green/yellow	WGK 10 VP GN/YE / 50 / **1003960000**	WGK 16 gn/ye / 50 ST / **1936760000**
Without locking pins black		WGK 16 SW / 50 ST / **1250860000**
Note		

Accessories

Distance plate	WGK 10 VP	WGK 16
	Type / Qty. / Order No.	Type / Qty. / Order No.
	DP WGK 10 SW / 50 / **1250570000**	DP WGK 16 SW / 50 / **1250580000**
	DP WGK 10 / 50 / **1936440000**	DP WGK 16 / 50 / **1936700000**
Screwdriver		
 Standard	SDIS 0.8X4.0X100 / 1 / **9008400000**	SDIS 1.0X5.5X125 / 1 / **9008410000**
Identification systems (see assortment in catalogue 7) Marking tags	DEK 5/5 / DEK 5/6 / DEK 5/8	DEK 5/5 / DEK 5/6 / DEK 5/8
For detailed information on other accessories and applications, refer to the „Accessories" section		

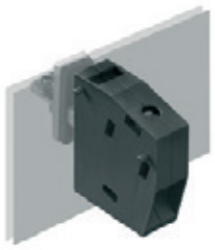
Technical drawing





WGK 16 VP — 16 mm²

Cable lug connection



12.1 x 34.6 x 40
101 / 25
0.5...25

IEC 60947-7-1

IEC	UL / CUL	CSA
500	600	600
76	85	85
16	AWG 20...4	AWG 20...4
6 kV / 3		
B7 / V-0		
CE; CSA; CURUS; GOSTME25; ROHS		

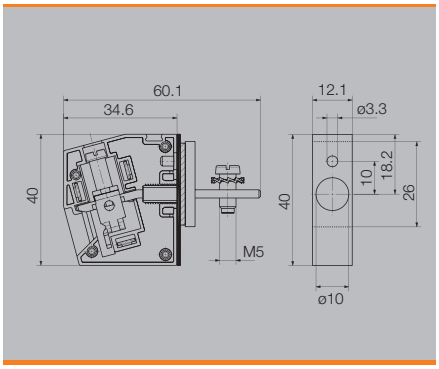
Rated connection
0.5...16 / 10...25
0.5...16
2...2.3 (M 5)
16 / 1.0 x 5.5 mm

Metal walls: 1 – 2.5 mm = 800 V; 2.5 – 4 mm = 690 V; 4 – 6 mm = 500 V; plastic walls: 1 – 6 mm = 800 V

Type	Qty.	Order No.
WGK 16 VP/Z	50 ST	1936800000
WGK 16 VP/Z GN/YE	50 ST	1936790000
WGK 16 VP/Z SW	50 ST	1250830000
WGK 16 VP	50 ST	1936780000
WGK 16 VP GN/YE	50 ST	1936770000
WGK 16 VP SW	50 ST	1250820000

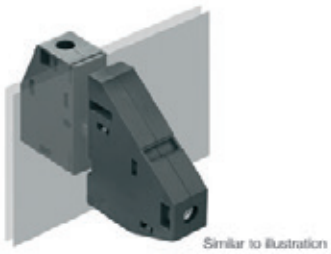
Type	Qty.	Order No.
DP WGK 16 SW	50	1250580000
DP WGK 16	50	1936700000
SDIS 1.0X5.5X125	1	9008410000

DEK 5/5 / DEK 5/6 / DEK 5/8



WGKV 16 — 16 mm²

Screw connection



12.1 x 63.5 x 39.7
101 / 25
0.5...25

IEC 60947-7-1

IEC	UL / CUL	CSA
500	600	600
76	85	85
16	AWG 20...4	AWG 20...4
6 kV / 3		
B7 / V-0		
CE; CSA; CURUS; GOSTME25; ROHS		

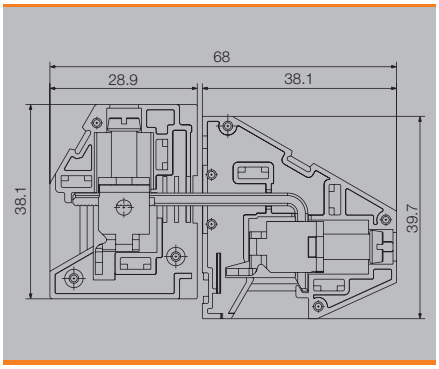
Rated connection
0.5...16 / 10...25
0.5...16 / 0.5...16
2...2.3 (M 5)
16 / 1.0 x 5.5 mm

Metal walls: 1 – 2.5 mm = 800 V; 2.5 – 4 mm = 690 V; 4 – 6 mm = 500 V; plastic walls: 1 – 6 mm = 800 V

Type	Qty.	Order No.
WGKV 16/Z	50 ST	1003940000
WGKV 16/Z GN/YE	50 ST	1003930000
WGKV 16/Z SW	50 ST	1250850000
WGKV 16	50 ST	1003880000
WGKV 16 GN/YE	50 ST	1003950000
WGKV 16 SW	50 ST	1250840000

Type	Qty.	Order No.
SDIS 1.0X5.5X125	1	9008410000

DEK 5/5 / DEK 5/6 / DEK 5/8



WGK 25 — 25 mm²

Screw connection



15.1 x 68.5 x 48.5
125 / 35
5.26...35

IEC 60947-7-1

IEC	UL / CUL	CSA
690	600	600
101	100	100
25	AWG 10...3	AWG 10...3
6 kV / 3		
B8 / V-0		
CE; CSA; CURUS; GOSTME25; ROHS		

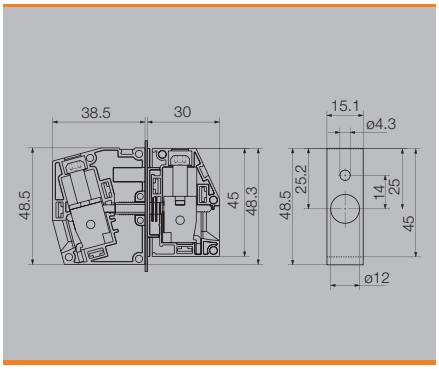
Rated connection
6...16 / 10...35
10...25 / 4...25
4...4.5 (M 6)
18 / 1.2 x 6.5 mm

Metal walls: 1 - 4 mm = 800 V; 4 - 6 mm = 690 V; plastic walls: 1 - 6 mm = 800 V

Type	Qty.	Order No.
WGK 25/Z	50 ST	1936910000
WGK 25/Z GN/YE	50 ST	1936900000
WGK 25/Z SW	50 ST	1250810000
WGK 25	50 ST	1936850000
WGK 25 GN/YE	50 ST	1936840000
WGK 25 SW	50 ST	1250790000

Type	Qty.	Order No.
DP WGK 25 SW	50	1250590000
DP WGK 25	50	1936710000
SDIS 1.2X6.5X150	1	9008420000

DEK 5/5 / DEK 5/6 / DEK 5/8

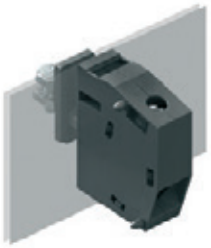


G

Through-Panel Terminals for devices
Series WGK – connects up to 95 mm²

WGK 25 VP — 25 mm²

Cable lug connection



WGKV 25 — 25 mm²

Screw connection



		WGK 25 VP	WGKV 25
Width/Length/External height	mm	15.1 x 38.5 x 48.5	15.1 x 75.75 x 54
Max. current / Max. wire	A/mm²	**125 / 35**	**125 / 35**
Max. clamping range	mm²	**5.26...35**	**5.26...35**

Technical data

Rated data		WGK 25 VP	WGKV 25
Rated voltage	V	IEC 60947-7-1	IEC 60947-7-1
Rated current	A		
For conductor cross-section	mm²		
Rated impulse withstand voltage / Pollution severity	-/-		
Gauge to IEC 60947-1 / UL 94 flammability rating			
Approvals			

IEC	UL / CUL	CSA	WGK 25 VP	WGKV 25
690	600	600		
101	100	100		
25	AWG 10...3	AWG 10...3		
	6 kV / 3			
	B8 / V-0			
	CE; CSA; CURUS; GOSTME25; RHOS			

Rated connection	WGK 25 VP	WGKV 25
	6...16 / 10...35	6...16 / 10...35
	10...25 / 4...25	10...25 / 4...25
	4...4.5 (M 6)	4...4.5 (M 6)
	18 / 1.2 x 6.5 mm	18 / 1.2 x 6.5 mm

Clamped conductors (H05V/H07V)		WGK 25 VP	WGKV 25
Solid / Stranded	mm²		
Flexible / Stranded wire with end ferrules	mm²		
Tightening torque (terminal screw)	Nm		
Stripping length / Blade size	mm/-		

Note	WGK 25 VP	WGKV 25
	Metal walls: 1 - 4 mm = 800 V; 4 - 6 mm = 690 V; plastic walls: 1 - 6 mm = 800 V	Metal walls: 1 - 4 mm = 800 V; 4 - 6 mm = 690 V; plastic walls: 1 - 6 mm = 800 V

Ordering data

With assembly peg		Type	Qty.	Order No.	Type	Qty.	Order No.
With locking pins	grey	WGK 25 VP/Z	50 ST	**1936890000**	WGKV 25/Z	25 ST	**1936750000**
With locking pins	green/yellow	WGK 25 VP/Z GN/YE	50 ST	**1936880000**	WGKV 25/Z gn/ye	25 ST	**1936740000**
With locking pins	black	WGK 25 VP/Z SW	50 ST	**1250760000**	WGKV 25/Z SW	25 ST	**1250780000**
Without locking pins	grey	WGK 25 VP	50 ST	**1936870000**	WGKV 25	25 ST	**1934070000**
Without locking pins	green/yellow	WGK 25 VP GN/YE	50 ST	**1936860000**	WGKV 25 gn/ye	25 ST	**1936720000**
Without locking pins	black	WGK 25 VP SW	50 ST	**1250750000**	WGKV 25 SW	25 ST	**1250770000**

Note	WGK 25 VP	WGKV 25

Accessories

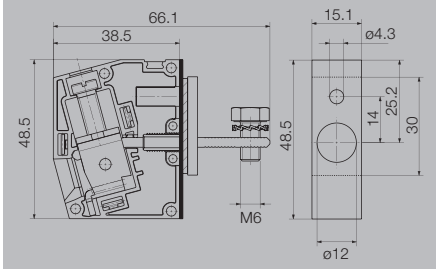
Distance plate	Type	Qty.	Order No.	Type	Qty.	Order No.
	DP WGK 25 SW	50	**1250590000**			
	DP WGK 25	50	**1936710000**			

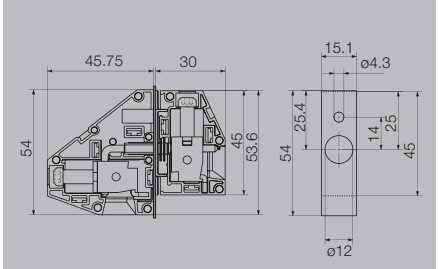
Screwdriver		WGK 25 VP		WGKV 25	
	Standard	SDIS 1.2X6.5X150	1	**9008420000**	SDIS 1.2X6.5X150	1	**9008420000**

Identification systems	(see assortment in catalogue 7)	WGK 25 VP	WGKV 25
	Marking tags	DEK 5/5 / DEK 5/6 / DEK 5/8	DEK 5/5 / DEK 5/6 / DEK 5/8

For detailed information on other accessories and applications, refer to the „Accessories" section

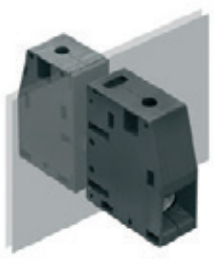
Technical drawing





WGK 50 — 50 mm²

Screw connection



18.8 x 78 x 55
150 / 50
13.3...50

IEC 60947-7-1

IEC	UL / CUL	CSA
690	600	600
150	145	145
50	AWG 6...1	AWG 6...1
8 kV / 3		
B10 / V-0		
CE; CSA; CURUS; GOSTME25; ROHS		

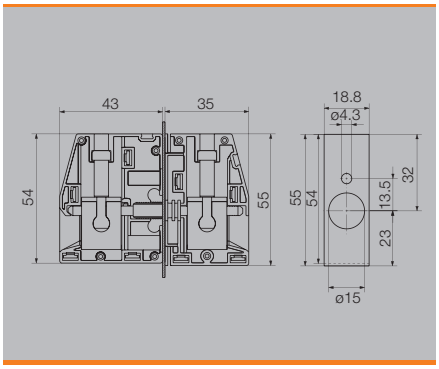
Rated connection
...16 / 16...50
16...50 / 10...50
4...6.5 (M 6)
24 / 1.2 x 8.0 mm

Metal walls: 1 - 2.5 mm = 800 V; 2.5 - 6 mm = 690 V; plastic walls: 1 - 6 mm = 800 V

Type	Qty.	Order No.
WGK 50/Z	10 ST	1937110000
WGK 50/Z GN/YE	10 ST	1937100000
WGK 50/Z SW	10 ST	1250740000
WGK 50	10 ST	1937090000
WGK 50 GN/YE	10 ST	1937040000
WGK 50 SW	10 ST	1250730000

Type	Qty.	Order No.
DP WGK 50 SW	10	1250610000
DP WGK 50	10	1937030000
SDIS 1.2X6.5X150	1	9008420000

DEK 5/5 / DEK 5/6 / DEK 5/8



WGK 50 VP — 50 mm²

Cable lug connection



18.8 x 43 x 54
150 / 50
16...50

IEC 60947-7-1

IEC	UL / CUL	CSA
690	600	600
150	150	150
50	AWG 6...1	AWG 6...1
8 kV / 3		
B10 / V-0		
CE; CSA; CURUS; GOSTME25; ROHS		

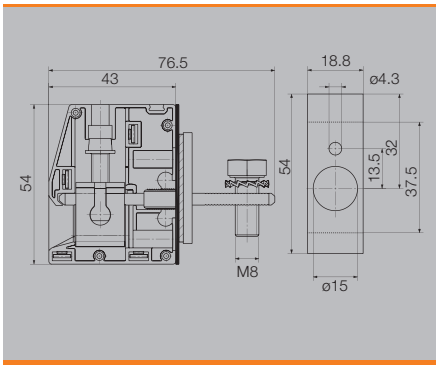
Rated connection
16...16 / 16...50
16...50 / 10...50
4...6.5 (M 6)
24 / 1.2 x 8.0 mm

Metal walls: 1 - 2.5 mm = 800 V; 2.5 - 6 mm = 690 V; plastic walls: 1 - 6 mm = 800 V

Type	Qty.	Order No.
WGK 50 VP/Z	10 ST	1937080000
WGK 50 VP/Z GN/YE	10 ST	1937070000
WGK 50 VP/Z SW	10 ST	1250720000
WGK 50 VP	10 ST	1937060000
WGK 50 VP GN/YE	10 ST	1937050000
WGK 50 VP SW	10 ST	1250710000

Type	Qty.	Order No.
DP WGK 50 SW	10	1250610000
DP WGK 50	10	1937030000
SDIS 1.2X6.5X150	1	9008420000

DEK 5/5 / DEK 5/6 / DEK 5/8



WGK 95 — 95 mm²

Screw connection



25 x 95 x 74
232 / 95
35...95

IEC 60947-7-1

IEC	UL / CUL	CSA
690	600	600
232	230	230
95	AWG 4...4	AWG 4...4
8 kV / 3		
B12 / V-0		
CE; CSA; CURUS; GOSTME25; ROHS		

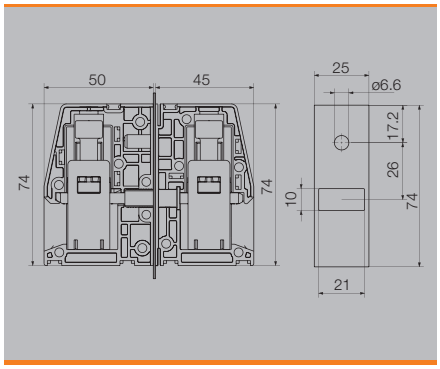
Rated connection
/ 35...95
35...95 / 35...95
15...20 M8/Hexagon
27 /

Metal walls: 1 - 2.5 mm = 1000V; 2.5 - 4 mm = 800 V; 4 - 6 mm = 690 V; plastic walls: 1 - 6 mm = 1000 V

Type	Qty.	Order No.
WGK 95/Z	10 ST	1937400000
WGK 95/Z GN/YE	10 ST	1937390000
WGK 95/Z SW	10 ST	1250690000
WGK 95	10 ST	1937380000
WGK 95 GN/YE	10 ST	1937370000
WGK 95 SW	10 ST	1250680000

Type	Qty.	Order No.
DP WGK 95 SW	10	1250620000
DP WGK 95	10	1937020000

DEK 5/5 / DEK 5/6 / DEK 5/8



G

Through-Panel Terminals for devices
Series WGK – connects up to 95 mm²

WGK 95 F VP — 95 mm²

Cable lug connection



Width/Length/External height	mm	25 x 49.5 x 74
Max. current / Max. wire	A/mm²	**232 / 95**
Max. clamping range	mm²	**35...95**

Technical data

IEC 60947-7-1

Rated data	IEC	UL / CUL	CSA
Rated voltage	690	600	600
Rated current	232	230	230
For conductor cross-section	95	AWG 4...4	AWG 4...4
Rated impulse withstand voltage / Pollution severity		8 kV / 3	
Gauge to IEC 60947-1 / UL 94 flammability rating		B12 / V-0	
Approvals		CE; CSA; CURUS; GOSTME25; ROHS	

Clamped conductors (H05V/H07V)		Rated connection
Solid / Stranded	mm²	/ 35...95
Flexible / Stranded wire with end ferrules	mm²	35...95 / 35...95
Tightening torque (terminal screw)	Nm	15...20 M8/Hexagon
Stripping length / Blade size	mm/-	27 /

Note	
	Metal walls: 1 – 2.5 mm = 1000V; 2.5 – 4 mm = 800 V; 4 – 6 mm = 690 V; plastic walls: 1 – 6 mm = 1000 V

Ordering data

With assembly peg		Type	Qty.	Order No.
With locking pins	grey	WGK 95 F VP/Z	10 ST	**1937140000**
With locking pins	green/yellow	WGK 95 F VP/Z GN/YE	10 ST	**1937360000**
With locking pins	black	WGK 95 F VP/Z SW	10 ST	**1250670000**
Without locking pins	grey	WGK 95 F VP	10 ST	**1937130000**
Without locking pins	green/yellow	WGK 95 F VP GN/YE	10 ST	**1937120000**
Without locking pins	black	WGK 95 F VP SW	10 ST	**1250660000**

Note

Accessories

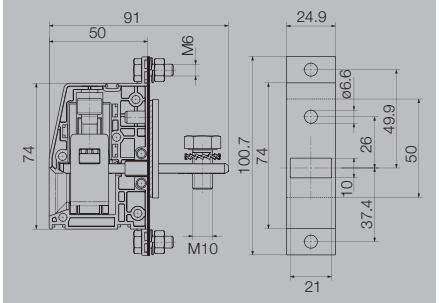
Distance plate	Type	Qty.	Order No.
	DP WGK 95 SW	10	**1250620000**
	DP WGK 95	10	**1937020000**

Screwdriver	
	Standard

Identification systems	(see assortment in catalogue 7)	DEK 5/5 / DEK 5/6 / DEK 5/8
	Marking tags	

For detailed information on other accessories and applications, refer to the „Accessories" section

Technical drawing



		VWGK 4	VWGK 6
		4 mm²	6 mm²
		Solder connection	Solder connection
			
Width/Length/External height	mm	10 x 11.4 x 20.5	10 x 15.5 x 31.5
Max. current / Max. wire	A/mm²	**41 / 6**	**57 / 10**
Max. clamping range	mm²	**0.22...6**	**0.21...10**

Technical data

Rated data		IEC 60947-7-1		
		IEC	UL / CUL	CSA
Rated voltage	V	250	300	300
Rated current	A	32	30	30
For conductor cross-section	mm²	4	AWG 30...10	...10
Rated impulse withstand voltage / Pollution severity	-/-		6 kV / 3	
Gauge to IEC 60947-1 / UL 94 flammability rating			A3 / V-0	
Approvals			CE; CSA; CURUS; ROHS	
Clamped conductors (H05V/H07V)		**Rated connection**		
Solid / Stranded	mm²	0.5...6 / 0.5...4		
Flexible / Stranded wire with end ferrules	mm²	0.5...4 / 0.5...4		
Tightening torque (terminal screw)	Nm	0.6...0.8 (M 3)		
Stripping length / Blade size	mm/-	8 / 0.6 x 3.5 mm		
Note		Metal walls: 1 – 4 mm = 500 V Plastic walls 1 – 4 mm = 500 V		

Rated data		IEC 60947-7-1		
		IEC	UL / CUL	CSA
Rated voltage	V	500	300	300
Rated current	A	41	50	50
For conductor cross-section	mm²	6	AWG 22...10	...10
Rated impulse withstand voltage / Pollution severity	-/-		6 kV / 3	
Gauge to IEC 60947-1 / UL 94 flammability rating			A5 / V-0	
Approvals			CE; CSA; CURUS; ROHS	
Clamped conductors (H05V/H07V)		**Rated connection**		
Solid / Stranded	mm²	0.5...10 / 0.5...6		
Flexible / Stranded wire with end ferrules	mm²	0.5...6 / 0.5...6		
Tightening torque (terminal screw)	Nm	0.8...1.8 (M 3.5)		
Stripping length / Blade size	mm/-	13 / 0.8 x 4.0 mm		
Note		Metal walls: 1 – 4 mm = 500 V. Plastic walls: 1 – 4 mm = 500 V		

Ordering data

With assembly peg		Type	Qty.	Order No.
With locking pins	grey	VWGK 4	50 ST	**1936490000**
With locking pins	green/yellow	VWGK 4 GN/YE	50 ST	**1936480000**
With locking pins	black	VWGK 4 SW	50 ST	**1250650000**
Without locking pins	black			
Without locking pins	grey			
Without locking pins	black			
Note				

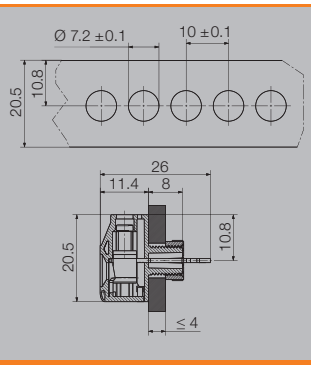
Type	Qty.	Order No.
VWGK 6	50 ST	**1965740000**
VWGK 6 GN/YE	50 ST	**1965730000**
VWGK 6 SW	50 ST	**1250640000**

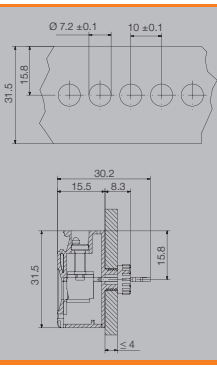
Accessories

Distance plate		Type	Qty.	Order No.
		DP VWGK 4 SW	50	**1251030000**
		DP VWGK4	50	**1936430000**
Screwdriver				
	Standard	SDIS 0.6X3.5X100	1	**9008390000**
Identification systems	(see assortment in catalogue 7)			
	Marking tags	KSW 4		
For detailed information on other accessories and applications, refer to the „Accessories" section				

Type	Qty.	Order No.
DP VWGK 6 SW	50	**1250630000**
DP VWGK6	50	**1965750000**
SDIS 0.8X4.0X100	1	**9008400000**
DEK 5/5 / DEK 6/6 / DEK 5/8		

Technical drawing





OMNIMATE Power Accessories

OMNIMATE Power Accessories

Strain relief	H.2
Shielding	H.3
Coding elements	H.4
Anti-twist mechanism	H.4
Test plug	H.4
Screwdrivers	H.5
Identification systems	H.6

BV/SV 7.62HP/02 ZE GR

Strain relief



Ordering data

Colour		grey
Type	Qty.	Order No.
BV/SV 7.62HP/02 ZE GR		1937550000

BV/SV 7.62HP/04 ZE GR

Strain relief

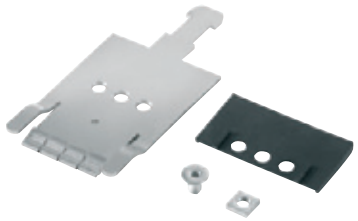


Ordering data

Colour		grey
Type	Qty.	Order No.
BV/SV 7.62HP/04 ZE GR		1937560000

BVF 7.62HP SH180 4-6 KIT

Shield support

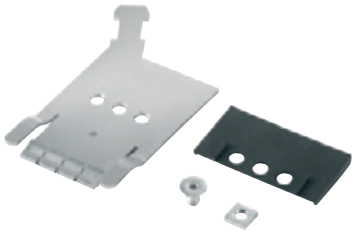


Ordering data

Colour		grey
Type	Qty.	Order No.
BVF 7.62HP SH180 4-6 KIT		1118470000

BVF 7.62HP SH150 4-6 KIT

Shield support

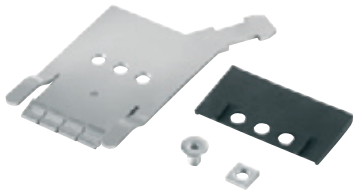


Ordering data

Colour		grey
Type	Qty.	Order No.
BVF 7.62HP SH150 4-6 KIT		1118480000

BVF 7.62HP SH150 4-6 KIT

Shield support



Ordering data

Colour		grey
Type	Qty.	Order No.
BVF 7.62HP SH210 4-6 KIT		1118490000

BV/SV 7.62 KO

Coding element



BV/SV 7.62 KO

Anti-twist mechanism





PS 2.0 MC

Test plug



- For conductors up to 0.75 mm² (AWG 18).
- Gold-plated lantern-type contact.
- Conductor must be soldered to contact in test plug.

Ordering data

Typ	Qty.	Order No.
BV/SV 7.62HP KO	100	**1937590000**

Ordering data

Type	Qty.	Order No.
SV 7.62 VDS	1	**1853940000**

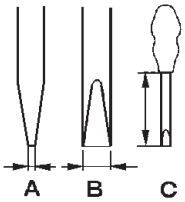
Ordering data

Typ	Wire cross-sections	Qty.	Order No.
PS 2.0 MC	≤ 0,75 mm²	20	**0310000000**

SDI

VDE-insulated slotted screwdriver





VDE-insulated slotted screwdriver, SDI

- DIN 7437, ISO 2380/2
- Output acc. to DIN 5264, ISO 2380/1
- SoftFinish® handle

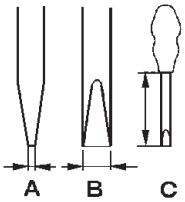
Ordering data

Type	Dims. (mm)	A	B	C	Order No.
SDI		0,4	2,5	75	**9008370000**
SDI		0,5	3,0	100	**9008380000**
SDI		0,6	3,5	100	**9008390000**
SDI		0,8	4,0	100	**9008400000**
SDI		1,0	4,5	125	**9008910000**
SDI		1,0	5,5	125	**9008410000**
SDI		1,2	6,5	150	**9008420000**
SDI		1,6	8,0	175	**9008430000**

SD

Slotted screwdriver with round blade





Slotted screwdriver with round blade, SD

- DIN 5265, ISO 2380/2
- Output acc. to DIN 5264, ISO 2380/1
- ChromTop tip
- SoftFinish® handle

Ordering data

Typ	Dims. (mm)	A	B	C	Order No.
SD		0,4	2,5	75	**9009030000**
SD		0,5	3,0	80	**9008320000**
SD		0,6	3,5	100	**9008330000**
SD		0,8	4,0	100	**9008340000**
SD		0,8	4,5	125	**9009020000**
SD		1,0	5,5	150	**9008350000**
SD		1,2	6,5	150	**9009010000**

SDK PH/PZ

Crosshead screwdriver





Crosshead screwdriver PH (Philips)

- SDK PH DIN 5262, ISO 8764/2-PH
- Output acc. to ISO 8764-PH
- ChromTop tip
- SoftFinish® grip

Crosshead screwdriver PZ (Pozidrive)

- SDK PZ DIN 5262, ISO 8764/2-PZ
- Output acc. to ISO 8764-PZ
- ChromTop tip
- SoftFinish® grip

Ordering data PH

Type	Dims. (mm)	A	B	C	Order No.
SDK PH0	0			60	**9008470000**
SDK PH1	1			80	**9008480000**
SDK PH2	2			100	**9008490000**
SDK PH3	3			150	**9008500000**

Ordering data PZ

Type	Dims. (mm)	A	B	C	Order No.
SDK PZ1	1			80	**9008530000**
SDK PZ2	2			100	**9008540000**
SDK PZ3	3			150	**9008550000**

KSW 4 / KSW 2.5

Marking strips



KSW marking strips are suitable for labelling multi-pole PCB terminals and connectors.
The white, self-adhesive strips are made from a non-PVC, environmentally friendly material. These marking strips provide individual printing, i.e. are suitable for every pitch. Available in two widths: 2.5 and 4.0 mm.

Printed strips

KSW 4	Pitch
Char.	7.62 mm
1–8	1700680001
1–12	1652270001
1–16	–
1–24*	–

KSW 2.5	Pitch
Char.	7.62 mm
1–8	–
1–12	–
1–16	–
1–24*	–

Technical data

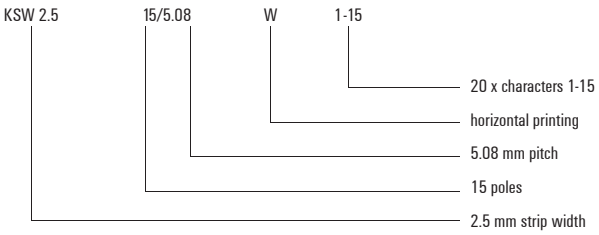
Material data	
Material	polyester with white surface
Adhesive	acrylic base
Temperature range	–40 °C to +150 °C
Min. bonding temperature	+4 °C
Flammability	self-extinguishing after 15 s

No. of marking strips per sheet

up to 20 poles = 20 strips per sheet
* more than 20 poles = 15 strips per sheet

Ordering example

Order No. 1630060001



Blank strips

	Length of strip		
	50 mm	100 mm	150 mm
KSW 4	1629970000	1629990000	1630010000
KSW 2.5	1629960000	1629980000	1630000000

Custom printing to specification

	Length of strip		
	50 mm	100 mm	150 mm
KSW 4	1629910000	1629930000	1629950000
KSW 2.5	1629900000	1629920000	1629940000

Direct printing





We can also print directly on your plug and socket connectors to your specification. Please ask for details.

DEK 5

Dekafix system



1 2 3 4 5 6 7 8 9 10
Horizontal printing

1 2 3 4 5 6 7 8 9 10
Mounted as strip

1 2 3 4 5 6 7 8 9 10
Vertical printing

1 2 3 4 5 6 7 8 9 10
Mounted singly

Dekafix is supplied in packs of 10 cards with 50 individual tags per card.
Dekafix tags are white with black printing as standard.

Technical data

Material data	
Material	polyamide
Temperature range	– 40 °C to +100 °C
Flammability rating	UL 94 V-2
Contents	silicone-free, halogens below minimum detectable level self-extinguishing after 15 s
Mounting	as strips or singly depending on type of carrier
Printing	black printing, standard or to customer specification
Smudge resistance	to DIN IEC 50
Custom printing	according to list or data exchange by diskette or modem
Colour	to international colour code
Max. characters DEK 5	3 horizontal/3 vertical up to 2.5 mm font size

Custom printing to specification

Colour	Order No.	Colour	Order No.	Colour	Order No.	Qty. 500
❍ white	0490760000	(Note: white has a different order No; otherwise, please state colour when ordering.)				
● black	0490790000	● yellow	0490790000	● violet	0490790000	
● brown	0490790000	● green	0490790000	● grey	0490790000	
● red	0490790000	● blue	0490790000	● orange	0490790000	

Blank

Colour	Order No.	Colour	Order No.	Colour	Order No.	Qty. 500
● black	0473391694	● yellow	0473391687	● violet	0473391689	
● brown	0473391692	● green	0473391688	● grey	0473391691	
● red	0473391686	● blue	0473391693	❍ white	0473360000	
● orange	0473391690					

Printed tags

(horizontal only)	Character	Order No.
Tags with individual letters A A A A A A A A A A	A	0522761021
	B	0522761022
	C	0522761023
	D	0522761024
	E	0522761025
	F	0522761026
	G	0522761027
	H	0522761028
	I	0522761029
	J	0522761030
	K	0522761031
	L	0522761032
	M	0522761033
	N	0522761034
	O	0522761035
	P	0522761036
	Q	0522761037
	R	0522761038
	S	0522761039
	T	0522761040
	U	0522761041
	V	0522761042
	W	0522761043
	X	0522761044
	Y	0522761045
	Z	0522761046

	Character	Horizontal	Vertical
50 consecutive numbers 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	1 ... 50	0473460001	0473560001
	51 ... 100	0473460051	0473560051
	to	The last 3 digits of the order No. indicate the first character.	
	951 ... 999	0473460951	0473560951
10 consecutive numbers 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	1 ... 10	0523060001	0460660001
	11 ... 20	0523060011	0460660011
	to	The last 3 digits of the order No. indicate the first character.	
	91 ... 100	0523060091	0460660091
Individual numbers 1 1 1 1 1 1 1 1 1 1	1	0522660001	–
	2	0522660002	–
	to	The last 3 digits of the order No. indicate the first character.	
	200	0522660200	–
Various symbols L1 L2 L3 N PE L1 L2 L3 N PE	L1, L2, L3, N, PE	0354361187	–
Single symbols + + + + + + + + + + L1 L1 L1 L1 L1 L1 L1 L1 L1 L1	plus +	0576261198	–
	minus –	0576261199	–
	PE	–	0157261187
	L1	0522361075	–
	L2	0522361076	–
	L3	0522361077	–
	earth	0576261202	0157261202
	earth in circle	0576261203	0157261203
	AC ~	0576261215	–
Individual card (state characters and orientation when ordering)		0490760000	0490760000
Coloured blank Dekafix (state colour when ordering)		0473390000	0473390000
Coloured printed Dekafix = custom printing (state colour and characters when ordering)		0490790000	0490790000

OMNIMATE Housing
Housings for electronics

OMNIMATE Housing
Housings for electronics

OMNIMATE Housing		
	Explanation	I.2
	Orientation guide	I.4
CH20M		
	Explanation	I.6
	Orientation guide	I.14
	Technical data	I.16
MICROBOX / TERMINALBOX		
	Explanation	I.36
	Technical data	I.38
Profile housing		
	Explanation	I.40
	Orientation guide	I.42
	Technical data	I.44

OMNIMATE Housing
Housings for electronics

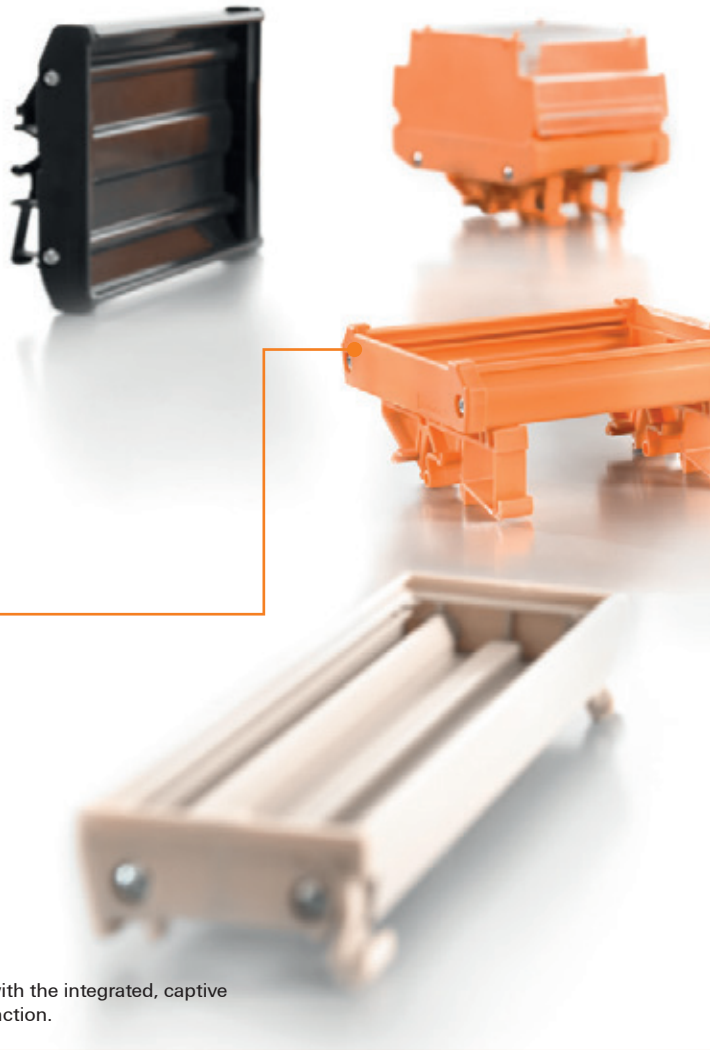
The perfect platform for form and function – including terminal layouts, bulk products and "tailor-made suits straight off the rack".

Weidmüller´s electronics provide a state-of-the-art platform for electronics applications: for all design types and usage areas. The application and its requirements are the foundation for the housing design:

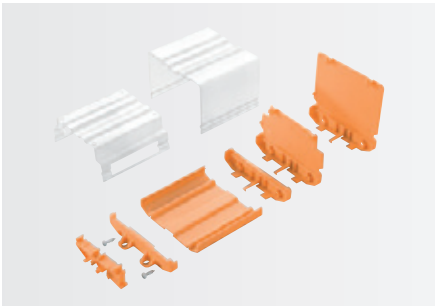
Component housings using the standard pitch sizes are particularly well suited for standardised electrical cabinet applications.

Because of their excellent flexibility and variability, profile housings are the perfect solution for custom constructions and small-batch series.

The perfect blend of design, connection technology and functionality result in a design that is well tailored to market and application requirements.



Flexibility
Profile housing – the perfect solution for custom constructions and smallbatch series.



Innovation
Attention to detail: with the integrated, captive "AutoSet" coding function.



Reliability
Weidmüller´s legendary quality and well established, proven connection technology guarantee maximum availability for your systems.





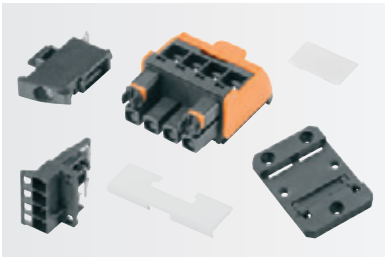
Component housing for mounting on rail
Component housing: function, form and processing all contribute to a single cohesive unit that offers safety, manufacturing efficiency and usability.



Assembly housing in profile shape
Assembly housing in profile shape - the flexible modular system of coloured and transparent plastic profiles and support modules provides the optimum balance between flexibility and efficiency.



Accessories
Comprehensive range of system accessories for integrating your assembled electronics "package" into the system environment - from attachment and connection to marking systems.



Efficiency
Reduce costs and increase productivity: SMT/SMD connectors packed suitably for fully automated production.



Electronics housings

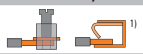
With 6 housing systems, Weidmüller's electronics housing portfolio offers a platform for electronic applications in any design and for all application areas.

Detailed design information and the most important product-related data is available on the respective product pages. Data sheets and CAD models are available online for download.

CH20M – Modular component housing

Page I.6



System description (key points)	Component housing system IP 20
Scalability	• 7 housing widths from 6 to 67.5 mm:
Widths	• 6,1 / 12,5 / 17,5 / 22,5 / 35[1] / 45 / 67,5
Design	• individually configurable
Production	• 100% reflow soldering compatible (automated)
Application	• networked with mounting rail bus
Connection system	**Connectors (touch-safe both sides)**
Number of conductors that can be connected	• 4 - 72
Number of connection levels on each side	• 1 - 3 
Design options	**Individually configurable**
Housing design	• asymmetrical port configuration • individual processing / modification
PCB layout	• large net layout space of up to 9000 mm ² • up to 3 flexibly positioned PCBs • both sides can be fitted with components (underside: + 5mm)
Labelling & marking	• Pad & laser printing • Device markers for female connector • Device markers for hinged cover
Standard housing colours (Other colours on request)	
Additional features	**Optional or standard**
optional (excerpt)	• Integrated mounting rail bus • FE mounting rail contac
standard (excerpt)	• Connection areas: lockable slots • integrated, captive 16-fold "AutoSet" coding • integrated ejector and plus / minus screws • "Wire ready" and "wire guard" (protection against mis-inserting) • transparent hinged cover, sealable

Legend of symbols



Clamping yoke screw connection



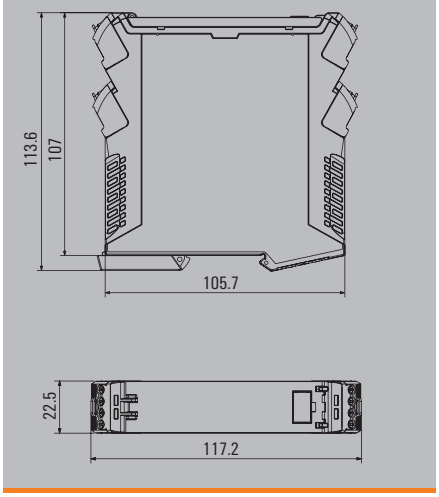
PUSH IN spring connection



Tension clamp connection

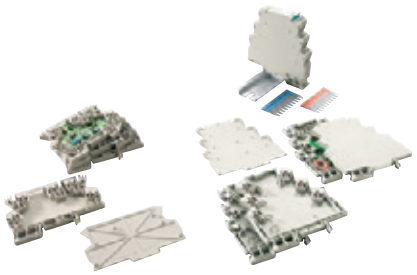
Note: 1) On request

Housing dimensions (exemplary)



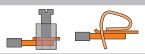
MICROBOX - Small housing
TERMINALBOX - Terminal housing

Page I.36



Small housing IP 20
- MICROBOX: 6.1 mm
- TERMINALBOX: 6.0 mm
- Miniature plate housing
- Compact enclosure in terminal format
- e.g. for I/O-plate applications

Connection terminals
- 4 - 6
- 2 - 3



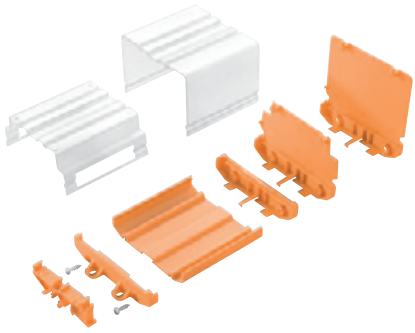
2 versions:
- MICROBOX: closed
- TERMINALBOX optionally with cover plate

- Pad-print printing

Optional:
- Cross-connector 32 A

RS 45-122 Profile housing variable

Page I.42



Variable extruded profile case IP 20
- Extruded profile cut to precise length
- Standard length 2m, optionally cut to size
- circuit boards 45 to 122 mm
- precisely cut lengths
- Modules protected with a clear cover

Female connectors or terminals
- as needed
- 1 - 3



Passgenau kombinierbar:
- See-through covers in 2 sizes
- End plates in 3 sizes

- Standard circuit cards (EURO format)
- Up to 2 PCBs stackable
- Double-sided installation

- Pad-print printing
- Standard connector markings
- Marking strips for the cover hood

Optional:
- direct mounting

RS 70 - Profile housing modular

Page I.45



Modular extruded profile case IP 00
- Extruded profile, stackable modular
- Elements of 5 / 10 / 15 / 25 / 30 / 45 mm
- for 68 mm circuit boards
- tool-free installation
- sub-assembly accessible when opened

Female connectors or terminals
- as needed
- 1 - 3



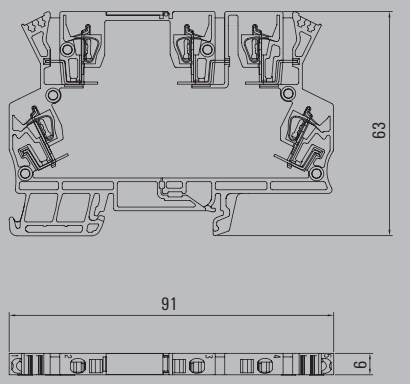
tool-free installation:
- 1 snap-on foot
- 5 different intermediate elements

- Standard circuit boards
- Double-sided installation

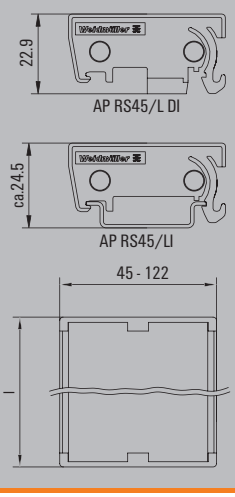
- Pad-print printing
- Standard connector markings

Optional:
- direct mounting

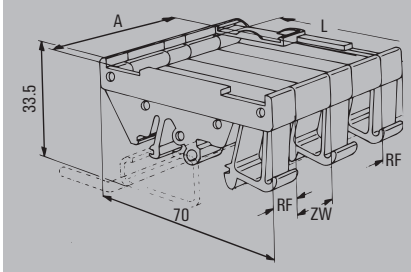
Housing dimensions (exemplary)



Housing dimensions (exemplary)



Housing dimensions (exemplary)



Individual design by combining form, function and appearance

CH20M (Component Housing IP 20 Modular) – Weidmüller's new housing standard – represents the ideal platform for basing customised electronic applications.

Like a "tailor-made suit straight off the rack", the ground breaking module concept combines freedom in design with the low cost and planning security of a standard system.

In addition to scalability, a high level of safety and innovative functionality in the application, the system also convinces with superior attention to detail.

The results are quicker installation, user-friendly operation, high operational reliability and resistance to interference. From development to production, the CH20M represents efficiency. It covers all of the requirements for a modern electronics platform built with the future in mind.



Designed configuration
As many connections as you require and as affordable as you need: scalable connection levels, up to 72 wire connections, individually configurable for each side with 1, 2 or 3 connection levels across all housing widths.



Designed basic colours
With a focus on the important elements: the unobtrusive housing colours (black graphite, grey graphite and light grey) make a competent impression without distracting from the key operational and display elements.



Designed printing
Detailed symbols, data, graphics or text can be printed (with either laser or pad printing) on the large surface available on the housing element.

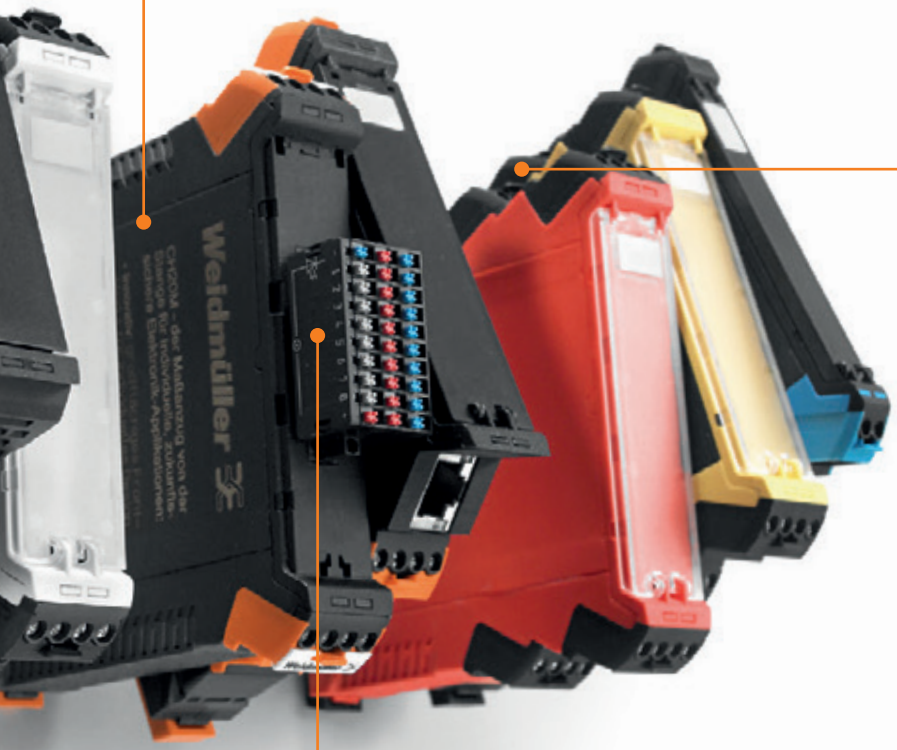


Designed optical appearance
The standard variants, with their modularity and variety, enable you to customise a wide range of designs to fit your application.



Designed functionality
Our comprehensive, standardised configuration variants can be further supplemented with modification and design changes to fit your custom needs.





Designed modifications
Modifying after the configuration: for example by integrating the pluggable 30-pole BL-I/O LED digital I/O connection level in the front or with the RJ45 socket on the side.



Designed functional colours
More operational confidence with functionally appropriate colour coding: three functional colours (red, yellow and blue coding) can be assigned to key industrial applications.



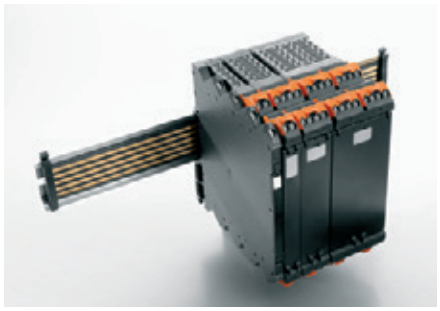
Power, signals and data are provided, connected and distributed securely and consistently

This customer-friendly bus solution brings power, signals and data to the rail in a quick and reliable manner. When supplying, connecting or distributing within modular applications, the rail bus can replace the tedious individual wiring process with a flexible and uninterrupted system solution. As a result, the wiring overhead and the error rate are both reduced. Redundant functions within complex applications can be efficiently centralised or intelligently distributed.

Power
Signal
Data

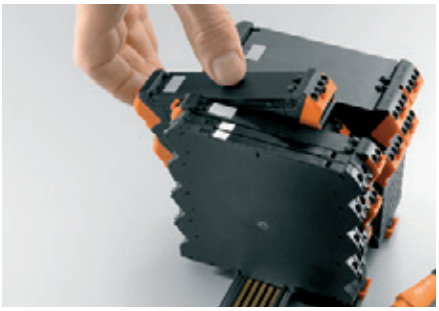
The system bus is securely integrated within the 35 mm standard mounting rail. The SMD-bus contact block can be reflow-soldered so that it can be completely automatically processed during the component assembly. The resistant, gold-plated contact surfaces ensure a permanent and reliable contact for all housing widths.

Scalability with no limits
Unique: The integrated connection solution covers all system widths: from the 6 mm slice to the 67 mm large-area housing.

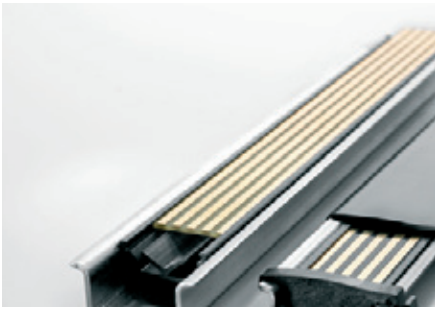




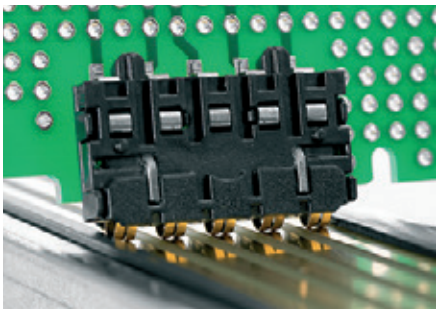
Easy to service during installation:
Quick: It's easy to replace a module, even in existing modules groups – without any influence on the neighbouring modules.

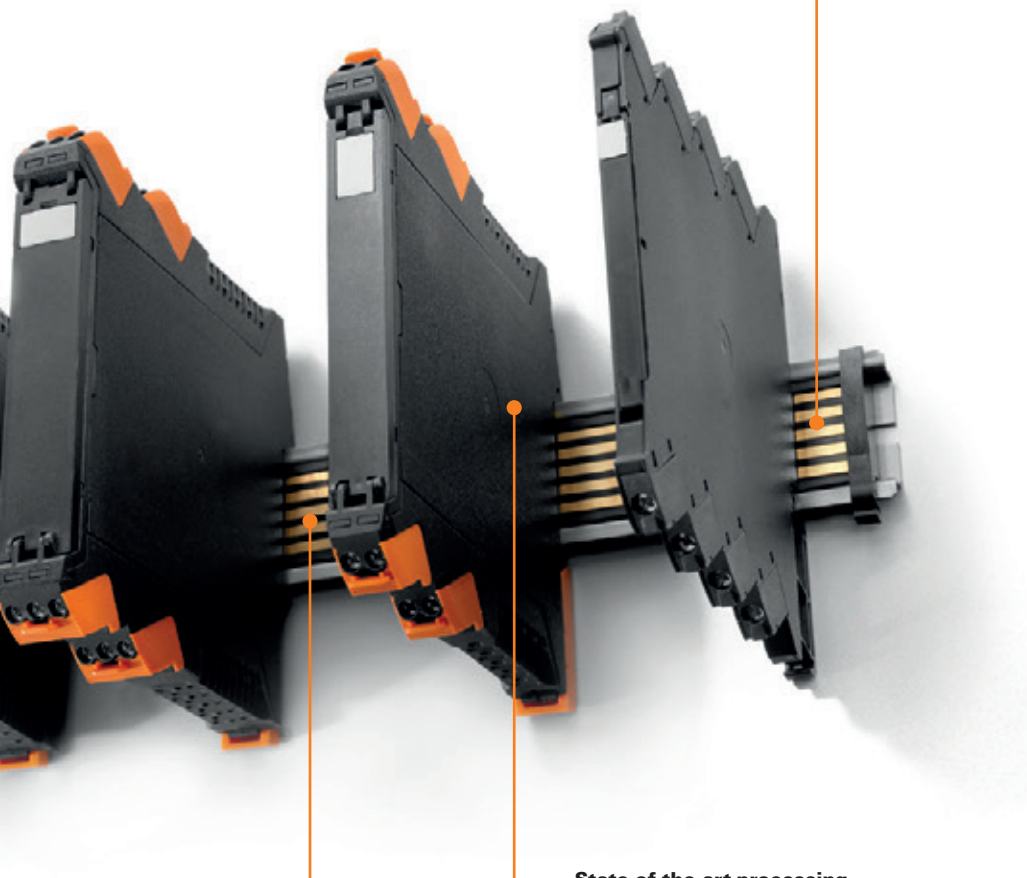


Unlimited configuration
Compatible: The individual modules can be positioned anywhere on any TS-35 standard top-hat rail. Unused areas are safely covered.

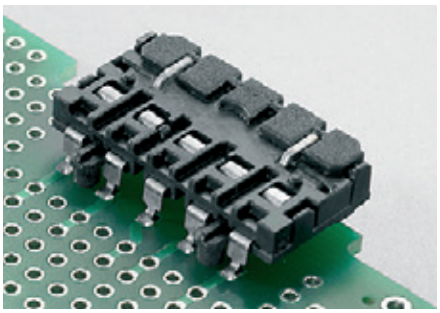


Maximum availability:
Reliable: Five fully-galvanised and partially gold-plated twin-arched contacts are used to establish a permanent contact to the rail bus. THR solder flanges ensure that the connection to the circuit board is stable.

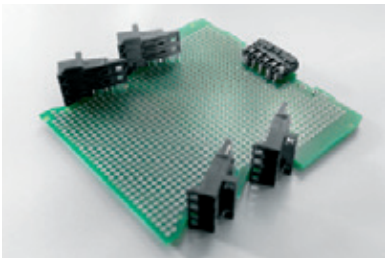




State-of-the-art processing
Efficient: The SMD-compatible bus contact block is made from high-temperature-resistant LCP. It is designed for the SMT reflow process and is delivered in machine-ready packaging.



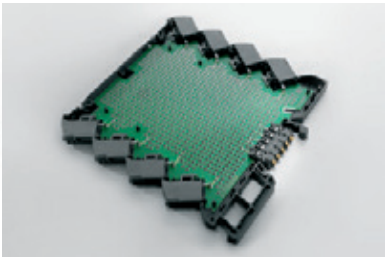
Affordable assembly
Fully automatic: No manual post processing is required for the bus contact block – it is processed with the assembly group in a single SMT assembly process.



Safe installation
Low loss: You can safely avoid undesired bus interruptions and high contact resistances. Maximum facility availability ensured by the old-plated contact surfaces on the system bus and contact block, as well as the consistent system design.

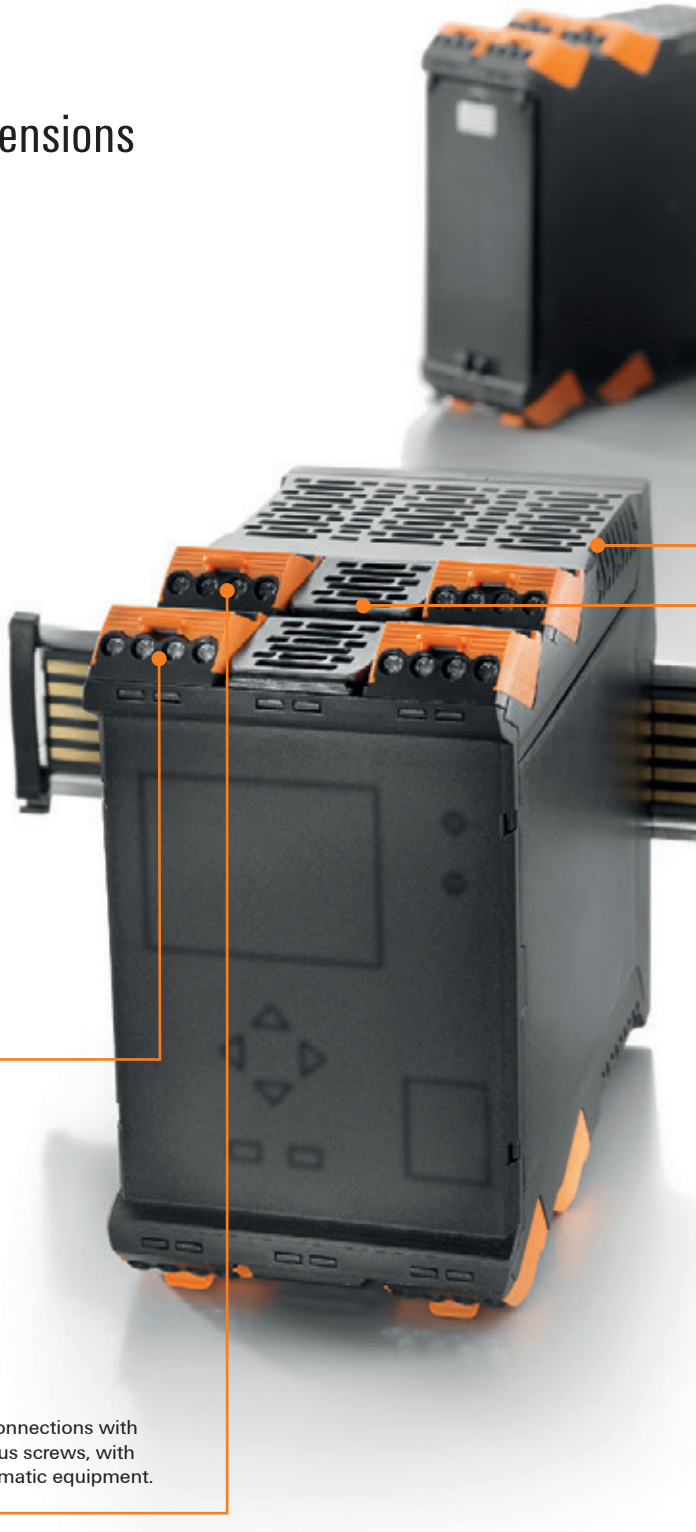


More flexibility in design
From design through production to application - CH20M6 sets the market standard with maximal board space with minimal exterior dimensions as well as allowing fully automatic reflow processing or bus connections.



OMNIMATE Housing – CH20M-67

The new housing offers new assembly dimensions in the 67.5 mm equipment class.



The CH20M-67 sets new standards on the market as a large-scale housing in terms of flexibility for integrating intricate electronic subassemblies. You can distribute the electronic functions over as many as three printed-circuit boards. The front surface of the housings also has a unique size that can be used for freely laying out the operator interface.

Like all housings of the CH20M family from Weidmüller, the CH20M-67 also supports the connection to the mounting rail bus. The system bus is reliably integrated into the 35-mm standard mounting rail and replaces painstaking and error-prone individual wiring.

More reliability when connecting the conductors
Series equipment: The built-in conductor wire guard underinsertion protection prevents the hazardous underinsertion of the conductor and protects it from concealed contact faults. Being wire ready ensures that all connecting points are completely open at delivery.



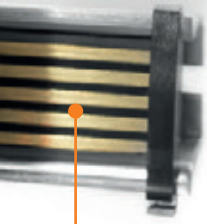
More speed at installation
Series equipment: Screwed connections with wiring, supported by plus-minus screws, with power tools just right for automatic equipment.





More layout area
The side ventilation openings are standard equipment in the semi-cooling design and provide sufficient convection for demanding electronics with the maximised layout area on the printed-circuit board.

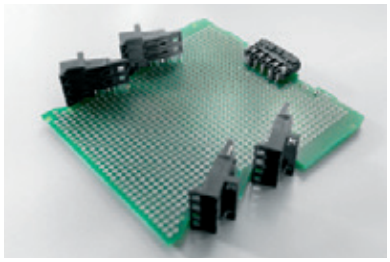




More flexibility for interfaces
Unused plug-in stations or connections that are only accessible from the factory side can be reliably and permanently sealed with the optional AD-SHL-SMT cover.



More design freedom
There is room for one to three printed-circuit boards placed on both sides CH20M-67. There is maximum design flexibility since each printed-circuit board can take four freely selectable positions in the housing.



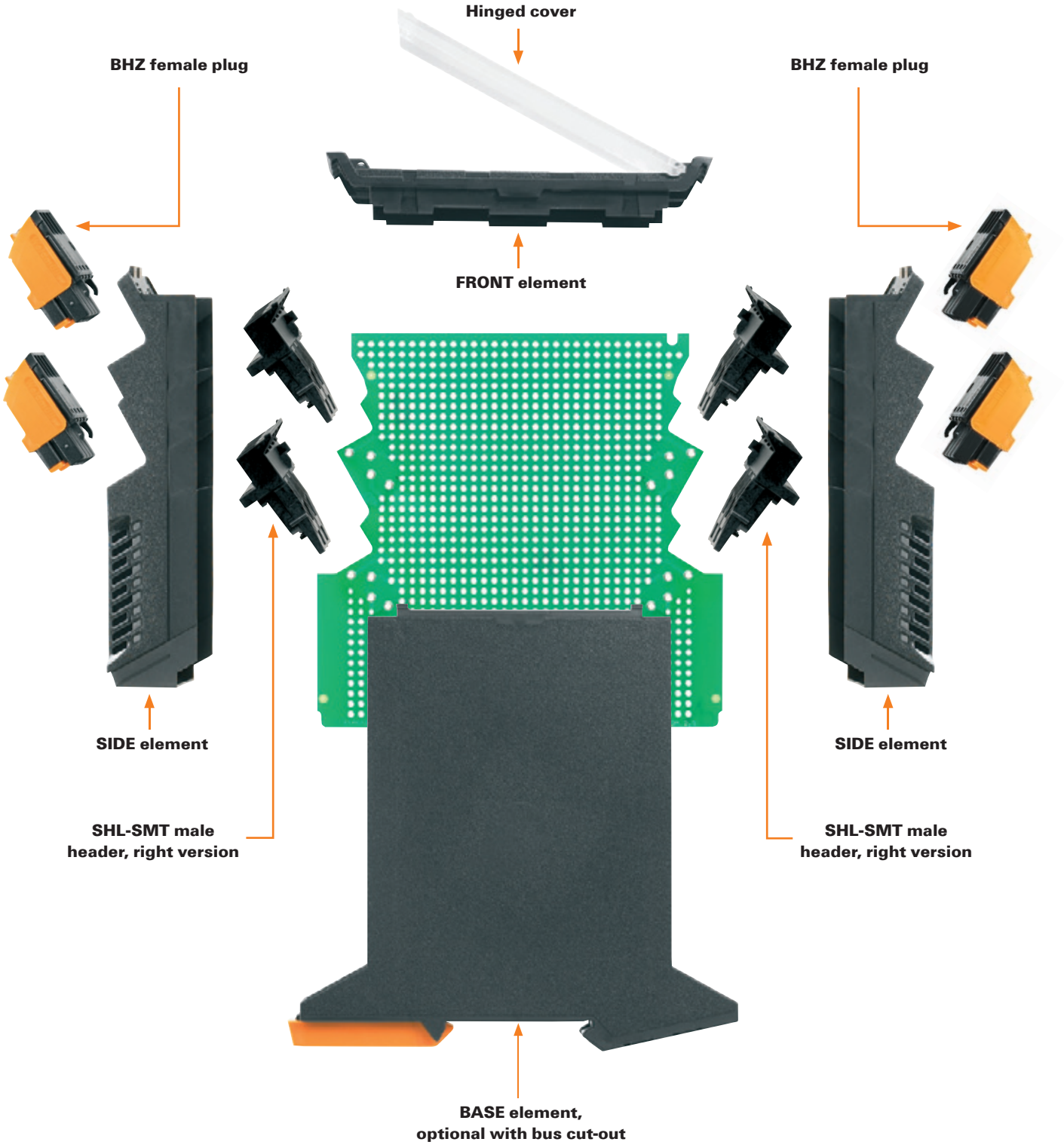
More mounting space
The printed-circuit boards can be positioned at a distance of 2.3 mm (and also 5 mm to the housing wall). This gives you the free choice of single- or double-sided assembly.



More stability on the mounting rail
The built-in click-in base is premounted at the factory which guarantees easy, reliable and vibration-free fastening on the DIN mounting rail. A guide with four points of support provides a solid base.



OMNIMATE Housing – System CH20M
System overview





Hinged cover, transparent **CH20M22 C TP**
on FRONT element, black **CH20M22 F BK**



Hinged cover, black **CH20M22 C BK**

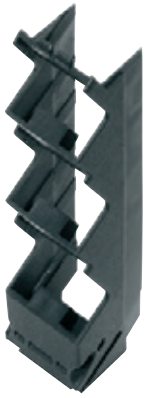


FRONT element, black **CH20M22 F BK**



FRONT element, black:
for use without hinged cover
CH20M22 FC BK

Connection area (SIDE) with 1-3 levels



Black SIDE element
3-row 12 connections
CH20M22 S PPP BK

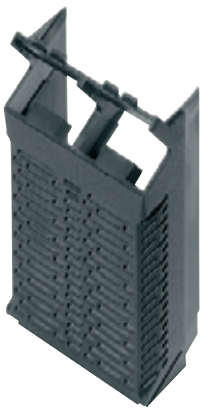


Black SIDE element
2-row 8 connections
CH20M22 S PPSC BK

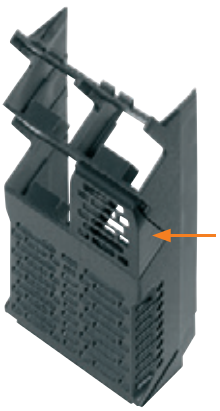


Black SIDE element
1-row 4 connections
CH20M22 S PSCSC BK

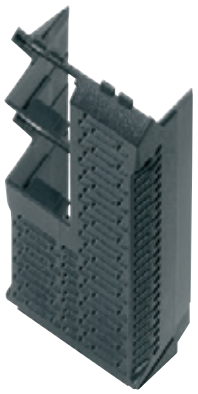
Connection area (SIDE) with 1-3 levels and varying connection configurations



Black SIDE element
1-row 8 connections-
CH20M45 S P2SC/P2SC BK



Black SIDE element
2-row 16 connections
CH20M45 S 2PSC/2PSC BK,
incl. Male header
CH20M AD-SHL



Black SIDE element
2-row 8 connections
CH20M45 S 2PSC/3SC BK



Black SIDE element
2-row 8 connections
CH20M45 S 3SC/2PSC BK

OMNIMATE Housing
Component housing system CH20M

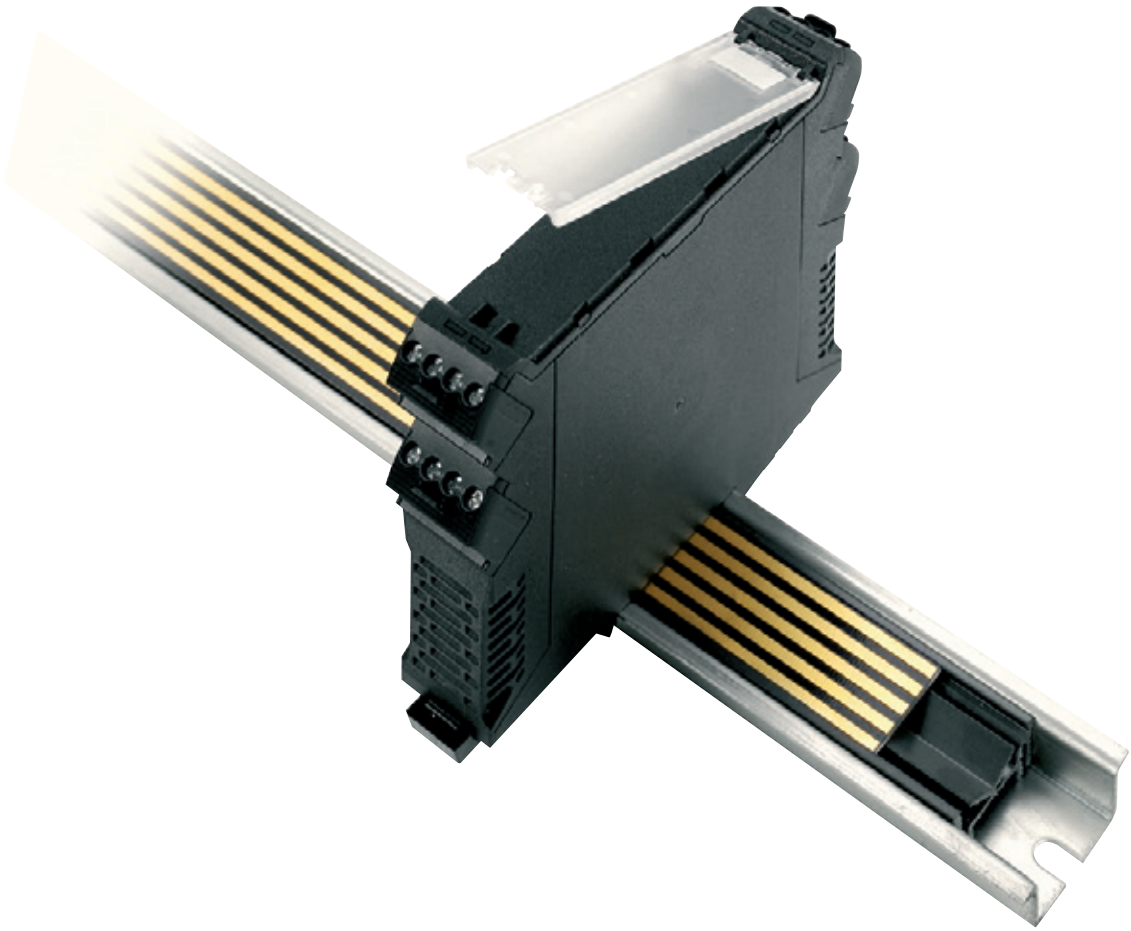
The module electronics housing system – CH20M (**C**omponent **H**ousings IP**20 M**odular) – is designed for seven widths.

Width	Type	Sample kit including wire connection mechanism	Catalogue pages
6.1 mm	CH20M6	1203290000 CH20M6 S-Kit	I.16
12.5 mm	CH20M12	1167190000 CH20M12 S-Kit	I.18
17.5 mm	CH20M17	1255820000 CH20M17 S-Kit	I.20
22.5 mm	CH20M22	1158390000 CH20M22 S-Kit	I.22
35 mm	CH20M35	On request	
45 mm	CH20M45	1203350000 CH20M45 S-Kit	I.24
67 mm	CH20M67	On request	I.26

Note: The sample kit contains all individual parts for setting up a housing, including the circuit board and wire connection mechanism.

Colour scale[1)]
Similar to RAL 9011
Similar to RAL 7024
Similar to RAL 7035
Similar to RAL 5012
Similar to RAL 1003
Similar to RAL 3000

Note 1) Other colours on request



Housing elements	Description / Type	Design options
Hinged cover	**COVER (CH20Mxx C xx)**	**Transparent**
	• Transparent (light or dark) • Holds itself in place when opened • Sealable	• pad printing • markable • machinable
Housing front	**FRONT (CH20Mxx F xx)**	1)
	• Large usable surface for the operational and display elements • Can be customised	• laser marking • With hinges for cover • Optionally closed (without hinged cover)
Connection area	**SIDE (CH20Mxx S xx)**	1)
	**SIDE element:** • 1 - 3 connection levels • Can be configured asymmetrically • For up to 3 circuit boards • Up to 72 wires can be connected	• laser marking • 1 - 3 plugging levels • Up to 3 circuit boards, can be populated on both sides up to 5 mm on bottom of board • with or without bus cut-out
Housing base	**BASE (CH20Mxx B xx)**	1)
	**BASE element:** • For TS 35 DIN rails • Pre-attached snap-on foot • ESD-protected (8kV acc. to EN 61000-4-2) • All elements are permanently snapped in	• laser marking • with or without bus cut-out • Optional FE contact • Snap-on foot in 2 standard colours (orange + black)
Connection system	**BHZ female plug / SHL male header**	1)
	**Female plug / male header:** • Reflow compatible • Can be automatically processed • Integrated "AutoSet" coding • Release clip is standard	• Headers packaged in box or on tape • Clamping yoke screw connection • PUSH IN spring connection (on request)
Rail bus	**Bus**	
	**Non-interrupted system bus:** • Integrated in TS 35 DIN rail • For power, signals and data • 5 conductor paths (max. 5 A / 63 V) • SMD-compatible bus contacts (2 A / 63 V)	7.5 x 35 15 x 35 • Can be shortened to length • For 7.5 and 15 mm with finger-safe hood • Pre-assembled on request

printable (pad printing / laser marking), 123 markable, machinable, variable circuit board position

CH20M6



Modular component housing for electronic components
- 6.1mm wide
- Connection method: PCB terminals, clamping yoke screw connection
- Max. 8 wires

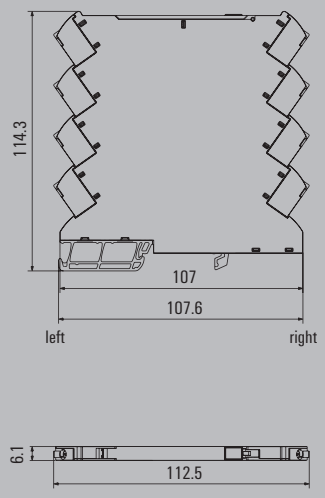
Technical data

Insulating material	PBT
Flammability rating (UL94)	V0
Rated voltage	250 V AC
Rated current	13 A

Demo Kit

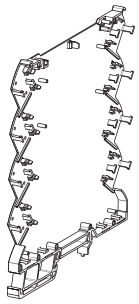
Type / Version	Qty.	Order No.
SK DEMO CH20M6	1	**1203310000**

Dimensional drawing



CH20M6 BP

Base shell



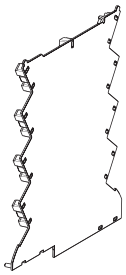
Base shell
- For mounting on rail
- Optionally with BUS cut-out

Ordering data

Type / Version	Qty.	Order No.
 Base housing, black CH20M6 BP 4P-4P BK	50	**2418600000**
 Base housing BUS black CH20M6 BP 4P-4P BUS BK	50	**1164630000**
 Base housing FE black CH20M6 BP 4P-4P FE BK	50	**1164650000**

CH20M6 BC

Base lid



Base lid

Ordering data

Type / Version	Qty.	Order No.
 black CH20M6 BC 4P-4P BK	50	**2418610000**
 black CH20M6 BC 4P-4P BUS BK	50	**1164640000**

CH20M6 C

Hinged cover



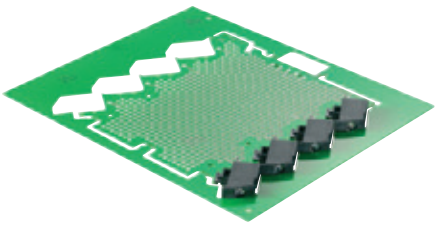
Hinged cover

Ordering data

Type / Version	Qty.	Order No.
 dark transparent CH20M6 C BK	50	**2418620000**
 transparent CH20M6 C TP	50	**1073410000**

Connection system

and accessories



PCB terminal

Type / Version	Qty.	Order No.
Left, box packaging LHZ-SMT L 1.5SN BK BX	50	**1137870000**
Right, box packaging LHZ-SMT R 1.5SN BK BX	50	**1137880000**
Left, tape-on-reel LHZ-SMT L 1.5SN BK RL	432	**2418580000**
Right, tape-on-reel LHZ-SMT R 1.5SN BK RL	432	**2418590000**

Markers

Type / Version	Qty.	Order No.
Device marker hinged cover MF 5/7,5 MC NEUTRAL	50	**1877680000**

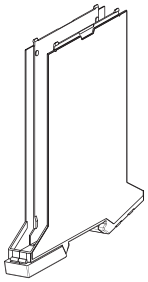
CH20M12



Modular component housing for electronic components
- 12.5 mm wide
- Pluggable wire connection
- Max. 12 wires

CH20M6 BP

BASE element



BASE



Base element with pre-attached snap-on foot
- Optionally with BUS cut-out
- Optionally with FE cut-out

CH20M12 S

SIDE element



SIDE



Side element

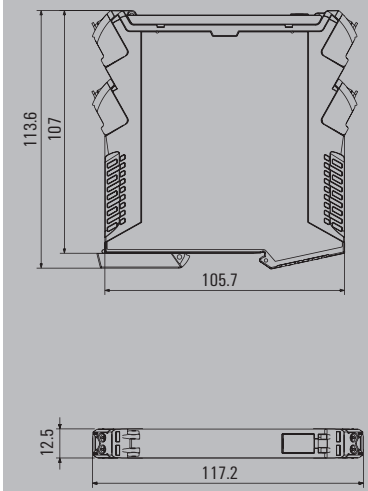
Technical data

Insulating material	PA6.6
Flammability rating (UL94)	V0
Rated voltage	250 V AC
Rated current	10 A

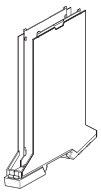
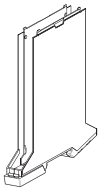
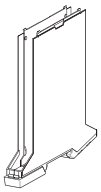
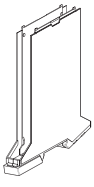
Demo Kit

Type / Version	Qty.	Order No.
SK DEMO CH20M12	1	**1111630000**

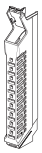
Dimensional drawing



Ordering data

Type / Version	Qty.	Order No.
 Base element, black, Snap-on foot, black CH20M12 B BK/BK	14	**1104170000**
 Base element, black, Snap-on foot, orange CH20M12 B BK/OR	14	**1104180000**
 Base element, black, BUS, Snap-on foot, orange CH20M12 B BUS BK/OR	14	**1176980000**
 Base element, black, FE (Version for functional earth), Snap-on foot, orange CH20M12 B FE BK/OR	14	**1176990000**

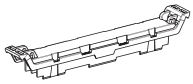
Ordering data

Type / Version	Qty.	Order No.
 Side element, black, 1-row,, for 2 connections* CH20M12 S PSCSC BK	14	**1104210000**
 Side element, black, 2-row,, for 4 connections CH20M12 S PPSC BK	14	**1104200000**
 Side element, black, 3-row, for 6 connections CH20M12 S PPP BK	14	**1174280000**

*) The side itself does not have any connections

CH20M12 F

FRONT Element

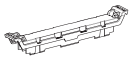




FRONT

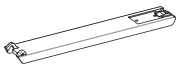
Front element

Ordering data

Type / Version	Qty.	Order No.
		
Front element black		
CH20M12 F BK	70	**1104190000**

CH20M12 C

COVER Element





COVER

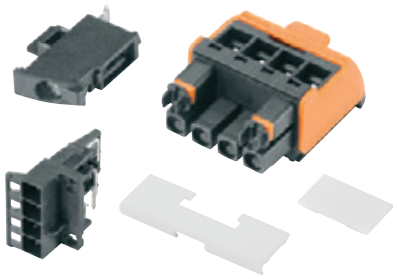
Hinged cover

Ordering data

Type / Version	Qty.	Order No.
		
Hinged cover,		
dark transparent		
CH20M12 C BK	70	**1104240000**
		
Hinged cover,		
transparent		
CH20M12 C TP	70	**1104250000**

Connection system

and accessories



Female plug 2-pole, black,
Male header 2-pole, black,
Left and right versions of header

Female plug

Type / Version	Qty.	Order No.
Release lever, orange		
BHZ 5.00/02/90LH BK/OR	150	**1063260000**
Release lever, black		
BHZ 5.00/02/90LH BK/BK	150	**1069330000**
Release lever, blue		
BHZ 5.00/02/90LH BK/BL	150	**1069360000**

Male header

Type / Version	Qty.	Order No.
Left version, box packaging		
SHL-SMT 5.00/02GL 4.2BX	156	**1069620000**
SHL-SMT 5.00/02GL 5.9BX	156	**1069750000**
Right version, box packaging		
SHL-SMT 5.00/02GR 4.2BX	156	**1069550000**
SHL-SMT 5.00/02GR 5.9BX	156	**1069680000**
Left version, tape-on-reel		
SHL-SMT 5.00/02GL 4.2RL	260	**1069650000**
SHL-SMT 5.00/02GL 5.9RL	260	**1069780000**
Right version, tape-on-reel		
SHL-SMT 5.00/02GR 4.2RL	260	**1069580000**
SHL-SMT 5.00/02GR 5.9RL	260	**1069720000**

Plug cover

Type / Version	Qty.	Order No.
Cover, black 2-pole		
CH20M AD SHL 5.00/02 BK		**On request**

Markers

Type / Version	Qty.	Order No.
Device marker hinged cover		
ESG 8/13.5/43.3 SAI AU	5	**1912130000**
Device marker Female plug		
ESG 6.6/11 BHZ 5.00/02	200	**1082490000**

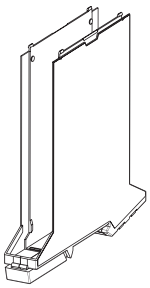
CH20M17



Modular component housing for electronic components
- 17.5 mm wide
- Pluggable wire connection
- Max. 18 wires

CH20M17 B

BASE element



BASE



Base element with pre-attached snap-on foot
- Optionally with BUS cut-out
- Optional with cut-out for functional earth (FE)

CH20M17 S

SIDE element



SIDE



Side element

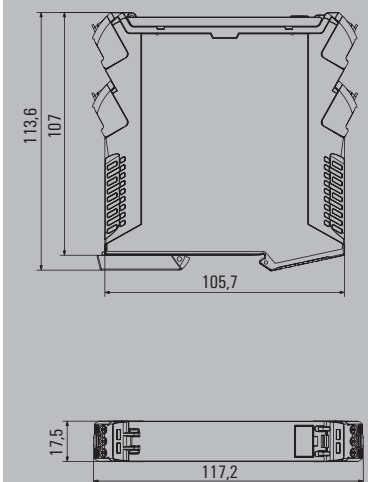
Technical data

Insulating material	PA6.6
Flammability rating (UL94)	V0
Rated voltage	250 V AC
Rated current	10 A

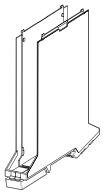
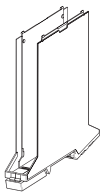
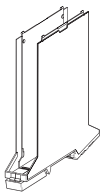
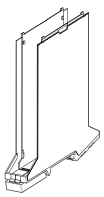
Demo Kit

Type / Version	Qty.	Order No.
SK DEMO CH20M17	1	On request

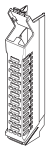
Dimensional drawing



Ordering data

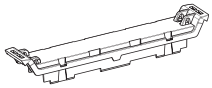
Type / Version	Qty.	Order No.
 Base element, black, Snap-on foot, black CH20M17 B BK/BK	12	1254120000
 Base element, black, Snap-on foot, orange CH20M17 B BK/OR	12	1254130000
 Base element, black, BUS, Snap-on foot, orange CH20M17 B BUS BK/OR	12	1254180000
 Base element, black, FE, Snap-on foot, orange CH20M17 B FE BK/OR	12	1254190000

Ordering data

Type / Version	Qty.	Order No.
 Side element, black, 1-row, 3 connections CH20M17 S PSCSC BK		On request
 Side element, black, 2-row, 6 connections CH20M17 S PPSC BK		On request
 Side element, black, 3-row, 9 connections CH20M17 S PPP BK	12	1254170000

CH20M17 F

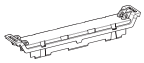
FRONT element





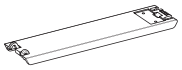
Front element

Ordering data

Type / Version	Qty.	Order No.
		
Front element, black		
CH20M17 F BK	50	**1254140000**

CH20M17 C

COVER element





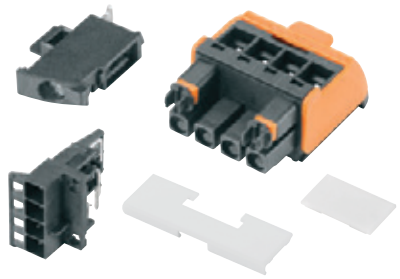
Hinged cover

Ordering data

Type / Version	Qty.	Order No.
		
Hinged cover,		
dark transparent		
CH20M17 C BK	50	**1254150000**
		
Hinged cover,		
transparent		
CH20M17 C TP	50	**1254160000**

Connection system

and accessories



Female plug 3-pole, black
Male header 3-pole, black,
Left and right versions of header

Female plug

Type / Version	Qty.	Order No.
Release lever, orange		
BHZ 5.00/03/90LH BK/OR	108	**1063270000**
Release lever, black		
BHZ 5.00/03/90LH BK/BK	108	**1069340000**
Release lever, blue		
BHZ 5.00/03/90LH BK/BL	108	**1069370000**

Male header

Type / Version	Qty.	Order No.
Left version, box packaging		
SHL-SMT 5.00/03GL 1.5BX	120	**1063210000**
SHL-SMT 5.00/03GL 4.2BX	120	**1069630000**
SHL-SMT 5.00/03GL 5.9BX	120	**1069760000**
Right version, box packaging		
SHL-SMT 5.00/03GR 1.5BX	120	**1063140000**
SHL-SMT 5.00/03GR 4.2BX	120	**1069560000**
SHL-SMT 5.00/03GR 5.9BX	120	**1069690000**
Left version, tape-on-reel		
SHL-SMT 5.00/03GL 1.5RL	175	**1063240000**
SHL-SMT 5.00/03GL 4.2RL	175	**1069660000**
SHL-SMT 5.00/03GL 5.9RL	175	**1069790000**
Right version, tape-on-reel		
SHL-SMT 5.00/03GR 1.5RL	175	**1063170000**
SHL-SMT 5.00/03GR 4.2RL	175	**1069590000**
SHL-SMT 5.00/03GR 5.9RL	175	**1069730000**

Plug cover

Type / Version	Qty.	Order No.
Cover, black 3-pole		
CH20M AD SHL 5.00/03 BK	50	**1254110000**

Markers

Type / Version	Qty.	Order No.
Device marker hinged cover		
ESG 8/13.5/43.3 SAI AU	5	**1912130000**
Device marker Female plug		
ESG 6.6/15 BHZ 5.00/03	200	**1082520000**

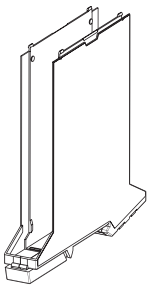
CH20M22



Modular component housing for electronic components
- 22.5 mm wide
- Pluggable wire connection
- Max. 24 wires

CH20M22 B

BASE element



BASE



Base element with pre-attached snap-on foot
- Optionally with BUS cut-out
- Optional with cut-out for functional earth (FE)

CH20M22 S

SIDE element



SIDE



Side element

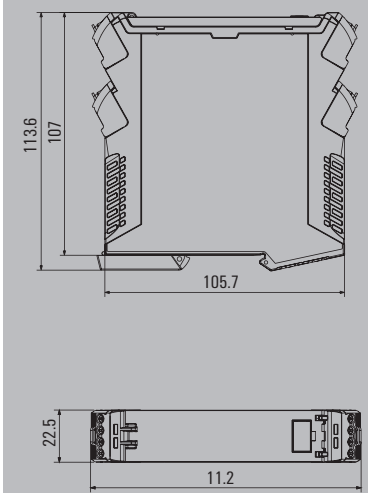
Technical data

Insulating material	PA6.6
Flammability rating (UL94)	V0
Rated voltage	250 V AC
Rated current	10 A

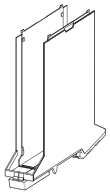
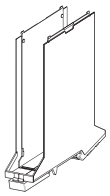
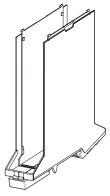
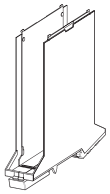
Demo Kit

Type / Version	Qty.	Order No.
SK DEMO CH20M22	1	**1105600000**

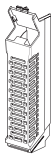
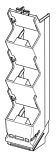
Dimensional drawing



Ordering data

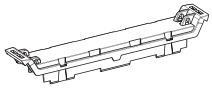
Type / Version	Qty.	Order No.
 Base element, black, Snap-on foot, black CH20M22 B BK/BK	10	**2418630000**
 Base element, black, Snap-on foot, orange CH20M22 B BK/OR	10	**1104450000**
 Base element, black, BUS, Snap-on foot, orange CH20M22 B BUS BK/OR	10	**1177000000**
 Base element, black, FE, Snap-on foot, orange CH20M22 B FE BK/OR	10	**1177010000**

Ordering data

Type / Version	Qty.	Order No.
 Side element, black, 1-row, 4 connections CH20M22 S PSCSC BK	10	**1080630000**
 Side element, black, 2-row, 8 connections CH20M22 S PPSC BK	10	**2418650000**
 Side element, black, 3-row 12 connections CH20M22 S PPP BK	10	**1139790000**

CH20M22 F

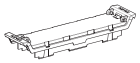
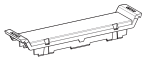
FRONT element





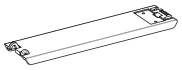
Front element

Ordering data

Type / Version	Qty.	Order No.
		
Front element, black		
CH20M22 F BK	50	**2418640000**
		
Front element, closed, black		
CH20M22 FC BK	50	**1209350000**

CH20M22 C

COVER element





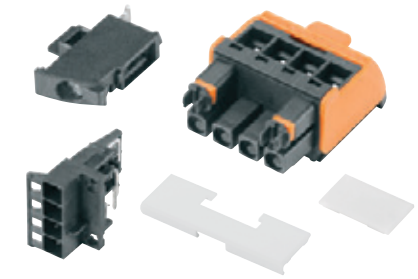
Hinged cover

Ordering data

Type / Version	Qty.	Order No.
		
Hinged cover,		
dark transparent		
CH20M22 C BK	50	**2418670000**
		
Hinged cover,		
transparent		
CH20M22 C TP	50	**1073420000**

Connection system

and accessories



Female plug 4-pole, black
Male header 4-pole, black,
Left and right versions of header

Female plug

Type / Version	Qty.	Order No.
Release lever, orange		
BHZ 5.00/04/90LH BK/OR	150	**1063280000**
Release lever, black		
BHZ 5.00/04/90LH BK/BK	150	**1069350000**
Release lever, blue		
BHZ 5.00/04/90LH BK/BL	150	**1069380000**

Male header

Type / Version	Qty.	Order No.
Left version, box packaging		
SHL-SMT 5.00/04GL 1.5BX	120	**1063220000**
SHL-SMT 5.00/04GL 4.2BX	120	**1069640000**
SHL-SMT 5.00/04GL 5.9BX	120	**1069770000**
Right version, box packaging		
SHL-SMT 5.00/04GR 1.5BX	120	**1063150000**
SHL-SMT 5.00/04GR 4.2BX	120	**1069570000**
SHL-SMT 5.00/04GR 5.9BX	120	**1069710000**
Left version, tape-on-reel		
SHL-SMT 5.00/04GL 1.5RL	130	**1063250000**
SHL-SMT 5.00/04GL 4.2RL	130	**1069670000**
SHL-SMT 5.00/04GL 5.9RL	130	**1069810000**
Right version, tape-on-reel		
SHL-SMT 5.00/04GR 1.5RL	130	**1063180000**
SHL-SMT 5.00/04GR 4.2RL	130	**1069610000**
SHL-SMT 5.00/04GR 5.9RL	130	**1069740000**

Plug cover

Type / Version	Qty.	Order No.
Cover, black 4-pole		
CH20M AD SHL 5.00/04 BK	50	**1221310000**

Markers

Type / Version	Qty.	Order No.
Device marker hinged cover		
ESG 8/13.5/43.3 SAI AU	5	**1912130000**
Device marker Female plug		
ESG 6.6/20 BHZ 5.00/04	200	**1082540000**

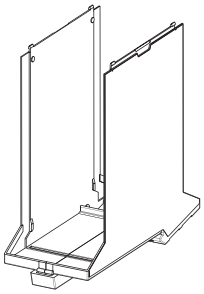
CH20M45



Modular component housing for electronic components
- 45 mm wide
- Pluggable wire connection
- Max. 48 wires

CH20M45 B

BASE element

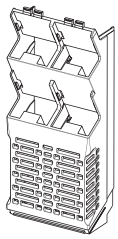




Base element with pre-attached snap-on foot
- Optionally with BUS cut-out
- Optional with cut-out for functional earth (FE)

CH20M45 S

SIDE element





Side element
- Symmetrical versions

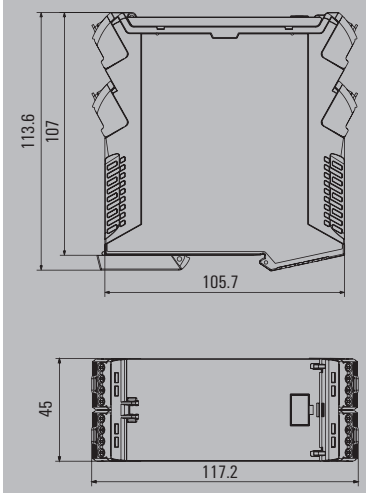
Technical data

Insulating material	PA6.6
Flammability rating (UL94)	V0
Rated voltage	250 V AC
Rated current	10 A

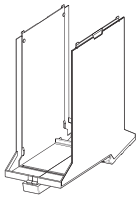
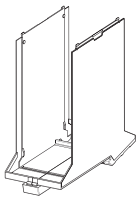
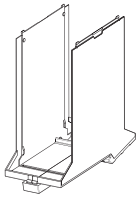
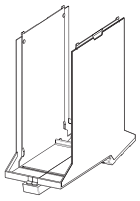
Demo Kit

Type / Version	Qty.	Order No.
SK DEMO CH20M45	1	**1111640000**

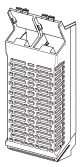
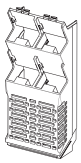
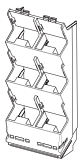
Dimensional drawing



Ordering data

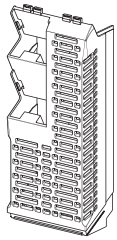
Type / Version	Qty.	Order No.
 Base element, black, Snap-on foot, black CH20M45 B BK/BK	10	**1104400000**
 Base element, black, Snap-on foot, orange CH20M45 B BK/OR	10	**1104410000**
 Base element, black, BUS, Snap-on foot, orange CH20M45 B BUS BK/OR	10	**1177020000**
 Base element, black, FE, Snap-on foot, orange CH20M45 B FE BK/OR	10	**1177030000**

Ordering data

Type / Version	Qty.	Order No.
 Side element, black, 1-row, 8 connections CH20M45 S P2SC/P2SC BK	6	**1166180000**
 Side element, black, 2 -row, 16 connections CH20M45 S 2PSC/2PSC BK	6	**1111720000**
 Side element, black, 3-row 24 connections CH20M45 S 3P/3P BK	6	**1137730000**

CH20M45 S

SIDE element

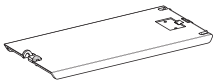




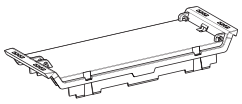
Side element
- Asymmetrical versions

CH20M45 C / CH20M45 F

COVER element
FRONT element



Hinged cover



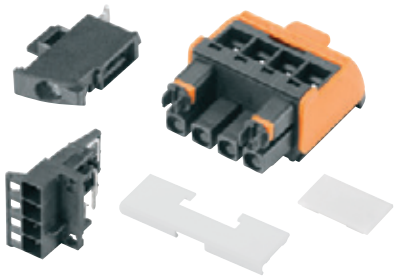
Front element





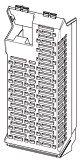
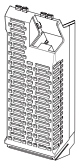
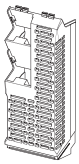
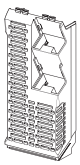
Connection system

and accessories

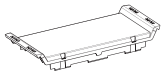
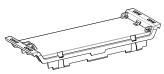


Female plug 4-pole, black,
Male header 4-pole, black,
Left and right versions of header

Ordering data

Type / Version	Qty.	Order No.
 Side element. black, 1-row, 4 connections CH20M45 S P2SC/3SC BK	6	On request
 Side element, black, 1-row, 4 connections CH20M45 S 3SC/P2SC BK	6	On request
 Side element, black, 2-row 8 connections CH20M45 S 2PSC/3SC BK	6	1137740000
 Side elemen,t black, 2-row 8 connections CH20M45 S 3SC/2PSC BK	6	1137750000

Ordering data

Type / Version	Qty.	Order No.
 Hinged cover, transparent CH20M45 C TP	30	1104440000
 Hinged cover, dark transparent CH20M45 C BK	30	1104430000
 Front element, closed, black CH20M45 FC BK	30	1164800000
 Front element, black CH20M45 F BK	30	1104420000

Female plug

Type / Version	Qty.	Order No.
Release lever, orange BHZ 5.00/04/90LH BK/OR	150	1063280000
Release lever, black BHZ 5.00/04/90LH BK/BK	150	1069350000
Release lever, blue BHZ 5.00/04/90LH BK/BL	150	1069380000

Male header

Type / Version	Qty.	Order No.
Left version, box packaging		
SHL-SMT 5.00/04GL 1.5BX	120	1063220000
SHL-SMT 5.00/04GL 4.2BX	120	1069640000
SHL-SMT 5.00/04GL 5.9BX	120	1069770000
Right version, box packaging		
SHL-SMT 5.00/04GR 1.5BX	120	1063150000
SHL-SMT 5.00/04GR 4.2BX	120	1069570000
SHL-SMT 5.00/04GR 5.9BX	120	1069710000
Left version, tape-on-reel		
SHL-SMT 5.00/04GL 1.5RL	130	1063250000
SHL-SMT 5.00/04GL 4.2RL	130	1069670000
SHL-SMT 5.00/04GL 5.9RL	130	1069810000
Right version, tape-on-reel		
SHL-SMT 5.00/04GR 1.5RL	130	1063180000
SHL-SMT 5.00/04GR 4.2RL	130	1069610000
SHL-SMT 5.00/04GR 5.9RL	130	1069740000

Plug cover

Type / Version	Qty.	Order No.
Cover, black 4-pole CH20M AD SHL 5.00/04 BK	50	1221310000

Markers

Type / Version	Qty.	Order No.
Device marker hinged cover ESG 8/13.5/43.3 SAI AU	5	1912130000
Device marker Female plug ESG 6.6/20 BHZ 5.00/04	200	1082540000

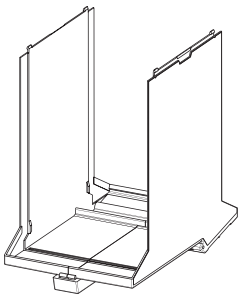
CH20M67



Modular component housing for electronic components
- 67.5 mm wide
- Pluggable wire connection
- Max. 72 wires

CH20M67 B

BASE element



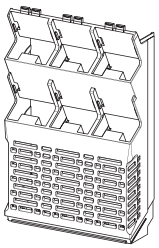
BASE



Base element with pre-attached snap-on foot
- Optionally with BUS cut-out
- Optional with cut-out for functional earth (FE)

CH20M67 S

SIDE element



SIDE



Side element
- Symmetrical versions

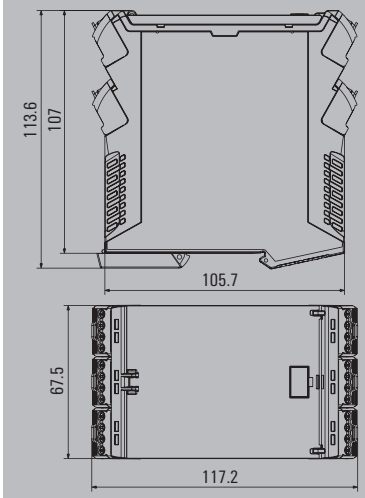
Technical data

Insulating material	PA6.6
Flammability rating (UL94)	V0
Rated voltage	250 V AC
Rated current	10 A

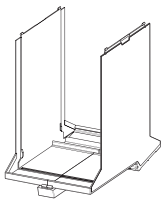
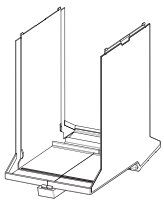
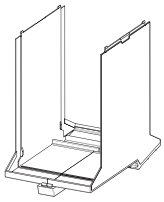
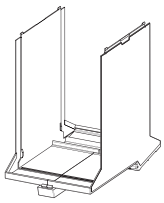
Demo Kit

Type / Version	Qty.	Order No.
SK DEMO CH20M67	1	On request

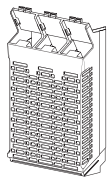
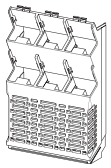
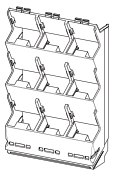
Dimensional drawing



Ordering data

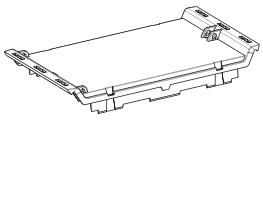
Type / Version	Qty.	Order No.
 Base element, black, Snap-on foot, black CH20M67 B BK/BK	4	1235270000
 Base element, black, Snap-on foot, orange CH20M67 B BK/O	4	1235250000
 Base element, black, BUS, Snap-on foot, orange CH20M67 B BUS BK/OR	4	1247240000
 Base element, black, FE, Snap-on foot, orange CH20M45 B FE BK/OR	4	1247250000

Ordering data

Type / Version	Qty.	Order No.
 Side element, black, 1-row, 12 connections CH20M67 S P2SC/P2SC/P2SC BK	4	On request
 Side element, black, 2-row, 24 connections CH20M67 S 2PSC/2PSC/2PSC BK	4	1235320000
 Side element, black, 3-row 36 connections CH20M67 S 3P/3P/3P BK	4	On request

CH20M67 F

FRONT element



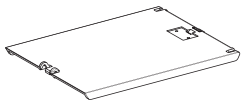
FRONT



Front element

CH20M67 C

COVER element



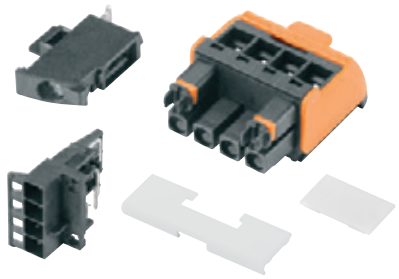
COVER



Hinged cover

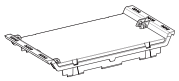
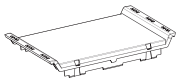
Connection system

and accessories

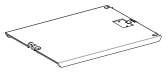
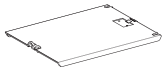


Female plug 4-pole, black
Male header 4-pole, black
Left and right versions of header

Ordering data

Type / Version	Qty.	Order No.
 Front element, black CH20M67 F BK	30	On request
 Front element, closed, black CH20M67 FC BK	30	1235310000

Ordering data

Type / Version	Qty.	Order No.
 Hinged cover, dark transparent CH20M67 C BK	30	On request
 Hinged cover, transparent CH20M67 C TP	30	On request

Female plug

Type / Version	Qty.	Order No.
Release lever, orange BHZ 5.00/04/90LH BK/OR	150	1063280000
Release lever, black BHZ 5.00/04/90LH BK/BK	150	1069350000
Release lever, blue BHZ 5.00/04/90LH BK/BL	150	1069380000

Male header

Type / Version	Qty.	Order No.
Left version, box packaging		
SHL-SMT 5.00/04GL 1.5BX	120	1063220000
SHL-SMT 5.00/04GL 4.2BX	120	1069640000
SHL-SMT 5.00/04GL 5.9BX	120	1069770000
Right version, box packaging		
SHL-SMT 5.00/04GR 1.5BX	120	1063150000
SHL-SMT 5.00/04GR 4.2BX	120	1069570000
SHL-SMT 5.00/04GR 5.9BX	120	1069710000
Left version, tape-on-reel		
SHL-SMT 5.00/04GL 1.5RL	130	1063250000
SHL-SMT 5.00/04GL 4.2RL	130	1069670000
SHL-SMT 5.00/04GL 5.9RL	130	1069810000
Right version, tape-on-reel		
SHL-SMT 5.00/04GR 1.5RL	130	1063180000
SHL-SMT 5.00/04GR 4.2RL	130	1069610000
SHL-SMT 5.00/04GR 5.9RL	130	1069740000

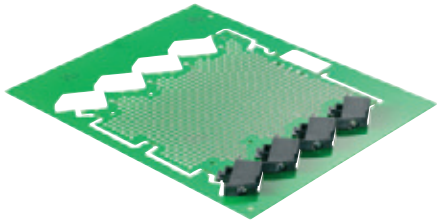
Plug cover

Type / Version	Qty.	Order No.
Cover, black 4-pole CH20M AD SHL 5.00/04 BK	50	1221310000

Markers

Type / Version	Qty.	Order No.
Device marker hinged cover ESG 8/13.5/43.3 SAI AU	5	1912130000
Device marker Female plug ESG 6.6/20 BHZ 5.00/04	200	1082540000

LHZ



THR PCB terminal for 6 mm housings,
CH20M6 reflow-compatible,
Pole count: 1
solder pin length: 1.5 mm
Orientation: 90°

LHZ



Technical data

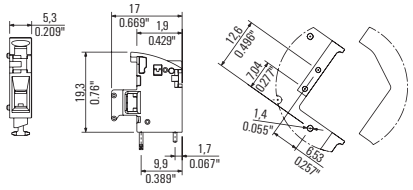
Insulating material	LCP
Flammability rating (UL94)	V0
Rated voltage	250 V
Rated current	13 A

Conductors that can be connected	
Clamping range	0.13 mm² - 2.5 mm²
Wire cross-section, AWG, min.	AWG 26 - AWG 14
Solid, min. H05(07) V-U	0.2 mm² - 2.5 mm²
Flexible, min. H05(07) V-K	0.2 mm² - 2.5 mm²
With wire-end ferrule with DIN 46 228/4, min.	0.2 mm² - 2.5 mm²

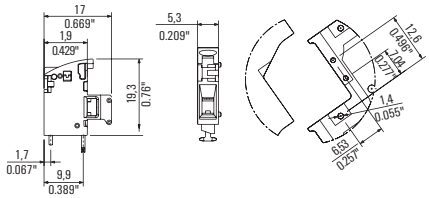
Rated data according to DIN IEC	
Rated voltage for surge voltage class / contamination degree III/3	250 V
Rated impulse voltage for surge voltage class / contamination degree III/3	4 kV
Rated voltage for surge voltage class / contamination degree III/2	320 V
Rated impulse voltage for surge voltage class / contamination degree III/2	4 kV
Rated voltage for surge voltage class / contamination degree II/2	500 V
Rated impulse voltage for surge voltage class / contamination degree II/2	4 kV

Note: Rated data according to UL – refer to the online data sheet

Dimensional drawing



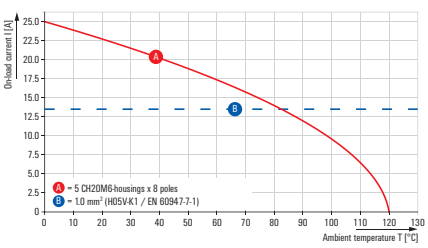
Version left



Version right

Derating curve

LHZ-SMT



Ordering data

Type / Version	Qty.	Order No.
LHZ-SMT L 1.5SN BK RL		
Left version, tape-on-reel	432	**2418580000**
LHZ-SMT R 1.5SN BK RL		
Right version, tape-on-reel	432	**2418590000**

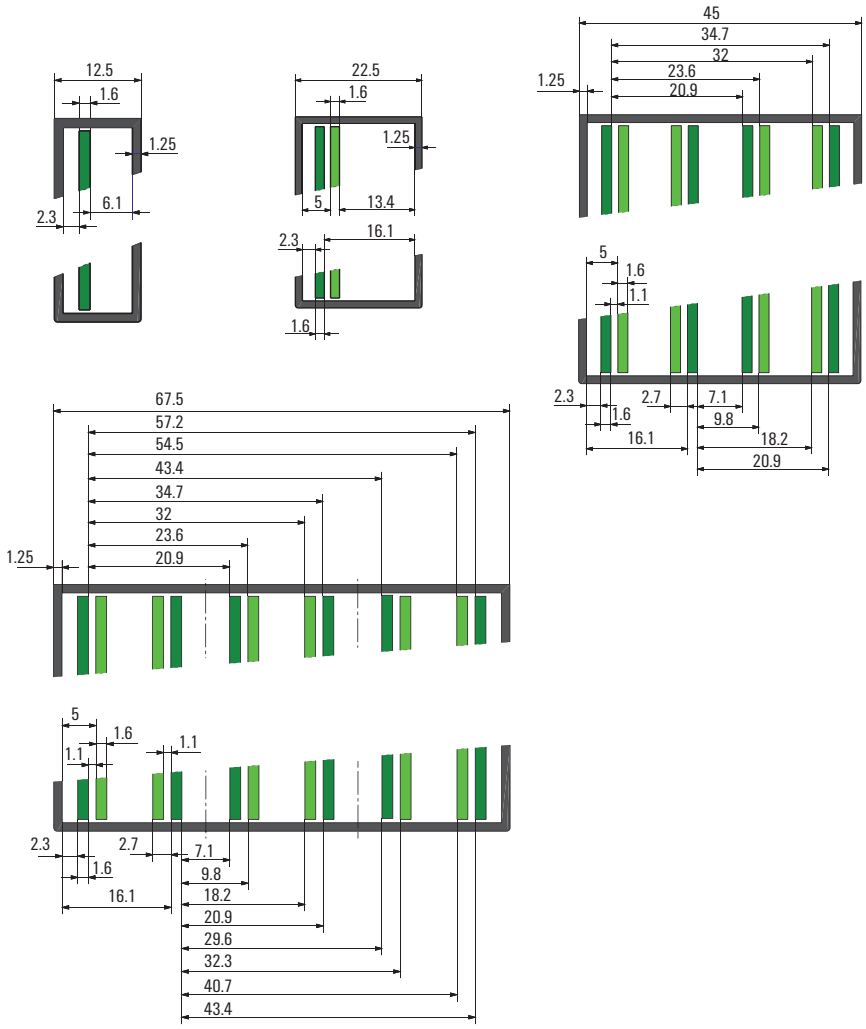
Circuit board positions in CH20M

Circuit board positions in CH20M				
Housing width (mm)	12.5	22.5	45	67.5
Number of circuit boards	1	1	2	3
Positions per circuit board	1	2	4	4



Dimensional sketch

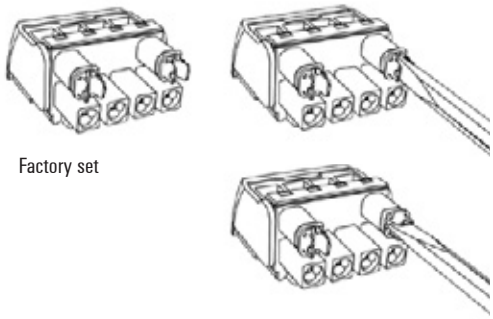
PCB-Positions are determined through the configuration of the pin-headers (also see SHL-SMT)



Features of the BHZ/SHL connector system

- Clamping yoke screw connection – with WIRE READY, wire guard protection and plus/minus screw
- Integrated, captive coding (with „AutoSet“ function) protects against accidental mismatch
- Colored ejection lever
- Leading contact on the male headers
- Finger-safety provided for both, male and female connector
- Labeling option with printable marker pads

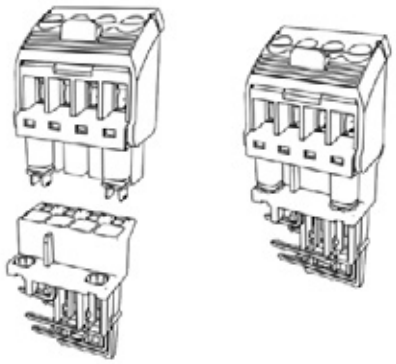
❶



Factory set

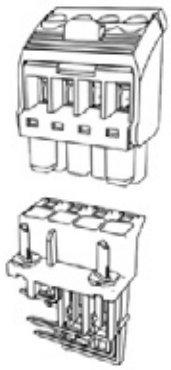
Coding can be set with one of 16 possible configurations

❷



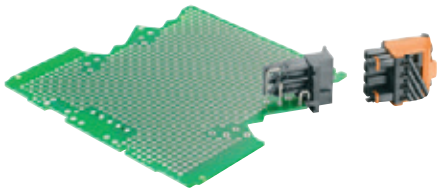
Connecting the female connector

❸



Male header coding transferred to module

SHL-SMT



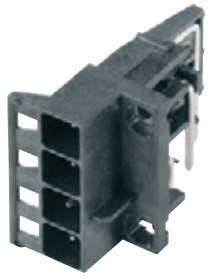
THR male header for modular housing CH20M12-67
Can be reflow soldered, resistant to high temperatures
The position of the PCB (see also dimensional sketch) is determined through the configuration of the pin headers
Suffix 1.5: PCB position 5,0 mm / pin length 1,5 mm (Reflow)
Suffix 4.2: PCB position 2,3 mm / pin length 1,5 mm (Reflow)
Suffix 5.9: PCB position 2,3 mm / pin length 3,2 mm (Wave)

Technical data

Insulating material	LCP
Flammability rating (UL94)	V0
Rated voltage	250 V
Rated current	10 A

Rated data when used together with BHZxx female plug: refer to page I.32

SHL-SMT 5.00/GL BX



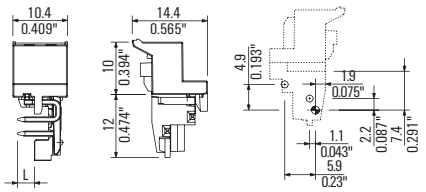
Left-sided pin header
Box packaging

Ordering data

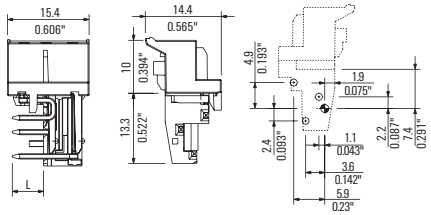
Type / Version	Poles	Qty.	Order No.
SHL-SMT 5.00/02GL 4.2BX	2	156	**1069620000**
SHL-SMT 5.00/02GL 5.9BX	2	156	**1069750000**
SHL-SMT 5.00/03GL 1.5BX	3	120	**1063210000**
SHL-SMT 5.00/03GL 4.2BX	3	120	**1069630000**
SHL-SMT 5.00/03GL 5.9BX	3	120	**1069760000**
SHL-SMT 5.00/04GL 1.5BX	4	120	**1063220000**
SHL-SMT 5.00/04GL 4.2BX	4	120	**1069640000**
SHL-SMT 5.00/04GL 5.9BX	4	120	**1069770000**

Dimensional drawing

Version left
2-pole



3-pole



SHL-SMT 5.00GL RL



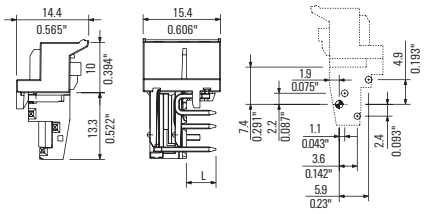
Left-sided pin header
Tape-on-reel

Ordering data

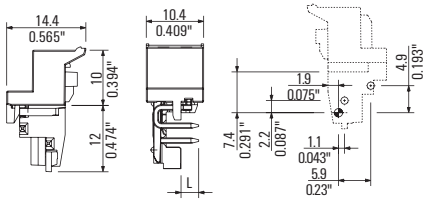
Type / Version	Poles	Qty.	Order No.
SHL-SMT 5.00/02GL 4.2RL	2	260	**1069650000**
SHL-SMT 5.00/02GL 5.9RL	2	260	**1069780000**
SHL-SMT 5.00/03GL 1.5RL	3	175	**1063240000**
SHL-SMT 5.00/03GL 4.2RL	3	175	**1069660000**
SHL-SMT 5.00/03GL 5.9RL	3	175	**1069790000**
SHL-SMT 5.00/04GL 1.5RL	4	130	**1063250000**
SHL-SMT 5.00/04GL 4.2RL	4	130	**1069670000**
SHL-SMT 5.00/04GL 5.9RL	4	130	**1069810000**

Dimensional drawing

Version right
2-pole



3-pole



SHL-SMT 5.00/GR BX



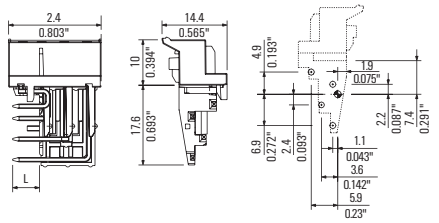
Version right
Box packaging

Ordering data

Type / Version	Poles	Qty.	Order No.
SHL-SMT 5.00/02GR 4.2BX	2	156	**1069550000**
SHL-SMT 5.00/02GR 5.9BX	2	156	**1069680000**
SHL-SMT 5.00/03GR 1.5BX	3	120	**1063140000**
SHL-SMT 5.00/03GR 4.2BX	3	120	**1069560000**
SHL-SMT 5.00/03GR 5.9BX	3	120	**1069690000**
SHL-SMT 5.00/04GR 1.5BX	4	120	**1063150000**
SHL-SMT 5.00/04GR 4.2BX	4	120	**1069570000**
SHL-SMT 5.00/04GR 5.9BX	4	120	**1069710000**

Dimensional drawing

Version left
4-pole



SHL-SMT 5.00GR RL



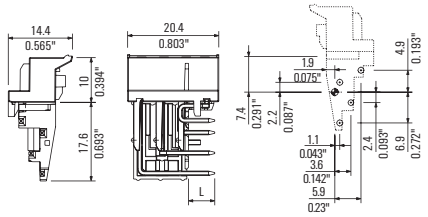
Version right
Tape-on-reel

Ordering data

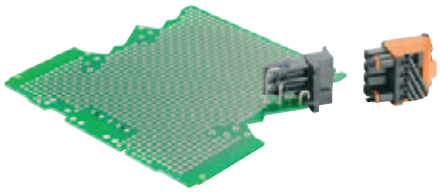
Type / Version	Poles	Qty.	Order No.
SHL-SMT 5.00/02GR 4.2RL	2	260	**1069580000**
SHL-SMT 5.00/02GR 5.9RL	2	260	**1069720000**
SHL-SMT 5.00/03GR 1.5RL	3	175	**1063170000**
SHL-SMT 5.00/03GR 4.2RL	3	175	**1069590000**
SHL-SMT 5.00/03GR 5.9RL	3	175	**1069730000**
SHL-SMT 5.00/04GR 1.5RL	4	130	**1063180000**
SHL-SMT 5.00/04GR 4.2RL	4	130	**1069610000**
SHL-SMT 5.00/04GR 5.9RL	4	130	**1069740000**

Dimensional drawing

Version right
4-pole



BHZ



Female plug for modular housing CH20M12-67
5.00 mm, clamping-yoke connection, integrated coding, release lever can be colour coded

BHZ 5.00/90 BK/OR



Release lever, orange

Technical data

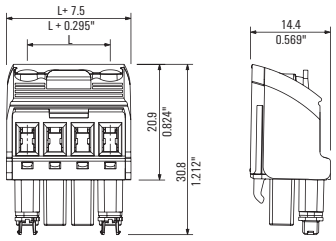
Insulating material	PA
Flammability rating (UL94)	V0
Rated voltage	250 V
Rated current	10 A

Conductors that can be connected	
Clamping range	0.13 mm² - 3.31 mm²
Wire cross-section, AWG, min	AWG 26 - AWG 14
Solid, min. H05(07) V-U	0.2 mm² - 2.5 mm²
Flexible, min. H05(07) V-K	0.2 mm² - 2.5 mm²
With wire end ferrule, acc. to DIN 46 228/1, max.	0.2 mm² - 2.5 mm²
With wire-end ferrule with DIN 46 228/4, min.	0.2 mm² - 2.5 mm²

Rated data according to DIN IEC	
Rated current, Max. pole count (Tu=20 °C)	10 A
Rated current, Max. pole count (Tu=40 °C)	9 A
Rated voltage for surge voltage class / contamination degree III/3	250 V
Rated impulse voltage for surge voltage class / contamination degree III/3	4 kV
Rated impulse voltage for surge voltage class / contamination degree III/2	4 kV
Rated voltage for surge voltage class / contamination degree III/2	320 V
Rated voltage for surge voltage class / contamination degree II/2	400 V
Rated impulse voltage for surge voltage class / contamination degree II/2	4 kV

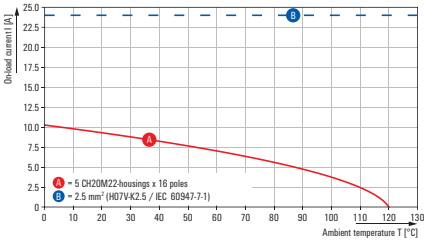
Note: Rated data according to UL – refer to the online data sheet

Dimensional drawing

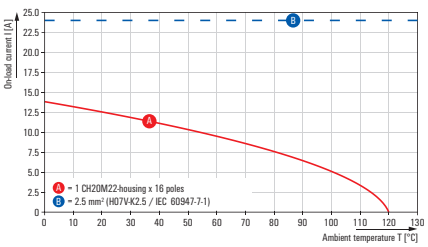


Derating curve

BHZ 5.00/../90 - SHL-SMT 5.00/..G



BHZ 5.00/../90 - SHL-SMT 5.00/..G



Ordering data

Type / Version	Poles	Qty.	Order No.
BHZ 5.00/02/90LH BK/OR	2	150	**1063260000**
BHZ 5.00/03/90LH BK/OR	3	180	**1063270000**
BHZ 5.00/04/90LH BK/OR	4	78	**1063280000**

BHZ 5.00/90 BK/BK



Release lever, black

Ordering data

Type / Version	Poles	Qty.	Order No.
BHZ 5.00/02/90LH BK/BK	2	150	**1069330000**
BHZ 5.00/03/90LH BK/BK	3	108	**1069340000**
BHZ 5.00/04/90LH BK/BK	4	78	**1069350000**

BHZ 5.00/90 BK/BL



Release lever, blue

Ordering data

Type / Version	Poles	Qty.	Order No.
BHZ 5.00/02/90LH BK/BL	2	150	**1069360000**
BHZ 5.00/03/90LH BK/BL	3	108	**1069370000**
BHZ 5.00/04/90LH BK/BL	4	78	**1069380000**

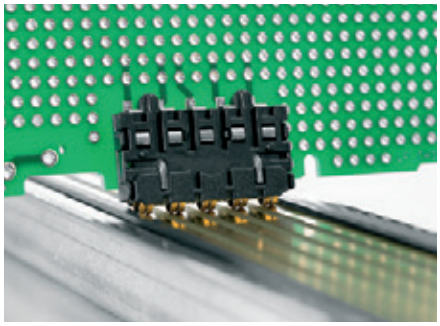
Accessories

Marker for release lever

Ordering data

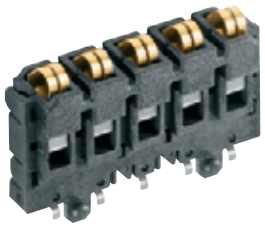
Type / Version	Poles	Qty.	Order No.
ESG 6.6/11 BHZ 5.00/02	2	200	**1082490000**
ESG 6.6/15 BHZ 5.00/03	3	200	**1082520000**
ESG 6.6/20 BHZ 5.00/04	4	200	**1082540000**

SR-SMD



Bus contact block
Reflow-compatible, resistant to high temperatures,
5-pole, for rail bus

SR-SMD



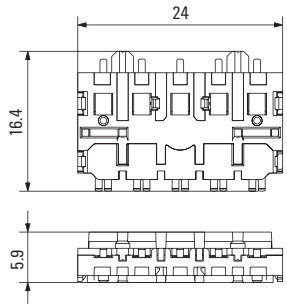
Bus contact for CH20M6

Technical data

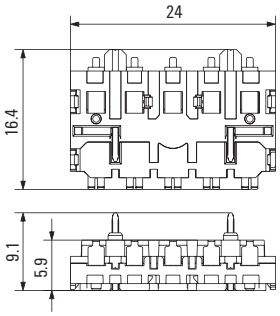
Insulating material	LCP
Flammability rating (UL94)	V0
Rated voltage	63 V AC
Rated current	2 A

Note: Rated data according to UL – refer to the online data sheet

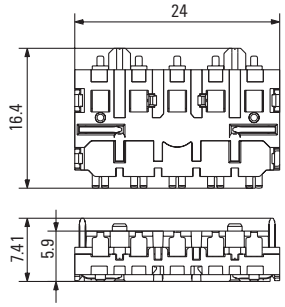
Dimensional drawing



For CH20M6



With centre solder flange for CH20M12-67

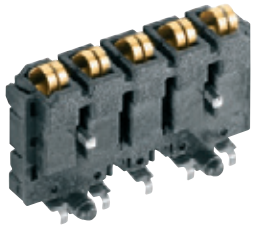


With solder flange for CH20M12-67

Ordering data

Type / Version	Qty.	Order No.
SR-SMD 4.50/05/90 AU BK BX	72	**1155840000**

SR-SMD

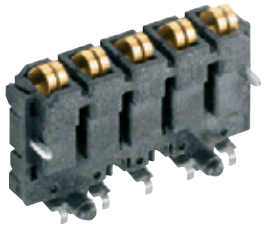


Bus contact with centre solder flange
for CH20M12-67

Ordering data

Type / Version	Qty.	Order No.
SR-SMD 4.50/05/90LFM AU BK BX	72	**1155870000**

SR-SMD



Bus contact with solder flange
for CH20M12-67

Ordering data

Type / Version	Qty.	Order No.
SR-SMD 4.50/05/90LF AU BK BX	72	**1155890000**

Accessories, bus connection



Bus PCB

Type / Version	Qty.	Order No.
CH20M BUS 4.50/05 AU/250	10	**1248220000**
CH20M BUS 4.50/05 AU/500	10	**1248230000**
CH20M BUS 4.50/05 AU/750	5	**1248240000**

Support section, bus circuit board

Type / Version	Qty.	Order No.
CH20M BUS-PROFIL TS 35X15/250	10	**1248180000**
CH20M BUS-PROFIL TS 35X15/500	10	**1248190000**
CH20M BUS-PROFIL TS 35X15/750	5	**1248210000**
CH20M BUS-PROFIL TS 35X7.5/250	5	**1248150000**
CH20M BUS-PROFIL TS 35X7.5/500	5	**1248160000**
CH20M BUS-PROFIL TS 35X7.5/750	5	**1248170000**

Note: length specification /XXX = 250, 500 or 750 mm

Hoods and end plates

Type / Version	Qty.	Order No.
CH20M BUS-ADP TS 35/250	10	**1248250000**
CH20M BUS-ADP TS 35/500	10	**1248260000**
CH20M BUS-ADP TS 35/750	5	**1248270000**
CH20M BUS-AP LI TS 35X7.5 & 15	50	**1193160000**
CH20M BUS-AP RE TS 35X7.5 & 15	50	**1193170000**

Mounting rail

Type / Version	Qty.	Order No.
TS 35X7.5/LL 1M/ST/ZN	10	**0514510000**
TS 35X15/LL 1M/ST/ZN	10	**0236510000**

Note: ADP = cover profile
AP = end plate

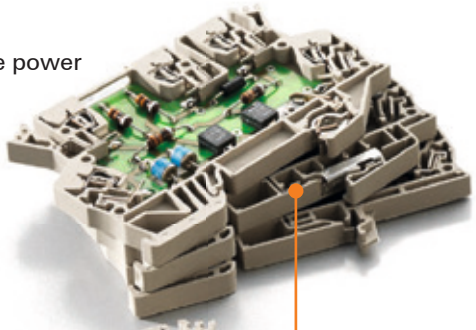
OMNIMATE Housing
MICROBOX / TERMINALBOX

The MICROBOX and TERMINALBOX series of small housings are the perfect solution for miniature sliced applications or for the protective circuitry used in connection with terminal blocks.

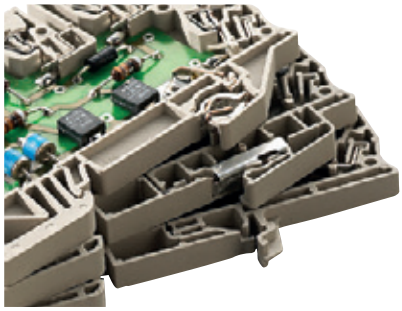
Up to 6 wires can be connected using the integrated (but high-performance) clamping-yoke screw or tension-clamp wire connection mechanisms.

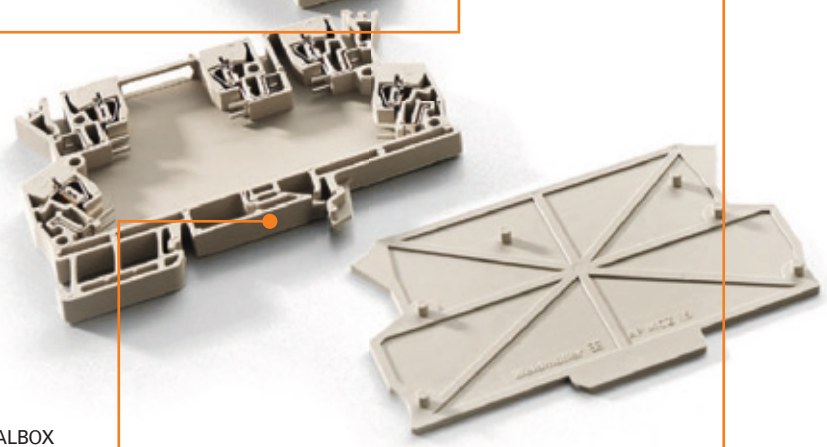
Because of its closed construction, each individual MICROBOX is finger-safe. The TERMINALBOX can be aligned side-by-side without end or closed off using an end plate.

Pluggable cross-connectors from our terminal block line allow simple, safe power distribution of up to 32 A.



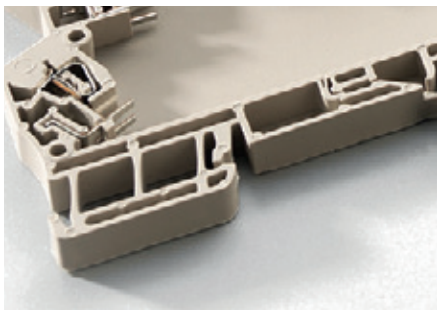
Secure contacts
The TERMINALBOX MCZ 1.5 can optionally be equipped with a contact element that automatically establishes contact with the rail when the housing is snapped on.





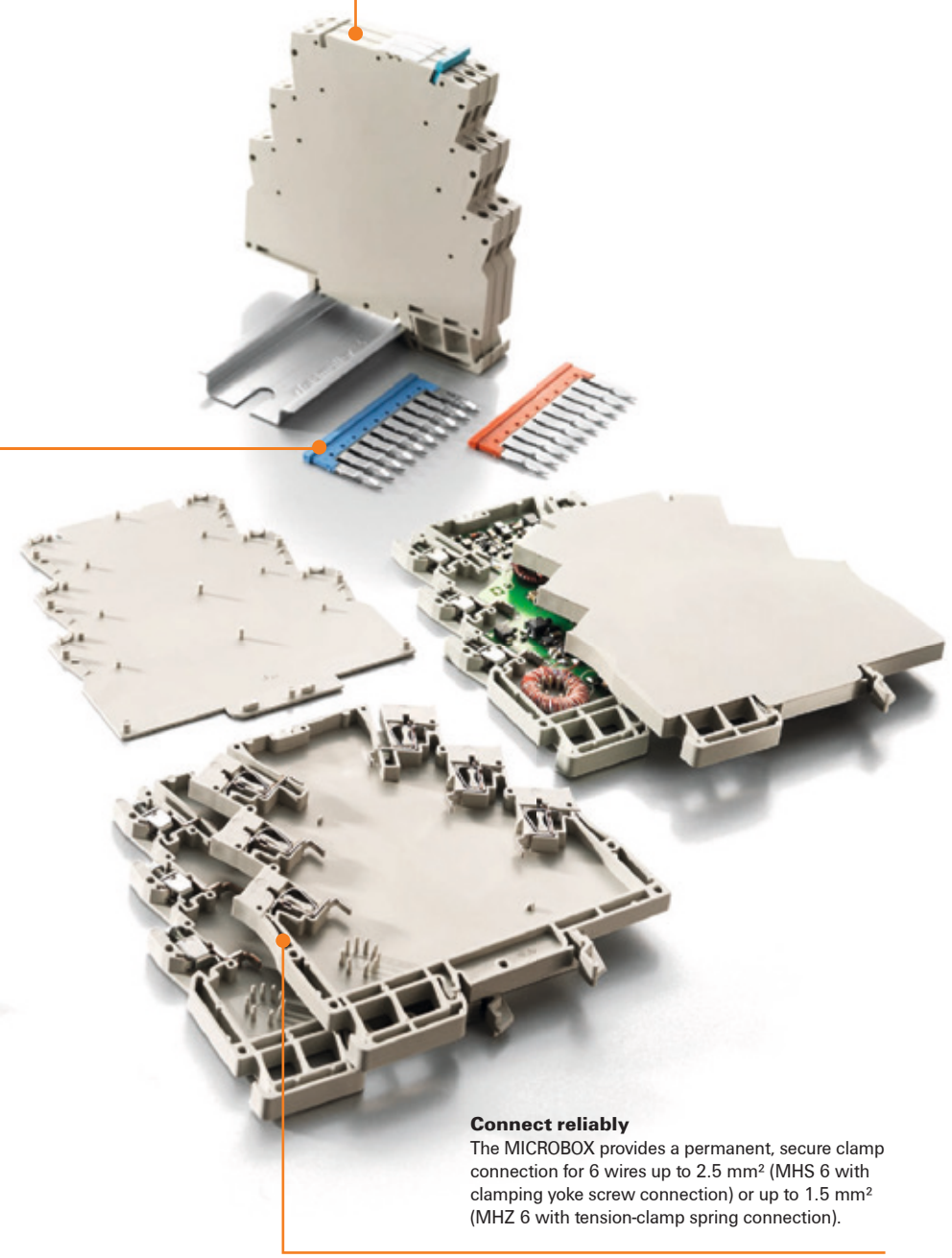
Compact integration
With a width of only 6.00 mm, the TERMINALBOX MCZ 1.5 provides enough space for a miniature circuit board and 5 tension clamp connection for wires up to 1.5 mm².

Seamlessly connected
High-power cross-connectors allow power (up to 32 A) to be easily and quickly distributed on up to three levels.

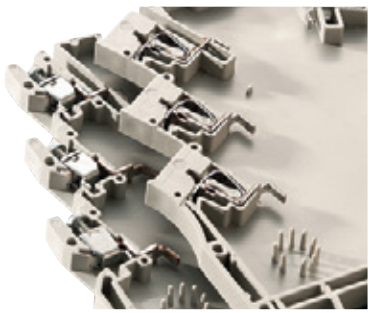




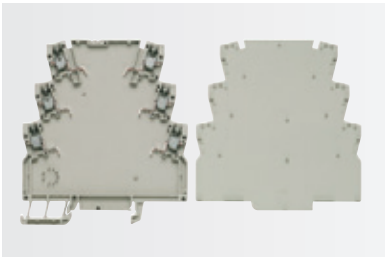
Easy to operate
The transparent hinged covers make adjustments simple (for example, using DIP switches). Labelling is also possible.



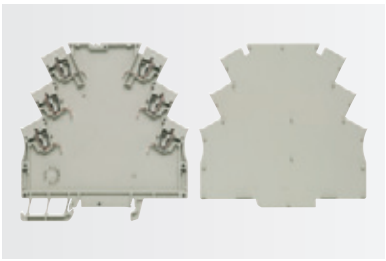
Connect reliably
The MICROBOX provides a permanent, secure clamp connection for 6 wires up to 2.5 mm² (MHS 6 with clamping yoke screw connection) or up to 1.5 mm² (MHZ 6 with tension-clamp spring connection).



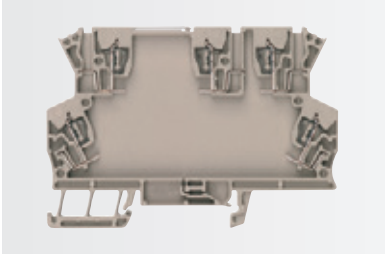
MICROBOX MHS 6
Miniature sliced-section housing in 6.1 mm width A total of 6 clamping yoke screw connections (for 2.5 mm² wires) can be manually or selectively wave soldered.



MICROBOX MHZ 6
Miniature sliced-section housing in 6.1 mm width A total of 6 tension clamp connection (for 1.5 mm² wires) can be manually or selectively wave soldered.



TERMINALBOX MCZ 1.5
Terminal-block-format open housings with tension clamp connection for wires up to 1.5 mm². A total of 5 connection elements can be manually or selectively wave soldered.



MICROBOX 6

1 miniature housing 6 - consists of:
Screw connection
- 1 terminal carrier for TS35
- 2 horizontal busbars
- 4 vertical busbars
- 6 clamping yoke units
- 1 housing cover

Tension clamp connection
- 1 terminal carrier for TS35
- 2 busbars, long version
- 4 current bars, short version
- 1 housing cover

MHS 6

Screw connection



MHZ 6

Tension clamp connection



Technical data

General data			
Dimensions W x L x H (w. TS35 x 7.5)	mm	6.1 / 88 / 97.8	6.1 / 92 / 97,8
No. of connections	total	6	6
Access for calibration			
Shielding		not available	not available
Contact to the mounting rail			
Number of PCB per module		1	1
PCB-connection		soldered connection, directly	soldered connection, directly
Thickness of PCB		0.5 ... 1.0 mm	0.5 ... 1.0 mm
Ingress protection class		IP 20	IP 20
Tightening torque range		0.4...0.6 Nm	0.4...0.6 Nm
Stripping length		7 mm	6 mm
Pollution severity		2	2
Material		PA	PA
Flammability class UL 94		V0	V0
Colour of insulating material		grey	grey
Clampable conductors (H05V/H07V)		**Screw connection** / **Tension clamp connection**	**Screw connection** / **Tension clamp connection**
Solid	mm^2	0.2...2.5	0.2...1.5
Flexible	mm^2	0.2...2.5	0.2...1.5
Max. conductor AWG		AWG 28...AWG 14	AWG 26...AWG 16
Plug gauge to 60947-1			
Note			

Ordering data

Individual parts		Type	Qty.	Order No.	Type	Qty.	Order No.
For mounting rail TS35	with connection element	MHS 6	10	**1925740000**	MHZ 6	10	**1925760000**
	for connection element	EBGH MSA ZB	50	**2277700000**	EBGH MSA ZF	50	**2277710000**
	for mounting rail contact, for connection element						
For mounting rail TS32	with connection element						
Frame for TS35							
Frame for TS35	for connection element						
Frame for TS32							
Top part	open						
	closed						
Current bars (w. tension clamp)	short version				SMSE FE MSA	1	**2279350000**
	long version				SMSE2 ZF MSD	1	**2277000000**
Current bars	horizontal	SMSE MSA ZB	1	**4286620000**			
	vertical	SMSE 1 MSD ZB	1	**4060540000**			
Clamp. yoke unit	clamp. yoke + screw	ZBSC DLI2.5/M2.5X6	1	**1919670000**			
Screw							
Clamping yoke							
Mounting rail contact							
Housing cover		GHDE MSA ZB FR 12	1	**2279280000**	GHDE MSA ZF	1	**2279300000**
Note							

Accessories

End plate	Type	Qty.	Order No.	Type	Qty.	Order No.
Cross-connection	ZQV 4N/2 RT	60	**1793950000**	ZQV 4N/2 RT	60	**1793950000**
	ZQV 4N/2 BL	60	**1793960000**	ZQV 4N/2 BL	60	**1793960000**
	ZQV 4N/2 GE	60	**1758250000**	ZQV 4N/2 GE	60	**1758250000**
Note	Full housing available as set on request.			Full housing available as set on request.		

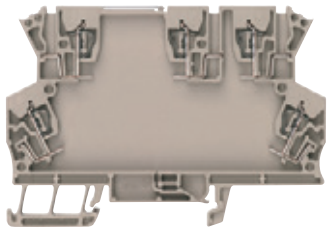
MCZ 1.5

The transparent hinged top plate is used for labelling and calibration. Maximum equipment level requires 2 short and 3 long current bars. The space available and the number of connections can be doubled using the frame. CAD drawings that ease the production of layouts and equipping of boards (details of blocked area, max. component heights, pads, etc.), are available on request. The MCZ housing kit consists of:

- 1 terminal holder
- 1 top plate
- 1-5 current bars with tension clamp
- 1 end plate (if required)

MCZ 1.5

Tension clamp connection



Technical data

General data		
Dimensions W x L x H (w. TS35 x 7.5)	mm	6 / 91.3 / 63.5
No. of connections	total	5
Access for calibration		Movable top plate
Shielding		not available
Contact to the mounting rail		Earthing-contact
Number of PCB per module		1
PCB-connection		soldered connection, directly
Thickness of PCB		1.0 (+ 0.2) mm
Ingress protection class		IP 20
Tightening torque range		
Stripping length		6 mm
Pollution severity		3
Material		PA
Flammability class UL 94		V0
Colour of insulating material		beige/black
Clampable conductors (H05V/H07V)	**Screw connection**	**Tension clamp connection**
Solid	mm^2	0.2...1.5
Flexible	mm^2	0.2...1.5
Max. conductor AWG		AWG 26...AWG 16
Plug gauge to 60947-1		
Note		

Ordering data

Individual parts		Type	Qty.	Order No.
For mounting rail TS35	with connection element	MCZ 5	10	**8857560000**
	for connection element	GH MCZ1.5	1	**2224220000**
	for mounting rail contact, for connection element	GH MCZUE1.5/UE	1	**2312290000**
For mounting rail TS32	with connection element			
Frame for TS35		RA MCZ1.5	25	**2224240000**
Frame for TS35	for connection element			
Frame for TS32				
Top part	open	KOPL MCZ1.5	18	**2224040000**
	closed			
Current bars (w. tension clamp)	short version	SMSE KU FE MCZ 1.5	1	**2224390000**
	long version	SMSE LN FE MCZ 1.5	1	**2224380000**
Current bars	horizontal			
	vertical			
Clamp. yoke unit	clamp. yoke + screw			
Screw				
Clamping yoke				
Mounting rail contact		SMSE FE MCZ 1.5/PE	100	**1003280000**
Housing cover				
Note				

Accessories

End plate	Type	Qty.	Order No.
	AP MCZ1.5	50	**8389030000**
Cross-connection	ZQV 4N/2 RT	60	**1793950000**
	ZQV 4N/2 BL	60	**1793960000**
	ZQV 4N/2 GE	60	**1758250000**
Note	Full housing available as set on request.		

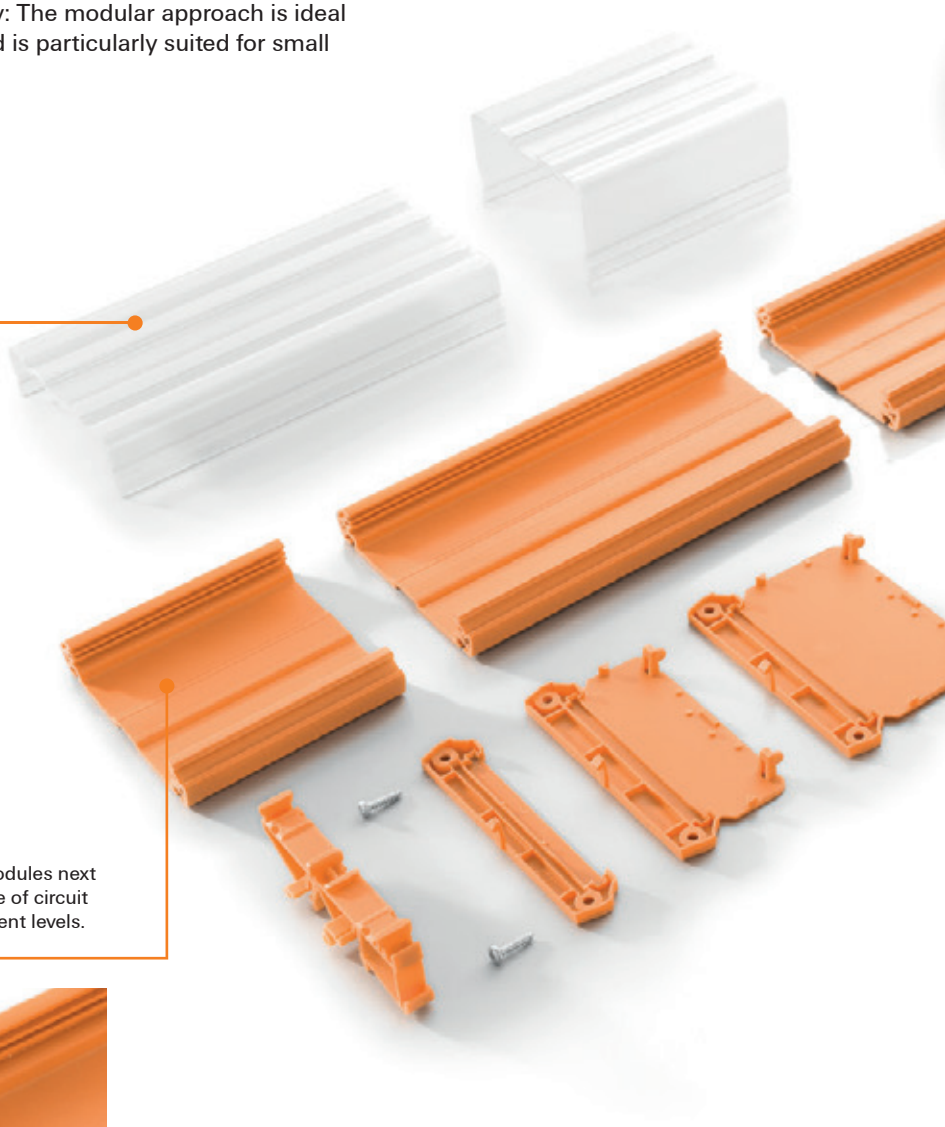
OMNIMATE Housing RS
Profile housing

Flexible – more flexible – Profilform

Build housing in profile form – the flexible modular system of coloured and transparent PVC profiles and carrier modules the perfect combination of any mounting utilising standard pitches and precisely cut to length, this creates the perfect balance between flexibility and efficiency: The modular approach is ideal for assemblies with high space requirements and is particularly suited for small quantities or variable widths.

Flexible covers
See-through covers in various heights protect assemblies even with high components safely.



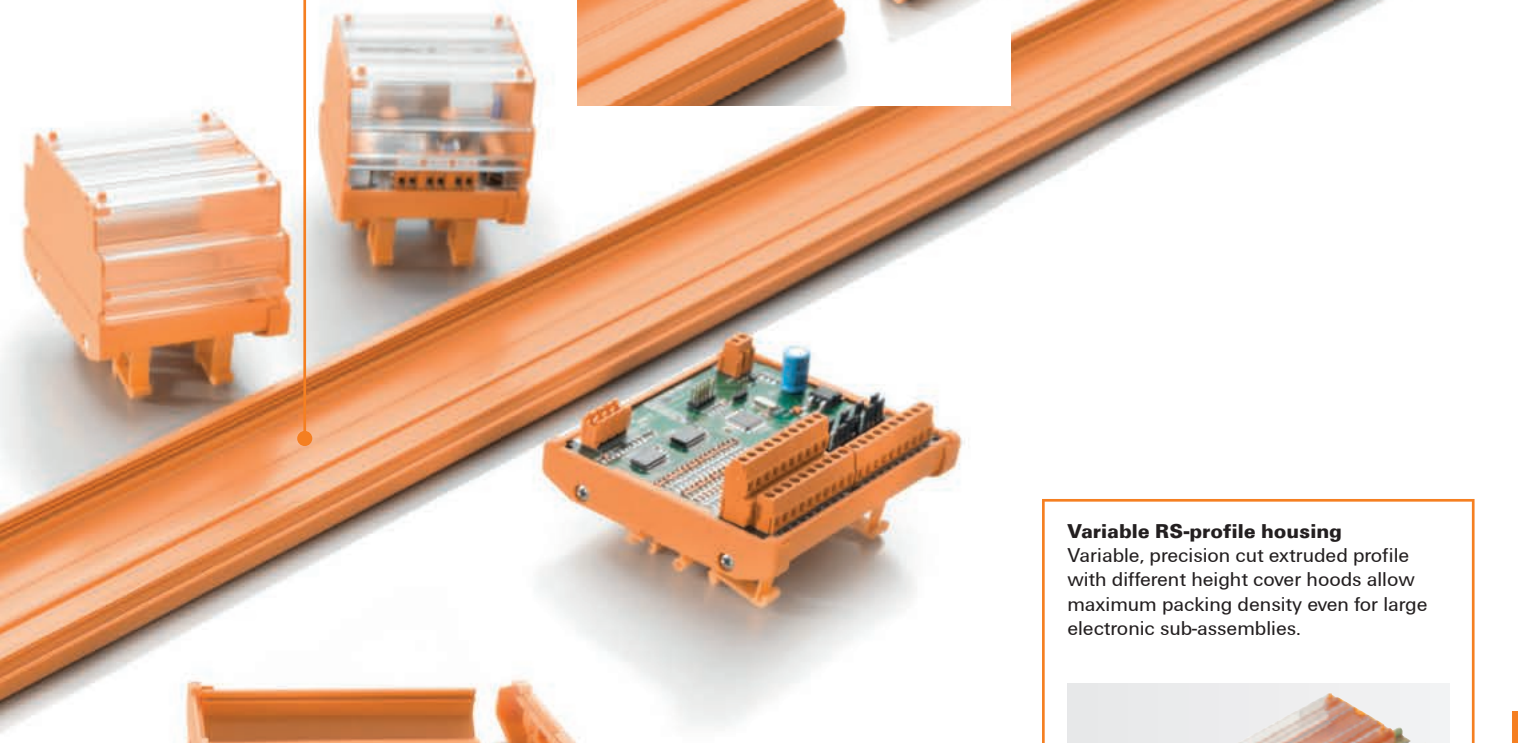


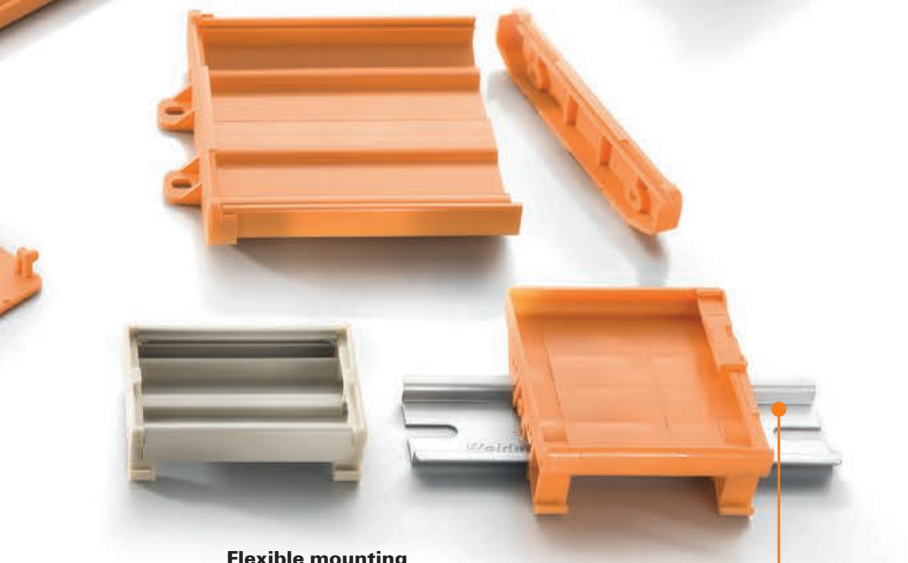
Flexible installation
Extruded profiles can take several modules next to each other. Depending on the type of circuit boards can be installed on two different levels.



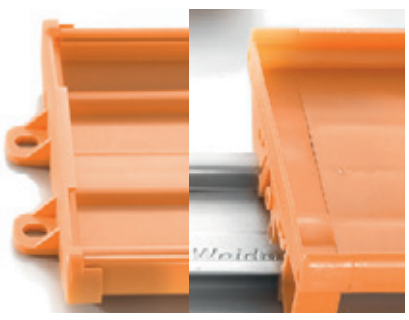
Flexible lengths
Cut, or joined together in a row: extruded profiles can be easily adjusted to the space requirements of every application.



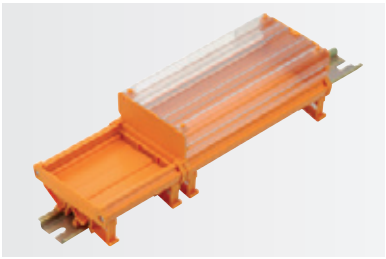




Flexible mounting
Mounting options: snapped onto the mounting rail or directly secured using screws.



Variable RS-profile housing
Variable, precision cut extruded profile with different height cover hoods allow maximum packing density even for large electronic sub-assemblies.



Modular RS-profile housing
Tool-free latching profiles with standard widths from 5 to 45 mm allow rapid assembly of tailor made solutions.



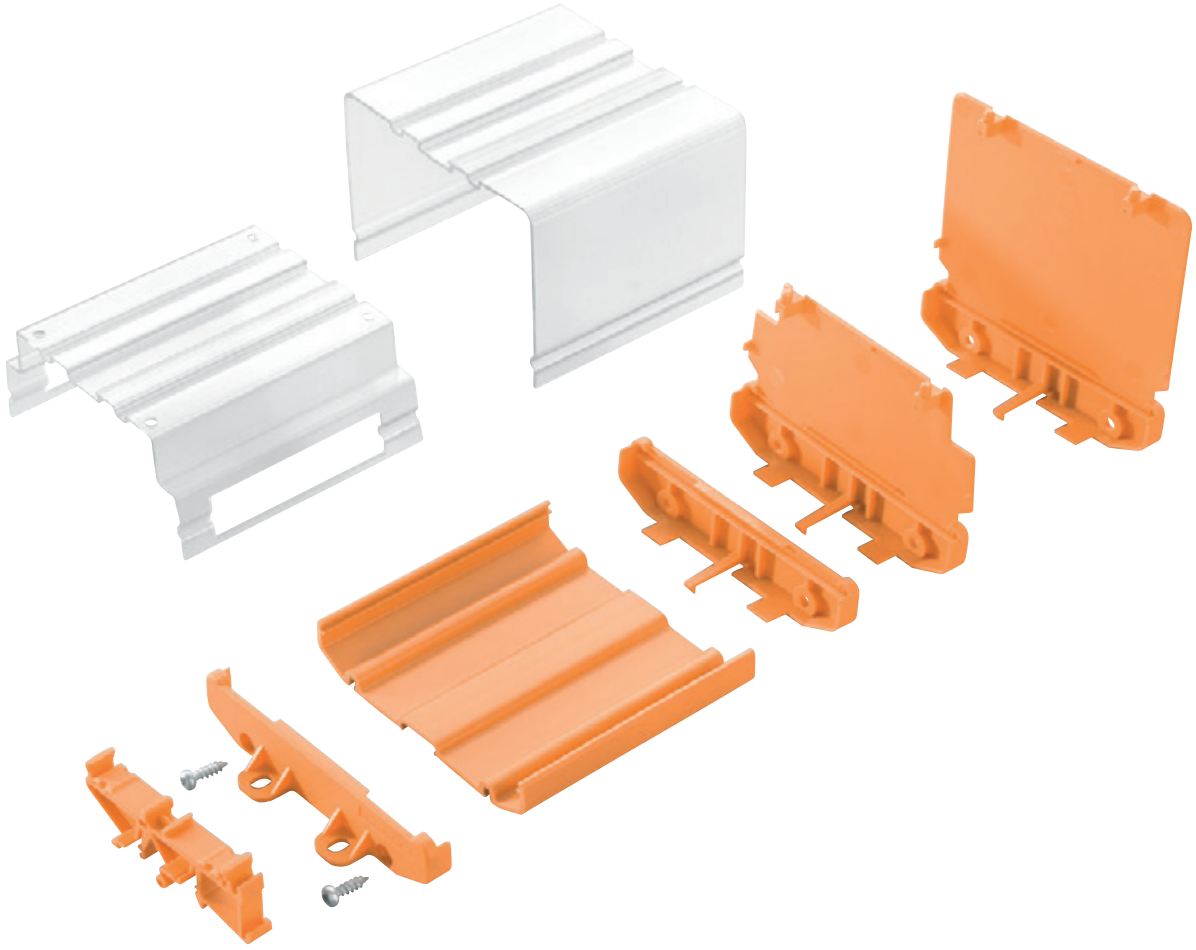
OMNIMATE Housing RS
Profile housing

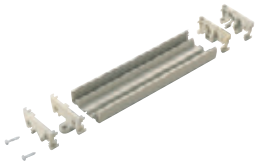
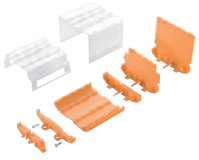
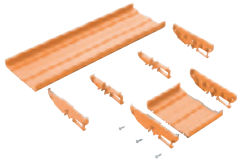
RS profile housings can be snapped on to DIN rails or mounted directly. They are available in six widths. The extruded profiles can be cut to length or joined together in modules and are ideal for low volume, special assemblies or test set-ups. Fitted transparent hoods are used to protect the components.

Width	Type	Construction/Width of circuit board	Catalogue pages
45 mm	RS45	Variable / 42 mm	I.44
70 mm	RS70	Modular / 67.8 mm	I.45
87 mm	RS80	Variable / 67.8 mm	I.46
86 mm	RS90	Variable / 79.8 mm	I.47
109 mm	RS100	Variable / 100 mm	I.48
130.8 mm	RS122	Variable / 122 mm	I.49

Colour
Similar to RAL 9011
Similar to RAL 7024
Similar to RAL 2000

Note 1) Other colours on request



Housing variants	Description / Type	Design options	
RS 45	**RS extruded profile 45 mm variable**		
	**Features:** • Width 45 mm • Circuit board width: 42 mm • Number of circuit boards (max.): 1 • Protection class (max.): IP 00		• Can be shortened to any length • Rail mounted • Direct mount [2] • machinable
RS 70	**RS extruded profile 70 mm modular**		
	**Features:** • Width 70 mm • Circuit board width: 67.8 mm • Number of circuit boards (max.): 1 • Protection class (max.): IP 00		• Can be aligned side-by-side without any tools • Rail mounted
RS 80	**RS extruded profile 80 mm variable**		
	**Features:** • Width 87 mm • Circuit board width: 67.8 mm • Number of circuit boards (max.): 1 • Protection class (max.): IP 20 • Markable	123	• Can be shortened to any length • Rail mounted • Direct mount [2] • Transparent hood (opt.) • machinable
RS 90	**RS extruded profile 90 mm variable**		
	**Features:** • Width 86 mm • Circuit board width: 79.8 mm • Number of circuit boards (max.): 1 • Protection class (max.): IP 00	123	• Can be shortened to any length • Rail mounted • Direct mount [2] • machinable
RS 100	**RS extruded profile 100 mm variable**		
	**Features:** • Width 109 mm • Circuit board width: 100 mm • Number of circuit boards (max.): 1 • Protection class (max.): IP 20	123	• Can be shortened to any length • Rail mounted • Direct mount [2] • Transparent hood (opt.) • machinable
RS 122	**RS extruded profile 122 mm variable**		
	**Features:** • Width 130.8 mm • Circuit board width: 122 mm • Number of circuit boards (max.): 2 • Protection class (max.): IP 00		• Can be shortened to any length • Rail mounted • machinable

pad printing, 123 markable, can be machine-worked (drilling/milling), [2] Screw mount

RS 45

Depending on the end plate design, the profiles can be mounted directly or on rail

1. The rail-mountable assembly requires:
- 2 end plates for DIN-rail mounting
- 1 extruded profile
- 4 screws

2. Direct-mountable assembly requires:
- 2 end plates for direct mounting
- 1 extruded profile
- 4 screws

Description

B3 heights are available for cover profile and end plates:
TS-mounting:
TS32 = 45 mm, TS35x7.5 = 40.5 mm
Direct mounting: 24 mm

Dimensions of PCB
Thickness: 1.6 (±0.2) mm, width:
42 (+0.5) mm
Size of RS segment = PCB length - 4.5 mm
Size of ADP segment = PCB length - 1 mm
Example:
PCB length 160 mm,
RS = 155.5 mm, ADP = 159 mm

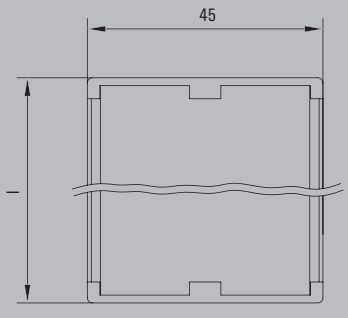
Dimensioned drawing



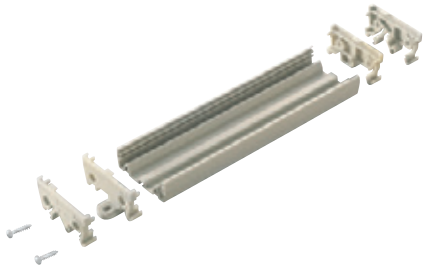
AP RS45/L DI



AP RS45/LI



RS 45



Technical data

General data		
Number of PCB per module		1
Thickness of PCB		1.6 (± 0.2) mm
Material		PVC/PA
Flammability class UL 94		V2
Colour of insulating material		beige
Note		

Ordering data

Extruded profile		Type		Qty.	Order No.
2000 mm	orange	RF RS 45 OR 2000	V0	1	**4340430000**
2000 mm	grey	PF RS 45 GR 2000	V0	1	**4027750000**
1000 mm	grey	PF RS 45 GR 1000	V0	10	**8140880000**
155 mm	orange				
Intermediate piece					
5 mm					
15 mm					
25 mm					
30 mm					
45 mm					
End plate w. locking foot					
Without cover	grey, left version	AP 45/LI	V2	20	**8143910000**
	grey, right-hand version	AP 45/RE	V2	20	**8143900000**
	orange, left version	AP 45/LI OR	V2	20	**1011590000**
	orange, right-hand version	AP 45/RE OR	V2	20	**1011600000**
Locking foot					
	orange				
	grey				
With marking facilities	left version				
	right version				
Without marking facilities	left version				
	right version				
Central	Intermediate foot				
End plate for direct mounting					
Without cover	grey, left version	AP 45/LI DI	V2	20	**8140870000**
	grey, right version	AP 45/RE DI	V2	20	**8140860000**
	orange				
	grey				
For medium-high cover profile	orange				
	grey				
For high cover profile	orange				
	grey				
End plate for mounting rail installation					
Without cover	orange				
	grey				
For medium-high cover profile	orange				
	grey				
For high cover profile	orange				
	grey				
Cover profile 1000 mm	Medium-high	ADP 1/HP1 1M	V2	1	**0485200000**
	high				
Screws		LKSC M2.9x13VZ		100	**4011200000**
Note		Other lengths on request.			

RS 70

Chassis Form:
Rail-mounted version
- 1 clip-on foot left
- 1 clip-on foot right
- 1 or more intermediate pieces
- 1 clip-on foot centre if required

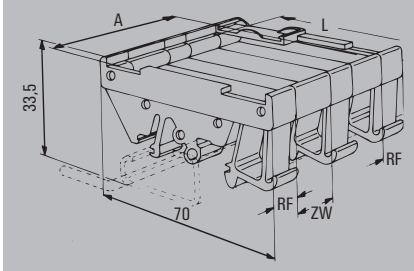
Description

Height: TS32 = 33.5 mm, TS35x7.5 = 29 mm

Dimensions of PCB:
Thickness: 1.6 (± 0.2) mm
Length: 67.8 (- 0.2) mm
Width of intermediate piece = PCB width - 2x9mm (snap-on feet)

Example:
PCB width = 68 mm
Width of intermediate piece = 50 mm
Intermediate piece 2x ZW 25 RS or
ZW 45 RS + ZW 5 RS

Dimensioned drawing



RS 70



Technical data

General data	
Number of PCB per module	1
Thickness of PCB	1.6 (± 0.2) mm
Material	PA
Flammability class UL 94	V2
Colour of insulating material	orange
Note	

Ordering data

Extruded profile		Type	Qty.	Order No.
2000 mm	orange			
2000 mm	grey			
1000 mm	grey			
155 mm	orange			
Intermediate piece				
5 mm		ZW 5 RS OR	20	**0119760000**
15 mm		ZW 15 RS OR	20	**0119860000**
25 mm		ZW 25 RS OR	20	**0126160000**
30 mm		ZW 30 RS OR	20	**0119960000**
45 mm		ZW 45 RS OR	20	**0120060000**
End plate w. locking foot				
Without cover	grey, left version			
	grey, right version			
Locking foot				
	orange			
	grey			
With marking facilities	left version			
	right version			
Without marking facilities	left version	RF RS 70 RE/A3/M.BEZ	20	**0119560000**
	right version	RF RS 70 LI/A2/O.SG	20	**0119660000**
Central	Intermediate foot	RF RS 70 RE/A4/O.BEZ	20	**0126260000**
End plate for direct mounting		RF RS 70 MI/A6	20	**0213760000**
Without cover	grey, left version			
	grey, right version			
	orange			
	grey			
For medium-high cover profile	orange			
	grey			
For high cover profile	orange			
	grey			
End plate for mounting rail installation				
Without cover	orange			
	grey			
For medium-high cover profile	orange			
	grey			
For high cover profile	orange			
	grey			
Cover profile	Medium-high			
	high			
Screws				
Note				

RS 80

Depending on the end plate design, the profiles can be mounted directly or on rail, and assembled with transparent cover profiles

1. The rail-mountable assembly requires:
- 2 end plates for DIN-rail mounting (with snap-on-foot integrated). The use of cover profiles requires different versions.
- additional snap-on feet to support long profiles
- 1 extruded profile
- Optionally: 1 cover profile (2 different heights)
- 4 screws

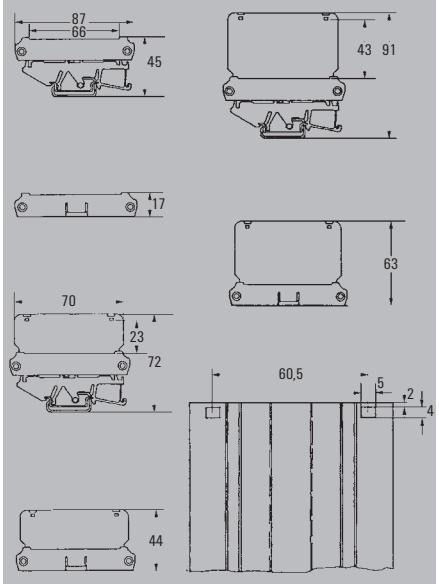
2. Direct-mountable assembly requires:
- 2 end plates for direct mounting
- 1 extruded profile
- Optionally: 1 cover profile (2 different heights)
- 4 screws

Description

3 heights are available for cover profile and end plates:
Rail mounting without cover:
TS32 = 45 mm, TS35x7.5 = 40.5 mm
Rail mounting with low cover:
TS32 = 72 mm, TS35x7.5 = 67.5 mm
Rail mounting with high cover:
TS32 = 91 mm, TS35x7.5 = 86.5 mm
Direct mounting without/low/high cover:
17 / 44 / 63 mm

Dimensions of PCB
Thickness: 1.6 (±0.2) mm, width:
67.8 (+0.2) mm
Size of RS segment = PCB length - 4.5 mm
Size of ADP segment = PCB length - 2 mm
Example:
PCB length 160 mm
RS = 155.5 mm, ADP = 158 mm

Dimensioned drawing



RS 80



Technical data

General data	
Number of PCB per module	1
Thickness of PCB	1.6 (± 0.2) mm
Material	PVC/PA
Flammability class UL 94	V0
Colour of insulating material	orange
Note	

Ordering data

Extruded profile		Type		Qty.	Order No.
2000 mm	orange	PF RS 80 OR 2000MM	V0	1	**4157440000**
2000 mm	grey	PF RS 80 GR 2000MM	V0	1	**4183130000**
1000 mm	grey				
155 mm	orange				
Intermediate piece					
5 mm					
15 mm					
25 mm					
30 mm					
45 mm					
End plate w. locking foot					
Without cover	grey, left version	AP RF80 LI	V2	20	**8156210000**
	grey, right version	AP RF80 RE	V2	20	**8156200000**
Locking foot					
	orange	RF 180		20	**1324460000**
	grey	RF 180 GR	V2	20	**1773400000**
With marking facilities	left version				
	right version				
Without marking facilities	left version				
	right version				
Central	intermediate foot				
End plate for direct mounting					
Without cover	grey, left version				
	grey, right version				
	orange	AP 80 D	V2	20	**1324360000**
	grey				
For medium-high cover profile	orange	AP 85 D	V2	20	**1411060000**
	grey				
For high cover profile	orange	AP 86 D	V2	20	**1411160000**
	grey				
End plate for mounting rail installation					
Without cover	orange	AP 80	V2	20	**1324260000**
	grey	AP 80	V2	20	**8320300000**
For medium-high cover profile	orange	AP 85	V2	20	**1410860000**
	grey				
For high cover profile	orange	AP 86		20	**1410960000**
	grey				
Cover profile 1000 mm	Medium-high	ADP 5	V2	1	**4167150000**
1000 mm	high	ADP 6	V2	1	**4167160000**
Screws		LKSC M2.9x13VZ		100	**4011200000**
Note		Other lengths on request.			

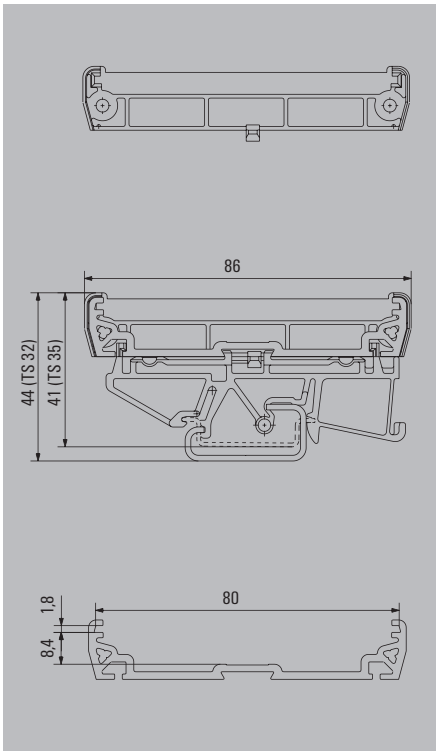
RS 90

The rail-mountable assembly requires:
- 2 end plates for DIN-rail mounting
- 1 extruded profile
- 4 screws

Description

Dimensions of PCB
Thickness: 1.6 (±0.2) mm, width: 79.8 (+0.2) mm
Size of RS segment = PCB length - 4.5 mm
Example:
PCB length 160 mm
RS = 155.5 mm

Dimensioned drawing



RS 90



Technical data

General data	
Number of PCB per module	1
Thickness of PCB	1.6 (± 0.2) mm
Material	PVC/PA
Flammability class UL 94	V0
Colour of insulating material	orange
Note	

Ordering data

Extruded profile		Type		Qty.	Order No.
2000 mm	orange	PF RS 90 OR 2000MM	V0	1	**4053240000**
2000 mm	grey	PF RS 90 GR 2000MM	V0	1	**4051810000**
1000 mm	grey				
155 mm	orange				
Intermediate piece					
5 mm					
15 mm					
25 mm					
30 mm					
45 mm					
End plate w. locking foot					
Without cover	grey, left version				
	grey, right version				
Locking foot					
	orange	RF 180	V2	20	**1324460000**
	grey	RF 180 GR	V2	20	**1773400000**
With marking facilities	left version				
	right version				
Without marking facilities	left version				
	right version				
Central	intermediate foot				
End plate for direct mounting					
Without cover	grey, left version				
	grey, right version				
	orange				
	grey				
For medium-high cover profile	orange				
	grey				
For high cover profile	orange				
	grey				
End plate for mounting rail installation					
Without cover	orange	AP 90 OR	V2	20	**1961880000**
	grey	AP 90 GR	V2	20	**1961890000**
For medium-high cover profile	orange				
	grey				
For high cover profile	orange				
	grey				
Cover profile	Medium-high				
	high				
Screws		LKSC M2.9x13VZ		100	**4011200000**
Note		Other lengths on request.			

RS 100

Depending on the end plate design, the profiles can be mounted directly or on rail, and assembled with transparent cover profiles

1. The rail-mountable assembly requires:
- 2 end plates for DIN-rail mounting (with snap-on-foot integrated). The use of cover profiles requires different versions.
- additional snap-on feet to support long profiles
- 1 extruded profile
- Optionally: 1 cover profile (2 different heights)
- 4 screws

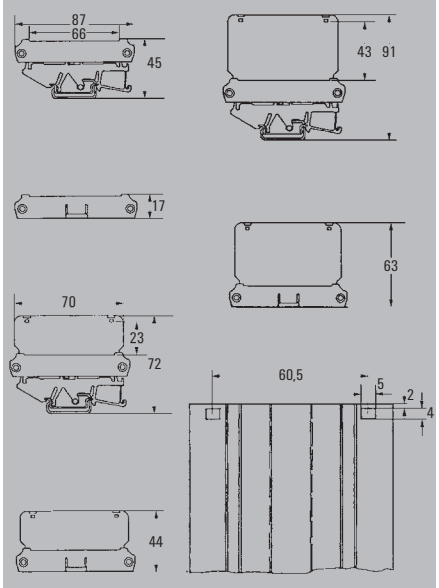
2. Direct-mountable assembly requires:
- 2 end plates for direct mounting
- 1 extruded profile
- Optionally: 1 cover profile (2 different heights)
- 4 screws

Description

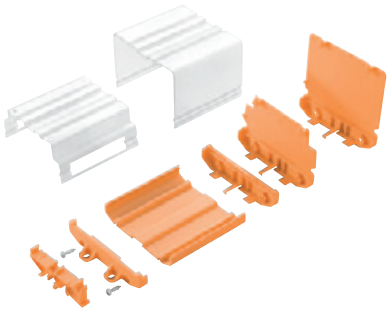
3 heights are available for cover profile and end plates:
Rail mounting without cover:
TS32 = 45 mm, TS35x7.5 = 40.5 mm
Rail mounting with low cover:
TS32 = 89 mm, TS35x7.5 = 84.5 mm
Rail mounting with high cover:
TS32 = 121 mm, TS35x7.5 = 116.5 mm
Direct mounting without/low/high cover:
24 / 69 / 99 mm

Dimensions of PCB
Thickness: 1.6 (±0.2) mm, width:
100 (+0.5) mm
Size of RS segment = PCB length - 4.5 mm
Size of ADP segment = PCB length - 1 mm
Example:
PCB length 160 mm
RS = 155.5 mm, ADP = 159 mm

Dimensioned drawing



RS 100



Technical data

General data		
Number of PCB per module		1
Thickness of PCB		1,6 (± 0.2) mm
Material		PVC/PA
Flammability class UL 94		V0
Colour of insulating material		orange / grey (Black on request)
Note		

Ordering data

Extruded profile		Type		Qty.	Order No.
2000 mm	orange	PF RS 100 OR 2000MM A.1	V0	1	**4144870000**
2000 mm	grey	PF RS 100 GR 2000MM A.1	V0	1	**4010870000**
100 0mm	grey				
155 mm	orange	PF RS 100 A.1 OR 155.5	V0	25	**4148400000**
Intermediate piece					
5 mm					
15 mm					
25 mm					
30 mm					
45 mm					
End plate w. locking foot					
Without cover	grey, left version				
	grey, right version				
Locking foot					
	orange	RF 180	V2	20	**1324460000**
	grey	RF 180 GR	V2	20	**1773400000**
With marking facilities	left version				
	right version				
Without marking facilities	left version				
	right version				
Central	intermediate foot				
End plate for direct mounting					
Without cover	grey, left version				
	grey, right version				
	orange	AP 100 D	V2	20	**1185160000**
	grey				
For medium-high cover profile	orange	AP 110 D	V2	10	**1185360000**
	grey				
For high cover profile	orange	AP 111 D	V2	10	**1185560000**
	grey				
End plate for mounting rail installation					
Without cover	orange	AP 100	V2	20	**1185060000**
	grey				
For medium-high cover profile	orange	AP 110	V2	10	**1185260000**
	grey				
For high cover profile	orange	AP 111	V2	10	**1185460000**
	grey				
Cover profile 2000 mm	Medium-high	ADP 10	V2	1	**4169320000**
2000 mm	high	ADP 11	V2	1	**4169330000**
Screws		PTSC KB40X14		100	**4019420000**
Note		Other lengths on request.			

RS 122

Housing construction (plus 4 screws):
available as a rail mounting version (TS mounting)

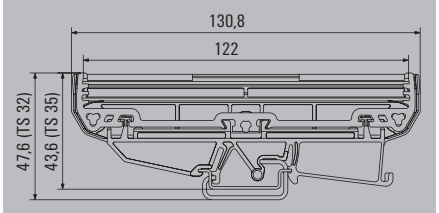
- 2 end plates for rail mounted assembly with locking foot
- 2 or more locking feet
- additional intermediate foot
- 1 Extruded profile

Description

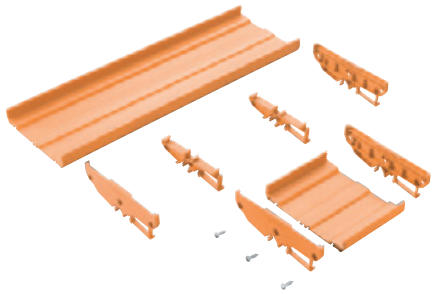
Takes PCB in 2 positions

Dimensions of the PCB
Thickness: 1.6 (±0.2) mm, width: +0.5 mm
i.e. length RS section = PCB length - 5 mm
Example:
PCB length 160 mm,
RS section = 160 mm - 5 mm = 155 mm

Dimensioned drawing



RS 122



Technical data

General data	
Number of PCB per module	1
Thickness of PCB	1.6 (± 0.2) mm
Material	PVC/PA
Flammability class UL 94	V0
Colour of insulating material	orange
Note	

Ordering data

Extruded profile		Type	Qty.	Order No.
2000 mm	orange	PF RS 122 OR 2000MM	10	**1155940000**
2000 mm	grey			
100 0mm	grey			
155 mm	orange			
Intermediate piece				
5 mm				
15 mm				
25 mm				
30 mm				
45 mm				
End plate w. locking foot				
Without cover	grey, left version			
	grey, right version			
Locking foot				
	orange	RF 108 OR	20	**1020690000**
	grey			
With marking facilities	left version			
	right version			
Without marking facilities	left version			
	right version			
Central	intermediate foot			
End plate for direct mounting				
Without cover	grey, left version			
	grey, right version			
	orange			
	grey			
For medium-high cover profile	orange			
	grey			
For high cover profile	orange			
	grey			
End plate for mounting rail installation				
Without cover	orange, left version	AP RF 122 LI OR	20	**1020640000**
	orange, right version	AP RF 122 RE OR	20	**1020650000**
	grey			
For medium-high cover profile	orange			
	grey			
For high cover profile	orange			
	grey			
Cover profile	Medium-high			
	high			
Screws				
Note		Other lengths on request.		

OMNIMATE Housing Accessories

OMNIMATE Housing Accessories

Mounting foot	J.2
Identification systems	J.2
Screwdrivers	J.3

MTA

Snap-on foot for terminal rail



The MTA 45 mounting adapter enables many different modules to be securely attached to a terminal rail. The adapter, made of fibreglass-reinforced polyamide, ensures high stability and secure fixity to the terminal rail. It is assembled by simply clipping on, and disassembled by pushing up and tilting the module. No tools are required for this.

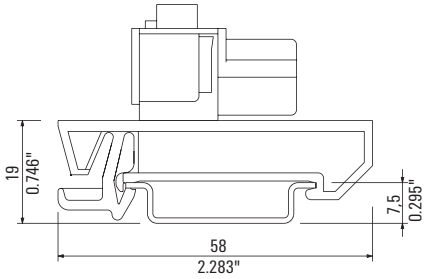
Ordering data

Snap-on foot for TS 35		black
Type	**Qty.**	**Order No.**
MTA 30 BK	45	**1168970000**
MTA 45 BK	30	**1962250000**

MOFU

Mounting foot



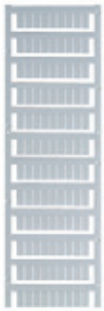


Ordering data

Colour		black
Type	**Qty.**	**Order No.**
Mounting foot Mofu	20	**0646210000**

WS 10/5
WS 12/5

MultiCard marking



- WS 10/5 = 10 mm long x 5 mm wide
- WS 12/5 = 12 mm long x 5 mm wide
- Delivered as MultiCard 5 mats with 144 markers

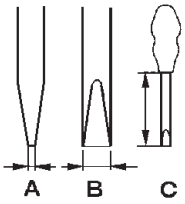
Ordering data

Type	Length mm	Order No.
WS 10/5	10	**1635000000**
WS 12/5	12	**1609860000**

SDI

VDE-insulated slotted screwdriver





VDE-insulated slotted screwdriver, SDI

- DIN 7437, ISO 2380/2
- Output acc. to DIN 5264, ISO 2380/1
- SoftFinish® handle

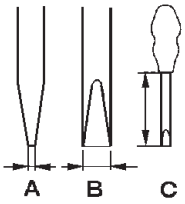
Ordering data

Type	Dims (mm)	A	B	C	Order No.
SDI		0,4	2,5	75	9008370000
SDI		0,5	3,0	100	9008380000
SDI		0,6	3,5	100	9008390000
SDI		0,8	4,0	100	9008400000
SDI		1,0	4,5	125	9008910000
SDI		1,0	5,5	125	9008410000
SDI		1,2	6,5	150	9008420000
SDI		1,6	8,0	175	9008430000

SD

Slotted screwdriver with round blade





Slotted screwdriver with round blade, SD

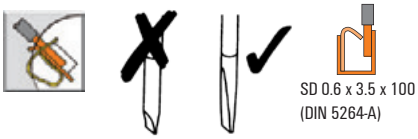
- DIN 5265, ISO 2380/2
- Output acc. to DIN 5264, ISO 2380/1
- ChromTop tip
- SoftFinish® handle

Ordering data

Type	Dims (mm)	A	B	C	Order No.
SD		0,4	2,5	75	9009030000
SD		0,5	3,0	80	9008320000
SD		0,6	3,5	100	9008330000
SD		0,8	4,0	100	9008340000
SD		0,8	4,5	125	9009020000
SD		1,0	5,5	150	9008350000
SD		1,2	6,5	150	9009010000

Tension clamp terminal tool

Tool for PCB terminals with tension clamp connections



You do not need any special tool to connect or disconnect our tension clamp connections. The opening is designed to accommodate a standard 0.6 x 3.5 x 100 screwdriver to DIN 5264-A (with flat blade), also available from Weidmüller.

SDK PH

Crosshead screwdriver





Crosshead screwdriver PH (Philips)

- SDK PH DIN 5262, ISO 8764/2-PH
- Output acc. to ISO 8764-PH
- ChromTop tip
- SoftFinish® grip

Crosshead screwdriver PZ (Pozidrive)

- SDK PZ DIN 5262, ISO 8764/2-PZ
- Output acc. to ISO 8764-PZ
- ChromTop tip
- SoftFinish® grip

Ordering data PH

Type	Dims (mm)	A	B	C	Order No.
SDK PH0	0			60	9008470000
SDK PH1	1			80	9008480000
SDK PH2	2			100	9008490000
SDK PH3	3			150	9008500000

Ordering data PZ

Type	Dims (mm)	A	B	C	Order No.
SDK PZ1	1			80	9008530000
SDK PZ2	2			100	9008540000
SDK PZ3	3			150	9008550000

Technical appendix

Technical appendix	Materials	W.2
	Derating curve	W.5
	IEC clearance and creepage distances	W.6
	UL design-in recommendations for 600 V applications	W.10
	UL clearance and creepage distances	W.11
	SMT design-in recommendations	W.12
	Conductors	W.18

Insulating materials

Weidmüller uses different insulating materials because of the diverse requirements placed on our products.
The insulating materials do not contain any hazardous substances. The use of cadium-free materials is a very high priority.
Our insulating materials contain neither pigments based on heavy metals nor any substances that lead to the formation of dioxin or furan.

		Thermoplastics		
Plastic Abbreviation		**Wemid PA66**	**Wemid GF**	**Polyamide PA**
		Wemid is a modified thermoplastic, its properties are specially tailored to meet the needs of our cable connectors. Advantages over PA are the improved fire protection and the higher sustained working temperature. WEMID meets the stringent requirements for use in railway carriages according to NF F 16-101.	**Glass-fibre reinforced WEMID** offers excellent dimensional stability and very good mechanical properties. This makes a difference when used as an end bracket. The material falls in the V-0 flammability class according to UL 94.	**Polyamide (PA)** is one of the most widely used engineering plastics. Advantages of this material are its good electrical and mechanical characteristics, its flexibility and resistance to breakage. In addition, PA offers good fire resistance on account of its chemical structure even without the addition of flame retardants.
Description				
		higher sustained working temperature improved fire resistance halogen-free and phosphor-free flame-retardant material low smoke produced in the event of fire permitted for use in railway applications following NF F 16-101 specifications	excellent dimensional stability very good mechanical characteristics halogen-free flame retardant material	flexible, resistant to breakage good electrical and mechanical characteristics self-extinguishing characteristic halogen-free flame retardant material
Properties				
Specific volume resistance to IEC 60093	Ω x cm	10^{12}	10^{15}	10^{12}
Electric strength to IEC 60243-1	kV / mm	25	35	30
Tracking resistance (A) to IEC 60112	CTI	600	550	600
Upper max. permissible temperature	°C	120	120	100
Lower max. permissible temperature, static	°C	–50	–40	–50
Flamability class to UL 94		V-0	V-0	V-2
Fire behaviour to railway standard		I2 / F2 *)	–	

W

Thermoplastics

Polyamide PAGF	Polybutylene terephthalate PBT	Polybutylene terephthalate PBT (GF)	Polycarbonate PC	Liquid crystal polymer LCP (GF)
Glass-fibre reinforced polyamide (PAGF) offers excellent dimensional stability and very good mechanical characteristics. This makes a difference when used as an end bracket. As compared to unreinforced PA, this material has flammability rating HB according to UL 94.	**Thermoplastic polyester (PBT)** offers excellent dimensional stability (hence its use in plug connectors) and a high constant operating temperature. Compared to other insulating materials, the creepage-current resistance is lower.	**Thermoplastic polyester (PBT/glass fibre reinforced)** offers excellent dimensional stability (hence its use in plug connectors) and a high constant operating temperature. Compared to other insulating materials, the creepage-current resistance is lower.	**Polycarbonate (PC)** is an impact-resistant (unbreakable), crystal-clear material which is not easily scratched. It is particularly suitable for use in transparent covers.	**LCP (glass fibre reinforced)** offers excellent dimensional stability, particularly at high temperatures. As the material is similar to PCBs and has a very low thermal expansion coefficient, it is particularly suitable for components that are soldered in the reflow oven.
excellent dimensional stability very good mechanical characteristics halogen-free flame retardant material	high dimensional stability good electrical and mechanical characteristics Flame retardants that do not form dioxin or furan.	high dimensional stability good electrical and mechanical characteristics Flame retardants that do not form dioxin or furan.	high dimensional stability high constant operating temperature high electrical insulation properties halogen-free flame retardant material	excellent dimensional stability high constant operating temperature minimal water absorption low thermal expansion coefficient
10^{12}	10^{13}	10^{13}	10^{16}	10^{15}
30	28	29	≥ 30	35
500	200	200	≥ 175	175
100	115	130	115 / 125	240
–50	–50	–50	–50	–50
HB	V-0	V-0	V-2 / V-0	V-0
			I2 / F2	–

Metals

Metals

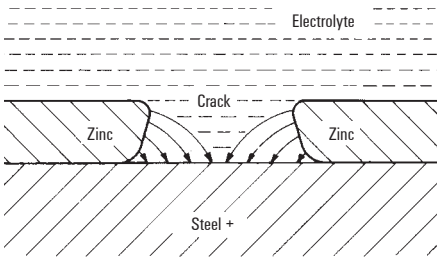
All the metals used by Weidmüller are selected and processed with their surfaces treated according to the latest technical standards.

Steels

Steel parts are electrogalvanised and treated with an additional Weidmüller passivation technique, WInQ®. The surface protection conforms to the highest standards, is matched to the special requirements of the connection systems used and is RoHS-compatible (RoHS = Restriction of Hazardous Substances). Experience gained from storage in outdoor test racks at different locations (industrial, marine, tropical and normal atmospheres) has been incorporated into the design of the surface protection.
Zinc protects against corrosion for a long time even after the zinc coating has been partially damaged by scratches or pores. In the presence of an electrolyte, zinc acts as a cathode (i.e. negative) with respect to steel. The metal ions of the zinc migrate to the steel, which provides long-term protection for the parent metal.

Conductive materials

The current-carrying materials copper, brass and bronze are characterised by a high conductivity plus good mechanical properties. The surfaces are usually given a coating of tin, which creates an extremely good, "malleable" contact with a low contact resistance. Apart from ensuring consistently good electrical properties, the tin coating provides excellent protection against corrosion. Solder connections are also given a coating of tin.
In order to guarantee the long-term solderability (shelf life), the brass parts are given an additional nickel coating as a diffusion barrier. The nickel coating provides effective protection against the loss of zinc atoms from the brass.



Derating curve (current-carrying capacity curve)

The **derating curve** shows which currents may flow continuously and simultaneously via all possible connections when the component is subjected to various ambient temperatures below its upper limit temperature.

The **upper limit temperature** of a component is the rated value determined by the materials used. The total of the ambient temperature plus the temperature rise caused by the current load (power loss at volume resistance) may not exceed the upper limit temperature of the component, otherwise it will be damaged or even completely ruined.

The current-carrying capacity is hence not a constant value, but rather decreases as the component ambient temperature increases.
Furthermore, the current-carrying capacity is influenced by the geometry of the component, the number of poles and the conductor(s) connected to it.
The current-carrying capacity is determined empirically according to DIN IEC 60512-3. To do this, the resulting component temperatures t_{b1}, t_{b2} ... and the ambient temperatures t_{u1}, t_{u2} are measured for three different currents I_1, I_2, I_3 ....

The values are entered on a graph with a system of linear coordinates to illustrate the relationships between the currents, the ambient temperatures and the temperature rise in the component.

The **loading currents** are plotted on the y-axis, the **component ambient temperatures** on the x-axis.

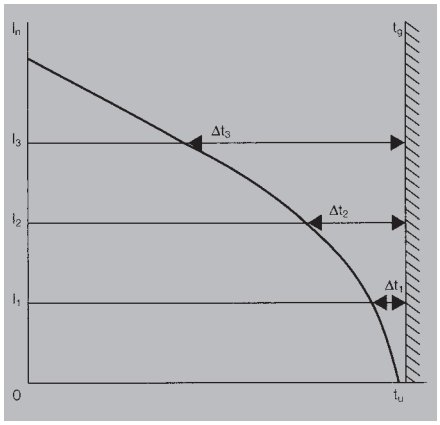
A line drawn perpendicular to the x-axis at the upper limit temperature t_g of the component completes the system of coordinates.

The associated average values of the temperature rise in the component, $\Delta t_1 = t_{b1}-t_{u1}$, $\Delta t_2 = t_{b2}-t_{u2}$, ... are plotted for every current I_1, I_2, ... to the left of the perpendicular line.
The points generated in this way are joined to form a roughly parabolic curve.

As it is practically impossible to choose components with the maximum permissible volume resistances for the measurements, the base curve must be reduced.
Reducing the currents to 80 % results in the **"derating curve"** in which the maximum permissible volume resistances and the measuring uncertainties in the temperature measurements are taken into account in such a way that they are suitable for practical applications, as experience has shown. If the derating curve exceeds the currents in the low ambient temperature zone, which is given by the current-carrying capacity of the conductor cross-sections to be connected, then the derating curve should be limited to the smaller current in this zone.

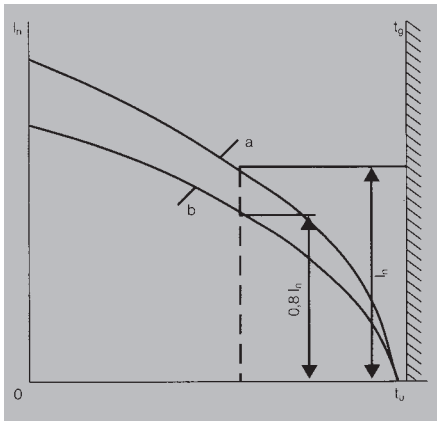
Base curve

max. temperature of component



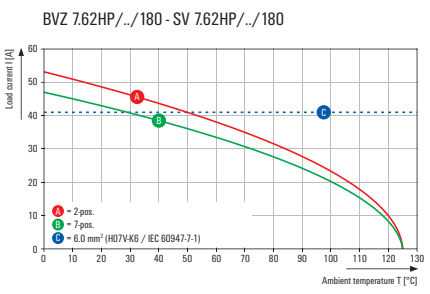
t_g = upper limit temperature of component
t_u = ambient temperature
I_n = current

Derating curve



t_g = upper limit temperature of component
t_u = ambient temperature
I_n = current
a = base curve
b = reduced base curve (derating curve)

Example: derating curve for minimum and maximum number of poles



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Design of clearance and creepage distances in electrical equipment

General:
Since April 1997 the sising of clearance and creepage distances has been covered by DIN VDE 0110 part 1 "Insulation coordination for electrical equipment in low-voltage systems".

DIN VDE 0110 part 1 contains the modified edition of IEC Report 664-1 (see also IEC 664-1/Oct 1992). The design data resulting from these provisions is – if applicable – specified in this catalogue for each product.

Table 1: Rated impulse withstand voltages for electrical equipment

Rated voltage of power supply system*) in V		Rated impulse withstand voltage in kV			
Three-phase systems	Single-phase systems with neutral point	Electrical equipment at the supply point of the installation **(Overvoltage category IV)**	Electrical equipment as part of the permanent installation **(Overvoltage category III)**	Electrical equipment to be connected to the permanent installation **(Overvoltage category II)**	Specially protected electrical equipment **(Overvoltage category I)**
	120 to 240	4,00	2,50	1,50	0,80
230/400 277/480		6,00	4,00	2,50	1,50
400/690		8,00	6,00	4,00	2,50
1000		Values depend on the particular project or, if no values are available, the values above for 400/690 V can be used.			

*) to IEC 38

Category I is valid for specially rated equipment.

Category II is valid for technical committees responsible for electrical equipment specified for connecting to the mains power supply.

Category III is valid for technical committees responsible for installation materials, and for some specific technical committees.

Category IV is valid for power supply companies and particular projects.

Table 2a: Minimum clearances to VDE 0110-1/Apr 1997

Rated impulse withstand volt. in KV	Minimum clearance distances in mm for sites up to 2000 m above sea level									
	Case A (inhomogeneous field)					Case B (homogeneous field)				
	Pollution severity					Pollution severity				
	1	2	1)	3	4	1	2	1)	3	4
0,33	0,01			0,80	1,60	0,01	0,20		0,80	1,60
0,40	0,02		0,10			0,02		0,10		
0,50	0,04	0,20				0,04				
0,60	0,06		0,12			0,06		0,12		
0,80	0,10					0,10				
1,00	0,15		0,20			0,15		0,20		
1,20	0,25	0,25				0,20				
1,50	0,50	0,25				0,30	0,30			
2,00	1,00	1,00		1,00		0,45	0,45			
2,50	1,50	1,50		1,50		0,60	0,60			
3,00	2,00	2,00		2,00	2,00	0,80	0,80			
4,00	3,00	3,00		3,00	3,00	1,20	1,20		1,20	
5,00	4,00	4,00		4,00	4,00	1,50	1,50		1,50	
6,00	5,50	5,50		5,50	5,50	2,00	2,00		2,00	2,00
8,00	8,00	8,00		8,00	8,00	3,00	3,00		3,00	3,00
10,00	11,00	11,00		11,00	11,00	3,50	3,50		3,50	3,50
12,00	14,00	14,00		14,00	14,00	4,50	4,50		4,50	4,50
15,00	18,00	18,00		18,00	18,00	5,50	5,50		5,50	5,50

1) Pollution severity 2 is split for impulse voltages up to 1.00 kV (case A) or 1.20 kV (case B).
These values apply for printed circuits but deviate from those in IEC Report 664.

Dimensioning of clearance and creepage distances to VDE 0110/Apr 1997 (IEC Report 664-1) "Insulation coordination for electrical equipment in low-voltage systems"

The provisions for insulation coordination result in the following relationships for dimensioning of clearance and creepage distances:

- **Clearances** are dimensioned according to the anticipated **overvoltages** taking into account the ratings of the **overvoltage protection precautions** in use and the anticipated environmental conditions taking into account the protective measures taken to prevent **pollution**.

- **Creepage distances** are dimensioned according to the **operating voltage** and the anticipated environmental conditions taking into account the **insulating materials** used and the protective measures taken to prevent **pollution**.

Dimensioning of clearances

Decisive for the dimensioning of clearances are the **rated impulse withstand voltages** shown in table 1, which are derived from the **overvoltage category** and the **phase-to-earth** voltage depending on the rated mains voltage (taking into account all types of supply systems).

The minimum clearances (up to site altitudes of 2000 m above mean sea level) are determined from table 2a based on the **rated impulse withstand voltage** and the **pollution severity.**

Note: Clearances that do not comply with case A must be subjected to an impulse withstand voltage test (see table 2a, footnote 1).

The **pollution severity categories** are as follows:

Pollution severity category 1:
No pollution, or only dry, non-conductive pollution that has no influence.

Pollution severity category 2:
Non-conductive pollution only; occasional condensation may cause temporary conductivity.

Pollution severity category 3:
Conductive pollution, or dry, non-conductive pollution that is liable to be rendered conductive through condensation.

Pollution severity category 4:
Contamination results in constant conductivity, e.g. caused by conductive dust, rain or snow.

The following aspects apply to the **overvoltage categories** in accordance with the German standard DIN VDE 0110-1:

Electrical equipment fed directly from the low-voltage mains
Specification of a specific overvoltage category shall be based on the following:

– Equipment of *overvoltage category I* is equipment that is intended to be connected to the permanent electrical installation of a building. Measures to limit transient overvoltages to the specific level are taken outside the equipment, either in the permanent installation or between the permanent installation and the equipment.

– Equipment of *overvoltage category II* is equipment to be connected to the permanent electrical installation of a building.

Note: Examples of such equipment are household appliances, portable tools and similar loads.

– Equipment of *overvoltage category III* is equipment that is part of the permanent electrical installation and other equipment where a higher degree of availability is expected.

Note: Examples of such equipment are distribution boards, circuit-breakers, wiring systems (IEV 826-06-01, including cables, busbars, junction boxes, switches, power sockets) in the permanent installation, and equipment for industrial use and some other equipment, e.g. stationary motors with permanent connections to the permanent installation.

– Equipment of *overvoltage category IV* is for use at or in the proximity of the incoming supply point of the electrical installations of buildings upstream of the main distribution board.

Table 3a: Single-phase 2- or 3-wire AC or DC systems

Rated voltage of the power supply (mains)*)	Voltages for table 4	
	For insulation phase-to-phase 1)	For insulation phase-to-earth 1)
	All systems	3-wire systems, neutr. point earthing
V	V	V
12,5	12,5	–
24	25	–
25		
30	32	–
42		
48	50	–
50**)		
60	63	–
30–60	63	32
100**)	100	–
110	125	–
120		
150**)	160	–
220	250	–
110–220	250	125
120–240		
300**)	320	–
220–440	500	250
600**)	630	–
480–960	1000	500
1000**)	1000	–

1) Phase-to-earth insulation levels for unearthed or impedance-earthed systems are equal to those of phase-to-phase because the operating voltage to earth of any phase can, in practice, reach full phase-to-phase voltage. This is because the actual voltage to earth is determined by the insulation resistance and capacitive reactance of each phase to earth; thus, a low (but acceptable) insulation resistance of one phase can earth it and raise the other two to full phase-to-phase voltage to earth.

*) It is assumed that the rated voltage of the electrical equipment is not lower than the nominal voltage of the power supply.

**) Because of the common changes, the meaning of the ** symbol has not been used in table 1; i.e. the / symbol indicates a 4-wire 3-phase distribution system. The lower value is the phase-to-neutral voltage, while the higher value is the phase-to-phase voltage. Where only one value is indicated, it refers to 3-wire, 3-phase systems and specifies the value phase-to-phase.
The values given in table 1 are still taken into account in tables 3a and 3b by the ** symbol.

Table 3b: 3-phase 3- or 4-wire AC systems

Rated voltage of the power supply (mains)*)	Voltages for table 4		
	For insulation phase-to-phase 1)	For insulation phase-to-earth 1)	
	All systems	3-phase 4-wire systems with earthed neutral wire2)	3-phase 3-wire systems unearthed1) or phase-earthed
V	V	V	V
60	63	32	63
110/120/127	125	80	125
150**)	160	–	160
208	200	125	200
220/230/240	250	160	250
300**)	320	–	320
380/400/415	400	250	400
440	500	250	500
480/500	500	320	500
575	630	400	630
600**)	630	–	630
660/690	630	400	630
720/830	800	500	800
960	1000	630	1000
1000**)	1000	–	1000

1) Phase-to-earth insulation levels for unearthed or impedance-earthed systems are equal to those of phase-to-phase because the operating voltage to earth of any phase can, in practice, reach full phase-to-phase voltage. This is because the actual voltage to earth is determined by the insulation resistance and capacitive reactance of each phase to earth; thus, a low (but acceptable) insulation resistance of one phase can earth it and raise the other two to full phase-to-phase voltage to earth.

2) For electrical equipment for use in both 3-phase 4-wire and 3-phase 3-wire supplies, earthed and unearthed, use the values for 3-wire systems only.

*) It is assumed that the rated voltage of the electrical equipment is not lower than the nominal voltage of the power supply.

**) Because of the common changes, the meaning of the ** symbol has not been used in table 1; i.e. the / symbol indicates a 4-wire 3-phase distribution system. The lower value is the phase-to-neutral voltage, while the higher value is the phase-to-phase voltage. Where only one value is indicated, it refers to 3-wire, 3-phase systems and specifies the value phase-to-phase.
The values given in table 1 are still taken into account in tables 3a and 3b by the ** symbol.

Note: Examples of such equipment are electricity meters, circuit-breakers and ripple control units.

Note on application of pollution severity and overvoltage categories

The pollution severity and rated impulse withstand voltage derived from the overvoltage category are each specified in this catalogue and are product-related.
In principle, the dimensioning of clearance and creepage distances, and the resulting specification of ratings for electromechanical products (terminal blocks, terminal strips, PCB terminals/ connectors) is based on pollution severity 3 and overvoltage category III considering all types of systems.

Dimensioning of creepage distances

Decisive for dimensioning of creepage distances are the rated voltages derived from the **system voltages** of the power supply for the respective **type of supply system** in conjunction with the **pollution severity** (classification, see "Clearances") and the **insulating material** used.

Taking into account tables 3a and 3b and the CTI (Comparative Tracking Index) of the insulating material, the minimum creepage distances are determined from table 4.

The insulating materials are subdivided into four groups according to their CTI (Comparative Tracking Index):

Insulating material	
I	600 ≤ CTI
II	400 ≤ CTI < 600
III a	175 ≤ CTI < 400
III b	100 ≤ CTI < 175

Table 4: Minimum creepage distances

Rated voltage U_{eff} or $U_{=}$ in V	Creepage distance in mm											
	Printed circuits		Other electrical equipment	Pollution severity								
	Pollution severity 1	2	1	2			3			4		
	Insulating mat.	Insulating mat.	Insulating mat.	Insulating material group			Insulating material group			Insulating material group		
	2)	3)	2)	I	II	III	I	II	III 4)	I	II	III 4)
10	0,025	0,04	0,08	0,40	0,40	0,40	1,00	1,00	1,00	1,60	1,60	1,60
12,5	0,025	0,04	0,09	0,42	0,42	0,42	1,05	1,05	1,05	1,60	1,60	1,60
16	0,025	0,04	0,10	0,45	0,45	0,45	1,10	1,10	1,10	1,60	1,60	1,60
20	0,025	0,04	0,11	0,48	0,48	0,48	1,20	1,20	1,20	1,60	1,60	1,60
25	0,025	0,04	0,125	0,50	0,50	0,50	1,25	1,25	1,25	1,70	1,70	1,70
32	0,025	0,04	0,14	0,53	0,53	0,53	1,30	1,30	1,30	1,80	1,80	1,80
40	0,025	0,04	0,16	0,56	0,80	1,10	1,40	1,60	1,80	1,90	2,40	3,00
50	0,025	0,04	0,18	0,60	0,85	1,20	1,50	1,70	1,90	2,00	2,50	3,20
63	0,040	0,63	0,20	0,63	0,90	1,25	1,60	1,80	2,00	2,10	2,60	3,40
80	0,063	0,10	0,22	0,67	0,95	1,30	1,70	1,90	2,10	2,20	2,80	3,60
100	0,10	0,16	0,25	0,71	1,00	1,40	1,80	2,00	2,20	2,40	3,00	3,80
125	0,16	0,25	0,28	0,75	1,05	1,50	1,90	2,10	2,40	2,50	3,20	4,00
160	0,25	0,40	0,32	0,80	1,10	1,60	2,00	2,20	2,50	3,20	4,00	5,00
200	0,40	0,63	0,42	1,00	1,40	2,00	2,50	2,80	3,20	4,00	5,00	6,30
250	0,56	1,00	0,56	1,25	1,80	2,50	3,20	3,60	4,00	5,00	6,30	8,00
320	0,75	1,60	0,75	1,60	2,20	3,20	4,00	4,50	5,00	6,30	8,00	10,00
400	1,00	2,00	1,00	2,00	2,80	4,00	5,00	5,60	6,30	8,00	10,00	12,50
500	1,30	2,50	1,30	2,50	3,60	5,00	6,30	7,10	8,00	10,00	12,50	16,00
630	1,80	3,20	1,80	3,20	4,50	6,30	8,00	9,00	10,00	12,50	16,00	20,00
800	2,40	4,00	2,40	4,00	5,60	8,00	10,00	11,00	12,50	16,00	20,00	25,00
1000	3,20	5,00	3,20	5,00	7,10	10,00	12,50	14,00	16,00	20,00	25,00	32,00

2) Insulating materials I, II, IIIa, IIIb

3) Insulating materials I, II, IIIa

4) Creepage distances are not determined in this range.
Insulation group IIIb is generally not recommended for pollution severity 3 with voltages > 630 V, and is never recommended for pollution severity 4.

The comparative tracking index must be determined according to DIN IEC 112/VDE 0303 part 1 on the basis of specially prepared samples with test solution A.

Slots are taken into account in the measurement of creepage distances when their minimum width x is dimensioned according to the following table:

Pollution-severity	Minimum width x mm
1	0,25
2	1,0
3	1,5
4	2,5

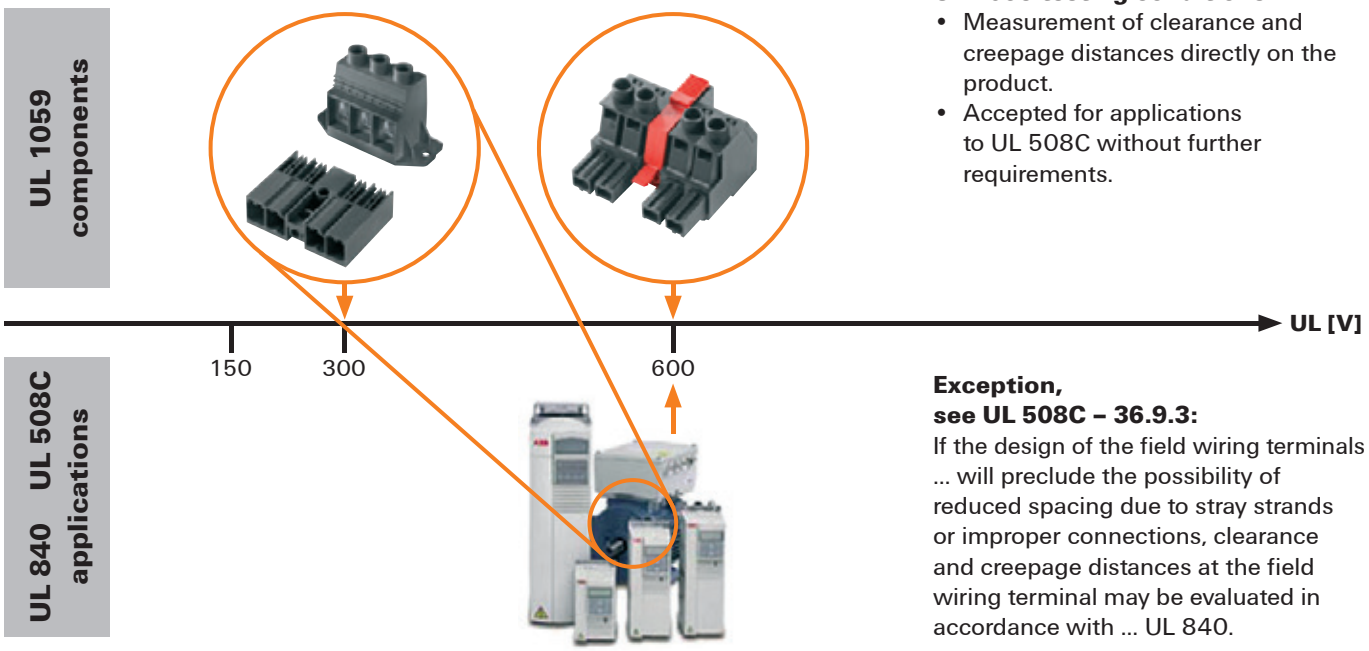
If the associated clearance is less than 3 mm, the minimum slot width can be reduced to 1/3 of the clearance.

Design-in recommendations: applications for 600 V in accordance with UL

Summary of the most important UL requirements:

- PCB components are approved to UL 1059 and are tested without a PCB or application environment.
- Applications are approved to UL 508 (or UL 508C Power Conversion Equipment, e.g. frequency converters).
- The application designer must refer to the application-related UL standards, not to UL 1059.
- UL 508C enables the use of field terminals approved to UL 1059 for 300 V to be used for 600 V applications under certain conditions.
- Weidmüller Powermate Range plug-in connectors and power terminals comply with the conditions and may be used for 600 V applications to UL 508C.
- For more detailed information, please refer to the drawing below.

The approval for higher voltages to UL 508C / UL 840:



UL 1059 testing conditions:

- Measurement of clearance and creepage distances directly on the product.
- Accepted for applications to UL 508C without further requirements.

Exception, see UL 508C – 36.9.3:
If the design of the field wiring terminals ... will preclude the possibility of reduced spacing due to stray strands or improper connections, clearance and creepage distances at the field wiring terminal may be evaluated in accordance with ... UL 840.

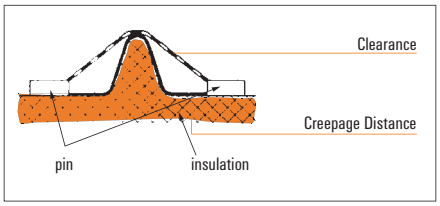
Extract from UL 508C: (36.9 Spacings for drives evaluated in accordance with UL 840)

36.9.1 Other than as noted in 36.9.2 and 36.9.3, clearance and creepage distances are able to be evaluated in accordance with the requirements in the Standard for Insulation Coordination Including Clearance and Creepage Distances for Electrical Equipment, UL 840. See 36.9.4 for details on applying UL 840.

36.9.2 Clearances between an uninsulated live part and the walls of a metal enclosure, including fittings for conduit or armored cable, shall be in accordance with 36.2.2. The clearances shall be determined by physical measurement.

36.9.3 The clearance and creepage distance at field wiring terminals shall be in accordance with the requirements in 36.3.1. Exception: When the design of the field wiring terminals precludes the possibility of reduced spacing due to stray strands or improper wiring installation, then clearance and creepage distances at these terminals are able to be evaluated in accordance with the Standard for Insulation Coordination Including Clearance and Creepage Distances for Electrical Equipment, UL 840.

The maximum voltage to be applied to the connector depends on the distance between two connections.



Two distances have to be taken in account:

- Clearance = shortest distance between two conductive parts (in air)
- Creepage distance = distance along surface

300 V

Comparison of UL clearance and creepage distances for UL 300 Volt

				min. clearance	
UL 1059	minimum spacing (Table 8.1)		151 – 300 V	6,4 mm	9,5 mm
UL 508C	minimum spacing (Table 36.1)		151 – 300 V	6,4 mm	9,5 mm
UL 508C	minimum spacing for products with known controlled transient voltages (Table 36,3)	Peak working voltage:	226 – 450 V / > 10 kVA	3,81 mm	5,08 mm
		Peak working voltage:	226 – 400 V / 500 VA – 10 kVA	2,54 mm	2,54 mm

Creepage distance determination related to UL 840

	Operating Voltage	Creepage distance for material group (CTI)*		
		I	II	IIIa & IIIb
UL 840 Table 9.1 Polution degree 3	320 V	4,0 mm	4,5 mm	5,0 mm
(alternate 36.9.3 UL 508C)	400 V	5,0 mm	5,6 mm	6,3 mm
UL 840 is similar to IEC 664-1	500 V	6,3 mm	7,1 mm	8,0 mm
UL 840 Table 9.1	320 V	1,6 mm	2,2 mm	3,2 mm
Polution degree 2	400 V	2,0 mm	2,8 mm	4,0 mm
(alternate 36.9.3 UL 508C)	500 V	2,5 mm	3,6 mm	5,0 mm

Clearance determination related to UL 840 for 300 Volt

	Overvoltage category	Rated Impulse withstand voltage peak	minimum Clearance (600V)
UL 840 Table 8.1 Polution degree 3	II	2,5 kV	1,5 mm
(alternate 36.9.3 UL 508C)	III	4,0 kV	3,0 mm
UL 840 is similar to IEC 664-1	IV	6,0 kV	5,5 mm
UL 840 Table 8.1	II	2,5 kV	1,5 mm
Polution degree 2	III	4,0 kV	3,0 mm
(alternate 36.9.3 UL 508C)	IV	6,0 kV	5,5 mm

600 V

Comparison of UL clearance and creepage distances for UL 600 Volt

				min. clearance	
UL 1059	minimum spacing (Table 8.1)		301 – 600 V	9,5 mm	12,7 mm
UL 508C	minimum spacing (Table 36.1)		151 – 300 V	9,5 mm	12,7 mm
UL 508C	minimum spacing for products with known controlled transient voltages (Table 36,3)	Peak working voltage:	451 – 900 V / > 10 kVA	7,62 mm	10,16 mm
		Peak working voltage:	451 – 900 V / 500 VA – 10 kVA	5,08 mm	5,08 mm

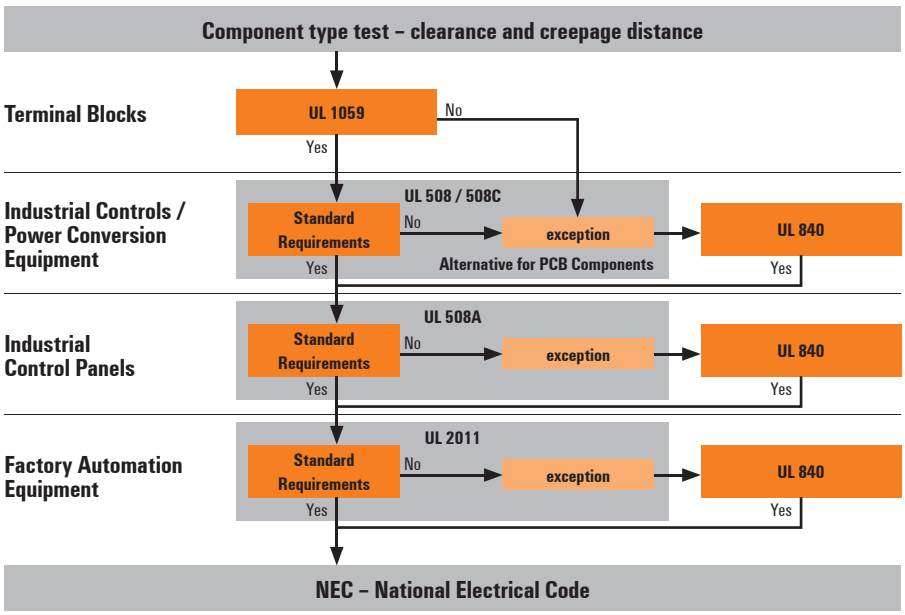
Creepage distance determination related to UL 840

	Operating Voltage	Creepage distance for material group (CTI)*		
		I	II	IIIa & IIIb
UL 840 Table 9.1 Polution degree 3	630 V	8,0 mm	9,0 mm	10,0 mm
(alternate 36.9.3 UL 508C)	800 V	10,0 mm	11,0 mm	12,5 mm
UL 840 is similar to IEC 664-1	1000 V	12,5 mm	14,0 mm	16,0 mm
UL 840 Table 9.1	630 V	3,2 mm	4,5 mm	6,3 mm
Polution degree 2	800 V	4,0 mm	5,6 mm	8,0 mm
(alternate 36.9.3 UL 508C)	1000 V	5,0 mm	7,1 mm	10,0 mm

Clearance determination related to UL 840 for 600 Volt

	Overvoltage category	Rated Impulse withstand voltage peak	minimum Clearance (600V)
UL 840 Table 8.1 Polution degree 3	II	4,0 kV	3,0 mm
(alternate 36.9.3 UL 508C)	III	6,0 kV	5,5 mm
UL 840 is similar to IEC 664-1	IV	8,0 kV	8,0 mm
UL 840 Table 8.1	II	4,0 kV	3,0 mm
Polution degree 2	III	6,0 kV	5,5 mm
(alternate 36.9.3 UL 508C)	IV	8,0 kV	8,0 mm

Guideline: relationship between approvals



W

Weidmüller connectors in the reflow soldering process

The PCB assembly process has undergone a fundamental change in recent years. The conventional through-hole mounting technology (Through Hole Technology, THT) has been increasingly replaced by surface mounting technology (SMT). The reasons for this was the increasing demands of miniaturisation, higher functional density and lower manufacturing costs. The progress made in the development of surface mounted devices (SMD), that allowed the devlopment of the SMT manufacturing process in the first place has also played a role. SMT is now the accepted standard in PCB manufacturing. There are still some components, in the main electro-mechanical components like connectors or relays, which are not available in a SMD version, they are therefore mounted following the SMT process using the classical THT assembly onto the PCB. Weidmüller has developed a product range for the through hole reflow process (THR), that makes wired component parts usable in the SMT process and allows100 % processing in the SMT production line.

Through-hole reflow is a process for linking THT components with the SMT reflow soldering process. In addition to just SMD assembly, the SMD components with THR can be placed onto the SMT printed-circuit board together with wired components and be soldered in the reflow process. The THR process was developed from the realisation that stable soldering connections are still necessary with heavy components such as coils or transformers, as well as wherever mechanical forces come to bear on the printed-circuit boards, (such as with connection terminals, plug-and-socket connectors or relay sockets). SMD soldered joints are less suited for heavy components under substantial mechanical stress.

A SMT compatible product is always a compromise between optimal SMT capability and the stability of the solder connection. THR ensures a stable connection of the THT components to the PCB using the push-through pins. At the same time this ensures 100 % compatibility with the SMT process.

Benefits of THR:

- stable connection to the PCB
- only one soldering process
- No longer a need for hand or wave soldering
- automatic assembly
- lower production costs



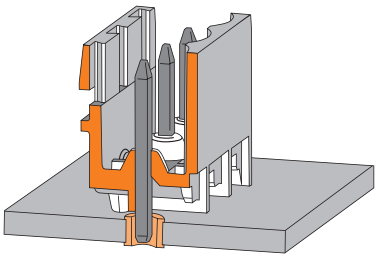
In order to use THR components in the SMT process, they must meet certain requirements.

Stability in a new dimension

Our pin headers are made of glass-fibre reinforced LCP (liquid crystal polymers). This guarantees a high level of shape stability. The material's excellent temperature characteristics and the built-in grid space are excellent for the SMT process as well as "lead-free soldering".

The benefits:

- High temperature resistance
- Melting point of 335 °C
- Free from halogens
- Low thermal expansion coefficient
- Should be processed without drying



Remains true even to the pitches

Weidmüller's makes its male headers SL-SMT from LCP (liquid crystal polymer) to prevent undesirable dimensional changes caused by water absorption during storage. This ensures the highest pitch accuracy, even at high pin counts and secures the placement process.

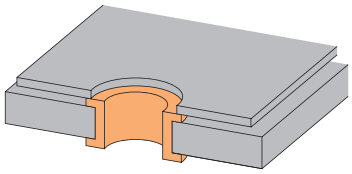
The basis for high quality, reliability and efficiency

THR technology

THR soldering process is the processing of components that are inserted through a hole in the PCB and then soldered along with the other SMT components. In this method the components themselves must be able to withstand the higher temperatures of the SMT process.

Through hole technology in the SMT process

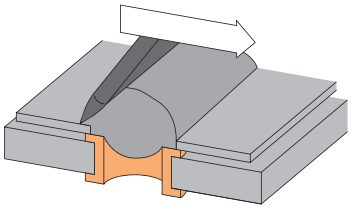
The placement process of PCBs has undergone a fundamental change in recent years. The conventional through hole mounting technique (THT) was increasingly replaced by the surface mounting process (SMT). SMT is now the accepted standard for PCB manufacture.



"Design in" – "Design out" from experience

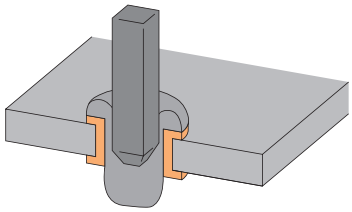
Standard-process parameters help when drafting the printed-circuit board and template layout. Weidmüller recommends pin headers with short pins of 1.5 mm length. The following parameters have to be determined for the printed-circuit board design:

- Mounting hole diameter
- Soldering terminal diameter
- Stencil hole diameter (with sufficient paste filling)
- Stencil hole diameter (with insufficient paste filling)



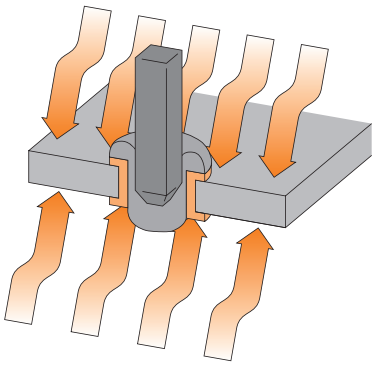
Paste printing – low volume in the best shape

Weidmüller SL-SMT pin headers have short octagonal pins with a chamfered pin end to keep the required paste volume as low as possible. Due to the pin length of just 1.5 mm for standard PCBs with a 1.6 mm thickness, an optimal solder joint shape can be achieved with a paste filling of approximately 90 %.
In addition, most normal one layer stencils for fine pitch techniques and the standard process parameters for squeegee speed and printing can be used.
Unbeatable advantage: the paste is pushed out of the placement hole during the placement process.



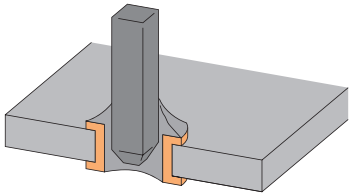
Assembly – short pins – great performance

Due to the shorter pins of 1.5 mm, you can have a higher packing volume for tape on reel or tray. This is also supported on the one side by the fact that SL-SMT male headers have a low profile, and also the reduced packaging height. Standard and anti-static packaging also allows fully automatic assembly with the commonly available Pick & Place systems. Outstanding advantages are offered by the short pins of the SL-SMT and the optimising of the travel height as well as the precision of the pin end position. Additionally, collisions between the components and the PCB can be completely avoided. At the same time, the SMT optimised male headers from Weidmüller increase the assembly strength due to their low weight.



Reflow solder – the material of the future

High temperature resistant, halogen free insulating material LCP (Liquid Crystal Polymer) has a melting point of 335 °C. It not only has high dimensional stability, but also good resistance to the heat of soldering. Our SL-SMT male headers made from LCP are future proof, and can be used in lead-free solder processes. This leads to another key advantage of LCP: though its low thermal expansion coefficient, the bending of an assembly following the soldering process is avoided.



Quality control – control is better

To determine the quality of the solder joints of the THR components with short or long pins, Weidmüller has chosen the quick and simple checking using optical inspection, or X-ray examination. This meets the requirements of the internationally recognised norms and standards.

Our specially designed SL-SMT male headers allow optical inspection of the primary side of a PCB even for varieties with 180° outlet direction. This meets the requirements for in-process quality control.

Design recommendations

Solder paste volume and filling degree for 1.2 mm pin diameter.

The volume of paste and hence the degree of filling of the solder paste in the paste printing method is critical for optimum soldering results in the SMT process. We recommend determining the quantity of solder paste as follows:
Volume of paste (or rather, degree of filling):
for solder joint filling and solder joint form within the tolerances to IPC-A610

Male conn. (open and closed): Male conn. (solder flange LF):	2 to 8 poles –	9 to 24 poles 2 to 24 poles
Recommended finished hole I.D. *1) :	$d_I = 1,4^{+0,1}$ mm	$d_I = 1,5^{+0,1}$ mm
	Paste volume V_P [mm³] / filling level f_p [%] after stencil print	
Minimum solder joint shape Optimum solder joint shape	2,4 mm³ / 70 % 2,9 mm³ / 90 %	3,1 mm³ / 85 % 3,5 mm³ / 100 %

Valid with the following parameters for all SL-SMT variations:

Male connector:

Pin length	**= L**	[mm]	= $1,5^{-0,3}$
Pin diameter	**= d**	[mm]	= 1,2

PCB:

Thickness	**= H**	[mm]	= 1,6
Placement hole			= metallised
Placement hole inner diameter ID	**= d_I**	[mm]	= see table[1)]
Placement hole outer diameter OD	**= d_A**	[mm]	= 2,3
Positioning tolerance to IEC 326-3			= very fine

Stencil:

Thickness	**= D_S**	[µm]	= 120 – 180
Stencil hole diameter	**= d_S**	[mm]	= 2,1[2)]

Solder paste:

Solder paste particle size		[µm]	= 20 – 40 = Type 3
Evaporation volume of solder paste		[%]	= approx. 50

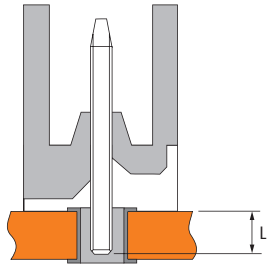
Process:

Stencil print method			= squeegee print, single
Filling level in placement hole	**= f_P**	[%]	= see table
Method for automatic assembly			= pick&place
Temperature profile			= to EN 61760-1

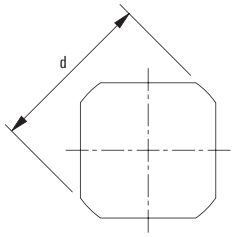
[1)] Tolerances for components, PCBs and automatic machines must be taken into account.

[2)] Stencil hole diameter approx. 10 % smaller than placement hole outer diameter **d_A**

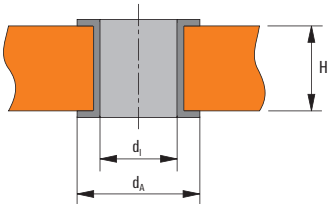
Recommendations for S2C-SMT and SC-SMT 3.81 see:
http://catalog.weidmueller.com



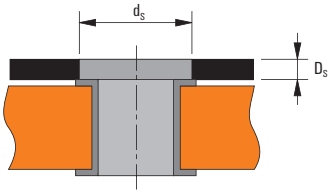
Male connector parameters



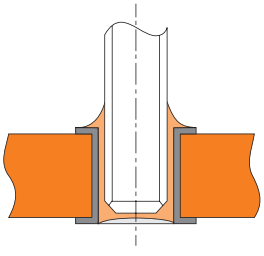
Pin cross-section



PCB parameters



Stencil parameters



Optimum solder joint form

Quality control

Quality control completes the SMT production process. The goal in this process step is, using appropriate techniques, to check the quality of the solder joints of the THR components with short or long pins quickly and easily. The quality control rules for the THR solder technique are the same as for flow or wave soldering of THT components.

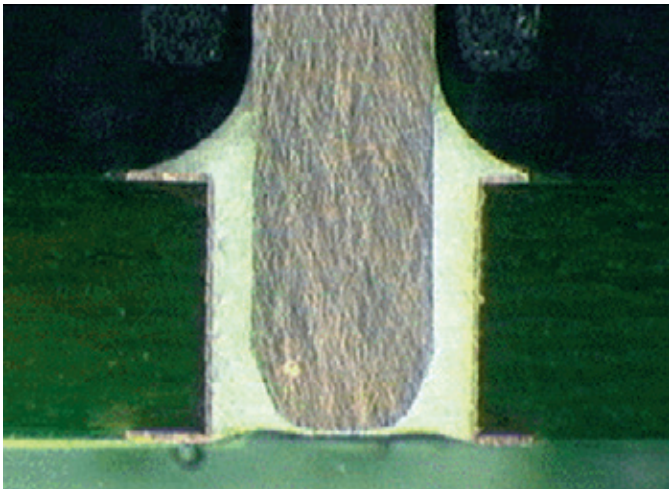
Control process:

The process quality control can be achieved by using various methods. Currently optical or X-ray examination is mostly used. The optical examination evaluates the shape, reflectivity and colour of the solder joints.

In the manual process, a magnifying glass or microscope is used, in the automatic process a computer controlled camera and software based image analysis is used.

In X-ray inspection, however, radiographic evaluation using automated X-ray microscopy is carried out. An important control factor are destructive testing in addition to the inspection process. Random samples are taken and used to verify measurable quantities:

- Analysis of the filling behaviour by cutting through the solder joint
- Mechanical testing of the pin pull-out resistance from the contacts

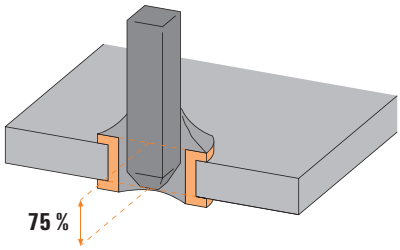


Cutting through the THR solder joint with the short pin

Norms and standards:

To make quality control more objective, norms and standards have been introduced over the recent years. In addition to other acceptance criteria for the manufacturing of electronic components, the quality control assessment criteria of the IPC-A-610E Norm are globally recognised.
According to IPC-A-610E quality requirements, THR solder joints are divided into three classes. For industrial applications where high power demands are made, Class 3 is the usual requirement. The following values are set for the five assessment criteria:

- The primary side solder wetting coverage (i.e. the insertion side from the view of the component), connection and sleeve should not be less than 270°.
- The vertical solder filling must be at least 75 %.



Measuring the filling level of through hole solder joints according to IPC-A-610E

- The secondary side solder wetting coverage (i.e. the underside from the view of the component) should not be less than 330°.
- Solder wetting of the solder pads (i.e. remains of the original ring of the THR solder joint) on the primary side is to be 0 %.
- Solder wetting of the solder pads on the secondary side must be at least 75 %.

These standards produce many demands on the wired components in the quality control. It should be noted that, in the THR process, there are typically two different construction types:

- Short pins when compared to the PCB thickness
- Longer pins when compared to the PCB thickness (about 1 to 1.5 mm protrusion)

For short pin construction there are the following requirements:

- The solder joints on the primary side of the PCB must be visible.
- For components with pins under the insulating body, the height of the component over the PCB must be sufficient to allow optical inspection.

For long pins, there are the following requirements:

- The solder joints on the secondary side must be visible.
- Solder joints on the primary side are, however, not required.

Additionally, in destructive testing with THR components there are requirements placed on the PCB itself. To control the quality of the PCB construction, the pull out strength of the solder pins from the solder joint is tested.

Required pull out strength:

- with short pins: approximately > 150 N.
- for long pins with a solder meniscus on the primary and secondary sides: approximately 220 N.

In comparison,

For surface connections for SMD components the required pull-out strength is only about 15 - 20 N.

According to IPC-A-610 Revision E-2010, section 7.3.3 the use of pins that are shorter than the PCB thickness is permissible in principle.

Conversion table

AWG to mm² conductors

AWG is the abbreviation for "**A**merican **W**ire **G**auge". This designation bears no resemblance to the actual cross-section of the conductor.

The relationship between AWG and mm² is shown in the following table.

AWG	mm²
28	0,08
26	0,13
24	0,21
22	0,32
20	0,52
19	0,65
18	0,82
17	1,04
16	1,31
15	1,65
14	2,08
13	2,63
12	3,31
11	4,17
10	5,26
9	6,63
8	8,37
7	10,55
6	13,30
5	16,77
4	21,15
3	26,67
2	33,63
1	42,41
0	53,48

Index

Index	Index Type	X.2
	Index Order No.	X.38
	Addresses worldwide	X.76

Type	Order No.	Page
A		
ADP 1/HP1 1M	0485200000	I.44
ADP 10	4169320000	I.48
ADP 11	4169330000	I.48
ADP 5	4167150000	I.46
ADP 6	4167160000	I.46
AP 100	1185060000	I.48
AP 100 D	1185160000	I.48
AP 110	1185260000	I.48
AP 110 D	1185360000	I.48
AP 111	1185460000	I.48
AP 111 D	1185560000	I.48
AP 45/LI	8143910000	I.44
AP 45/LI DI	8140870000	I.44
AP 45/LI OR	1011590000	I.44
AP 45/RE	8143900000	I.44
AP 45/RE DI	8140860000	I.44
AP 45/RE OR	1011600000	I.44
AP 80	1324260000	I.46
AP 80	8320300000	I.46
AP 80 D	1324360000	I.46
AP 85	1410860000	I.46
AP 85 D	1411060000	I.46
AP 86	1410960000	I.46
AP 86 D	1411160000	I.46
AP 90 GR	1961890000	I.47
AP 90 OR	1961880000	I.47
AP MCZ1.5	8389030000	I.39
AP RF 122 LI OR	1020640000	I.49
AP RF 122 RE OR	1020650000	I.49
AP RF80 LI	8156210000	I.46
AP RF80 RE	8156200000	I.46
B		
B2CF 3.50/04/180 SN BK BX	1277460000	C.12
B2CF 3.50/04/180 SN OR BX	1277270000	C.12
B2CF 3.50/04/180F SN BK BX	1277860000	C.13
B2CF 3.50/04/180F SN OR BX	1277650000	C.13
B2CF 3.50/04/180LR SN BK BX	1278230000	C.13
B2CF 3.50/04/180LR SN OR BX	1278040000	C.13
B2CF 3.50/06/180 SN BK BX	1277470000	C.12
B2CF 3.50/06/180 SN OR BX	1277280000	C.12
B2CF 3.50/06/180F SN BK BX	1277870000	C.13
B2CF 3.50/06/180F SN OR BX	1277670000	C.13
B2CF 3.50/06/180LR SN BK BX	1278240000	C.13
B2CF 3.50/06/180LR SN OR BX	1278050000	C.13
B2CF 3.50/08/180 SN BK BX	1277480000	C.12
B2CF 3.50/08/180 SN OR BX	1277290000	C.12
B2CF 3.50/08/180F SN BK BX	1277880000	C.13
B2CF 3.50/08/180F SN OR BX	1277680000	C.13
B2CF 3.50/08/180LR SN BK BX	1278250000	C.13
B2CF 3.50/08/180LR SN OR BX	1278060000	C.13
B2CF 3.50/10/180 SN BK BX	1277490000	C.12
B2CF 3.50/10/180 SN OR BX	1277310000	C.12
B2CF 3.50/10/180F SN BK BX	1277890000	C.13
B2CF 3.50/10/180F SN OR BX	1277690000	C.13
B2CF 3.50/10/180LR SN BK BX	1278260000	C.13
B2CF 3.50/10/180LR SN OR BX	1278070000	C.13
B2CF 3.50/12/180 SN BK BX	1277510000	C.12
B2CF 3.50/12/180 SN OR BX	1277320000	C.12
B2CF 3.50/12/180F SN BK BX	1277900000	C.13
B2CF 3.50/12/180F SN OR BX	1277720000	C.13
B2CF 3.50/12/180LR SN BK BX	1278270000	C.13
B2CF 3.50/12/180LR SN OR BX	1278080000	C.13
B2CF 3.50/14/180 SN BK BX	1277520000	C.12
B2CF 3.50/14/180 SN OR BX	1277330000	C.12
B2CF 3.50/14/180F SN BK BX	1277910000	C.13
B2CF 3.50/14/180F SN OR BX	1277730000	C.13
B2CF 3.50/14/180LR SN BK BX	1278280000	C.13
B2CF 3.50/14/180LR SN OR BX	1278090000	C.13
B2CF 3.50/16/180 SN BK BX	1277530000	C.12
B2CF 3.50/16/180 SN OR BX	1277340000	C.12
B2CF 3.50/16/180F SN BK BX	1277920000	C.13
B2CF 3.50/16/180F SN OR BX	1277740000	C.13
B2CF 3.50/16/180LR SN BK BX	1278290000	C.13
B2CF 3.50/16/180LR SN OR BX	1278100000	C.13
B2CF 3.50/18/180 SN BK BX	1277540000	C.12
B2CF 3.50/18/180 SN OR BX	1277350000	C.12
B2CF 3.50/18/180F SN BK BX	1277930000	C.13
B2CF 3.50/18/180F SN OR BX	1277750000	C.13
B2CF 3.50/18/180LR SN BK BX	1278300000	C.13
B2CF 3.50/18/180LR SN OR BX	1278110000	C.13
B2CF 3.50/20/180 SN BK BX	1277550000	C.12
B2CF 3.50/20/180 SN OR BX	1277360000	C.12
B2CF 3.50/20/180F SN BK BX	1277940000	C.13
B2CF 3.50/20/180F SN OR BX	1277760000	C.13
B2CF 3.50/20/180LR SN BK BX	1278310000	C.13
B2CF 3.50/20/180LR SN OR BX	1278120000	C.13
B2CF 3.50/22/180 SN BK BX	1277560000	C.12
B2CF 3.50/22/180 SN OR BX	1277370000	C.12
B2CF 3.50/22/180F SN BK BX	1277950000	C.13
B2CF 3.50/22/180F SN OR BX	1277770000	C.13
B2CF 3.50/22/180LR SN BK BX	1278320000	C.13
B2CF 3.50/22/180LR SN OR BX	1278130000	C.13
B2CF 3.50/24/180 SN BK BX	1277570000	C.12
B2CF 3.50/24/180 SN OR BX	1277380000	C.12
B2CF 3.50/24/180F SN BK BX	1277970000	C.13
B2CF 3.50/24/180F SN OR BX	1277780000	C.13
B2CF 3.50/24/180LR SN BK BX	1278340000	C.13
B2CF 3.50/24/180LR SN OR BX	1278140000	C.13
B2CF 3.50/26/180 SN BK BX	1277580000	C.12
B2CF 3.50/26/180 SN OR BX	1277390000	C.12
B2CF 3.50/26/180F SN BK BX	1277980000	C.13
B2CF 3.50/26/180F SN OR BX	1277790000	C.13
B2CF 3.50/26/180LR SN BK BX	1278350000	C.13
B2CF 3.50/26/180LR SN OR BX	1278150000	C.13
B2CF 3.50/28/180 SN BK BX	1277590000	C.12
B2CF 3.50/28/180 SN OR BX	1277410000	C.12
B2CF 3.50/28/180F SN BK BX	1277990000	C.13
B2CF 3.50/28/180F SN OR BX	1277810000	C.13
B2CF 3.50/28/180LR SN BK BX	1278370000	C.13
B2CF 3.50/28/180LR SN OR BX	1278170000	C.13
B2CF 3.50/30/180 SN BK BX	1277610000	C.12
B2CF 3.50/30/180 SN OR BX	1277420000	C.12
B2CF 3.50/30/180F SN BK BX	1278000000	C.13
B2CF 3.50/30/180F SN OR BX	1277820000	C.13
B2CF 3.50/30/180LR SN BK BX	1278380000	C.13
B2CF 3.50/30/180LR SN OR BX	1278180000	C.13
B2CF 3.50/32/180 SN BK BX	1277620000	C.12
B2CF 3.50/32/180 SN OR BX	1277430000	C.12
B2CF 3.50/32/180F SN BK BX	1278010000	C.13
B2CF 3.50/32/180F SN OR BX	1277830000	C.13
B2CF 3.50/32/180LR SN BK BX	1278390000	C.13
B2CF 3.50/32/180LR SN OR BX	1278190000	C.13
B2CF 3.50/34/180 SN BK BX	1277630000	C.12
B2CF 3.50/34/180 SN OR BX	1277440000	C.12
B2CF 3.50/34/180F SN BK BX	1278020000	C.13
B2CF 3.50/34/180F SN OR BX	1277840000	C.13
B2CF 3.50/34/180LR SN BK BX	1278400000	C.13
B2CF 3.50/34/180LR SN OR BX	1278200000	C.13
B2CF 3.50/36/180 SN BK BX	1277640000	C.12
B2CF 3.50/36/180 SN OR BX	1277450000	C.12
B2CF 3.50/36/180F SN BK BX	1278030000	C.13
B2CF 3.50/36/180F SN OR BX	1277850000	C.13
B2CF 3.50/36/180LR SN BK BX	1278410000	C.13
B2CF 3.50/36/180LR SN OR BX	1278210000	C.13
B2L 3.50-AH 10 SW	1781580000	D.4
B2L 3.50-AH 12 SW	1781590000	D.4
B2L 3.50-AH 14 SW	1781600000	D.4
B2L 3.50-AH 16 SW	1781610000	D.4
B2L 3.50-AH 18 SW	1781620000	D.4
B2L 3.50-AH 20 SW	1781630000	D.4
B2L 3.50-AH 22 SW	1781640000	D.4
B2L 3.50-AH 24 SW	1781650000	D.4
B2L 3.50-AH 26 SW	1781660000	D.4
B2L 3.50-AH 28 SW	1781670000	D.4
B2L 3.50-AH 30 SW	1781680000	D.4
B2L 3.50-AH 32 SW	1781690000	D.4
B2L 3.50-AH 34 SW	1781700000	D.4
B2L 3.50-AH 36 SW	1781710000	D.4
B2L 3.50-AH 6 SW	1781560000	D.4
B2L 3.50-AH 8 SW	1781570000	D.4
B2L 3.50/06/180FQV3 SN BK BX	1944670000	C.19
B2L 3.50/06/180LHQV3 SN BK BX	1944750000	C.19
B2L 3.50/06/180QV3 SN BK BX	1944590000	C.18
B2L 3.50/08/180FQV4 SN BK BX	1944680000	C.19
B2L 3.50/08/180LHQV4 SN BK BX	1944760000	C.19
B2L 3.50/08/180QV4 SN BK BX	1944600000	C.18
B2L 3.50/10/180FQV5 SN BK BX	1944690000	C.19
B2L 3.50/10/180LHQV5 SN BK BX	1944770000	C.19
B2L 3.50/10/180QV5 SN BK BX	1944610000	C.18
B2L 3.50/12/180FQV6 SN BK BX	1944700000	C.19
B2L 3.50/12/180LHQV6 SN BK BX	1944780000	C.19
B2L 3.50/12/180QV6 SN BK BX	1944620000	C.18
B2L 3.50/14/180FQV7 SN BK BX	1944710000	C.19
B2L 3.50/14/180LHQV7 SN BK BX	1944790000	C.19
B2L 3.50/14/180QV7 SN BK BX	1944630000	C.18
B2L 3.50/16/180FQV8 SN BK BX	1944720000	C.19
B2L 3.50/16/180LHQV8 SN BK BX	1944800000	C.19
B2L 3.50/16/180QV8 SN BK BX	1944640000	C.18
B2L 3.50/18/180FQV9 SN BK BX	1944730000	C.19
B2L 3.50/18/180LHQV9 SN BK BX	1944810000	C.19
B2L 3.50/18/180QV9 SN BK BX	1944650000	C.18
B2L/S2L 3.5 KO OR	1849730000	D.10
B2L/S2L 3.5 KO SW	1849740000	D.10
BBDF BK	1307580000	D.5
BBDF OR	1307570000	D.5
BCF 3.81/02/180 SN BK BX	1969890000	C.112
BCF 3.81/02/180 SN OR BX	1969090000	C.112
BCF 3.81/02/180F SN BK BX	1971500000	C.113
BCF 3.81/02/180F SN OR BX	1970300000	C.113
BCF 3.81/02/180LR SN BK BX	1972600000	C.113
BCF 3.81/02/180LR SN OR BX	1972200000	C.113
BCF 3.81/03/180 SN BK BX	1969920000	C.112
BCF 3.81/03/180 SN OR BX	1969100000	C.112
BCF 3.81/03/180F SN BK BX	1971570000	C.113
BCF 3.81/03/180F SN OR BX	1970330000	C.113
BCF 3.81/03/180LR SN BK BX	1972610000	C.113
BCF 3.81/03/180LR SN OR BX	1972210000	C.113
BCF 3.81/04/180 SN BK BX	1969950000	C.112
BCF 3.81/04/180 SN OR BX	1969110000	C.112
BCF 3.81/04/180F SN BK BX	1971590000	C.113
BCF 3.81/04/180F SN OR BX	1970370000	C.113
BCF 3.81/04/180LR SN BK BX	1972620000	C.113
BCF 3.81/04/180LR SN OR BX	1972220000	C.113
BCF 3.81/05/180 SN BK BX	1969970000	C.112
BCF 3.81/05/180 SN OR BX	1969120000	C.112
BCF 3.81/05/180F SN BK BX	1971620000	C.113
BCF 3.81/05/180F SN OR BX	1970380000	C.113
BCF 3.81/05/180FZE SN BK BX	1231350000	C.115
BCF 3.81/05/180FZE SN OR BX	1235970000	C.115
BCF 3.81/05/180LR SN BK BX	1972630000	C.113
BCF 3.81/05/180LR SN OR BX	1972230000	C.113
BCF 3.81/05/180LRZE SN BK BX	1231520000	C.115
BCF 3.81/05/180LRZE SN OR BX	1236120000	C.115
BCF 3.81/05/180ZE SN BK BX	1231680000	C.114
BCF 3.81/05/180ZE SN OR BX	1235790000	C.114
BCF 3.81/06/180 SN BK BX	1969980000	C.112
BCF 3.81/06/180 SN OR BX	1969130000	C.112
BCF 3.81/06/180F SN BK BX	1971650000	C.113
BCF 3.81/06/180F SN OR BX	1970400000	C.113
BCF 3.81/06/180FZE SN BK BX	1231360000	C.115
BCF 3.81/06/180FZE SN OR BX	1235980000	C.115
BCF 3.81/06/180LR SN BK BX	1972640000	C.113
BCF 3.81/06/180LR SN OR BX	1972240000	C.113
BCF 3.81/06/180LRZE SN BK BX	1231530000	C.115
BCF 3.81/06/180LRZE SN OR BX	1236130000	C.115
BCF 3.81/06/180ZE SN BK BX	1231690000	C.114
BCF 3.81/06/180ZE SN OR BX	1235800000	C.114
BCF 3.81/07/180 SN BK BX	1969990000	C.112
BCF 3.81/07/180 SN OR BX	1969140000	C.112
BCF 3.81/07/180F SN BK BX	1971780000	C.113
BCF 3.81/07/180F SN OR BX	1970440000	C.113
BCF 3.81/07/180FZE SN BK BX	1231370000	C.115
BCF 3.81/07/180FZE SN OR BX	1235990000	C.115
BCF 3.81/07/180LR SN BK BX	1972650000	C.113
BCF 3.81/07/180LR SN OR BX	1972250000	C.113
BCF 3.81/07/180LRZE SN BK BX	1231540000	C.115
BCF 3.81/07/180LRZE SN OR BX	1236140000	C.115
BCF 3.81/07/180ZE SN BK BX	1231710000	C.114
BCF 3.81/07/180ZE SN OR BX	1235810000	C.114
BCF 3.81/08/180 SN BK BX	1970000000	C.112
BCF 3.81/08/180 SN OR BX	1969150000	C.112
BCF 3.81/08/180F SN BK BX	1971830000	C.113
BCF 3.81/08/180F SN OR BX	1970550000	C.113
BCF 3.81/08/180FZE SN BK BX	1231380000	C.115
BCF 3.81/08/180FZE SN OR BX	1236000000	C.115
BCF 3.81/08/180LR SN BK BX	1972660000	C.113
BCF 3.81/08/180LR SN OR BX	1972260000	C.113
BCF 3.81/08/180LRZE SN BK BX	1231550000	C.115
BCF 3.81/08/180LRZE SN OR BX	1236150000	C.115
BCF 3.81/08/180ZE SN BK BX	1231720000	C.114
BCF 3.81/08/180ZE SN OR BX	1235820000	C.114
BCF 3.81/09/180 SN BK BX	1970040000	C.112
BCF 3.81/09/180 SN OR BX	1969160000	C.112
BCF 3.81/09/180F SN BK BX	1971850000	C.113
BCF 3.81/09/180F SN OR BX	1970570000	C.113
BCF 3.81/09/180FZE SN BK BX	1231390000	C.115
BCF 3.81/09/180FZE SN OR BX	1236010000	C.115
BCF 3.81/09/180LR SN BK BX	1972670000	C.113
BCF 3.81/09/180LR SN OR BX	1972270000	C.113
BCF 3.81/09/180LRZE SN BK BX	1231560000	C.115
BCF 3.81/09/180LRZE SN OR BX	1236160000	C.115
BCF 3.81/09/180ZE SN BK BX	1231730000	C.114
BCF 3.81/09/180ZE SN OR BX	1235830000	C.114
BCF 3.81/10/180 SN BK BX	1970130000	C.112
BCF 3.81/10/180 SN OR BX	1969170000	C.112
BCF 3.81/10/180F SN BK BX	1971870000	C.113
BCF 3.81/10/180F SN OR BX	1970580000	C.113
BCF 3.81/10/180FZE SN BK BX	1231410000	C.115
BCF 3.81/10/180FZE SN OR BX	1236020000	C.115
BCF 3.81/10/180LR SN BK BX	1972680000	C.113
BCF 3.81/10/180LR SN OR BX	1972280000	C.113
BCF 3.81/10/180LRZE SN BK BX	1231570000	C.115
BCF 3.81/10/180LRZE SN OR BX	1236170000	C.115
BCF 3.81/10/180ZE SN BK BX	1231740000	C.114
BCF 3.81/10/180ZE SN OR BX	1235840000	C.114
BCF 3.81/11/180 SN BK BX	1970170000	C.112
BCF 3.81/11/180 SN OR BX	1969180000	C.112
BCF 3.81/11/180F SN BK BX	1971900000	C.113
BCF 3.81/11/180F SN OR BX	1970620000	C.113
BCF 3.81/11/180FZE SN BK BX	1231420000	C.115
BCF 3.81/11/180FZE SN OR BX	1236030000	C.115
BCF 3.81/11/180LR SN BK BX	1972690000	C.113
BCF 3.81/11/180LR SN OR BX	1972290000	C.113
BCF 3.81/11/180LRZE SN BK BX	1231580000	C.115
BCF 3.81/11/180LRZE SN OR BX	1236180000	C.115
BCF 3.81/11/180ZE SN BK BX	1231750000	C.114
BCF 3.81/11/180ZE SN OR BX	1235870000	C.114
BCF 3.81/12/180 SN BK BX	1970190000	C.112
BCF 3.81/12/180 SN OR BX	1969190000	C.112
BCF 3.81/12/180F SN BK BX	1971940000	C.113
BCF 3.81/12/180F SN OR BX	1970650000	C.113
BCF 3.81/12/180FZE SN BK BX	1231430000	C.115
BCF 3.81/12/180FZE SN OR BX	1236040000	C.115
BCF 3.81/12/180LR SN BK BX	1972700000	C.113
BCF 3.81/12/180LR SN OR BX	1972300000	C.113
BCF 3.81/12/180LRZE SN BK BX	1231590000	C.115
BCF 3.81/12/180LRZE SN OR BX	1236190000	C.115
BCF 3.81/12/180ZE SN BK BX	1231760000	C.114
BCF 3.81/12/180ZE SN OR BX	1235880000	C.114
BCF 3.81/13/180 SN BK BX	1970200000	C.112
BCF 3.81/13/180 SN OR BX	1969200000	C.112
BCF 3.81/13/180F SN BK BX	1971970000	C.113
BCF 3.81/13/180F SN OR BX	1970690000	C.113

Type	Order No.	Page
BCF 3.81/13/180FZE SN BK BX	1231440000	C.115
BCF 3.81/13/180FZE SN OR BX	1236050000	C.115
BCF 3.81/13/180LR SN BK BX	1972710000	C.113
BCF 3.81/13/180LR SN OR BX	1972310000	C.113
BCF 3.81/13/180LRZE SN BK BX	1231610000	C.115
BCF 3.81/13/180LRZE SN OR BX	1236200000	C.115
BCF 3.81/13/180ZE SN BK BX	1231770000	C.114
BCF 3.81/13/180ZE SN OR BX	1235890000	C.114
BCF 3.81/14/180 SN BK BX	1970210000	C.112
BCF 3.81/14/180 SN OR BX	1969210000	C.112
BCF 3.81/14/180F SN BK BX	1972000000	C.113
BCF 3.81/14/180F SN OR BX	1970730000	C.113
BCF 3.81/14/180FZE SN BK BX	1231450000	C.115
BCF 3.81/14/180FZE SN OR BX	1236070000	C.115
BCF 3.81/14/180LR SN BK BX	1972720000	C.113
BCF 3.81/14/180LR SN OR BX	1972320000	C.113
BCF 3.81/14/180LRZE SN BK BX	1231620000	C.115
BCF 3.81/14/180LRZE SN OR BX	1236210000	C.115
BCF 3.81/14/180ZE SN BK BX	1231780000	C.114
BCF 3.81/14/180ZE SN OR BX	1235900000	C.114
BCF 3.81/15/180 SN BK BX	1970220000	C.112
BCF 3.81/15/180 SN OR BX	1969220000	C.112
BCF 3.81/15/180F SN BK BX	1972030000	C.113
BCF 3.81/15/180F SN OR BX	1970750000	C.113
BCF 3.81/15/180FZE SN BK BX	1231460000	C.115
BCF 3.81/15/180FZE SN OR BX	1236080000	C.115
BCF 3.81/15/180LR SN BK BX	1972730000	C.113
BCF 3.81/15/180LR SN OR BX	1972330000	C.113
BCF 3.81/15/180LRZE SN BK BX	1231630000	C.115
BCF 3.81/15/180LRZE SN OR BX	1236220000	C.115
BCF 3.81/15/180ZE SN BK BX	1231790000	C.114
BCF 3.81/15/180ZE SN OR BX	1235910000	C.114
BCF 3.81/16/180 SN BK BX	1970230000	C.112
BCF 3.81/16/180 SN OR BX	1969230000	C.112
BCF 3.81/16/180F SN BK BX	1972070000	C.113
BCF 3.81/16/180F SN OR BX	1970820000	C.113
BCF 3.81/16/180FZE SN BK BX	1231470000	C.115
BCF 3.81/16/180FZE SN OR BX	1236090000	C.115
BCF 3.81/16/180LR SN BK BX	1972740000	C.113
BCF 3.81/16/180LR SN OR BX	1972340000	C.113
BCF 3.81/16/180LRZE SN BK BX	1231640000	C.115
BCF 3.81/16/180LRZE SN OR BX	1236230000	C.115
BCF 3.81/16/180ZE SN BK BX	1231810000	C.114
BCF 3.81/16/180ZE SN OR BX	1235920000	C.114
BCF 3.81/17/180 SN BK BX	1970240000	C.112
BCF 3.81/17/180 SN OR BX	1969240000	C.112
BCF 3.81/17/180F SN BK BX	1972100000	C.113
BCF 3.81/17/180F SN OR BX	1970850000	C.113
BCF 3.81/17/180FZE SN BK BX	1231480000	C.115
BCF 3.81/17/180FZE SN OR BX	1236100000	C.115
BCF 3.81/17/180LR SN BK BX	1972750000	C.113
BCF 3.81/17/180LR SN OR BX	1972350000	C.113
BCF 3.81/17/180LRZE SN BK BX	1231650000	C.115
BCF 3.81/17/180LRZE SN OR BX	1236240000	C.115
BCF 3.81/17/180ZE SN BK BX	1231820000	C.114
BCF 3.81/17/180ZE SN OR BX	1235930000	C.114
BCF 3.81/18/180 SN BK BX	1970250000	C.112
BCF 3.81/18/180 SN OR BX	1969250000	C.112
BCF 3.81/18/180F SN BK BX	1972170000	C.113
BCF 3.81/18/180F SN OR BX	1970890000	C.113
BCF 3.81/18/180FZE SN BK BX	1231490000	C.115
BCF 3.81/18/180FZE SN OR BX	1236110000	C.115
BCF 3.81/18/180LR SN BK BX	1972760000	C.113
BCF 3.81/18/180LR SN OR BX	1972360000	C.113
BCF 3.81/18/180LRZE SN BK BX	1231660000	C.115
BCF 3.81/18/180LRZE SN OR BX	1236250000	C.115
BCF 3.81/18/180ZE SN BK BX	1231830000	C.114
BCF 3.81/18/180ZE SN OR BX	1235940000	C.114
BCL-SMT 3.81/02/180 1.5SN BK BX	1976490000	C.118
BCL-SMT 3.81/02/180LFI 1.5SN BK BX	1029260000	C.119
BCL-SMT 3.81/02/90 1.5SN BK BX	1974750000	C.116
BCL-SMT 3.81/02/90F 1.5SN BK	1975690000	C.117
BCL-SMT 3.81/02/90LFI 1.5SN BK BX	1028720000	C.117
BCL-SMT 3.81/03/180 1.5SN BK BX	1976500000	C.118
BCL-SMT 3.81/03/180LFI 1.5SN BK BX	1029270000	C.119
BCL-SMT 3.81/03/90 1.5SN BK BX	1974770000	C.116
BCL-SMT 3.81/03/90F 1.5SN BK	1975700000	C.117
BCL-SMT 3.81/03/90LFI 1.5SN BK BX	1028730000	C.117
BCL-SMT 3.81/04/180 1.5SN BK BX	1976520000	C.118
BCL-SMT 3.81/04/180LFI 1.5SN BK BX	1029280000	C.119
BCL-SMT 3.81/04/90 1.5SN BK BX	1974780000	C.116
BCL-SMT 3.81/04/90F 1.5SN BK	1975710000	C.117
BCL-SMT 3.81/04/90LFI 1.5SN BK BX	1028740000	C.117
BCL-SMT 3.81/05/180 1.5SN BK BX	1976530000	C.118
BCL-SMT 3.81/05/180LFI 1.5SN BK BX	1029290000	C.119
BCL-SMT 3.81/05/90 1.5SN BK BX	1974800000	C.116
BCL-SMT 3.81/05/90F 1.5SN BK	1975730000	C.117
BCL-SMT 3.81/05/90LFI 1.5SN BK BX	1028750000	C.117
BCL-SMT 3.81/06/180 1.5SN BK BX	1976550000	C.118
BCL-SMT 3.81/06/180LFI 1.5SN BK BX	1029310000	C.119
BCL-SMT 3.81/06/90 1.5SN BK BX	1974820000	C.116
BCL-SMT 3.81/06/90F 1.5SN BK	1975740000	C.117
BCL-SMT 3.81/06/90LFI 1.5SN BK BX	1028760000	C.117
BCL-SMT 3.81/07/180 1.5SN BK BX	1976570000	C.118
BCL-SMT 3.81/07/180LFI 1.5SN BK BX	1029320000	C.119
BCL-SMT 3.81/07/90 1.5SN BK BX	1974840000	C.116
BCL-SMT 3.81/07/90F 1.5SN BK	1975750000	C.117
BCL-SMT 3.81/07/90LFI 1.5SN BK BX	1028770000	C.117
BCL-SMT 3.81/08/180 1.5SN BK BX	1976580000	C.118

Type	Order No.	Page
BCL-SMT 3.81/08/180LFI 1.5SN BK BX	1029330000	C.119
BCL-SMT 3.81/08/90 1.5SN BK BX	1974850000	C.116
BCL-SMT 3.81/08/90F 1.5SN BK	1975760000	C.117
BCL-SMT 3.81/08/90LFI 1.5SN BK BX	1028790000	C.117
BCL-SMT 3.81/09/180 1.5SN BK BX	1976590000	C.118
BCL-SMT 3.81/09/180LFI 1.5SN BK BX	1029340000	C.119
BCL-SMT 3.81/09/90 1.5SN BK BX	1974880000	C.116
BCL-SMT 3.81/09/90F 1.5SN BK	1975780000	C.117
BCL-SMT 3.81/09/90LFI 1.5SN BK BX	1028810000	C.117
BCL-SMT 3.81/10/180 1.5SN BK BX	1976610000	C.118
BCL-SMT 3.81/10/180LFI 1.5SN BK BX	1029350000	C.119
BCL-SMT 3.81/10/90 1.5SN BK BX	1974890000	C.116
BCL-SMT 3.81/10/90F 1.5SN BK	1975790000	C.117
BCL-SMT 3.81/10/90LFI 1.5SN BK BX	1028820000	C.117
BCL-SMT 3.81/11/180 1.5SN BK BX	1976620000	C.118
BCL-SMT 3.81/11/180LFI 1.5SN BK BX	1029360000	C.119
BCL-SMT 3.81/11/90 1.5SN BK BX	1974910000	C.116
BCL-SMT 3.81/11/90F 1.5SN BK	1975820000	C.117
BCL-SMT 3.81/11/90LFI 1.5SN BK BX	1028830000	C.117
BCL-SMT 3.81/12/180 1.5SN BK BX	1976640000	C.118
BCL-SMT 3.81/12/180LFI 1.5SN BK BX	1029370000	C.119
BCL-SMT 3.81/12/90 1.5SN BK BX	1974930000	C.116
BCL-SMT 3.81/12/90F 1.5SN BK	1975830000	C.117
BCL-SMT 3.81/12/90LFI 1.5SN BK BX	1028840000	C.117
BCZ 3.81 AH03	1005280000	D.4
BCZ 3.81 AH04	1005290000	D.4
BCZ 3.81 AH05	1005300000	D.4
BCZ 3.81 AH06	1005310000	D.4
BCZ 3.81 AH07	1005320000	D.4
BCZ 3.81 AH08	1005330000	D.4
BCZ 3.81 AH09	1005340000	D.4
BCZ 3.81 AH10	1005350000	D.4
BCZ 3.81 AH11	1005360000	D.4
BCZ 3.81 AH12	1005370000	D.4
BCZ 3.81 AH13	1005380000	D.4
BCZ 3.81 AH14	1005390000	D.4
BCZ 3.81 AH15	1005400000	D.4
BCZ 3.81 AH16	1005410000	D.4
BCZ 3.81/02/180 SN BK BX	1792770000	C.106
BCZ 3.81/02/180 SN OR BX	1940730000	C.106
BCZ 3.81/02/180F SN BK BX	1792950000	C.107
BCZ 3.81/02/180F SN OR BX	1941010000	C.107
BCZ 3.81/02/180LR SN BK BX	1941780000	C.107
BCZ 3.81/02/180LR SN OR BX	1941400000	C.107
BCZ 3.81/02/270 SN BK BX	1798940000	C.111
BCZ 3.81/02/270 SN OR BX	1940190000	C.111
BCZ 3.81/02/270F SN BK BX	1799100000	C.111
BCZ 3.81/02/270F SN OR BX	1940460000	C.111
BCZ 3.81/02/90 SN BK BX	1798500000	C.110
BCZ 3.81/02/90 SN OR BX	1939820000	C.110
BCZ 3.81/02/90F SN BK BX	1798780000	C.111
BCZ 3.81/02/90F SN OR BX	1939980000	C.111
BCZ 3.81/03/180 SN BK BX	1792780000	C.106
BCZ 3.81/03/180 SN OR BX	1940740000	C.106
BCZ 3.81/03/180F SN BK BX	1792960000	C.107
BCZ 3.81/03/180F SN OR BX	1941020000	C.107
BCZ 3.81/03/180LR SN BK BX	1941790000	C.107
BCZ 3.81/03/180LR SN OR BX	1941410000	C.107
BCZ 3.81/03/270 SN BK BX	1798160000	C.111
BCZ 3.81/03/270 SN OR BX	1940200000	C.111
BCZ 3.81/03/270F SN BK BX	1798180000	C.111
BCZ 3.81/03/270F SN OR BX	1940470000	C.111
BCZ 3.81/03/90 SN BK BX	1798120000	C.110
BCZ 3.81/03/90 SN OR BX	1939830000	C.110
BCZ 3.81/03/90F SN BK BX	1798140000	C.111
BCZ 3.81/03/90F SN OR BX	1939990000	C.111
BCZ 3.81/04/180 SN BK BX	1792790000	C.106
BCZ 3.81/04/180 SN OR BX	1940750000	C.106
BCZ 3.81/04/180F SN BK BX	1792970000	C.107
BCZ 3.81/04/180F SN OR BX	1941030000	C.107
BCZ 3.81/04/180LR SN BK BX	1941800000	C.107
BCZ 3.81/04/180LR SN OR BX	1941420000	C.107
BCZ 3.81/04/270 SN BK BX	1798950000	C.111
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BCZ 3.81/04/90 SN BK BX	1798550000	C.110
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BCZ 3.81/04/90F SN OR BX	1940000000	C.111
BCZ 3.81/05/180 SN BK BX	1792800000	C.106
BCZ 3.81/05/180 SN OR BX	1940760000	C.106
BCZ 3.81/05/180F SN BK BX	1792980000	C.107
BCZ 3.81/05/180F SN OR BX	1941040000	C.107
BCZ 3.81/05/180FZE SN BK BX	1072130000	C.109
BCZ 3.81/05/180FZE SN OR BX	1236530000	C.109
BCZ 3.81/05/180LR SN BK BX	1941810000	C.107
BCZ 3.81/05/180LR SN OR BX	1941430000	C.107
BCZ 3.81/05/180LRZE SN BK BX	1072310000	C.109
BCZ 3.81/05/180LRZE SN OR BX	1236790000	C.109
BCZ 3.81/05/180ZE SN BK BX	1071950000	C.108
BCZ 3.81/05/180ZE SN OR BX	1236270000	C.108
BCZ 3.81/05/270 SN BK BX	1798960000	C.111
BCZ 3.81/05/270 SN OR BX	1940220000	C.111
BCZ 3.81/05/270F SN BK BX	1799120000	C.111
BCZ 3.81/05/270F SN OR BX	1940490000	C.111
BCZ 3.81/05/90 SN BK BX	1798570000	C.110
BCZ 3.81/05/90 SN OR BX	1939860000	C.110
BCZ 3.81/05/90F SN BK BX	1798800000	C.111

Type	Order No.	Page
BCZ 3.81/05/90F SN OR BX	1940010000	C.111
BCZ 3.81/06/180 SN BK BX	1792810000	C.106
BCZ 3.81/06/180 SN OR BX	1940770000	C.106
BCZ 3.81/06/180F SN BK BX	1792990000	C.107
BCZ 3.81/06/180F SN OR BX	1941050000	C.107
BCZ 3.81/06/180FZE SN BK BX	1072140000	C.109
BCZ 3.81/06/180FZE SN OR BX	1236540000	C.109
BCZ 3.81/06/180LR SN BK BX	1941820000	C.107
BCZ 3.81/06/180LR SN OR BX	1941440000	C.107
BCZ 3.81/06/180LRZE SN BK BX	1072320000	C.109
BCZ 3.81/06/180LRZE SN OR BX	1236800000	C.109
BCZ 3.81/06/180ZE SN BK BX	1071960000	C.108
BCZ 3.81/06/180ZE SN OR BX	1236280000	C.108
BCZ 3.81/06/270 SN BK BX	1798970000	C.111
BCZ 3.81/06/270 SN OR BX	1940230000	C.111
BCZ 3.81/06/270F SN BK BX	1799130000	C.111
BCZ 3.81/06/270F SN OR BX	1940500000	C.111
BCZ 3.81/06/90 SN BK BX	1798590000	C.110
BCZ 3.81/06/90 SN OR BX	1939870000	C.110
BCZ 3.81/06/90F SN BK BX	1798810000	C.111
BCZ 3.81/06/90F SN OR BX	1940020000	C.111
BCZ 3.81/07/180 SN BK BX	1871410000	C.106
BCZ 3.81/07/180 SN OR BX	1940780000	C.106
BCZ 3.81/07/180F SN BK BX	1837020000	C.107
BCZ 3.81/07/180F SN OR BX	1941060000	C.107
BCZ 3.81/07/180FZE SN BK BX	1072150000	C.109
BCZ 3.81/07/180FZE SN OR BX	1236570000	C.109
BCZ 3.81/07/180LR SN BK BX	1941830000	C.107
BCZ 3.81/07/180LR SN OR BX	1941450000	C.107
BCZ 3.81/07/180LRZE SN BK BX	1072330000	C.109
BCZ 3.81/07/180LRZE SN OR BX	1236810000	C.109
BCZ 3.81/07/180ZE SN BK BX	1071970000	C.108
BCZ 3.81/07/180ZE SN OR BX	1236290000	C.108
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BCZ 3.81/07/270F SN BK BX	1940670000	C.111
BCZ 3.81/07/270F SN OR BX	1940510000	C.111
BCZ 3.81/07/90 SN BK BX	1858960000	C.110
BCZ 3.81/07/90 SN OR BX	1939880000	C.110
BCZ 3.81/07/90F SN BK BX	1845690000	C.111
BCZ 3.81/07/90F SN OR BX	1940030000	C.111
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BCZ 3.81/08/180F SN OR BX	1941070000	C.107
BCZ 3.81/08/180FZE SN BK BX	1941980000	C.109
BCZ 3.81/08/180FZE SN OR BX	1236590000	C.109
BCZ 3.81/08/180LR SN BK BX	1941840000	C.107
BCZ 3.81/08/180LR SN OR BX	1941460000	C.107
BCZ 3.81/08/180LRZE SN BK BX	1941990000	C.109
BCZ 3.81/08/180LRZE SN OR BX	1236820000	C.109
BCZ 3.81/08/180ZE SN BK BX	1941970000	C.108
BCZ 3.81/08/180ZE SN OR BX	1236300000	C.108
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BCZ 3.81/08/270F SN OR BX	1940520000	C.111
BCZ 3.81/08/90 SN BK BX	1798130000	C.110
BCZ 3.81/08/90 SN OR BX	1939890000	C.110
BCZ 3.81/08/90F SN BK BX	1798150000	C.111
BCZ 3.81/08/90F SN OR BX	1940040000	C.111
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BCZ 3.81/09/180F SN OR BX	1941080000	C.107
BCZ 3.81/09/180FZE SN BK BX	1072160000	C.109
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BCZ 3.81/09/180LR SN OR BX	1941470000	C.107
BCZ 3.81/09/180LRZE SN BK BX	1072340000	C.109
BCZ 3.81/09/180LRZE SN OR BX	1236830000	C.109
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BCZ 3.81/09/270F SN BK BX	1940680000	C.111
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BCZ 3.81/09/90 SN BK BX	1871430000	C.110
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BCZ 3.81/10/180 SN OR BX	1940810000	C.106
BCZ 3.81/10/180F SN BK BX	1793010000	C.107
BCZ 3.81/10/180F SN OR BX	1941090000	C.107
BCZ 3.81/10/180FZE SN BK BX	1072170000	C.109
BCZ 3.81/10/180FZE SN OR BX	1236610000	C.109
BCZ 3.81/10/180LR SN BK BX	1941860000	C.107
BCZ 3.81/10/180LR SN OR BX	1941480000	C.107
BCZ 3.81/10/180LRZE SN BK BX	1072350000	C.109
BCZ 3.81/10/180LRZE SN OR BX	1236840000	C.109
BCZ 3.81/10/180ZE SN BK BX	1072010000	C.108
BCZ 3.81/10/180ZE SN OR BX	1236330000	C.108
BCZ 3.81/10/270 SN BK BX	1798980000	C.111
BCZ 3.81/10/270 SN OR BX	1940270000	C.111
BCZ 3.81/10/270F SN BK BX	1799140000	C.111
BCZ 3.81/10/270F SN OR BX	1940540000	C.111
BCZ 3.81/10/90 SN BK BX	1798610000	C.110
BCZ 3.81/10/90 SN OR BX	1939910000	C.110

Type	Order No.	Page
BCZ 3.81/10/90F SN BK BX	1798820000	C.111
BCZ 3.81/10/90F SN OR BX	1940060000	C.111
BCZ 3.81/11/180 SN BK BX	1899400000	C.106
BCZ 3.81/11/180 SN OR BX	1940820000	C.106
BCZ 3.81/11/180F SN BK BX	1899550000	C.107
BCZ 3.81/11/180F SN OR BX	1941100000	C.107
BCZ 3.81/11/180FZE SN BK BX	1072180000	C.109
BCZ 3.81/11/180FZE SN OR BX	1236620000	C.109
BCZ 3.81/11/180LR SN BK BX	1941870000	C.107
BCZ 3.81/11/180LR SN OR BX	1941490000	C.107
BCZ 3.81/11/180LRZE SN BK BX	1072360000	C.109
BCZ 3.81/11/180LRZE SN OR BX	1236850000	C.109
BCZ 3.81/11/180ZE SN BK BX	1072020000	C.108
BCZ 3.81/11/180ZE SN OR BX	1236340000	C.108
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BCZ 3.81/12/180 SN OR BX	1940830000	C.106
BCZ 3.81/12/180F SN BK BX	1793020000	C.107
BCZ 3.81/12/180F SN OR BX	1941110000	C.107
BCZ 3.81/12/180FZE SN BK BX	1072190000	C.109
BCZ 3.81/12/180FZE SN OR BX	1236630000	C.109
BCZ 3.81/12/180LR SN BK BX	1941880000	C.107
BCZ 3.81/12/180LR SN OR BX	1941500000	C.107
BCZ 3.81/12/180LRZE SN BK BX	1072370000	C.109
BCZ 3.81/12/180LRZE SN OR BX	1236870000	C.109
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BCZ 3.81/12/180ZE SN OR BX	1236370000	C.108
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BCZ 3.81/13/180LRZE SN OR BX	1236880000	C.109
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BCZ 3.81/13/90F SN OR BX	1940090000	C.111
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BCZ 3.81/14/180F SN BK BX	1899590000	C.107
BCZ 3.81/14/180F SN OR BX	1941130000	C.107
BCZ 3.81/14/180FZE SN BK BX	1072230000	C.109
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BCZ 3.81/14/180LR SN OR BX	1941520000	C.107
BCZ 3.81/14/180LRZE SN BK BX	1072390000	C.109
BCZ 3.81/14/180LRZE SN OR BX	1236890000	C.109
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BCZ 3.81/14/180ZE SN OR BX	1236390000	C.108
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BCZ 3.81/15/180F SN BK BX	1899610000	C.107
BCZ 3.81/15/180F SN OR BX	1941140000	C.107
BCZ 3.81/15/180FZE SN BK BX	1072240000	C.109
BCZ 3.81/15/180FZE SN OR BX	1236680000	C.109
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BCZ 3.81/15/180LR SN OR BX	1941530000	C.107
BCZ 3.81/15/180LRZE SN BK BX	1072450000	C.109
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BCZ 3.81/15/180ZE SN OR BX	1236400000	C.108
BCZ 3.81/15/270 SN BK BX	1940450000	C.111
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BCZ 3.81/15/270F SN BK BX	1940720000	C.111
BCZ 3.81/15/270F SN OR BX	1940590000	C.111
BCZ 3.81/15/90 SN BK BX	1899500000	C.110
BCZ 3.81/15/90 SN OR BX	1939960000	C.110
BCZ 3.81/15/90F SN BK BX	1899620000	C.111
BCZ 3.81/15/90F SN OR BX	1940110000	C.111
BCZ 3.81/16/180 SN BK BX	1792850000	C.106
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BCZ 3.81/16/180F SN BK BX	1793030000	C.107
BCZ 3.81/16/180F SN OR BX	1941150000	C.107
BCZ 3.81/16/180FZE SN BK BX	1072250000	C.109
BCZ 3.81/16/180FZE SN OR BX	1236690000	C.109
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BCZ 3.81/16/90F SN BK BX	1798840000	C.111
BCZ 3.81/16/90F SN OR BX	1940120000	C.111
BCZ 3.81/17/180 SN BK BX	1940970000	C.106
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BCZ 3.81/17/180F SN BK BX	1941360000	C.107
BCZ 3.81/17/180F SN OR BX	1941160000	C.107
BCZ 3.81/17/180FZE SN BK BX	1072260000	C.109
BCZ 3.81/17/180FZE SN OR BX	1236700000	C.109
BCZ 3.81/17/180LR SN BK BX	1941930000	C.107
BCZ 3.81/17/180LR SN OR BX	1941550000	C.107
BCZ 3.81/17/180LRZE SN BK BX	1072470000	C.109
BCZ 3.81/17/180LRZE SN OR BX	1236920000	C.109
BCZ 3.81/17/180ZE SN BK BX	1072080000	C.108
BCZ 3.81/17/180ZE SN OR BX	1236420000	C.108
BCZ 3.81/18/180 SN BK BX	1940980000	C.106
BCZ 3.81/18/180 SN OR BX	1940900000	C.106
BCZ 3.81/18/180F SN BK BX	1941370000	C.107
BCZ 3.81/18/180F SN OR BX	1941170000	C.107
BCZ 3.81/18/180FZE SN BK BX	1072270000	C.109
BCZ 3.81/18/180FZE SN OR BX	1236720000	C.109
BCZ 3.81/18/180LR SN BK BX	1941940000	C.107
BCZ 3.81/18/180LR SN OR BX	1941560000	C.107
BCZ 3.81/18/180LRZE SN BK BX	1072480000	C.109
BCZ 3.81/18/180LRZE SN OR BX	1236930000	C.109
BCZ 3.81/18/180ZE SN BK BX	1072090000	C.108
BCZ 3.81/18/180ZE SN OR BX	1236430000	C.108
BCZ 3.81/19/180 SN BK BX	1940990000	C.106
BCZ 3.81/19/180 SN OR BX	1940910000	C.106
BCZ 3.81/19/180F SN BK BX	1941380000	C.107
BCZ 3.81/19/180F SN OR BX	1941180000	C.107
BCZ 3.81/19/180FZE SN BK BX	1072280000	C.109
BCZ 3.81/19/180FZE SN OR BX	1236730000	C.109
BCZ 3.81/19/180LR SN BK BX	1941950000	C.107
BCZ 3.81/19/180LR SN OR BX	1941570000	C.107
BCZ 3.81/19/180LRZE SN BK BX	1072490000	C.109
BCZ 3.81/19/180LRZE SN OR BX	1236940000	C.109
BCZ 3.81/19/180ZE SN BK BX	1072110000	C.108
BCZ 3.81/19/180ZE SN OR BX	1236440000	C.108
BCZ 3.81/20/180 SN BK BX	1941000000	C.106
BCZ 3.81/20/180 SN OR BX	1940920000	C.106
BCZ 3.81/20/180F SN BK BX	1941390000	C.107
BCZ 3.81/20/180F SN OR BX	1941190000	C.107
BCZ 3.81/20/180FZE SN BK BX	1072290000	C.109
BCZ 3.81/20/180FZE SN OR BX	1236740000	C.109
BCZ 3.81/20/180LR SN BK BX	1941960000	C.107
BCZ 3.81/20/180LR SN OR BX	1941580000	C.107
BCZ 3.81/20/180LRZE SN BK BX	1072510000	C.109
BCZ 3.81/20/180LRZE SN OR BX	1236970000	C.109
BCZ 3.81/20/180ZE SN BK BX	1072120000	C.108
BCZ 3.81/20/180ZE SN OR BX	1236470000	C.108
BHZ 5.00/02/90LH BK/BK	1069330000	I.19
BHZ 5.00/02/90LH BK/BL	1069360000	I.19
BHZ 5.00/02/90LH BK/OR	1063260000	I.19
BHZ 5.00/03/90LH BK/BK	1069340000	I.21
BHZ 5.00/03/90LH BK/BL	1069370000	I.21
BHZ 5.00/03/90LH BK/OR	1063270000	I.21
BHZ 5.00/04/90LH BK/BK	1069350000	I.23
BHZ 5.00/04/90LH BK/BL	1069380000	I.23
BHZ 5.00/04/90LH BK/OR	1063280000	I.23
BL 3.5 AH 10 SW	1745650000	D.4
BL 3.5 AH 11 SW	1745660000	D.4
BL 3.5 AH 12 SW	1745670000	D.4
BL 3.5 AH 13 SW	1745680000	D.4
BL 3.5 AH 14 SW	1745690000	D.4
BL 3.5 AH 15 SW	1745700000	D.4
BL 3.5 AH 16 SW	1745710000	D.4
BL 3.5 AH 3 SW	1745580000	D.4
BL 3.5 AH 4 SW	1745590000	D.4
BL 3.5 AH 5 SW	1745600000	D.4
BL 3.5 AH 6 SW	1745610000	D.4
BL 3.5 AH 7 SW	1745620000	D.4
BL 3.5 AH 8 SW	1745630000	D.4
BL 3.5 AH 9 SW	1745640000	D.4
BL 3.5 ZE 3 OR	1629680000	D.2
BL 3.5 ZE 3 SW	1627820000	D.2
BL 3.5 ZE 8 OR	1629690000	D.2
BL 3.5 ZE 8 SW	1627830000	D.2
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BL 3.50/02/180 SN OR BX	1597360000	C.44
BL 3.50/02/180F SN BK BX	1615780000	C.45
BL 3.50/02/180F SN OR BX	1606640000	C.45
BL 3.50/02/180LH SN BK BX	1687880000	C.45
BL 3.50/02/180LH SN OR BX	1687650000	C.45
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BL 3.50/02/270F SN BK BX	1640160000	C.47
BL 3.50/02/270F SN OR BX	1639930000	C.47
BL 3.50/02/90 SN BK BX	1638780000	C.46
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BL 3.50/02/90F SN BK BX	1639240000	C.47
BL 3.50/02/90F SN OR BX	1639010000	C.47
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BL 3.50/03/180 SN OR BX	1597370000	C.44
BL 3.50/03/180F SN BK BX	1615790000	C.45
BL 3.50/03/180F SN OR BX	1606650000	C.45
BL 3.50/03/180LH SN BK BX	1687890000	C.45
BL 3.50/03/180LH SN OR BX	1687660000	C.45
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BL 3.50/03/270F SN OR BX	1639940000	C.47
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BL 3.50/03/90F SN BK BX	1639250000	C.47
BL 3.50/03/90F SN OR BX	1639020000	C.47
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BL 3.50/04/270F SN BK BX	1640180000	C.47
BL 3.50/04/270F SN OR BX	1639950000	C.47
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BL 3.50/05/180F SN OR BX	1606670000	C.45
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BL 3.50/08/270F SN BK BX	1640220000	C.47

Type	Order No.	Page
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BL 3.50/21/270 SN OR BX	1639660000	C.47
BL 3.50/21/270F SN BK BX	1640350000	C.47
BL 3.50/21/270F SN OR BX	1640120000	C.47
BL 3.50/21/90 SN BK BX	1638970000	C.46
BL 3.50/21/90 SN OR BX	1638740000	C.46
BL 3.50/21/90F SN BK BX	1639430000	C.47
BL 3.50/21/90F SN OR BX	1639200000	C.47
BL 3.50/22/180 SN BK BX	1620420000	C.44
BL 3.50/22/180 SN OR BX	1620340000	C.44
BL 3.50/22/180F SN BK BX	1620890000	C.45
BL 3.50/22/180F SN OR BX	1620810000	C.45
BL 3.50/22/180LH SN BK BX	1688080000	C.45
BL 3.50/22/180LH SN OR BX	1687850000	C.45
BL 3.50/22/270 SN BK BX	1639900000	C.47
BL 3.50/22/270 SN OR BX	1639670000	C.47
BL 3.50/22/270F SN BK BX	1640360000	C.47
BL 3.50/22/270F SN OR BX	1640130000	C.47
BL 3.50/22/90 SN BK BX	1638980000	C.46
BL 3.50/22/90 SN OR BX	1638750000	C.46
BL 3.50/22/90F SN BK BX	1639440000	C.47
BL 3.50/22/90F SN OR BX	1639210000	C.47
BL 3.50/23/180 SN BK BX	1620430000	C.44
BL 3.50/23/180 SN OR BX	1620350000	C.44
BL 3.50/23/180F SN BK BX	1620900000	C.45
BL 3.50/23/180F SN OR BX	1620820000	C.45
BL 3.50/23/180LH SN BK BX	1688090000	C.45
BL 3.50/23/180LH SN OR BX	1687860000	C.45
BL 3.50/23/270 SN BK BX	1639910000	C.47
BL 3.50/23/270 SN OR BX	1639680000	C.47
BL 3.50/23/270F SN BK BX	1640370000	C.47
BL 3.50/23/270F SN OR BX	1640140000	C.47
BL 3.50/23/90 SN BK BX	1638990000	C.46
BL 3.50/23/90 SN OR BX	1638760000	C.46
BL 3.50/23/90F SN BK BX	1639450000	C.47
BL 3.50/23/90F SN OR BX	1639220000	C.47
BL 3.50/24/180 SN BK BX	1620440000	C.44
BL 3.50/24/180 SN OR BX	1620360000	C.44
BL 3.50/24/180F SN BK BX	1620910000	C.45
BL 3.50/24/180F SN OR BX	1620830000	C.45
BL 3.50/24/180LH SN BK BX	1688100000	C.45
BL 3.50/24/180LH SN OR BX	1687870000	C.45
BL 3.50/24/270 SN BK BX	1639920000	C.47
BL 3.50/24/270 SN OR BX	1639690000	C.47
BL 3.50/24/270F SN BK BX	1640380000	C.47
BL 3.50/24/270F SN OR BX	1640150000	C.47
BL 3.50/24/90 SN BK BX	1639000000	C.46
BL 3.50/24/90 SN OR BX	1638770000	C.46
BL 3.50/24/90F SN BK BX	1639460000	C.47
BL 3.50/24/90F SN OR BX	1639230000	C.47
BL SL 3.5 KO OR	1693430000	D.10
BL SL 3.5 KO SW	1610100000	D.10
BL-I/O 3.50/10F NPN LED SN BK BX	1938010000	C.56
BL-I/O 3.50/10F NPN LED SN LTGY BX	1965950000	C.56
BL-I/O 3.50/10F PNP LED SN BK BX	1789090000	C.54
BL-I/O 3.50/10F PNP LED SN LTGY BX	1965940000	C.54
BL-I/O 3.50/10F SN BK BX	1779880000	C.52
BL-I/O 3.50/10F SN LTGY BX	1871690000	C.52
BL-I/O 3.50/10LR NPN LED SN BK BX	1000580000	C.57
BL-I/O 3.50/10LR PNP LED SN BK BX	1000560000	C.55
BL-I/O 3.50/10LR SN BK BX	1000540000	C.53
BL-I/O 3.50/30F NPN LED SN BK BX	1938020000	C.57
BL-I/O 3.50/30F NPN LED SN LTGY BX	1965980000	C.57
BL-I/O 3.50/30F PNP LED SN BK BX	1789110000	C.55
BL-I/O 3.50/30F PNP LED SN LTGY BX	1965970000	C.55
BL-I/O 3.50/30F SN BK BX	1779920000	C.53
BL-I/O 3.50/30F SN LTGY BX	1965910000	C.53
BL-I/O 3.50/30LR NPN LED SN BK BX	1000590000	C.57
BL-I/O 3.50/30LR PNP LED SN BK BX	1000570000	C.55
BL-I/O 3.50/30LR SN BK BX	1000550000	C.53
BL/SL 3.5 VR OR	1669310000	D.5
BL/SL 3.5 VR SW	1669300000	D.5
BLAT ZE4 OR	1577980000	D.2
BLAT ZE8 OR	1578010000	D.2
BLC 5.08/02/180BR BK BX	1712110000	C.249
BLC 5.08/02/180BR OR BX	1649370000	C.249
BLC 5.08/02/180R BK BX	1711960000	C.248
BLC 5.08/02/180R OR BX	1610490000	C.248
BLC 5.08/03/180BR BK BX	1712120000	C.249
BLC 5.08/03/180BR OR BX	1649380000	C.249
BLC 5.08/03/180R BK BX	1711970000	C.248
BLC 5.08/03/180R OR BX	1610500000	C.248
BLC 5.08/04/180BR BK BX	1712130000	C.249
BLC 5.08/04/180BR OR BX	1649390000	C.249
BLC 5.08/04/180R BK BX	1711980000	C.248
BLC 5.08/04/180R OR BX	1610510000	C.248
BLC 5.08/05/180BR BK BX	1712140000	C.249
BLC 5.08/05/180BR OR BX	1649400000	C.249
BLC 5.08/05/180R BK BX	1711990000	C.248
BLC 5.08/05/180R OR BX	1610520000	C.248
BLC 5.08/06/180BR BK BX	1712150000	C.249
BLC 5.08/06/180BR OR BX	1649410000	C.249
BLC 5.08/06/180R BK BX	1712000000	C.248
BLC 5.08/06/180R OR BX	1610530000	C.248
BLC 5.08/07/180BR BK BX	1712160000	C.249
BLC 5.08/07/180BR OR BX	1649420000	C.249
BLC 5.08/07/180R BK BX	1712010000	C.248
BLC 5.08/07/180R OR BX	1610540000	C.248
BLC 5.08/08/180BR BK BX	1712170000	C.249
BLC 5.08/08/180BR OR BX	1649430000	C.249
BLC 5.08/08/180R BK BX	1712020000	C.248
BLC 5.08/08/180R OR BX	1610550000	C.248
BLC 5.08/09/180BR BK BX	1712180000	C.249
BLC 5.08/09/180BR OR BX	1649440000	C.249
BLC 5.08/09/180R BK BX	1712030000	C.248
BLC 5.08/09/180R OR BX	1610560000	C.248
BLC 5.08/10/180BR BK BX	1712190000	C.249
BLC 5.08/10/180BR OR BX	1649450000	C.249
BLC 5.08/10/180R BK BX	1712040000	C.248
BLC 5.08/10/180R OR BX	1610570000	C.248

Type	Order No.	Page
BLC 5.08/11/180BR BK BX	1712200000	C.249
BLC 5.08/11/180BR OR BX	1649460000	C.249
BLC 5.08/11/180R BK BX	1712050000	C.248
BLC 5.08/11/180R OR BX	1610580000	C.248
BLC 5.08/12/180BR BK BX	1712210000	C.249
BLC 5.08/12/180BR OR BX	1649470000	C.249
BLC 5.08/12/180R BK BX	1712060000	C.248
BLC 5.08/12/180R OR BX	1610590000	C.248
BLC 5.08/13/180BR BK BX	1712220000	C.249
BLC 5.08/13/180BR OR BX	1649480000	C.249
BLC 5.08/13/180R BK BX	1712070000	C.248
BLC 5.08/13/180R OR BX	1610600000	C.248
BLC 5.08/14/180BR BK BX	1712230000	C.249
BLC 5.08/14/180BR OR BX	1649490000	C.249
BLC 5.08/14/180R BK BX	1712080000	C.248
BLC 5.08/14/180R OR BX	1610610000	C.248
BLC 5.08/15/180BR BK BX	1712240000	C.249
BLC 5.08/15/180BR OR BX	1649500000	C.249
BLC 5.08/15/180R BK BX	1712090000	C.248
BLC 5.08/15/180R OR BX	1610620000	C.248
BLC 5.08/16/180BR BK BX	1712250000	C.249
BLC 5.08/16/180BR OR BX	1649510000	C.249
BLC 5.08/16/180R BK BX	1712100000	C.248
BLC 5.08/16/180R OR BX	1610630000	C.248
BLDF 5.08/02/180 SN BK BX	1000860000	C.246
BLDF 5.08/02/180 SN OR BX	1001150000	C.246
BLDF 5.08/02/180F SN BK BX	1000930000	C.247
BLDF 5.08/02/180F SN OR BX	1001220000	C.247
BLDF 5.08/02/180LR SN BK BX	1001010000	C.247
BLDF 5.08/02/180LR SN OR BX	1065130000	C.247
BLDF 5.08/03/180 SN BK BX	1000870000	C.246
BLDF 5.08/03/180 SN OR BX	1001160000	C.246
BLDF 5.08/03/180F SN BK BX	1000950000	C.247
BLDF 5.08/03/180F SN OR BX	1012060000	C.247
BLDF 5.08/03/180LR SN BK BX	1001020000	C.247
BLDF 5.08/03/180LR SN OR BX	1065140000	C.247
BLDF 5.08/04/180 SN BK BX	1000880000	C.246
BLDF 5.08/04/180 SN OR BX	1001170000	C.246
BLDF 5.08/04/180F SN BK BX	1000960000	C.247
BLDF 5.08/04/180F SN OR BX	1059420000	C.247
BLDF 5.08/04/180LR SN BK BX	1001030000	C.247
BLDF 5.08/04/180LR SN OR BX	1065150000	C.247
BLDF 5.08/05/180 SN BK BX	1000890000	C.246
BLDF 5.08/05/180 SN OR BX	1001180000	C.246
BLDF 5.08/05/180F SN BK BX	1000970000	C.247
BLDF 5.08/05/180F SN OR BX	1065080000	C.247
BLDF 5.08/05/180LR SN BK BX	1001040000	C.247
BLDF 5.08/05/180LR SN OR BX	1065160000	C.247
BLDF 5.08/06/180 SN BK BX	1000900000	C.246
BLDF 5.08/06/180 SN OR BX	1001190000	C.246
BLDF 5.08/06/180F SN BK BX	1000980000	C.247
BLDF 5.08/06/180F SN OR BX	1065090000	C.247
BLDF 5.08/06/180LR SN BK BX	1001050000	C.247
BLDF 5.08/06/180LR SN OR BX	1065170000	C.247
BLDF 5.08/07/180 SN BK BX	1000910000	C.246
BLDF 5.08/07/180 SN OR BX	1001200000	C.246
BLDF 5.08/07/180F SN BK BX	1000990000	C.247
BLDF 5.08/07/180F SN OR BX	1065110000	C.247
BLDF 5.08/07/180LR SN BK BX	1001060000	C.247
BLDF 5.08/07/180LR SN OR BX	1065180000	C.247
BLDF 5.08/08/180 SN BK BX	1000920000	C.246
BLDF 5.08/08/180 SN OR BX	1001210000	C.246
BLDF 5.08/08/180F SN BK BX	1001000000	C.247
BLDF 5.08/08/180F SN OR BX	1065120000	C.247
BLDF 5.08/08/180LR SN BK BX	1001070000	C.247
BLDF 5.08/08/180LR SN OR BX	1065190000	C.247
BLDT 5.08/02/- SN BK BX	1660710000	C.234
BLDT 5.08/02/- SN OR BX	1644730000	C.234
BLDT 5.08/02/-B SN BK BX	1673780000	C.235
BLDT 5.08/02/-B SN OR BX	1651740000	C.235
BLDT 5.08/03/- SN BK BX	1660720000	C.234
BLDT 5.08/03/- SN OR BX	1644740000	C.234
BLDT 5.08/03/-B SN BK BX	1673790000	C.235
BLDT 5.08/03/-B SN OR BX	1651750000	C.235
BLDT 5.08/04/- SN BK BX	1660730000	C.234
BLDT 5.08/04/- SN OR BX	1644750000	C.234
BLDT 5.08/04/-B SN BK BX	1673800000	C.235
BLDT 5.08/04/-B SN OR BX	1651760000	C.235
BLDT 5.08/05/- SN BK BX	1660740000	C.234
BLDT 5.08/05/- SN OR BX	1644760000	C.234
BLDT 5.08/05/-B SN BK BX	1673810000	C.235
BLDT 5.08/05/-B SN OR BX	1651770000	C.235
BLDT 5.08/06/- SN BK BX	1660750000	C.234
BLDT 5.08/06/- SN OR BX	1644770000	C.234
BLDT 5.08/06/-B SN BK BX	1673820000	C.235
BLDT 5.08/06/-B SN OR BX	1651780000	C.235
BLDT 5.08/07/- SN BK BX	1660760000	C.234
BLDT 5.08/07/- SN OR BX	1644780000	C.234
BLDT 5.08/07/-B SN BK BX	1673830000	C.235
BLDT 5.08/07/-B SN OR BX	1651790000	C.235
BLDT 5.08/08/- SN BK BX	1660770000	C.234
BLDT 5.08/08/- SN OR BX	1644790000	C.234
BLDT 5.08/08/-B SN BK BX	1673840000	C.235
BLDT 5.08/08/-B SN OR BX	1651800000	C.235
BLDT 5.08/09/- SN BK BX	1660780000	C.234
BLDT 5.08/09/- SN OR BX	1644800000	C.234
BLDT 5.08/09/-B SN BK BX	1673850000	C.235
BLDT 5.08/09/-B SN OR BX	1651810000	C.235
BLDT 5.08/10/- SN BK BX	1660790000	C.234

Type	Order No.	Page
BLDT 5.08/10/- SN OR BX	1644810000	C.234
BLDT 5.08/10/-B SN BK BX	1673860000	C.235
BLDT 5.08/10/-B SN OR BX	1651820000	C.235
BLDT 5.08/11/- SN BK BX	1660800000	C.234
BLDT 5.08/11/- SN OR BX	1644820000	C.234
BLDT 5.08/11/-B SN BK BX	1673870000	C.235
BLDT 5.08/11/-B SN OR BX	1651830000	C.235
BLDT 5.08/12/- SN BK BX	1660810000	C.234
BLDT 5.08/12/- SN OR BX	1644830000	C.234
BLDT 5.08/12/-B SN BK BX	1673880000	C.235
BLDT 5.08/12/-B SN OR BX	1651840000	C.235
BLDZ DN5.08/5/180F GR BED	1919990000	C.232
BLF 5.00HC/02/180 SN BK BX	1017670000	C.158
BLF 5.00HC/02/180 SN OR BX	1017860000	C.158
BLF 5.00HC/02/180F SN BK BX	1017240000	C.159
BLF 5.00HC/02/180F SN OR BX	1017420000	C.159
BLF 5.00HC/02/180LR SN BK BX	1016140000	C.159
BLF 5.00HC/02/180LR SN OR BX	1016340000	C.159
BLF 5.00HC/02/90 SN BK BX	1979270000	C.160
BLF 5.00HC/02/90 SN OR BX	1980170000	C.160
BLF 5.00HC/02/90F SN BK BX	1979460000	C.161
BLF 5.00HC/02/90F SN OR BX	1980640000	C.161
BLF 5.00HC/02/90LR SN BK BX	1979790000	C.161
BLF 5.00HC/02/90LR SN OR BX	1980870000	C.161
BLF 5.00HC/03/180 SN BK BX	1017680000	C.158
BLF 5.00HC/03/180 SN OR BX	1017870000	C.158
BLF 5.00HC/03/180F SN BK BX	1017250000	C.159
BLF 5.00HC/03/180F SN OR BX	1017430000	C.159
BLF 5.00HC/03/180LR SN BK BX	1016150000	C.159
BLF 5.00HC/03/180LR SN OR BX	1016350000	C.159
BLF 5.00HC/03/90 SN BK BX	1979280000	C.160
BLF 5.00HC/03/90 SN OR BX	1980180000	C.160
BLF 5.00HC/03/90F SN BK BX	1979470000	C.161
BLF 5.00HC/03/90F SN OR BX	1980650000	C.161
BLF 5.00HC/03/90LR SN BK BX	1979800000	C.161
BLF 5.00HC/03/90LR SN OR BX	1980880000	C.161
BLF 5.00HC/04/180 SN BK BX	1017690000	C.158
BLF 5.00HC/04/180 SN OR BX	1017880000	C.158
BLF 5.00HC/04/180F SN BK BX	1017260000	C.159
BLF 5.00HC/04/180F SN OR BX	1017440000	C.159
BLF 5.00HC/04/180LR SN BK BX	1016170000	C.159
BLF 5.00HC/04/180LR SN OR BX	1016360000	C.159
BLF 5.00HC/04/90 SN BK BX	1979290000	C.160
BLF 5.00HC/04/90 SN OR BX	1980190000	C.160
BLF 5.00HC/04/90F SN BK BX	1979480000	C.161
BLF 5.00HC/04/90F SN OR BX	1980660000	C.161
BLF 5.00HC/04/90LR SN BK BX	1979810000	C.161
BLF 5.00HC/04/90LR SN OR BX	1980890000	C.161
BLF 5.00HC/05/180 SN BK BX	1017710000	C.158
BLF 5.00HC/05/180 SN OR BX	1017890000	C.158
BLF 5.00HC/05/180F SN BK BX	1017270000	C.159
BLF 5.00HC/05/180F SN OR BX	1017450000	C.159
BLF 5.00HC/05/180LR SN BK BX	1016180000	C.159
BLF 5.00HC/05/180LR SN OR BX	1016370000	C.159
BLF 5.00HC/05/90 SN BK BX	1979300000	C.160
BLF 5.00HC/05/90 SN OR BX	1980200000	C.160
BLF 5.00HC/05/90F SN BK BX	1979490000	C.161
BLF 5.00HC/05/90F SN OR BX	1980670000	C.161
BLF 5.00HC/05/90LR SN BK BX	1979820000	C.161
BLF 5.00HC/05/90LR SN OR BX	1980900000	C.161
BLF 5.00HC/06/180 SN BK BX	1017720000	C.158
BLF 5.00HC/06/180 SN OR BX	1017910000	C.158
BLF 5.00HC/06/180F SN BK BX	1017280000	C.159
BLF 5.00HC/06/180F SN OR BX	1017470000	C.159
BLF 5.00HC/06/180LR SN BK BX	1016190000	C.159
BLF 5.00HC/06/180LR SN OR BX	1016380000	C.159
BLF 5.00HC/06/90 SN BK BX	1979310000	C.160
BLF 5.00HC/06/90 SN OR BX	1980210000	C.160
BLF 5.00HC/06/90F SN BK BX	1979500000	C.161
BLF 5.00HC/06/90F SN OR BX	1980680000	C.161
BLF 5.00HC/06/90LR SN BK BX	1979830000	C.161
BLF 5.00HC/06/90LR SN OR BX	1980910000	C.161
BLF 5.00HC/07/180 SN BK BX	1017730000	C.158
BLF 5.00HC/07/180 SN OR BX	1017920000	C.158
BLF 5.00HC/07/180F SN BK BX	1017290000	C.159
BLF 5.00HC/07/180F SN OR BX	1017480000	C.159
BLF 5.00HC/07/180LR SN BK BX	1016210000	C.159
BLF 5.00HC/07/180LR SN OR BX	1016390000	C.159
BLF 5.00HC/07/90 SN BK BX	1979320000	C.160
BLF 5.00HC/07/90 SN OR BX	1980220000	C.160
BLF 5.00HC/07/90F SN BK BX	1979510000	C.161
BLF 5.00HC/07/90F SN OR BX	1980690000	C.161
BLF 5.00HC/07/90LR SN BK BX	1979840000	C.161
BLF 5.00HC/07/90LR SN OR BX	1980920000	C.161
BLF 5.00HC/08/180 SN BK BX	1017740000	C.158
BLF 5.00HC/08/180 SN OR BX	1017930000	C.158
BLF 5.00HC/08/180F SN BK BX	1017310000	C.159
BLF 5.00HC/08/180F SN OR BX	1017490000	C.159
BLF 5.00HC/08/180LR SN BK BX	1016220000	C.159
BLF 5.00HC/08/180LR SN OR BX	1016410000	C.159
BLF 5.00HC/08/90 SN BK BX	1979330000	C.160
BLF 5.00HC/08/90 SN OR BX	1980230000	C.160
BLF 5.00HC/08/90F SN BK BX	1979520000	C.161
BLF 5.00HC/08/90F SN OR BX	1980700000	C.161
BLF 5.00HC/08/90LR SN BK BX	1979850000	C.161
BLF 5.00HC/08/90LR SN OR BX	1980930000	C.161
BLF 5.00HC/09/180 SN BK BX	1017750000	C.158
BLF 5.00HC/09/180 SN OR BX	1017950000	C.158
BLF 5.00HC/09/180F SN BK BX	1017320000	C.159

Type	Order No.	Page
BLF 5.00HC/09/180F SN OR BX	1017510000	C.159
BLF 5.00HC/09/180LR SN BK BX	1016230000	C.159
BLF 5.00HC/09/180LR SN OR BX	1016420000	C.159
BLF 5.00HC/09/90 SN BK BX	1979340000	C.160
BLF 5.00HC/09/90 SN OR BX	1980240000	C.160
BLF 5.00HC/09/90F SN BK BX	1979530000	C.161
BLF 5.00HC/09/90F SN OR BX	1980710000	C.161
BLF 5.00HC/09/90LR SN BK BX	1979860000	C.161
BLF 5.00HC/09/90LR SN OR BX	1980940000	C.161
BLF 5.00HC/10/180 SN BK BX	1017760000	C.158
BLF 5.00HC/10/180 SN OR BX	1017960000	C.158
BLF 5.00HC/10/180F SN BK BX	1017330000	C.159
BLF 5.00HC/10/180F SN OR BX	1017520000	C.159
BLF 5.00HC/10/180LR SN BK BX	1016240000	C.159
BLF 5.00HC/10/180LR SN OR BX	1016430000	C.159
BLF 5.00HC/10/90 SN BK BX	1979350000	C.160
BLF 5.00HC/10/90 SN OR BX	1980250000	C.160
BLF 5.00HC/10/90F SN BK BX	1979540000	C.161
BLF 5.00HC/10/90F SN OR BX	1980720000	C.161
BLF 5.00HC/10/90LR SN BK BX	1979870000	C.161
BLF 5.00HC/10/90LR SN OR BX	1980950000	C.161
BLF 5.00HC/11/180 SN BK BX	1017770000	C.158
BLF 5.00HC/11/180 SN OR BX	1017970000	C.158
BLF 5.00HC/11/180F SN BK BX	1017340000	C.159
BLF 5.00HC/11/180F SN OR BX	1017530000	C.159
BLF 5.00HC/11/180LR SN BK BX	1016250000	C.159
BLF 5.00HC/11/180LR SN OR BX	1016440000	C.159
BLF 5.00HC/11/90 SN BK BX	1979360000	C.160
BLF 5.00HC/11/90 SN OR BX	1980260000	C.160
BLF 5.00HC/11/90F SN BK BX	1979550000	C.161
BLF 5.00HC/11/90F SN OR BX	1980730000	C.161
BLF 5.00HC/11/90LR SN BK BX	1979880000	C.161
BLF 5.00HC/11/90LR SN OR BX	1980960000	C.161
BLF 5.00HC/12/180 SN BK BX	1017780000	C.158
BLF 5.00HC/12/180 SN OR BX	1017980000	C.158
BLF 5.00HC/12/180F SN BK BX	1017350000	C.159
BLF 5.00HC/12/180F SN OR BX	1017540000	C.159
BLF 5.00HC/12/180LR SN BK BX	1016260000	C.159
BLF 5.00HC/12/180LR SN OR BX	1016450000	C.159
BLF 5.00HC/12/90 SN BK BX	1979370000	C.160
BLF 5.00HC/12/90 SN OR BX	1980270000	C.160
BLF 5.00HC/12/90F SN BK BX	1979560000	C.161
BLF 5.00HC/12/90F SN OR BX	1980740000	C.161
BLF 5.00HC/12/90LR SN BK BX	1979890000	C.161
BLF 5.00HC/12/90LR SN OR BX	1980970000	C.161
BLF 5.00HC/13/180 SN BK BX	1017790000	C.158
BLF 5.00HC/13/180 SN OR BX	1017990000	C.158
BLF 5.00HC/13/180F SN BK BX	1017360000	C.159
BLF 5.00HC/13/180F SN OR BX	1017550000	C.159
BLF 5.00HC/13/180LR SN BK BX	1016270000	C.159
BLF 5.00HC/13/180LR SN OR BX	1016460000	C.159
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BLF 5.00HC/13/90 SN OR BX	1980280000	C.160
BLF 5.00HC/13/90F SN BK BX	1979570000	C.161
BLF 5.00HC/13/90F SN OR BX	1980750000	C.161
BLF 5.00HC/13/90LR SN BK BX	1979900000	C.161
BLF 5.00HC/13/90LR SN OR BX	1980980000	C.161
BLF 5.00HC/14/180 SN BK BX	1017810000	C.158
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BLF 5.00HC/14/180F SN BK BX	1017370000	C.159
BLF 5.00HC/14/180F SN OR BX	1017570000	C.159
BLF 5.00HC/14/180LR SN BK BX	1016280000	C.159
BLF 5.00HC/14/180LR SN OR BX	1016470000	C.159
BLF 5.00HC/14/90 SN BK BX	1979390000	C.160
BLF 5.00HC/14/90 SN OR BX	1980290000	C.160
BLF 5.00HC/14/90F SN BK BX	1979580000	C.161
BLF 5.00HC/14/90F SN OR BX	1980760000	C.161
BLF 5.00HC/14/90LR SN BK BX	1979910000	C.161
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BLF 5.00HC/15/180 SN BK BX	1017820000	C.158
BLF 5.00HC/15/180 SN OR BX	1018020000	C.158
BLF 5.00HC/15/180F SN BK BX	1017380000	C.159
BLF 5.00HC/15/180F SN OR BX	1017590000	C.159
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BLF 5.00HC/17/180 SN OR BX	1018040000	C.158
BLF 5.00HC/17/180F SN BK BX	1017400000	C.159
BLF 5.00HC/17/180F SN OR BX	1017610000	C.159
BLF 5.00HC/17/180LR SN BK BX	1016320000	C.159
BLF 5.00HC/17/180LR SN OR BX	1016510000	C.159

Type	Order No.	Page
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BLF 5.00HC/17/90F SN BK BX	1979610000	C.161
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BLF 5.00HC/18/180 SN OR BX	1018050000	C.158
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BLF 5.00HC/18/180F SN OR BX	1017620000	C.159
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BLF 5.08HC/02/180F SN BK BX	1012640000	C.237
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BLF 5.08HC/02/180LR SN BK BX	1014120000	C.237
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BLF 5.08HC/14/90LR SN OR BX	1002400000	C.239
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BLF 5.08HC/15/180 SN OR BX	1013830000	C.236
BLF 5.08HC/15/180F SN BK BX	1012960000	C.237
BLF 5.08HC/15/180F SN OR BX	1013230000	C.237
BLF 5.08HC/15/180LR SN BK BX	1014260000	C.237
BLF 5.08HC/15/180LR SN OR BX	1014520000	C.237
BLF 5.08HC/15/270 SN BK BX	1982060000	C.244
BLF 5.08HC/15/270 SN OR BX	1982830000	C.244
BLF 5.08HC/15/270F SN BK BX	1982250000	C.245
BLF 5.08HC/15/270F SN OR BX	1983020000	C.245
BLF 5.08HC/15/270LR SN BK BX	1982440000	C.245
BLF 5.08HC/15/270LR SN OR BX	1983210000	C.245
BLF 5.08HC/15/90 SN BK BX	1000160001	C.238
BLF 5.08HC/15/90 SN OR BX	1001660000	C.238
BLF 5.08HC/15/90F SN BK BX	1000350001	C.239
BLF 5.08HC/15/90F SN OR BX	1002220000	C.239
BLF 5.08HC/15/90LR SN BK BX	1000540001	C.239
BLF 5.08HC/15/90LR SN OR BX	1002410000	C.239
BLF 5.08HC/16/180 SN BK BX	1013580000	C.236
BLF 5.08HC/16/180 SN OR BX	1013840000	C.236
BLF 5.08HC/16/180F SN BK BX	1012970000	C.237
BLF 5.08HC/16/180F SN OR BX	1013240000	C.237
BLF 5.08HC/16/180LR SN BK BX	1014270000	C.237
BLF 5.08HC/16/180LR SN OR BX	1014530000	C.237
BLF 5.08HC/16/270 SN BK BX	1982070000	C.244
BLF 5.08HC/16/270 SN OR BX	1982840000	C.244
BLF 5.08HC/16/270F SN BK BX	1982260000	C.245
BLF 5.08HC/16/270F SN OR BX	1983030000	C.245
BLF 5.08HC/16/270LR SN BK BX	1982450000	C.245
BLF 5.08HC/16/270LR SN OR BX	1983220000	C.245
BLF 5.08HC/16/90 SN BK BX	1000170001	C.238
BLF 5.08HC/16/90 SN OR BX	1001670000	C.238
BLF 5.08HC/16/90F SN BK BX	1000360001	C.239

Type	Order No.	Page
BLF 5.08HC/16/90F SN OR BX	1002230000	C.239
BLF 5.08HC/16/90LR SN BK BX	1000550001	C.239
BLF 5.08HC/16/90LR SN OR BX	1002420000	C.239
BLF 5.08HC/17/180 SN BK BX	1013590000	C.236
BLF 5.08HC/17/180 SN OR BX	1013850000	C.236
BLF 5.08HC/17/180F SN BK BX	1012980000	C.237
BLF 5.08HC/17/180F SN OR BX	1013250000	C.237
BLF 5.08HC/17/180LR SN BK BX	1014280000	C.237
BLF 5.08HC/17/180LR SN OR BX	1014540000	C.237
BLF 5.08HC/17/270 SN BK BX	1982080000	C.244
BLF 5.08HC/17/270 SN OR BX	1982850000	C.244
BLF 5.08HC/17/270F SN BK BX	1982270000	C.245
BLF 5.08HC/17/270F SN OR BX	1983040000	C.245
BLF 5.08HC/17/270LR SN BK BX	1982460000	C.245
BLF 5.08HC/17/270LR SN OR BX	1983230000	C.245
BLF 5.08HC/17/90 SN BK BX	1000180001	C.238
BLF 5.08HC/17/90 SN OR BX	1001680000	C.238
BLF 5.08HC/17/90F SN BK BX	1000370001	C.239
BLF 5.08HC/17/90F SN OR BX	1002240000	C.239
BLF 5.08HC/17/90LR SN BK BX	1000560001	C.239
BLF 5.08HC/17/90LR SN OR BX	1002430000	C.239
BLF 5.08HC/18/180 SN BK BX	1013610000	C.236
BLF 5.08HC/18/180 SN OR BX	1013860000	C.236
BLF 5.08HC/18/180F SN BK BX	1012990000	C.237
BLF 5.08HC/18/180F SN OR BX	1013260000	C.237
BLF 5.08HC/18/180LR SN BK BX	1014290000	C.237
BLF 5.08HC/18/180LR SN OR BX	1014550000	C.237
BLF 5.08HC/18/270 SN BK BX	1982090000	C.244
BLF 5.08HC/18/270 SN OR BX	1982860000	C.244
BLF 5.08HC/18/270F SN BK BX	1982280000	C.245
BLF 5.08HC/18/270F SN OR BX	1983050000	C.245
BLF 5.08HC/18/270LR SN BK BX	1982470000	C.245
BLF 5.08HC/18/270LR SN OR BX	1983240000	C.245
BLF 5.08HC/18/90 SN BK BX	1000190001	C.238
BLF 5.08HC/18/90 SN OR BX	1001690000	C.238
BLF 5.08HC/18/90F SN BK BX	1000380001	C.239
BLF 5.08HC/18/90F SN OR BX	1002250000	C.239
BLF 5.08HC/18/90LR SN BK BX	1000570001	C.239
BLF 5.08HC/18/90LR SN OR BX	1002440000	C.239
BLF 5.08HC/19/180 SN BK BX	1013620000	C.236
BLF 5.08HC/19/180 SN OR BX	1013870000	C.236
BLF 5.08HC/19/180F SN BK BX	1013010000	C.237
BLF 5.08HC/19/180F SN OR BX	1013270000	C.237
BLF 5.08HC/19/180LR SN BK BX	1014310000	C.237
BLF 5.08HC/19/180LR SN OR BX	1014560000	C.237
BLF 5.08HC/19/270 SN BK BX	1982100000	C.244
BLF 5.08HC/19/270 SN OR BX	1982870000	C.244
BLF 5.08HC/19/270F SN BK BX	1982290000	C.245
BLF 5.08HC/19/270F SN OR BX	1983060000	C.245
BLF 5.08HC/19/270LR SN BK BX	1982480000	C.245
BLF 5.08HC/19/270LR SN OR BX	1983250000	C.245
BLF 5.08HC/19/90 SN BK BX	1000200001	C.238
BLF 5.08HC/19/90 SN OR BX	1001700000	C.238
BLF 5.08HC/19/90F SN BK BX	1000390001	C.239
BLF 5.08HC/19/90F SN OR BX	1002260000	C.239
BLF 5.08HC/19/90LR SN BK BX	1000580001	C.239
BLF 5.08HC/19/90LR SN OR BX	1002450000	C.239
BLF 5.08HC/20/180 SN BK BX	1013630000	C.236
BLF 5.08HC/20/180 SN OR BX	1013880000	C.236
BLF 5.08HC/20/180F SN BK BX	1013020000	C.237
BLF 5.08HC/20/180F SN OR BX	1013280000	C.237
BLF 5.08HC/20/180LR SN BK BX	1014320000	C.237
BLF 5.08HC/20/180LR SN OR BX	1014570000	C.237
BLF 5.08HC/20/270 SN BK BX	1982110000	C.244
BLF 5.08HC/20/270 SN OR BX	1982880000	C.244
BLF 5.08HC/20/270F SN BK BX	1982300000	C.245
BLF 5.08HC/20/270F SN OR BX	1983070000	C.245
BLF 5.08HC/20/270LR SN BK BX	1982490000	C.245
BLF 5.08HC/20/270LR SN OR BX	1983260000	C.245
BLF 5.08HC/20/90 SN BK BX	1000210001	C.238
BLF 5.08HC/20/90 SN OR BX	1001710000	C.238
BLF 5.08HC/20/90F SN BK BX	1000400001	C.239
BLF 5.08HC/20/90F SN OR BX	1002270000	C.239
BLF 5.08HC/20/90LR SN BK BX	1000590001	C.239
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BLF 5.08HC/21/180F SN BK BX	1013030000	C.237
BLF 5.08HC/21/180F SN OR BX	1013290000	C.237
BLF 5.08HC/21/180LR SN BK BX	1014330000	C.237
BLF 5.08HC/21/180LR SN OR BX	1014580000	C.237
BLF 5.08HC/22/180 SN BK BX	1013650000	C.236
BLF 5.08HC/22/180 SN OR BX	1013910000	C.236
BLF 5.08HC/22/180F SN BK BX	1013040000	C.237
BLF 5.08HC/22/180F SN OR BX	1013310000	C.237
BLF 5.08HC/22/180LR SN BK BX	1014340000	C.237
BLF 5.08HC/22/180LR SN OR BX	1014590000	C.237
BLF 5.08HC/23/180 SN BK BX	1013660000	C.236
BLF 5.08HC/23/180 SN OR BX	1013920000	C.236
BLF 5.08HC/23/180F SN BK BX	1013050000	C.237
BLF 5.08HC/23/180F SN OR BX	1013320000	C.237
BLF 5.08HC/23/180LR SN BK BX	1014350000	C.237
BLF 5.08HC/23/180LR SN OR BX	1014610000	C.237
BLF 5.08HC/24/180 SN BK BX	1013670000	C.236
BLF 5.08HC/24/180 SN OR BX	1013930000	C.236
BLF 5.08HC/24/180F SN BK BX	1013060000	C.237
BLF 5.08HC/24/180F SN OR BX	1013330000	C.237
BLF 5.08HC/24/180LR SN BK BX	1014360000	C.237
BLF 5.08HC/24/180LR SN OR BX	1014620000	C.237

Type	Order No.	Page
BLF 7.62HP/02/180 SN BK BX	1043830000	F.18
BLF 7.62HP/02/180F SN BK BX	1043910000	F.19
BLF 7.62HP/02/180LR SN BK BX	1043990000	F.19
BLF 7.62HP/03/180 SN BK BX	1043840000	F.18
BLF 7.62HP/03/180F SN BK BX	1043920000	F.19
BLF 7.62HP/03/180LR SN BK BX	1044000000	F.19
BLF 7.62HP/04/180 SN BK BX	1043850000	F.18
BLF 7.62HP/04/180F SN BK BX	1043930000	F.19
BLF 7.62HP/04/180LR SN BK BX	1044010000	F.19
BLF 7.62HP/05/180 SN BK BX	1043860000	F.18
BLF 7.62HP/05/180F SN BK BX	1043940000	F.19
BLF 7.62HP/05/180LR SN BK BX	1044020000	F.19
BLF 7.62HP/06/180 SN BK BX	1227340000	F.18
BLF 7.62HP/06/180F SN BK BX	1227490000	F.19
BLF 7.62HP/06/180LR SN BK BX	1227420000	F.19
BLF 7.62HP/07/180 SN BK BX	1227350000	F.18
BLF 7.62HP/07/180F SN BK BX	1227510000	F.19
BLF 7.62HP/07/180LR SN BK BX	1227430000	F.19
BLF 7.62HP/08/180 SN BK BX	1227360000	F.18
BLF 7.62HP/08/180F SN BK BX	1227520000	F.19
BLF 7.62HP/08/180LR SN BK BX	1227440000	F.19
BLF 7.62HP/09/180 SN BK BX	1227370000	F.18
BLF 7.62HP/09/180F SN BK BX	1227530000	F.19
BLF 7.62HP/09/180LR SN BK BX	1227450000	F.19
BLF 7.62HP/10/180 SN BK BX	1227380000	F.18
BLF 7.62HP/10/180F SN BK BX	1227540000	F.19
BLF 7.62HP/10/180LR SN BK BX	1227460000	F.19
BLF 7.62HP/11/180 SN BK BX	1227390000	F.18
BLF 7.62HP/12/180 SN BK BX	1227410000	F.18
BLIDCB 3.5 ASB	1770310000	D.19
BLIDCB 3.50/02/- SN BK BX	1770670000	C.50
BLIDCB 3.50/02/- SN OR BX	1751380000	C.50
BLIDCB 3.50/02/-F SN BK BX	1770740000	C.51
BLIDCB 3.50/02/-F SN OR BX	1751450000	C.51
BLIDCB 3.50/03/- SN BK BX	1770680000	C.50
BLIDCB 3.50/03/- SN OR BX	1751390000	C.50
BLIDCB 3.50/03/-F SN BK BX	1770750000	C.51
BLIDCB 3.50/03/-F SN OR BX	1751460000	C.51
BLIDCB 3.50/04/- SN BK BX	1770690000	C.50
BLIDCB 3.50/04/- SN OR BX	1751400000	C.50
BLIDCB 3.50/04/-F SN BK BX	1770760000	C.51
BLIDCB 3.50/04/-F SN OR BX	1751470000	C.51
BLIDCB 3.50/05/- SN BK BX	1770700000	C.50
BLIDCB 3.50/05/- SN OR BX	1751410000	C.50
BLIDCB 3.50/05/-F SN BK BX	1770770000	C.51
BLIDCB 3.50/05/-F SN OR BX	1751480000	C.51
BLIDCB 3.50/06/- SN BK BX	1770710000	C.50
BLIDCB 3.50/06/- SN OR BX	1751420000	C.50
BLIDCB 3.50/06/-F SN BK BX	1770780000	C.51
BLIDCB 3.50/06/-F SN OR BX	1751490000	C.51
BLIDCB 3.50/07/- SN BK BX	1770720000	C.50
BLIDCB 3.50/07/- SN OR BX	1751430000	C.50
BLIDCB 3.50/07/-F SN BK BX	1770790000	C.51
BLIDCB 3.50/07/-F SN OR BX	1751500000	C.51
BLIDCB 3.50/08/- SN BK BX	1770730000	C.50
BLIDCB 3.50/08/- SN OR BX	1751440000	C.50
BLIDCB 3.50/08/-F SN BK BX	1770800000	C.51
BLIDCB 3.50/08/-F SN OR BX	1751510000	C.51
BLL 5.08/02/180 3.2 SN OR BX	1630710000	C.252
BLL 5.08/02/180B 3.2SN OR BX	1682730000	C.253
BLL 5.08/02/90 3.2 SN OR BX	1622940000	C.250
BLL 5.08/02/90FI 3.2SN OR BX	1843750000	C.251
BLL 5.08/03/180 3.2 SN OR BX	1630720000	C.252
BLL 5.08/03/180B 3.2SN OR BX	1682740000	C.253
BLL 5.08/03/90 3.2 SN OR BX	1622950000	C.250
BLL 5.08/03/90FI 3.2SN OR BX	1843760000	C.251
BLL 5.08/04/180 3.2 SN OR BX	1630730000	C.252
BLL 5.08/04/180B 3.2SN OR BX	1682750000	C.253
BLL 5.08/04/90 3.2 SN OR BX	1622960000	C.250
BLL 5.08/04/90FI 3.2SN OR BX	1843770000	C.251
BLL 5.08/05/180 3.2 SN OR BX	1630740000	C.252
BLL 5.08/05/180B 3.2SN OR BX	1682760000	C.253
BLL 5.08/05/90 3.2 SN OR BX	1622970000	C.250
BLL 5.08/05/90FI 3.2SN OR BX	1843780000	C.251
BLL 5.08/06/180 3.2 SN OR BX	1630750000	C.252
BLL 5.08/06/180B 3.2SN OR BX	1682770000	C.253
BLL 5.08/06/90 3.2 SN OR BX	1622980000	C.250
BLL 5.08/06/90FI 3.2SN OR BX	1843790000	C.251
BLL 5.08/07/180 3.2 SN OR BX	1630760000	C.252
BLL 5.08/07/180B 3.2SN OR BX	1682780000	C.253
BLL 5.08/07/90 3.2 SN OR BX	1622990000	C.250
BLL 5.08/07/90FI 3.2SN OR BX	1843800000	C.251
BLL 5.08/08/180 3.2 SN OR BX	1630770000	C.252
BLL 5.08/08/180B 3.2SN OR BX	1682790000	C.253
BLL 5.08/08/90 3.2 SN OR BX	1623000000	C.250
BLL 5.08/08/90FI 3.2SN OR BX	1843810000	C.251
BLL 5.08/09/180 3.2 SN OR BX	1630780000	C.252
BLL 5.08/09/180B 3.2SN OR BX	1682800000	C.253
BLL 5.08/09/90 3.2 SN OR BX	1623010000	C.250
BLL 5.08/09/90FI 3.2SN OR BX	1843820000	C.251
BLL 5.08/10/180 3.2 SN OR BX	1630790000	C.252
BLL 5.08/10/180B 3.2SN OR BX	1682810000	C.253
BLL 5.08/10/90 3.2 SN OR BX	1623020000	C.250
BLL 5.08/10/90FI 3.2SN OR BX	1843830000	C.251
BLL 5.08/11/180 3.2 SN OR BX	1630800000	C.252
BLL 5.08/11/180B 3.2SN OR BX	1682820000	C.253
BLL 5.08/11/90 3.2 SN OR BX	1623030000	C.250
BLL 5.08/11/90FI 3.2SN OR BX	1843840000	C.251
BLL 5.08/12/180 3.2 SN OR BX	1630810000	C.252

Type	Order No.	Page
BLL 5.08/12/180B 3.2SN OR BX	1682830000	C.253
BLL 5.08/12/90 3.2 SN OR BX	1623040000	C.250
BLL 5.08/12/90FI 3.2SN OR BX	1843850000	C.251
BLL 5.08/13/180 3.2 SN OR BX	1648900000	C.252
BLL 5.08/13/180B 3.2SN OR BX	1682840000	C.253
BLL 5.08/13/90 3.2 SN OR BX	1648420000	C.250
BLL 5.08/13/90FI 3.2SN OR BX	1843860000	C.251
BLL 5.08/14/180 3.2 SN OR BX	1648910000	C.252
BLL 5.08/14/180B 3.2SN OR BX	1682850000	C.253
BLL 5.08/14/90 3.2 SN OR BX	1648430000	C.250
BLL 5.08/14/90FI 3.2SN OR BX	1843870000	C.251
BLL 5.08/15/180 3.2 SN OR BX	1648920000	C.252
BLL 5.08/15/180B 3.2SN OR BX	1682860000	C.253
BLL 5.08/15/90 3.2 SN OR BX	1648440000	C.250
BLL 5.08/15/90FI 3.2SN OR BX	1843880000	C.251
BLL 5.08/16/180 3.2 SN OR BX	1648930000	C.252
BLL 5.08/16/180B 3.2SN OR BX	1682870000	C.253
BLL 5.08/16/90 3.2 SN OR BX	1648450000	C.250
BLL 5.08/16/90FI 3.2SN OR BX	1843890000	C.251
BLL 5.08/17/180 3.2 SN OR BX	1648940000	C.252
BLL 5.08/17/180B 3.2SN OR BX	1682880000	C.253
BLL 5.08/17/90 3.2 SN OR BX	1648460000	C.250
BLL 5.08/17/90FI 3.2SN OR BX	1843900000	C.251
BLL 5.08/18/180 3.2 SN OR BX	1648950000	C.252
BLL 5.08/18/180B 3.2SN OR BX	1682890000	C.253
BLL 5.08/18/90 3.2 SN OR BX	1648470000	C.250
BLL 5.08/18/90FI 3.2SN OR BX	1843910000	C.251
BLL 5.08/19/180 3.2 SN OR BX	1648960000	C.252
BLL 5.08/19/180B 3.2SN OR BX	1682900000	C.253
BLL 5.08/19/90 3.2 SN OR BX	1648480000	C.250
BLL 5.08/19/90FI 3.2SN OR BX	1843920000	C.251
BLL 5.08/20/180 3.2 SN OR BX	1648970000	C.252
BLL 5.08/20/180B 3.2SN OR BX	1682910000	C.253
BLL 5.08/20/90 3.2 SN OR BX	1648490000	C.250
BLL 5.08/20/90FI 3.2SN OR BX	1843930000	C.251
BLL 5.08/21/180 3.2 SN OR BX	1648980000	C.252
BLL 5.08/21/180B 3.2SN OR BX	1682920000	C.253
BLL 5.08/21/90 3.2 SN OR BX	1648500000	C.250
BLL 5.08/21/90FI 3.2SN OR BX	1843940000	C.251
BLL 5.08/22/180 3.2 SN OR BX	1648990000	C.252
BLL 5.08/22/180B 3.2SN OR BX	1682930000	C.253
BLL 5.08/22/90 3.2 SN OR BX	1648510000	C.250
BLL 5.08/22/90FI 3.2SN OR BX	1843950000	C.251
BLL 5.08/23/180 3.2 SN OR BX	1649000000	C.252
BLL 5.08/23/180B 3.2SN OR BX	1682940000	C.253
BLL 5.08/23/90 3.2 SN OR BX	1648520000	C.250
BLL 5.08/23/90FI 3.2SN OR BX	1843960000	C.251
BLL 5.08/24/180 3.2 SN OR BX	1649010000	C.252
BLL 5.08/24/180B 3.2SN OR BX	1682950000	C.253
BLL 5.08/24/90 3.2 SN OR BX	1648530000	C.250
BLL 5.08/24/90FI 3.2SN OR BX	1843970000	C.251
BLL 7.62HP/02/180 3.2SN BK BX	1122070000	F.22
BLL 7.62HP/02/180F 3.2SN BK BX	1122110000	F.23
BLL 7.62HP/02/180LF SN BK BX	1134080000	F.23
BLL 7.62HP/02/90 3.2SN BK BX	1043230000	F.20
BLL 7.62HP/02/90F 3.2SN BK BX	1043270000	F.21
BLL 7.62HP/02/90LF SN BK BX	1095640000	F.21
BLL 7.62HP/03/180 3.2SN BK BX	1122080000	F.22
BLL 7.62HP/03/180F 3.2SN BK BX	1122120000	F.23
BLL 7.62HP/03/180LF SN BK BX	1134090000	F.23
BLL 7.62HP/03/90 3.2SN BK BX	1043240000	F.20
BLL 7.62HP/03/90F 3.2SN BK BX	1043280000	F.21
BLL 7.62HP/03/90LF SN BK BX	1095650000	F.21
BLL 7.62HP/04/180 3.2SN BK BX	1122090000	F.22
BLL 7.62HP/04/180F 3.2SN BK BX	1122130000	F.23
BLL 7.62HP/04/180LF SN BK BX	1134110000	F.23
BLL 7.62HP/04/90 3.2SN BK BX	1043250000	F.20
BLL 7.62HP/04/90F 3.2SN BK BX	1043290000	F.21
BLL 7.62HP/04/90LF SN BK BX	1095660000	F.21
BLL 7.62HP/05/180 3.2SN BK BX	1122100000	F.22
BLL 7.62HP/05/180F 3.2SN BK BX	1122140000	F.23
BLL 7.62HP/05/180LF SN BK BX	1134120000	F.23
BLL 7.62HP/05/90 3.2SN BK BX	1043260000	F.20
BLL 7.62HP/05/90F 3.2SN BK BX	1043300000	F.21
BLL 7.62HP/05/90LF SN BK BX	1095670000	F.21
BLT 5.08/02/180 SN BK BX	1499510000	C.226
BLT 5.08/02/180 SN OR BX	1499560000	C.226
BLT 5.08/02/180F SN BK BX	1844220000	C.227
BLT 5.08/02/180F SN OR BX	1843990000	C.227
BLT 5.08/02/180LR SN BK BX	1894130000	C.227
BLT 5.08/02/180LR SN OR BX	1890220000	C.227
BLT 5.08/03/180 SN BK BX	1499610000	C.226
BLT 5.08/03/180 SN OR BX	1499660000	C.226
BLT 5.08/03/180F SN BK BX	1844230000	C.227
BLT 5.08/03/180F SN OR BX	1844000000	C.227
BLT 5.08/03/180LR SN BK BX	1894140000	C.227
BLT 5.08/03/180LR SN OR BX	1890230000	C.227
BLT 5.08/04/180 SN BK BX	1499710000	C.226
BLT 5.08/04/180 SN OR BX	1499760000	C.226
BLT 5.08/04/180F SN BK BX	1844240000	C.227
BLT 5.08/04/180F SN OR BX	1844010000	C.227
BLT 5.08/04/180LR SN BK BX	1894150000	C.227
BLT 5.08/04/180LR SN OR BX	1890240000	C.227
BLT 5.08/05/180 SN BK BX	1499810000	C.226
BLT 5.08/05/180 SN OR BX	1499860000	C.226
BLT 5.08/05/180F SN BK BX	1844250000	C.227
BLT 5.08/05/180F SN OR BX	1844020000	C.227
BLT 5.08/05/180LR SN BK BX	1894160000	C.227
BLT 5.08/05/180LR SN OR BX	1890250000	C.227

Type	Order No.	Page
BLT 5.08/06/180 SN BK BX	1499910000	C.226
BLT 5.08/06/180 SN OR BX	1499960000	C.226
BLT 5.08/06/180F SN BK BX	1844260000	C.227
BLT 5.08/06/180F SN OR BX	1844030000	C.227
BLT 5.08/06/180LR SN BK BX	1894170000	C.227
BLT 5.08/06/180LR SN OR BX	1890260000	C.227
BLT 5.08/07/180 SN BK BX	1500010000	C.226
BLT 5.08/07/180 SN OR BX	1500060000	C.226
BLT 5.08/07/180F SN BK BX	1844270000	C.227
BLT 5.08/07/180F SN OR BX	1844040000	C.227
BLT 5.08/07/180LR SN BK BX	1894180000	C.227
BLT 5.08/07/180LR SN OR BX	1890270000	C.227
BLT 5.08/08/180 SN BK BX	1500110000	C.226
BLT 5.08/08/180 SN OR BX	1500160000	C.226
BLT 5.08/08/180F SN BK BX	1844280000	C.227
BLT 5.08/08/180F SN OR BX	1844050000	C.227
BLT 5.08/08/180LR SN BK BX	1894190000	C.227
BLT 5.08/08/180LR SN OR BX	1890280000	C.227
BLT 5.08/09/180 SN BK BX	1500210000	C.226
BLT 5.08/09/180 SN OR BX	1500260000	C.226
BLT 5.08/09/180F SN BK BX	1844290000	C.227
BLT 5.08/09/180F SN OR BX	1844060000	C.227
BLT 5.08/09/180LR SN BK BX	1894200000	C.227
BLT 5.08/09/180LR SN OR BX	1890290000	C.227
BLT 5.08/10/180 SN BK BX	1500310000	C.226
BLT 5.08/10/180 SN OR BX	1500360000	C.226
BLT 5.08/10/180F SN BK BX	1844300000	C.227
BLT 5.08/10/180F SN OR BX	1844070000	C.227
BLT 5.08/10/180LR SN BK BX	1894210000	C.227
BLT 5.08/10/180LR SN OR BX	1890300000	C.227
BLT 5.08/11/180 SN BK BX	1500410000	C.226
BLT 5.08/11/180 SN OR BX	1500460000	C.226
BLT 5.08/11/180F SN BK BX	1844310000	C.227
BLT 5.08/11/180F SN OR BX	1844080000	C.227
BLT 5.08/11/180LR SN BK BX	1894220000	C.227
BLT 5.08/11/180LR SN OR BX	1890310000	C.227
BLT 5.08/12/180 SN BK BX	1500510000	C.226
BLT 5.08/12/180 SN OR BX	1500560000	C.226
BLT 5.08/12/180F SN BK BX	1844320000	C.227
BLT 5.08/12/180F SN OR BX	1844090000	C.227
BLT 5.08/12/180LR SN BK BX	1894230000	C.227
BLT 5.08/12/180LR SN OR BX	1890320000	C.227
BLT 5.08/13/180 SN BK BX	1500610000	C.226
BLT 5.08/13/180 SN OR BX	1500660000	C.226
BLT 5.08/13/180F SN BK BX	1844330000	C.227
BLT 5.08/13/180F SN OR BX	1844100000	C.227
BLT 5.08/13/180LR SN BK BX	1894240000	C.227
BLT 5.08/13/180LR SN OR BX	1890330000	C.227
BLT 5.08/14/180 SN BK BX	1500710000	C.226
BLT 5.08/14/180 SN OR BX	1500760000	C.226
BLT 5.08/14/180F SN BK BX	1844340000	C.227
BLT 5.08/14/180F SN OR BX	1844110000	C.227
BLT 5.08/14/180LR SN BK BX	1894250000	C.227
BLT 5.08/14/180LR SN OR BX	1890340000	C.227
BLT 5.08/15/180 SN BK BX	1500810000	C.226
BLT 5.08/15/180 SN OR BX	1500860000	C.226
BLT 5.08/15/180F SN BK BX	1844350000	C.227
BLT 5.08/15/180F SN OR BX	1844120000	C.227
BLT 5.08/15/180LR SN BK BX	1894260000	C.227
BLT 5.08/15/180LR SN OR BX	1890350000	C.227
BLT 5.08/16/180 SN BK BX	1500910000	C.226
BLT 5.08/16/180 SN OR BX	1500960000	C.226
BLT 5.08/16/180F SN BK BX	1844360000	C.227
BLT 5.08/16/180F SN OR BX	1844130000	C.227
BLT 5.08/16/180LR SN BK BX	1894270000	C.227
BLT 5.08/16/180LR SN OR BX	1890360000	C.227
BLT 5.08/17/180 SN BK BX	1501010000	C.226
BLT 5.08/17/180 SN OR BX	1501060000	C.226
BLT 5.08/17/180F SN BK BX	1844370000	C.227
BLT 5.08/17/180F SN OR BX	1844140000	C.227
BLT 5.08/17/180LR SN BK BX	1894280000	C.227
BLT 5.08/17/180LR SN OR BX	1890370000	C.227
BLT 5.08/18/180 SN BK BX	1501110000	C.226
BLT 5.08/18/180 SN OR BX	1501160000	C.226
BLT 5.08/18/180F SN BK BX	1844380000	C.227
BLT 5.08/18/180F SN OR BX	1844150000	C.227
BLT 5.08/18/180LR SN BK BX	1894290000	C.227
BLT 5.08/18/180LR SN OR BX	1890380000	C.227
BLT 5.08/19/180 SN BK BX	1501210000	C.226
BLT 5.08/19/180 SN OR BX	1501260000	C.226
BLT 5.08/19/180F SN BK BX	1844390000	C.227
BLT 5.08/19/180F SN OR BX	1844160000	C.227
BLT 5.08/19/180LR SN BK BX	1894310000	C.227
BLT 5.08/19/180LR SN OR BX	1890390000	C.227
BLT 5.08/20/180 SN BK BX	1501310000	C.226
BLT 5.08/20/180 SN OR BX	1501360000	C.226
BLT 5.08/20/180F SN BK BX	1844400000	C.227
BLT 5.08/20/180F SN OR BX	1844170000	C.227
BLT 5.08/20/180LR SN BK BX	1894330000	C.227
BLT 5.08/20/180LR SN OR BX	1890400000	C.227
BLT 5.08/21/180 SN BK BX	1501410000	C.226
BLT 5.08/21/180 SN OR BX	1501460000	C.226
BLT 5.08/21/180F SN BK BX	1844410000	C.227
BLT 5.08/21/180F SN OR BX	1844180000	C.227
BLT 5.08/21/180LR SN BK BX	1894340000	C.227
BLT 5.08/21/180LR SN OR BX	1890410000	C.227
BLT 5.08/22/180 SN BK BX	1501510000	C.226
BLT 5.08/22/180 SN OR BX	1501560000	C.226
BLT 5.08/22/180F SN BK BX	1844420000	C.227
BLT 5.08/22/180F SN OR BX	1844190000	C.227
BLT 5.08/22/180LR SN BK BX	1894350000	C.227
BLT 5.08/22/180LR SN OR BX	1890420000	C.227
BLT 5.08/23/180 SN BK BX	1501610000	C.226
BLT 5.08/23/180 SN OR BX	1501660000	C.226
BLT 5.08/23/180F SN BK BX	1844430000	C.227
BLT 5.08/23/180F SN OR BX	1844200000	C.227
BLT 5.08/23/180LR SN BK BX	1894360000	C.227
BLT 5.08/23/180LR SN OR BX	1890430000	C.227
BLT 5.08/24/180 SN BK BX	1501710000	C.226
BLT 5.08/24/180 SN OR BX	1501760000	C.226
BLT 5.08/24/180F SN BK BX	1844440000	C.227
BLT 5.08/24/180F SN OR BX	1844210000	C.227
BLT 5.08/24/180LR SN BK BX	1894370000	C.227
BLT 5.08/24/180LR SN OR BX	1890440000	C.227
BLZ 5.00 ZE4 OR	1652100000	D.2
BLZ 5.00 ZE4 SW	1652120000	D.2
BLZ 5.00 ZE8 OR	1652040000	D.2
BLZ 5.00 ZE8 SW	1652060000	D.2
BLZ 5.08 ZE4 OR	1652110000	D.2
BLZ 5.08 ZE4 SW	1652130000	D.2
BLZ 5.08 ZE8 OR	1652050000	D.2
BLZ 5.08 ZE8 SW	1652070000	D.2
BLZ 5.08/04/180FQV2 SN BK BX PRT	1844500000	C.229
BLZ 5.08/04/180FQV2 SN OR BX PRT	1846870000	C.229
BLZ 5.08/04/180QV2 SN BK BX PRT	1839780000	C.228
BLZ 5.08/04/180QV2 SN OR BX PRT	1839770000	C.228
BLZ 7.62HP/02/180 SN BK BX	1059580000	F.16
BLZ 7.62HP/02/180LR SN BK BX	1093430000	F.17
BLZ 7.62HP/03/180 SN BK BX	1059590000	F.16
BLZ 7.62HP/03/180LR SN BK BX	1093440000	F.17
BLZ 7.62HP/04/180 SN BK BX	1059600000	F.16
BLZ 7.62HP/04/180LR SN BK BX	1093450000	F.17
BLZ 7.62HP/05/180 SN BK BX	1049010000	F.16
BLZ 7.62HP/05/180LR SN BK BX	1093460000	F.17
BLZ 7.62HP/06/180 SN BK BX	1049020000	F.16
BLZ 7.62HP/06/180LR SN BK BX	1164960000	F.17
BLZ 7.62HP/07/180 SN BK BX	1059610000	F.16
BLZ 7.62HP/07/180LR SN BK BX	1164970000	F.17
BLZ 7.62HP/08/180 SN BK BX	1049030000	F.16
BLZ 7.62HP/08/180LR SN BK BX	1164980000	F.17
BLZ 7.62HP/09/180 SN BK BX	1059620000	F.16
BLZ 7.62HP/09/180LR SN BK BX	1164990000	F.17
BLZ 7.62HP/10/180 SN BK BX	1059630000	F.16
BLZ 7.62HP/10/180LR SN BK BX	1165000000	F.17
BLZ 7.62HP/11/180 SN BK BX	1059640000	F.16
BLZ 7.62HP/11/180LR SN BK BX	1165010000	F.17
BLZ 7.62HP/12/180 SN BK BX	1059670000	F.16
BLZ 7.62HP/12/180LR SN BK BX	1165020000	F.17
BLZ 7.62IT/02/180MF2 SN BK BX	1173490000	F.98
BLZ 7.62IT/03/180MF2 SN BK BX	1173500000	F.98
BLZ 7.62IT/03/180MF3 SN BK BX	1173510000	F.99
BLZ 7.62IT/04/180MF2 SN BK BX	1173520000	F.98
BLZ 7.62IT/04/180MF4 SN BK BX	1173530000	F.99
BLZ DN 5.08/05/180 AU GY SO	1933560000	C.230
BLZ DN 5.08/05/180F AU GY PRT	1933550000	C.231
BLZ DN 5.08/05/180F AU GY SO	1933570000	C.231
BLZ/SL KO OR	1573010000	D.11
BLZ/SL KO SW	1545710000	D.11
BLZF 3.50/02/180 SN BK BX	1690420000	C.48
BLZF 3.50/02/180 SN OR BX	1690190000	C.48
BLZF 3.50/02/180F SN BK BX	1691110000	C.49
BLZF 3.50/02/180F SN OR BX	1690880000	C.49
BLZF 3.50/02/180LH SN BK BX	1691800000	C.49
BLZF 3.50/02/180LH SN OR BX	1691570000	C.49
BLZF 3.50/02/180LR SN OR BX	1379590000	C.49
BLZF 3.50/03/180 SN BK BX	1690430000	C.48
BLZF 3.50/03/180 SN OR BX	1690200000	C.48
BLZF 3.50/03/180F SN BK BX	1691120000	C.49
BLZF 3.50/03/180F SN OR BX	1690890000	C.49
BLZF 3.50/03/180LH SN BK BX	1691810000	C.49
BLZF 3.50/03/180LH SN OR BX	1691580000	C.49
BLZF 3.50/03/180LR SN OR BX	1134450000	C.49
BLZF 3.50/04/180 SN BK BX	1690440000	C.48
BLZF 3.50/04/180 SN OR BX	1690210000	C.48
BLZF 3.50/04/180F SN BK BX	1691130000	C.49
BLZF 3.50/04/180F SN OR BX	1690900000	C.49
BLZF 3.50/04/180LH SN BK BX	1691820000	C.49
BLZF 3.50/04/180LH SN OR BX	1691590000	C.49
BLZF 3.50/04/180LR SN OR BX	1134460000	C.49
BLZF 3.50/05/180 SN BK BX	1690450000	C.48
BLZF 3.50/05/180 SN OR BX	1690220000	C.48
BLZF 3.50/05/180F SN BK BX	1691140000	C.49
BLZF 3.50/05/180F SN OR BX	1690910000	C.49
BLZF 3.50/05/180LH SN BK BX	1691830000	C.49
BLZF 3.50/05/180LH SN OR BX	1691600000	C.49
BLZF 3.50/05/180LR SN OR BX	1134470000	C.49
BLZF 3.50/06/180 SN BK BX	1690460000	C.48
BLZF 3.50/06/180 SN OR BX	1690230000	C.48
BLZF 3.50/06/180F SN BK BX	1691150000	C.49
BLZF 3.50/06/180F SN OR BX	1690920000	C.49
BLZF 3.50/06/180LH SN BK BX	1691840000	C.49
BLZF 3.50/06/180LH SN OR BX	1691610000	C.49
BLZF 3.50/06/180LR SN OR BX	1134480000	C.49
BLZF 3.50/07/180 SN BK BX	1690470000	C.48
BLZF 3.50/07/180 SN OR BX	1690240000	C.48
BLZF 3.50/07/180F SN BK BX	1691160000	C.49
BLZF 3.50/07/180F SN OR BX	1690930000	C.49
BLZF 3.50/07/180LH SN BK BX	1691850000	C.49
BLZF 3.50/07/180LH SN OR BX	1691620000	C.49
BLZF 3.50/07/180LR SN OR BX	1134490000	C.49
BLZF 3.50/08/180 SN BK BX	1690480000	C.48
BLZF 3.50/08/180 SN OR BX	1690250000	C.48
BLZF 3.50/08/180F SN BK BX	1691170000	C.49
BLZF 3.50/08/180F SN OR BX	1690940000	C.49
BLZF 3.50/08/180LH SN BK BX	1691860000	C.49
BLZF 3.50/08/180LH SN OR BX	1691630000	C.49
BLZF 3.50/08/180LR SN OR BX	1134510000	C.49
BLZF 3.50/09/180 SN BK BX	1690490000	C.48
BLZF 3.50/09/180 SN OR BX	1690260000	C.48
BLZF 3.50/09/180F SN BK BX	1691180000	C.49
BLZF 3.50/09/180F SN OR BX	1690950000	C.49
BLZF 3.50/09/180LH SN BK BX	1691870000	C.49
BLZF 3.50/09/180LH SN OR BX	1691640000	C.49
BLZF 3.50/09/180LR SN OR BX	1134520000	C.49
BLZF 3.50/10/180 SN BK BX	1690500000	C.48
BLZF 3.50/10/180 SN OR BX	1690270000	C.48
BLZF 3.50/10/180F SN BK BX	1691190000	C.49
BLZF 3.50/10/180F SN OR BX	1690960000	C.49
BLZF 3.50/10/180LH SN BK BX	1691880000	C.49
BLZF 3.50/10/180LH SN OR BX	1691650000	C.49
BLZF 3.50/10/180LR SN OR BX	1134530000	C.49
BLZF 3.50/11/180 SN BK BX	1690510000	C.48
BLZF 3.50/11/180 SN OR BX	1690280000	C.48
BLZF 3.50/11/180F SN BK BX	1691200000	C.49
BLZF 3.50/11/180F SN OR BX	1690970000	C.49
BLZF 3.50/11/180LH SN BK BX	1691890000	C.49
BLZF 3.50/11/180LH SN OR BX	1691660000	C.49
BLZF 3.50/11/180LR SN OR BX	1134540000	C.49
BLZF 3.50/12/180 SN BK BX	1690520000	C.48
BLZF 3.50/12/180 SN OR BX	1690290000	C.48
BLZF 3.50/12/180F SN BK BX	1691210000	C.49
BLZF 3.50/12/180F SN OR BX	1690980000	C.49
BLZF 3.50/12/180LH SN BK BX	1691900000	C.49
BLZF 3.50/12/180LH SN OR BX	1691670000	C.49
BLZF 3.50/12/180LR SN OR BX	1134550000	C.49
BLZF 3.50/13/180 SN BK BX	1690530000	C.48
BLZF 3.50/13/180 SN OR BX	1690300000	C.48
BLZF 3.50/13/180F SN BK BX	1691220000	C.49
BLZF 3.50/13/180F SN OR BX	1690990000	C.49
BLZF 3.50/13/180LH SN BK BX	1691910000	C.49
BLZF 3.50/13/180LH SN OR BX	1691680000	C.49
BLZF 3.50/13/180LR SN OR BX	1134560000	C.49
BLZF 3.50/14/180 SN BK BX	1690540000	C.48
BLZF 3.50/14/180 SN OR BX	1690310000	C.48
BLZF 3.50/14/180F SN BK BX	1691230000	C.49
BLZF 3.50/14/180F SN OR BX	1691000000	C.49
BLZF 3.50/14/180LH SN BK BX	1691920000	C.49
BLZF 3.50/14/180LH SN OR BX	1691690000	C.49
BLZF 3.50/14/180LR SN OR BX	1134570000	C.49
BLZF 3.50/15/180 SN BK BX	1690550000	C.48
BLZF 3.50/15/180 SN OR BX	1690320000	C.48
BLZF 3.50/15/180F SN BK BX	1691240000	C.49
BLZF 3.50/15/180F SN OR BX	1691010000	C.49
BLZF 3.50/15/180LH SN BK BX	1691930000	C.49
BLZF 3.50/15/180LH SN OR BX	1691700000	C.49
BLZF 3.50/15/180LR SN OR BX	1134580000	C.49
BLZF 3.50/16/180 SN BK BX	1690560000	C.48
BLZF 3.50/16/180 SN OR BX	1690330000	C.48
BLZF 3.50/16/180F SN BK BX	1691250000	C.49
BLZF 3.50/16/180F SN OR BX	1691020000	C.49
BLZF 3.50/16/180LH SN BK BX	1691940000	C.49
BLZF 3.50/16/180LH SN OR BX	1691710000	C.49
BLZF 3.50/16/180LR SN OR BX	1134590000	C.49
BLZF 3.50/17/180 SN BK BX	1690570000	C.48
BLZF 3.50/17/180 SN OR BX	1690340000	C.48
BLZF 3.50/17/180F SN BK BX	1691260000	C.49
BLZF 3.50/17/180F SN OR BX	1691030000	C.49
BLZF 3.50/17/180LH SN BK BX	1691950000	C.49
BLZF 3.50/17/180LH SN OR BX	1691720000	C.49
BLZF 3.50/18/180 SN BK BX	1690580000	C.48
BLZF 3.50/18/180 SN OR BX	1690350000	C.48
BLZF 3.50/18/180F SN BK BX	1691270000	C.49
BLZF 3.50/18/180F SN OR BX	1691040000	C.49
BLZF 3.50/18/180LH SN BK BX	1691960000	C.49
BLZF 3.50/18/180LH SN OR BX	1691730000	C.49
BLZF 3.50/19/180 SN BK BX	1690590000	C.48
BLZF 3.50/19/180 SN OR BX	1690360000	C.48
BLZF 3.50/19/180F SN BK BX	1691280000	C.49
BLZF 3.50/19/180F SN OR BX	1691050000	C.49
BLZF 3.50/19/180LH SN BK BX	1691970000	C.49
BLZF 3.50/19/180LH SN OR BX	1691740000	C.49
BLZF 3.50/20/180 SN BK BX	1690600000	C.48
BLZF 3.50/20/180 SN OR BX	1690370000	C.48
BLZF 3.50/20/180F SN BK BX	1691290000	C.49
BLZF 3.50/20/180F SN OR BX	1691060000	C.49
BLZF 3.50/20/180LH SN BK BX	1691980000	C.49
BLZF 3.50/20/180LH SN OR BX	1691750000	C.49
BLZF 3.50/21/180 SN BK BX	1690610000	C.48
BLZF 3.50/21/180 SN OR BX	1690380000	C.48
BLZF 3.50/21/180F SN BK BX	1691300000	C.49
BLZF 3.50/21/180F SN OR BX	1691070000	C.49
BLZF 3.50/21/180LH SN BK BX	1691990000	C.49
BLZF 3.50/21/180LH SN OR BX	1691760000	C.49
BLZF 3.50/22/180 SN BK BX	1690620000	C.48
BLZF 3.50/22/180 SN OR BX	1690390000	C.48
BLZF 3.50/22/180F SN BK BX	1691310000	C.49
BLZF 3.50/22/180F SN OR BX	1691080000	C.49

Type	Order No.	Page
BLZF 3.50/22/180LH SN BK BX	1692000000	C.49
BLZF 3.50/22/180LH SN OR BX	1691770000	C.49
BLZF 3.50/23/180 SN BK BX	1690630000	C.48
BLZF 3.50/23/180 SN OR BX	1690400000	C.48
BLZF 3.50/23/180F SN BK BX	1691320000	C.49
BLZF 3.50/23/180F SN OR BX	1691090000	C.49
BLZF 3.50/23/180LH SN BK BX	1692010000	C.49
BLZF 3.50/23/180LH SN OR BX	1691780000	C.49
BLZF 3.50/24/180 SN BK BX	1690640000	C.48
BLZF 3.50/24/180 SN OR BX	1690410000	C.48
BLZF 3.50/24/180F SN BK BX	1691330000	C.49
BLZF 3.50/24/180F SN OR BX	1691100000	C.49
BLZF 3.50/24/180LH SN BK BX	1692020000	C.49
BLZF 3.50/24/180LH SN OR BX	1691790000	C.49
BLZP 5.00/02/180 SN BK BX	1955570000	C.152
BLZP 5.00/02/180 SN OR BX	1954490000	C.152
BLZP 5.00/02/180F SN BK BX	1956030000	C.153
BLZP 5.00/02/180F SN OR BX	1955800000	C.153
BLZP 5.00/02/180LR SN BK BX	1956600000	C.153
BLZP 5.00/02/180LR SN OR BX	1956370000	C.153
BLZP 5.00/02/270 SN BK BX	1959100000	C.156
BLZP 5.00/02/270 SN OR BX	1958870000	C.156
BLZP 5.00/02/270F SN BK BX	1960730000	C.157
BLZP 5.00/02/270F SN OR BX	1960460000	C.157
BLZP 5.00/02/270LR SN BK BX	1961190000	C.157
BLZP 5.00/02/270LR SN OR BX	1960960000	C.157
BLZP 5.00/02/90 SN BK BX	1958650000	C.154
BLZP 5.00/02/90 SN OR BX	1958300000	C.154
BLZP 5.00/02/90F SN BK BX	1959750000	C.155
BLZP 5.00/02/90F SN OR BX	1959520000	C.155
BLZP 5.00/03/180 SN BK BX	1955560000	C.152
BLZP 5.00/03/180 SN OR BX	1954480000	C.152
BLZP 5.00/03/180F SN BK BX	1956020000	C.153
BLZP 5.00/03/180F SN OR BX	1955790000	C.153
BLZP 5.00/03/180LR SN BK BX	1956590000	C.153
BLZP 5.00/03/180LR SN OR BX	1956360000	C.153
BLZP 5.00/03/270 SN BK BX	1959090000	C.156
BLZP 5.00/03/270 SN OR BX	1958860000	C.156
BLZP 5.00/03/270F SN BK BX	1960720000	C.157
BLZP 5.00/03/270F SN OR BX	1960450000	C.157
BLZP 5.00/03/270LR SN BK BX	1961180000	C.157
BLZP 5.00/03/270LR SN OR BX	1960950000	C.157
BLZP 5.00/03/90 SN BK BX	1958640000	C.154
BLZP 5.00/03/90 SN OR BX	1958290000	C.154
BLZP 5.00/03/90F SN BK BX	1959740000	C.155
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BLZP 5.00/04/180F SN OR BX	1955780000	C.153
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BLZP 5.00/04/180LR SN OR BX	1956350000	C.153
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BLZP 5.00/19/270F SN OR BX	1959260000	C.157
BLZP 5.00/19/270LR SN BK BX	1961020000	C.157

Type	Order No.	Page
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BLZP 5.00/24/180LR SN BK BX	1956380000	C.153
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BLZP 5.00/24/270 SN OR BX	1958660000	C.156
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BLZP 5.08/02/180 SN BK BX	1943810000	C.218
BLZP 5.08/02/180 SN OR BX	1943580000	C.218
BLZP 5.08/02/180F SN BK BX	1944330000	C.219
BLZP 5.08/02/180F SN OR BX	1944090000	C.219
BLZP 5.08/02/180LR SN BK BX	1945060000	C.219
BLZP 5.08/02/180LR SN OR BX	1944830000	C.219
BLZP 5.08/02/225 SN BK BX	1946560000	C.224
BLZP 5.08/02/225 SN OR BX	1946250000	C.224
BLZP 5.08/02/225B SN BK BX	1945980000	C.225
BLZP 5.08/02/225B SN OR BX	1945750000	C.225
BLZP 5.08/02/270 SN BK BX	1949020000	C.222
BLZP 5.08/02/270 SN OR BX	1948790000	C.222
BLZP 5.08/02/270F SN BK BX	1950550000	C.223
BLZP 5.08/02/270F SN OR BX	1950310000	C.223
BLZP 5.08/02/270LR SN BK BX	1947760000	C.223
BLZP 5.08/02/270LR SN OR BX	1947530000	C.223
BLZP 5.08/02/90 SN BK BX	1948240000	C.220
BLZP 5.08/02/90 SN OR BX	1948000000	C.220
BLZP 5.08/02/90F SN BK BX	1950040000	C.221
BLZP 5.08/02/90F SN OR BX	1949800000	C.221
BLZP 5.08/02/90LR SN BK BX	1087020000	C.221
BLZP 5.08/02/90LR SN OR BX	1087250000	C.221
BLZP 5.08/03/180 SN BK BX	1943820000	C.218
BLZP 5.08/03/180 SN OR BX	1943590000	C.218
BLZP 5.08/03/180F SN BK BX	1944340000	C.219
BLZP 5.08/03/180F SN OR BX	1944100000	C.219
BLZP 5.08/03/180LR SN BK BX	1945070000	C.219
BLZP 5.08/03/180LR SN OR BX	1944840000	C.219
BLZP 5.08/03/225 SN BK BX	1946570000	C.224
BLZP 5.08/03/225 SN OR BX	1946260000	C.224
BLZP 5.08/03/225B SN BK BX	1945990000	C.225
BLZP 5.08/03/225B SN OR BX	1945760000	C.225
BLZP 5.08/03/270 SN BK BX	1949030000	C.222
BLZP 5.08/03/270 SN OR BX	1948800000	C.222
BLZP 5.08/03/270F SN BK BX	1950560000	C.223
BLZP 5.08/03/270F SN OR BX	1950320000	C.223
BLZP 5.08/03/270LR SN BK BX	1947770000	C.223
BLZP 5.08/03/270LR SN OR BX	1947540000	C.223
BLZP 5.08/03/90 SN BK BX	1948250000	C.220
BLZP 5.08/03/90 SN OR BX	1948010000	C.220
BLZP 5.08/03/90F SN BK BX	1950050000	C.221
BLZP 5.08/03/90F SN OR BX	1949810000	C.221
BLZP 5.08/03/90LR SN BK BX	1087030000	C.221
BLZP 5.08/03/90LR SN OR BX	1087260000	C.221
BLZP 5.08/04/180 SN BK BX	1943830000	C.218
BLZP 5.08/04/180 SN OR BX	1943600000	C.218
BLZP 5.08/04/180F SN BK BX	1944350000	C.219
BLZP 5.08/04/180F SN OR BX	1944110000	C.219
BLZP 5.08/04/180LR SN BK BX	1945080000	C.219
BLZP 5.08/04/180LR SN OR BX	1944850000	C.219
BLZP 5.08/04/225 SN BK BX	1946580000	C.224
BLZP 5.08/04/225 SN OR BX	1946270000	C.224
BLZP 5.08/04/225B SN BK BX	1946000000	C.225
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BLZP 5.08/04/270 SN OR BX	1948810000	C.222
BLZP 5.08/04/270F SN BK BX	1950570000	C.223
BLZP 5.08/04/270F SN OR BX	1950330000	C.223
BLZP 5.08/04/270LR SN BK BX	1947780000	C.223
BLZP 5.08/04/270LR SN OR BX	1947550000	C.223
BLZP 5.08/04/90 SN BK BX	1948260000	C.220
BLZP 5.08/04/90 SN OR BX	1948020000	C.220
BLZP 5.08/04/90F SN BK BX	1950060000	C.221
BLZP 5.08/04/90F SN OR BX	1949820000	C.221
BLZP 5.08/04/90LR SN BK BX	1087040000	C.221
BLZP 5.08/04/90LR SN OR BX	1087270000	C.221
BLZP 5.08/05/180 SN BK BX	1943840000	C.218
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BLZP 5.08/05/180F SN BK BX	1944360000	C.219
BLZP 5.08/05/180F SN OR BX	1944120000	C.219
BLZP 5.08/05/180LR SN BK BX	1945090000	C.219
BLZP 5.08/05/180LR SN OR BX	1944860000	C.219
BLZP 5.08/05/225 SN BK BX	1946590000	C.224
BLZP 5.08/05/225 SN OR BX	1946280000	C.224
BLZP 5.08/05/225B SN BK BX	1946010000	C.225
BLZP 5.08/05/225B SN OR BX	1945780000	C.225
BLZP 5.08/05/270 SN BK BX	1949050000	C.222
BLZP 5.08/05/270 SN OR BX	1948820000	C.222
BLZP 5.08/05/270F SN BK BX	1950580000	C.223
BLZP 5.08/05/270F SN OR BX	1950340000	C.223
BLZP 5.08/05/270LR SN BK BX	1947790000	C.223
BLZP 5.08/05/270LR SN OR BX	1947560000	C.223
BLZP 5.08/05/90 SN BK BX	1948270000	C.220
BLZP 5.08/05/90 SN OR BX	1948030000	C.220
BLZP 5.08/05/90F SN BK BX	1950070000	C.221
BLZP 5.08/05/90F SN OR BX	1949830000	C.221
BLZP 5.08/05/90LR SN BK BX	1087050000	C.221
BLZP 5.08/05/90LR SN OR BX	1087280000	C.221
BLZP 5.08/06/180 SN BK BX	1943850000	C.218
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BLZP 5.08/06/180F SN BK BX	1944370000	C.219
BLZP 5.08/06/180F SN OR BX	1944130000	C.219
BLZP 5.08/06/180LR SN BK BX	1945100000	C.219
BLZP 5.08/06/180LR SN OR BX	1944870000	C.219
BLZP 5.08/06/225 SN BK BX	1946600000	C.224
BLZP 5.08/06/225 SN OR BX	1946290000	C.224
BLZP 5.08/06/225B SN BK BX	1946020000	C.225
BLZP 5.08/06/225B SN OR BX	1945790000	C.225
BLZP 5.08/06/270 SN BK BX	1949060000	C.222
BLZP 5.08/06/270 SN OR BX	1948830000	C.222
BLZP 5.08/06/270F SN BK BX	1950620000	C.223
BLZP 5.08/06/270F SN OR BX	1950350000	C.223
BLZP 5.08/06/270LR SN BK BX	1947800000	C.223
BLZP 5.08/06/270LR SN OR BX	1947570000	C.223
BLZP 5.08/06/90 SN BK BX	1948280000	C.220
BLZP 5.08/06/90 SN OR BX	1948040000	C.220
BLZP 5.08/06/90F SN BK BX	1950080000	C.221
BLZP 5.08/06/90F SN OR BX	1949840000	C.221
BLZP 5.08/06/90LR SN BK BX	1087060000	C.221
BLZP 5.08/06/90LR SN OR BX	1087290000	C.221
BLZP 5.08/07/180 SN BK BX	1943860000	C.218
BLZP 5.08/07/180 SN OR BX	1943630000	C.218
BLZP 5.08/07/180F SN BK BX	1944380000	C.219
BLZP 5.08/07/180F SN OR BX	1944140000	C.219
BLZP 5.08/07/180LR SN BK BX	1945110000	C.219
BLZP 5.08/07/180LR SN OR BX	1944880000	C.219
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BLZP 5.08/07/225B SN BK BX	1946030000	C.225
BLZP 5.08/07/225B SN OR BX	1945800000	C.225
BLZP 5.08/07/270 SN BK BX	1949070000	C.222
BLZP 5.08/07/270 SN OR BX	1948840000	C.222
BLZP 5.08/07/270F SN BK BX	1950630000	C.223
BLZP 5.08/07/270F SN OR BX	1950360000	C.223
BLZP 5.08/07/270LR SN BK BX	1947810000	C.223
BLZP 5.08/07/270LR SN OR BX	1947580000	C.223
BLZP 5.08/07/90 SN BK BX	1948290000	C.220
BLZP 5.08/07/90 SN OR BX	1948050000	C.220
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BLZP 5.08/07/90F SN OR BX	1949850000	C.221
BLZP 5.08/07/90LR SN BK BX	1087070000	C.221
BLZP 5.08/07/90LR SN OR BX	1087300000	C.221
BLZP 5.08/08/180 SN BK BX	1943870000	C.218
BLZP 5.08/08/180 SN OR BX	1943640000	C.218
BLZP 5.08/08/180F SN BK BX	1944390000	C.219
BLZP 5.08/08/180F SN OR BX	1944150000	C.219
BLZP 5.08/08/180LR SN BK BX	1945120000	C.219
BLZP 5.08/08/180LR SN OR BX	1944890000	C.219
BLZP 5.08/08/225 SN BK BX	1946620000	C.224
BLZP 5.08/08/225 SN OR BX	1946310000	C.224
BLZP 5.08/08/225B SN BK BX	1946040000	C.225
BLZP 5.08/08/225B SN OR BX	1945810000	C.225
BLZP 5.08/08/270 SN BK BX	1949080000	C.222
BLZP 5.08/08/270 SN OR BX	1948850000	C.222
BLZP 5.08/08/270F SN BK BX	1950640000	C.223
BLZP 5.08/08/270F SN OR BX	1950370000	C.223
BLZP 5.08/08/270LR SN BK BX	1947820000	C.223
BLZP 5.08/08/270LR SN OR BX	1947590000	C.223
BLZP 5.08/08/90 SN BK BX	1948300000	C.220
BLZP 5.08/08/90 SN OR BX	1948060000	C.220
BLZP 5.08/08/90F SN BK BX	1950100000	C.221
BLZP 5.08/08/90F SN OR BX	1949860000	C.221
BLZP 5.08/08/90LR SN BK BX	1087080000	C.221
BLZP 5.08/08/90LR SN OR BX	1087310000	C.221
BLZP 5.08/09/180 SN BK BX	1943880000	C.218
BLZP 5.08/09/180 SN OR BX	1943650000	C.218
BLZP 5.08/09/180F SN BK BX	1944400000	C.219
BLZP 5.08/09/180F SN OR BX	1944160000	C.219
BLZP 5.08/09/180LR SN BK BX	1945130000	C.219
BLZP 5.08/09/180LR SN OR BX	1944900000	C.219
BLZP 5.08/09/225 SN BK BX	1946630000	C.224
BLZP 5.08/09/225 SN OR BX	1946320000	C.224
BLZP 5.08/09/225B SN BK BX	1946050000	C.225
BLZP 5.08/09/225B SN OR BX	1945820000	C.225
BLZP 5.08/09/270 SN BK BX	1949090000	C.222
BLZP 5.08/09/270 SN OR BX	1948860000	C.222
BLZP 5.08/09/270F SN BK BX	1950650000	C.223
BLZP 5.08/09/270F SN OR BX	1950380000	C.223
BLZP 5.08/09/270LR SN BK BX	1947830000	C.223
BLZP 5.08/09/270LR SN OR BX	1947600000	C.223
BLZP 5.08/09/90 SN BK BX	1948310000	C.220
BLZP 5.08/09/90 SN OR BX	1948070000	C.220
BLZP 5.08/09/90F SN BK BX	1950110000	C.221
BLZP 5.08/09/90F SN OR BX	1949870000	C.221
BLZP 5.08/09/90LR SN BK BX	1087100000	C.221
BLZP 5.08/09/90LR SN OR BX	1087320000	C.221
BLZP 5.08/10/180 SN BK BX	1943890000	C.218
BLZP 5.08/10/180 SN OR BX	1943660000	C.218
BLZP 5.08/10/180F SN BK BX	1944410000	C.219
BLZP 5.08/10/180F SN OR BX	1944170000	C.219
BLZP 5.08/10/180LR SN BK BX	1945140000	C.219
BLZP 5.08/10/180LR SN OR BX	1944910000	C.219
BLZP 5.08/10/225 SN BK BX	1946640000	C.224
BLZP 5.08/10/225 SN OR BX	1946330000	C.224
BLZP 5.08/10/225B SN BK BX	1946060000	C.225
BLZP 5.08/10/225B SN OR BX	1945830000	C.225
BLZP 5.08/10/270 SN BK BX	1949100000	C.222
BLZP 5.08/10/270 SN OR BX	1948870000	C.222
BLZP 5.08/10/270F SN BK BX	1950660000	C.223
BLZP 5.08/10/270F SN OR BX	1950390000	C.223
BLZP 5.08/10/270LR SN BK BX	1947840000	C.223
BLZP 5.08/10/270LR SN OR BX	1947610000	C.223
BLZP 5.08/10/90 SN BK BX	1948320000	C.220
BLZP 5.08/10/90 SN OR BX	1948080000	C.220
BLZP 5.08/10/90F SN BK BX	1950120000	C.221
BLZP 5.08/10/90F SN OR BX	1949880000	C.221
BLZP 5.08/10/90LR SN BK BX	1087110000	C.221
BLZP 5.08/10/90LR SN OR BX	1087330000	C.221
BLZP 5.08/11/180 SN BK BX	1943900000	C.218
BLZP 5.08/11/180 SN OR BX	1943670000	C.218
BLZP 5.08/11/180F SN BK BX	1944420000	C.219
BLZP 5.08/11/180F SN OR BX	1944180000	C.219
BLZP 5.08/11/180LR SN BK BX	1945150000	C.219
BLZP 5.08/11/180LR SN OR BX	1944920000	C.219
BLZP 5.08/11/225 SN BK BX	1946650000	C.224
BLZP 5.08/11/225 SN OR BX	1946340000	C.224
BLZP 5.08/11/225B SN BK BX	1946070000	C.225
BLZP 5.08/11/225B SN OR BX	1945840000	C.225
BLZP 5.08/11/270 SN BK BX	1949110000	C.222
BLZP 5.08/11/270 SN OR BX	1948880000	C.222
BLZP 5.08/11/270F SN BK BX	1950670000	C.223
BLZP 5.08/11/270F SN OR BX	1950400000	C.223

Type	Order No.	Page
BLZP 5.08/11/270LR SN BK BX	1947850000	C.223
BLZP 5.08/11/270LR SN OR BX	1947620000	C.223
BLZP 5.08/11/90 SN BK BX	1948330000	C.220
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BLZP 5.08/11/90F SN BK BX	1950130000	C.221
BLZP 5.08/11/90F SN OR BX	1949890000	C.221
BLZP 5.08/11/90LR SN BK BX	1087120000	C.221
BLZP 5.08/11/90LR SN OR BX	1087340000	C.221
BLZP 5.08/12/180 SN BK BX	1943910000	C.218
BLZP 5.08/12/180 SN OR BX	1943680000	C.218
BLZP 5.08/12/180F SN BK BX	1944430000	C.219
BLZP 5.08/12/180F SN OR BX	1944190000	C.219
BLZP 5.08/12/180LR SN BK BX	1945160000	C.219
BLZP 5.08/12/180LR SN OR BX	1944930000	C.219
BLZP 5.08/12/225 SN BK BX	1946660000	C.224
BLZP 5.08/12/225 SN OR BX	1946350000	C.224
BLZP 5.08/12/225B SN BK BX	1946080000	C.225
BLZP 5.08/12/225B SN OR BX	1945850000	C.225
BLZP 5.08/12/270 SN BK BX	1949120000	C.222
BLZP 5.08/12/270 SN OR BX	1948890000	C.222
BLZP 5.08/12/270F SN BK BX	1950690000	C.223
BLZP 5.08/12/270F SN OR BX	1950410000	C.223
BLZP 5.08/12/270LR SN BK BX	1947860000	C.223
BLZP 5.08/12/270LR SN OR BX	1947630000	C.223
BLZP 5.08/12/90 SN BK BX	1948340000	C.220
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BLZP 5.08/12/90F SN BK BX	1950140000	C.221
BLZP 5.08/12/90F SN OR BX	1949900000	C.221
BLZP 5.08/12/90LR SN BK BX	1087130000	C.221
BLZP 5.08/12/90LR SN OR BX	1087350000	C.221
BLZP 5.08/13/180 SN BK BX	1943920000	C.218
BLZP 5.08/13/180 SN OR BX	1943690000	C.218
BLZP 5.08/13/180F SN BK BX	1944440000	C.219
BLZP 5.08/13/180F SN OR BX	1944200000	C.219
BLZP 5.08/13/180LR SN BK BX	1945170000	C.219
BLZP 5.08/13/180LR SN OR BX	1944940000	C.219
BLZP 5.08/13/225 SN BK BX	1946670000	C.224
BLZP 5.08/13/225 SN OR BX	1946360000	C.224
BLZP 5.08/13/225B SN BK BX	1946090000	C.225
BLZP 5.08/13/225B SN OR BX	1945860000	C.225
BLZP 5.08/13/270 SN BK BX	1949130000	C.222
BLZP 5.08/13/270 SN OR BX	1948900000	C.222
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BLZP 5.08/13/90F SN BK BX	1950150000	C.221
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BLZP 5.08/13/90LR SN OR BX	1087360000	C.221
BLZP 5.08/14/180 SN BK BX	1943930000	C.218
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BLZP 5.08/14/180F SN BK BX	1944450000	C.219
BLZP 5.08/14/180F SN OR BX	1944210000	C.219
BLZP 5.08/14/180LR SN BK BX	1945180000	C.219
BLZP 5.08/14/180LR SN OR BX	1944950000	C.219
BLZP 5.08/14/225 SN BK BX	1946680000	C.224
BLZP 5.08/14/225 SN OR BX	1946370000	C.224
BLZP 5.08/14/225B SN BK BX	1946100000	C.225
BLZP 5.08/14/225B SN OR BX	1945870000	C.225
BLZP 5.08/14/270 SN BK BX	1949140000	C.222
BLZP 5.08/14/270 SN OR BX	1948910000	C.222
BLZP 5.08/14/270F SN BK BX	1950710000	C.223
BLZP 5.08/14/270F SN OR BX	1950430000	C.223
BLZP 5.08/14/270LR SN BK BX	1947880000	C.223
BLZP 5.08/14/270LR SN OR BX	1947650000	C.223
BLZP 5.08/14/90 SN BK BX	1948360000	C.220
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BLZP 5.08/14/90F SN BK BX	1950160000	C.221
BLZP 5.08/14/90F SN OR BX	1949920000	C.221
BLZP 5.08/14/90LR SN BK BX	1087150000	C.221
BLZP 5.08/14/90LR SN OR BX	1087370000	C.221
BLZP 5.08/15/180 SN BK BX	1943940000	C.218
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BLZP 5.08/15/180LR SN BK BX	1945190000	C.219
BLZP 5.08/15/180LR SN OR BX	1944960000	C.219
BLZP 5.08/15/225 SN BK BX	1946690000	C.224
BLZP 5.08/15/225 SN OR BX	1946380000	C.224
BLZP 5.08/15/225B SN BK BX	1946110000	C.225
BLZP 5.08/15/225B SN OR BX	1945880000	C.225
BLZP 5.08/15/270 SN BK BX	1949150000	C.222
BLZP 5.08/15/270 SN OR BX	1948920000	C.222
BLZP 5.08/15/270F SN BK BX	1950720000	C.223
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BLZP 5.08/15/270LR SN BK BX	1947890000	C.223
BLZP 5.08/15/270LR SN OR BX	1947660000	C.223
BLZP 5.08/15/90 SN BK BX	1948370000	C.220
BLZP 5.08/15/90 SN OR BX	1948140000	C.220
BLZP 5.08/15/90F SN BK BX	1950170000	C.221
BLZP 5.08/15/90F SN OR BX	1949930000	C.221
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BLZP 5.08/15/90LR SN OR BX	1087380000	C.221
BLZP 5.08/16/180 SN BK BX	1943950000	C.218
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BLZP 5.08/16/180F SN BK BX	1944470000	C.219
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BLZP 5.08/16/180LR SN BK BX	1945200000	C.219
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BLZP 5.08/16/225 SN OR BX	1946390000	C.224
BLZP 5.08/16/225B SN BK BX	1946120000	C.225
BLZP 5.08/16/225B SN OR BX	1945890000	C.225
BLZP 5.08/16/270 SN BK BX	1949160000	C.222
BLZP 5.08/16/270 SN OR BX	1948930000	C.222
BLZP 5.08/16/270F SN BK BX	1950730000	C.223
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BLZP 5.08/16/90 SN OR BX	1948150000	C.220
BLZP 5.08/16/90F SN BK BX	1950180000	C.221
BLZP 5.08/16/90F SN OR BX	1949940000	C.221
BLZP 5.08/16/90LR SN BK BX	1068510000	C.221
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BLZP 5.08/17/180 SN BK BX	1943960000	C.218
BLZP 5.08/17/180 SN OR BX	1943730000	C.218
BLZP 5.08/17/180F SN BK BX	1944480000	C.219
BLZP 5.08/17/180F SN OR BX	1944240000	C.219
BLZP 5.08/17/180LR SN BK BX	1945210000	C.219
BLZP 5.08/17/180LR SN OR BX	1944980000	C.219
BLZP 5.08/17/225 SN BK BX	1946710000	C.224
BLZP 5.08/17/225 SN OR BX	1946400000	C.224
BLZP 5.08/17/225B SN BK BX	1946130000	C.225
BLZP 5.08/17/225B SN OR BX	1945900000	C.225
BLZP 5.08/17/270 SN BK BX	1949170000	C.222
BLZP 5.08/17/270 SN OR BX	1948940000	C.222
BLZP 5.08/17/270F SN BK BX	1950740000	C.223
BLZP 5.08/17/270F SN OR BX	1950460000	C.223
BLZP 5.08/17/270LR SN BK BX	1947910000	C.223
BLZP 5.08/17/270LR SN OR BX	1947680000	C.223
BLZP 5.08/17/90 SN BK BX	1948390000	C.220
BLZP 5.08/17/90 SN OR BX	1948160000	C.220
BLZP 5.08/17/90F SN BK BX	1950190000	C.221
BLZP 5.08/17/90F SN OR BX	1949950000	C.221
BLZP 5.08/17/90LR SN BK BX	1087170000	C.221
BLZP 5.08/17/90LR SN OR BX	1087400000	C.221
BLZP 5.08/18/180 SN BK BX	1943970000	C.218
BLZP 5.08/18/180 SN OR BX	1943740000	C.218
BLZP 5.08/18/180F SN BK BX	1944490000	C.219
BLZP 5.08/18/180F SN OR BX	1944250000	C.219
BLZP 5.08/18/180LR SN BK BX	1945220000	C.219
BLZP 5.08/18/180LR SN OR BX	1944990000	C.219
BLZP 5.08/18/225 SN BK BX	1946720000	C.224
BLZP 5.08/18/225 SN OR BX	1946410000	C.224
BLZP 5.08/18/225B SN BK BX	1946140000	C.225
BLZP 5.08/18/225B SN OR BX	1945910000	C.225
BLZP 5.08/18/270 SN BK BX	1949180000	C.222
BLZP 5.08/18/270 SN OR BX	1948950000	C.222
BLZP 5.08/18/270F SN BK BX	1950750000	C.223
BLZP 5.08/18/270F SN OR BX	1950470000	C.223
BLZP 5.08/18/270LR SN BK BX	1947920000	C.223
BLZP 5.08/18/270LR SN OR BX	1947690000	C.223
BLZP 5.08/18/90 SN BK BX	1948400000	C.220
BLZP 5.08/18/90 SN OR BX	1948170000	C.220
BLZP 5.08/18/90F SN BK BX	1950200000	C.221
BLZP 5.08/18/90F SN OR BX	1949960000	C.221
BLZP 5.08/18/90LR SN BK BX	1087180000	C.221
BLZP 5.08/18/90LR SN OR BX	1087410000	C.221
BLZP 5.08/19/180 SN BK BX	1943980000	C.218
BLZP 5.08/19/180 SN OR BX	1943750000	C.218
BLZP 5.08/19/180F SN BK BX	1944500000	C.219
BLZP 5.08/19/180F SN OR BX	1944260000	C.219
BLZP 5.08/19/180LR SN BK BX	1945230000	C.219
BLZP 5.08/19/180LR SN OR BX	1945000000	C.219
BLZP 5.08/19/225 SN BK BX	1946730000	C.224
BLZP 5.08/19/225 SN OR BX	1946420000	C.224
BLZP 5.08/19/225B SN BK BX	1946150000	C.225
BLZP 5.08/19/225B SN OR BX	1945920000	C.225
BLZP 5.08/19/270 SN BK BX	1949190000	C.222
BLZP 5.08/19/270 SN OR BX	1948960000	C.222
BLZP 5.08/19/270F SN BK BX	1950760000	C.223
BLZP 5.08/19/270F SN OR BX	1950480000	C.223
BLZP 5.08/19/270LR SN BK BX	1947930000	C.223
BLZP 5.08/19/270LR SN OR BX	1947700000	C.223
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BLZP 5.08/19/90 SN OR BX	1948180000	C.220
BLZP 5.08/19/90F SN BK BX	1950210000	C.221
BLZP 5.08/19/90F SN OR BX	1949970000	C.221
BLZP 5.08/19/90LR SN BK BX	1087190000	C.221
BLZP 5.08/19/90LR SN OR BX	1087420000	C.221
BLZP 5.08/20/180 SN BK BX	1943990000	C.218
BLZP 5.08/20/180 SN OR BX	1943760000	C.218
BLZP 5.08/20/180F SN BK BX	1944510000	C.219
BLZP 5.08/20/180F SN OR BX	1944270000	C.219
BLZP 5.08/20/180LR SN BK BX	1945240000	C.219
BLZP 5.08/20/180LR SN OR BX	1945010000	C.219
BLZP 5.08/20/225 SN BK BX	1946740000	C.224
BLZP 5.08/20/225 SN OR BX	1946430000	C.224
BLZP 5.08/20/225B SN BK BX	1946160000	C.225
BLZP 5.08/20/225B SN OR BX	1945930000	C.225
BLZP 5.08/20/270 SN BK BX	1949200000	C.222
BLZP 5.08/20/270 SN OR BX	1948970000	C.222
BLZP 5.08/20/270F SN BK BX	1950770000	C.223
BLZP 5.08/20/270F SN OR BX	1950490000	C.223
BLZP 5.08/20/270LR SN BK BX	1947940000	C.223
BLZP 5.08/20/270LR SN OR BX	1947710000	C.223
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BLZP 5.08/20/90F SN BK BX	1950220000	C.221
BLZP 5.08/20/90F SN OR BX	1949980000	C.221
BLZP 5.08/20/90LR SN BK BX	1087200000	C.221
BLZP 5.08/20/90LR SN OR BX	1087430000	C.221
BLZP 5.08/21/180 SN BK BX	1944000000	C.218
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BLZP 5.08/21/180F SN BK BX	1944520000	C.219
BLZP 5.08/21/180F SN OR BX	1944280000	C.219
BLZP 5.08/21/180LR SN BK BX	1945250000	C.219
BLZP 5.08/21/180LR SN OR BX	1945020000	C.219
BLZP 5.08/21/225 SN BK BX	1946750000	C.224
BLZP 5.08/21/225 SN OR BX	1946440000	C.224
BLZP 5.08/21/225B SN BK BX	1946170000	C.225
BLZP 5.08/21/225B SN OR BX	1945940000	C.225
BLZP 5.08/21/270 SN BK BX	1949210000	C.222
BLZP 5.08/21/270 SN OR BX	1948980000	C.222
BLZP 5.08/21/270F SN BK BX	1950780000	C.223
BLZP 5.08/21/270F SN OR BX	1950500000	C.223
BLZP 5.08/21/270LR SN BK BX	1947950000	C.223
BLZP 5.08/21/270LR SN OR BX	1947720000	C.223
BLZP 5.08/21/90 SN BK BX	1948430000	C.220
BLZP 5.08/21/90 SN OR BX	1948200000	C.220
BLZP 5.08/21/90F SN BK BX	1950230000	C.221
BLZP 5.08/21/90F SN OR BX	1949990000	C.221
BLZP 5.08/21/90LR SN BK BX	1087210000	C.221
BLZP 5.08/21/90LR SN OR BX	1087440000	C.221
BLZP 5.08/22/180 SN BK BX	1944010000	C.218
BLZP 5.08/22/180 SN OR BX	1943780000	C.218
BLZP 5.08/22/180F SN BK BX	1944530000	C.219
BLZP 5.08/22/180F SN OR BX	1944290000	C.219
BLZP 5.08/22/180LR SN BK BX	1945260000	C.219
BLZP 5.08/22/180LR SN OR BX	1945030000	C.219
BLZP 5.08/22/225 SN BK BX	1946760000	C.224
BLZP 5.08/22/225 SN OR BX	1946450000	C.224
BLZP 5.08/22/225B SN BK BX	1946180000	C.225
BLZP 5.08/22/225B SN OR BX	1945950000	C.225
BLZP 5.08/22/270 SN BK BX	1949220000	C.222
BLZP 5.08/22/270 SN OR BX	1948990000	C.222
BLZP 5.08/22/270F SN BK BX	1950790000	C.223
BLZP 5.08/22/270F SN OR BX	1950510000	C.223
BLZP 5.08/22/270LR SN BK BX	1947960000	C.223
BLZP 5.08/22/270LR SN OR BX	1947730000	C.223
BLZP 5.08/22/90 SN BK BX	1948440000	C.220
BLZP 5.08/22/90 SN OR BX	1948210000	C.220
BLZP 5.08/22/90F SN BK BX	1950240000	C.221
BLZP 5.08/22/90F SN OR BX	1950010000	C.221
BLZP 5.08/22/90LR SN BK BX	1087220000	C.221
BLZP 5.08/22/90LR SN OR BX	1087450000	C.221
BLZP 5.08/23/180 SN BK BX	1944020000	C.218
BLZP 5.08/23/180 SN OR BX	1943790000	C.218
BLZP 5.08/23/180F SN BK BX	1944540000	C.219
BLZP 5.08/23/180F SN OR BX	1944300000	C.219
BLZP 5.08/23/180LR SN BK BX	1945270000	C.219
BLZP 5.08/23/180LR SN OR BX	1945040000	C.219
BLZP 5.08/23/225 SN BK BX	1946770000	C.224
BLZP 5.08/23/225 SN OR BX	1946460000	C.224
BLZP 5.08/23/225B SN BK BX	1946190000	C.225
BLZP 5.08/23/225B SN OR BX	1945960000	C.225
BLZP 5.08/23/270 SN BK BX	1949230000	C.222
BLZP 5.08/23/270 SN OR BX	1949000000	C.222
BLZP 5.08/23/270F SN BK BX	1950800000	C.223
BLZP 5.08/23/270F SN OR BX	1950520000	C.223
BLZP 5.08/23/270LR SN BK BX	1947970000	C.223
BLZP 5.08/23/270LR SN OR BX	1947740000	C.223
BLZP 5.08/23/90 SN BK BX	1948450000	C.220
BLZP 5.08/23/90 SN OR BX	1948220000	C.220
BLZP 5.08/23/90F SN BK BX	1950250000	C.221
BLZP 5.08/23/90F SN OR BX	1950020000	C.221
BLZP 5.08/23/90LR SN BK BX	1087230000	C.221
BLZP 5.08/23/90LR SN OR BX	1087460000	C.221
BLZP 5.08/24/180 SN BK BX	1944030000	C.218
BLZP 5.08/24/180 SN OR BX	1943800000	C.218
BLZP 5.08/24/180F SN BK BX	1944550000	C.219
BLZP 5.08/24/180F SN OR BX	1944310000	C.219
BLZP 5.08/24/180LR SN BK BX	1945280000	C.219
BLZP 5.08/24/180LR SN OR BX	1945050000	C.219
BLZP 5.08/24/225 SN BK BX	1946780000	C.224
BLZP 5.08/24/225 SN OR BX	1946480000	C.224
BLZP 5.08/24/225B SN BK BX	1946200000	C.225
BLZP 5.08/24/225B SN OR BX	1945970000	C.225
BLZP 5.08/24/270 SN BK BX	1949240000	C.222
BLZP 5.08/24/270 SN OR BX	1949010000	C.222
BLZP 5.08/24/270F SN BK BX	1950810000	C.223
BLZP 5.08/24/270F SN OR BX	1950540000	C.223
BLZP 5.08/24/270LR SN BK BX	1947980000	C.223
BLZP 5.08/24/270LR SN OR BX	1947750000	C.223
BLZP 5.08/24/90 SN BK BX	1948460000	C.220
BLZP 5.08/24/90 SN OR BX	1948230000	C.220
BLZP 5.08/24/90F SN BK BX	1950260000	C.221
BLZP 5.08/24/90F SN OR BX	1950030000	C.221
BLZP 5.08/24/90LR SN BK BX	1087240000	C.221
BLZP 5.08/24/90LR SN OR BX	1087470000	C.221
BUL 10.16HP/02/180 4.5AG BK BX SO	1289000000	F.90
BUL 10.16HP/03/180 4.5AG BK BX SO	1341270000	F.90
BUL 10.16HP/04/180 4.5AG BK BX SO	1289010000	F.90

Type	Order No.	Page
BUZ 10.16HP/02/180 AG BK BX	1924540000	F.88
BUZ 10.16HP/02/180F AG BK BX	1924620000	F.89
BUZ 10.16HP/02/180SF AG BK BX	1924700000	F.89
BUZ 10.16HP/03/180 AG BK BX	1924550000	F.88
BUZ 10.16HP/03/180F AG BK BX	1924630000	F.89
BUZ 10.16HP/03/180SF AG BK BX	1924710000	F.89
BUZ 10.16HP/04/180 AG BK BX	1924560000	F.88
BUZ 10.16HP/04/180F AG BK BX	1924640000	F.89
BUZ 10.16HP/04/180SF AG BK BX	1924720000	F.89
BUZ 10.16HP/05/180 AG BK BX	1924570000	F.88
BUZ 10.16HP/05/180F AG BK BX	1924650000	F.89
BUZ 10.16HP/05/180SF AG BK BX	1924740000	F.89
BUZ 10.16HP/06/180 AG BK BX	1924580000	F.88
BUZ 10.16HP/06/180F AG BK BX	1924660000	F.89
BUZ 10.16HP/06/180SF AG BK BX	1924750000	F.89
BUZ 10.16HP/07/180 AG BK BX	1924590000	F.88
BUZ 10.16HP/07/180F AG BK BX	1924670000	F.89
BUZ 10.16HP/07/180SF AG BK BX	1924760000	F.89
BUZ 10.16HP/08/180 AG BK BX	1924600000	F.88
BUZ 10.16HP/08/180F AG BK BX	1924680000	F.89
BUZ 10.16HP/08/180SF AG BK BX	1924770000	F.89
BUZ 10.16HP/09/180 AG BK BX	1924610000	F.88
BUZ 10.16HP/09/180F AG BK BX	1924690000	F.89
BUZ 10.16HP/09/180SF AG BK BX	1924780000	F.89
BUZ 10.16IT/02/180MF AG BK BX	1156600000	F.110
BUZ 10.16IT/03/180MF2 AG BK BX	1156610000	F.110
BUZ 10.16IT/03/180MF3 AG BK BX	1156620000	F.111
BUZ 10.16IT/04/180MF2 AG BK BX	1156630000	F.110
BUZ 10.16IT/04/180MF4 AG BK BX	1156640000	F.111
BV/SV 7.62HP KO	1937550000	H.4
BV/SV 7.62HP/02 ZE GR	1937560000	H.2
BV/SV 7.62HP/04 ZE GR	1937570000	H.2
BV/SV7.62HP MOFU GR	1937600000	F.100
BVF 7.62HP SH150 4-6 KIT	1118480000	H.3
BVF 7.62HP SH180 4-6 KIT	1118470000	H.3
BVF 7.62HP SH210 4-6 KIT	1118490000	H.3
BVF 7.62HP/02/180 BCF/04R SN BK BX	1080550000	F.120
BVF 7.62HP/02/180 BCF/06R SN BK BX	1080320000	F.120
BVF 7.62HP/02/180 BCF/08R SN BK BX	1156440000	F.120
BVF 7.62HP/02/180 SN BK BX	1060390000	F.64
BVF 7.62HP/02/180F SN BK BX	1060440000	F.65
BVF 7.62HP/02/180MF BCF/04R SN BK BX	1081610000	F.121
BVF 7.62HP/02/180MF BCF/06R SN BK BX	1081030000	F.121
BVF 7.62HP/02/180MF BCF/08R SN BK BX	1157090000	F.121
BVF 7.62HP/02/180MF SN BK BX	1060550000	F.66
BVF 7.62HP/02/180MSF BCF/04R SN BK BX	1081930000	F.122
BVF 7.62HP/02/180MSF BCF/06R SN BK BX	1082080000	F.122
BVF 7.62HP/02/180MSF BCF/08R SN BK BX	1157100000	F.122
BVF 7.62HP/02/180MSF SN BK BX	1060630000	F.68
BVF 7.62HP/02/180SF SN BK BX	1060500000	F.65
BVF 7.62HP/03/180 BCF/04R SN BK BX	1080490000	F.120
BVF 7.62HP/03/180 BCF/06R SN BK BX	1080570000	F.120
BVF 7.62HP/03/180 BCF/08R SN BK BX	1156450000	F.120
BVF 7.62HP/03/180 SN BK BX	1060400000	F.64
BVF 7.62HP/03/180F SN BK BX	1060450000	F.65
BVF 7.62HP/03/180MF2 BCF/04R SN BK BX	1157110000	F.121
BVF 7.62HP/03/180MF2 BCF/06R SN BK BX	1157120000	F.121
BVF 7.62HP/03/180MF2 BCF/08R SN BK BX	1157130000	F.121
BVF 7.62HP/03/180MF2 SN BK BX	1060570000	F.66
BVF 7.62HP/03/180MF3 BCF/04R SN BK BX	1081630000	F.121
BVF 7.62HP/03/180MF3 BCF/06R SN BK BX	1081720000	F.121
BVF 7.62HP/03/180MF3 BCF/08R SN BK BX	1157170000	F.121
BVF 7.62HP/03/180MF3 SN BK BX	1060580000	F.67
BVF 7.62HP/03/180MSF2 BCF/04R SN BK BX	1157440000	F.122
BVF 7.62HP/03/180MSF2 BCF/06R SN BK BX	1157450000	F.122
BVF 7.62HP/03/180MSF2 BCF/08R SN BK BX	1157470000	F.122
BVF 7.62HP/03/180MSF2 SN BK BX	1060640000	F.68
BVF 7.62HP/03/180MSF3 BCF/04R SN BK BX	1082110000	F.122
BVF 7.62HP/03/180MSF3 BCF/06R SN BK BX	1081730000	F.122
BVF 7.62HP/03/180MSF3 BCF/08R SN BK BX	1157190000	F.122
BVF 7.62HP/03/180MSF3 SN BK BX	1060650000	F.69
BVF 7.62HP/03/180SF SN BK BX	1060510000	F.65
BVF 7.62HP/04/180 BCF/04R SN BK BX	1080510000	F.120
BVF 7.62HP/04/180 BCF/06R SN BK BX	1080440000	F.120
BVF 7.62HP/04/180 BCF/08R SN BK BX	1156470000	F.120
BVF 7.62HP/04/180 SN BK BX	1060410000	F.64
BVF 7.62HP/04/180F SN BK BX	1060470000	F.65
BVF 7.62HP/04/180MF SN BK BX	1060590000	F.67
BVF 7.62HP/04/180MF4 BCF/04R SN BK BX	1081150000	F.121
BVF 7.62HP/04/180MF4 BCF/06R SN BK BX	1082020000	F.121
BVF 7.62HP/04/180MF4 BCF/08R SN BK BX	1157200000	F.121
BVF 7.62HP/04/180MSF SN BK BX	1060670000	F.69
BVF 7.62HP/04/180MSF4 BCF/04R SN BK BX	1081660000	F.122
BVF 7.62HP/04/180MSF4 BCF/06R SN BK BX	1081750000	F.122
BVF 7.62HP/04/180MSF4 BCF/08R SN BK BX	1157210000	F.122
BVF 7.62HP/04/180SF SN BK BX	1060520000	F.65
BVF 7.62HP/05/180 BCF/08R SN BK BX	1156480000	F.120
BVF 7.62HP/05/180 SN BK BX	1060420000	F.64
BVF 7.62HP/05/180F SN BK BX	1060480000	F.65
BVF 7.62HP/05/180MF3 BCF/04R SN BK BX	1157220000	F.121
BVF 7.62HP/05/180MF3 BCF/06R SN BK BX	1157230000	F.121
BVF 7.62HP/05/180MF3 BCF/08R SN BK BX	1157240000	F.121
BVF 7.62HP/05/180MF3 SN BK BX	1060600000	F.67
BVF 7.62HP/05/180MF4 BCF/04R SN BK BX	1082140000	F.121
BVF 7.62HP/05/180MF4 BCF/06R SN BK BX	1081760000	F.121
BVF 7.62HP/05/180MF4 BCF/08R SN BK BX	1157250000	F.121
BVF 7.62HP/05/180MF4 SN BK BX	1060610000	F.67
BVF 7.62HP/05/180MSF3 BCF/04R SN BK BX	1157270000	F.122
BVF 7.62HP/05/180MSF3 BCF/06R SN BK BX	1157280000	F.122
BVF 7.62HP/05/180MSF3 BCF/08R SN BK BX	1157290000	F.122
BVF 7.62HP/05/180MSF3 SN BK BX	1060680000	F.69
BVF 7.62HP/05/180MSF4 BCF/08R SN BK BX	1157300000	F.122
BVF 7.62HP/05/180MSF4 SN BK BX	1060690000	F.69
BVF 7.62HP/05/180SF SN BK BX	1060530000	F.65
BVF 7.62HP/06/180F SN BK BX	1060490000	F.65
BVF 7.62HP/06/180SF SN BK BX	1060540000	F.65
BVL 7.62HP/02/180 3.5SN BK BX	1928610000	F.72
BVL 7.62HP/02/180FI 3.5SN BK BX	1928730000	F.73
BVL 7.62HP/02/180SFI 3.5SN BK BX	1928840000	F.73
BVL 7.62HP/02/270 3.5SN BK BX	1929300000	F.74
BVL 7.62HP/02/270FI 3.5SN BK BX	1929410000	F.75
BVL 7.62HP/02/270SFI 3.5SN BK BX	1929520000	F.75
BVL 7.62HP/02/90 3.5SN BK BX	1928280000	F.70
BVL 7.62HP/02/90FI 3.5SN BK BX	1928390000	F.71
BVL 7.62HP/02/90SFI 3.5SN BK BX	1928500000	F.71
BVL 7.62HP/03/180 3.5SN BK BX	1928620000	F.72
BVL 7.62HP/03/180FI 3.5SN BK BX	1928740000	F.73
BVL 7.62HP/03/180SFI 3.5SN BK BX	1928850000	F.73
BVL 7.62HP/03/270 3.5SN BK BX	1929310000	F.74
BVL 7.62HP/03/270FI 3.5SN BK BX	1929420000	F.75
BVL 7.62HP/03/270SFI 3.5SN BK BX	1929530000	F.75
BVL 7.62HP/03/90 3.5SN BK BX	1928290000	F.70
BVL 7.62HP/03/90FI 3.5SN BK BX	1928400000	F.71
BVL 7.62HP/03/90SFI 3.5SN BK BX	1928510000	F.71
BVL 7.62HP/04/180 3.5SN BK BX	1928630000	F.72
BVL 7.62HP/04/180FI 3.5SN BK BX	1928750000	F.73
BVL 7.62HP/04/180SFI 3.5SN BK BX	1928860000	F.73
BVL 7.62HP/04/270 3.5SN BK BX	1929320000	F.74
BVL 7.62HP/04/270FI 3.5SN BK BX	1929430000	F.75
BVL 7.62HP/04/270SFI 3.5SN BK BX	1929540000	F.75
BVL 7.62HP/04/90 3.5SN BK BX	1928300000	F.70
BVL 7.62HP/04/90FI 3.5SN BK BX	1928410000	F.71
BVL 7.62HP/04/90SFI 3.5SN BK BX	1928520000	F.71
BVL 7.62HP/05/180 3.5SN BK BX	1928650000	F.72
BVL 7.62HP/05/180FI 3.5SN BK BX	1928760000	F.73
BVL 7.62HP/05/180SFI 3.5SN BK BX	1928870000	F.73
BVL 7.62HP/05/270 3.5SN BK BX	1929330000	F.74
BVL 7.62HP/05/270FI 3.5SN BK BX	1929440000	F.75
BVL 7.62HP/05/270SFI 3.5SN BK BX	1929550000	F.75
BVL 7.62HP/05/90 3.5SN BK BX	1928310000	F.70
BVL 7.62HP/05/90FI 3.5SN BK BX	1928420000	F.71
BVL 7.62HP/05/90SFI 3.5SN BK BX	1928530000	F.71
BVL 7.62HP/06/180 3.5SN BK BX	1928660000	F.72
BVL 7.62HP/06/180FI 3.5SN BK BX	1928770000	F.73
BVL 7.62HP/06/180SFI 3.5SN BK BX	1928900000	F.73
BVL 7.62HP/06/270 3.5SN BK BX	1929340000	F.74
BVL 7.62HP/06/270FI 3.5SN BK BX	1929450000	F.75
BVL 7.62HP/06/270SFI 3.5SN BK BX	1929560000	F.75
BVL 7.62HP/06/90 3.5SN BK BX	1928320000	F.70
BVL 7.62HP/06/90FI 3.5SN BK BX	1928430000	F.71
BVL 7.62HP/06/90SFI 3.5SN BK BX	1928540000	F.71
BVL 7.62HP/07/180 3.5SN BK BX	1928670000	F.72
BVL 7.62HP/07/180FI 3.5SN BK BX	1928780000	F.73
BVL 7.62HP/07/180SFI 3.5SN BK BX	1928910000	F.73
BVL 7.62HP/07/270 3.5SN BK BX	1929350000	F.74
BVL 7.62HP/07/270FI 3.5SN BK BX	1929460000	F.75
BVL 7.62HP/07/270SFI 3.5SN BK BX	1929570000	F.75
BVL 7.62HP/07/90 3.5SN BK BX	1928330000	F.70
BVL 7.62HP/07/90FI 3.5SN BK BX	1928440000	F.71
BVL 7.62HP/07/90SFI 3.5SN BK BX	1928550000	F.71
BVZ 7.62HP/02/180 SN BK BX	1929930000	F.58
BVZ 7.62HP/02/180F SN BK BX	1930050000	F.59
BVZ 7.62HP/02/180SF SN BK BX	1930160000	F.59
BVZ 7.62HP/02/180SFC SN BK BX	1929740000	F.59
BVZ 7.62HP/03/180 SN BK BX	1929940000	F.58
BVZ 7.62HP/03/180F SN BK BX	1930060000	F.59
BVZ 7.62HP/03/180SF SN BK BX	1930170000	F.59
BVZ 7.62HP/03/180SFC SN BK BX	1929750000	F.59
BVZ 7.62HP/03/180SH150 SN BK BX	1929850000	F.60
BVZ 7.62HP/03/180SH150C SN BK BX	1929890000	F.62
BVZ 7.62HP/03/180SH180 SN BK BX	1933340000	F.61
BVZ 7.62HP/03/180SH180C SN BK BX	1933380000	F.63
BVZ 7.62HP/03/180SH210 SN BK BX	1933430000	F.61
BVZ 7.62HP/03/180SH210C SN BK BX	1933470000	F.63
BVZ 7.62HP/04/180 SN BK BX	1929950000	F.58
BVZ 7.62HP/04/180F SN BK BX	1930070000	F.59
BVZ 7.62HP/04/180SF SN BK BX	1930180000	F.59
BVZ 7.62HP/04/180SFC SN BK BX	1929760000	F.59
BVZ 7.62HP/04/180SH150 SN BK BX	1929860000	F.60
BVZ 7.62HP/04/180SH150C SN BK BX	1929900000	F.62
BVZ 7.62HP/04/180SH180 SN BK BX	1933350000	F.61
BVZ 7.62HP/04/180SH180C SN BK BX	1933390000	F.63
BVZ 7.62HP/04/180SH210 SN BK BX	1933440000	F.61
BVZ 7.62HP/04/180SH210C SN BK BX	1933480000	F.63
BVZ 7.62HP/05/180 SN BK BX	1929960000	F.58
BVZ 7.62HP/05/180F SN BK BX	1930080000	F.59
BVZ 7.62HP/05/180SF SN BK BX	1930190000	F.59
BVZ 7.62HP/05/180SFC SN BK BX	1929770000	F.59
BVZ 7.62HP/05/180SH150 SN BK BX	1929870000	F.60
BVZ 7.62HP/05/180SH150C SN BK BX	1929910000	F.62
BVZ 7.62HP/05/180SH180 SN BK BX	1933360000	F.61
BVZ 7.62HP/05/180SH180C SN BK BX	1933400000	F.63
BVZ 7.62HP/05/180SH210 SN BK BX	1933450000	F.61
BVZ 7.62HP/05/180SH210C SN BK BX	1933490000	F.63
BVZ 7.62HP/06/180 SN BK BX	1929970000	F.58
BVZ 7.62HP/06/180F SN BK BX	1930090000	F.59
BVZ 7.62HP/06/180SF SN BK BX	1930200000	F.59
BVZ 7.62HP/06/180SFC SN BK BX	1929780000	F.59
BVZ 7.62HP/06/180SH150 SN BK BX	1929880000	F.60
BVZ 7.62HP/06/180SH150C SN BK BX	1929920000	F.62
BVZ 7.62HP/06/180SH180 SN BK BX	1933370000	F.61
BVZ 7.62HP/06/180SH180C SN BK BX	1933410000	F.63
BVZ 7.62HP/06/180SH210 SN BK BX	1933460000	F.61
BVZ 7.62HP/06/180SH210C SN BK BX	1933500000	F.63
BVZ 7.62HP/07/180 SN BK BX	1929980000	F.58
BVZ 7.62HP/07/180F SN BK BX	1930100000	F.59
BVZ 7.62HP/07/180SF SN BK BX	1930210000	F.59
BVZ 7.62HP/07/180SFC SN BK BX	1929790000	F.59
BVZ 7.62IT/02/180MF SN BK BX	1156710000	F.104
BVZ 7.62IT/03/180MF2 SN BK BX	1156720000	F.104
BVZ 7.62IT/03/180MF3 SN BK BX	1156730000	F.105
BVZ 7.62IT/04/180MF2 SN BK BX	1156740000	F.104
BVZ 7.62IT/04/180MF4 SN BK BX	1156750000	F.105

C

CB1,6E14-12 AU,75 I3,5	1428900000	C.254
CB1,6E14-12 AU,75 I4,2	1582450000	C.254
CB1,6E14-12 SN I3,5	1429900000	C.254
CB1,6E14-12 SN I4,2	1582470000	C.254
CB1,6E18-16 AU,75 I2,5	1426900000	C.254
CB1,6E18-16 AU,75 I3,5	1582410000	C.254
CB1,6E18-16 SN I2,5	1427900000	C.254
CB1,6E18-16 SN I3,5	1582430000	C.254
CB1,6E22-20 AU,75 I1,8	1422900000	C.254
CB1,6E22-20 AU,75 I2,5	1424900000	C.254
CB1,6E22-20 SN I1,8	1423900000	C.254
CB1,6E22-20 SN I2,5	1425900000	C.254
CB1,6E26-24 AU,75 I1,4	1420900000	C.254
CB1,6E26-24 SN I1,4	1421900000	C.254
CB1,6R14-12 AU,75 I3,5	1428800000	C.254
CB1,6R14-12 AU,75 I4,2	1582460000	C.254
CB1,6R14-12 SN I3,5	1429800000	C.254
CB1,6R14-12 SN I4,2	1582480000	C.254
CB1,6R18-16 AU,75 I2,5	1426800000	C.254
CB1,6R18-16 AU,75 I3,5	1582420000	C.254
CB1,6R18-16 SN I2,5	1427800000	C.254
CB1,6R18-16 SN I3,5	1582440000	C.254
CB1,6R22-20 AU,75 I1,8	1422800000	C.254
CB1,6R22-20 AU,75 I2,5	1424800000	C.254
CB1,6R22-20 SN I1,8	1423800000	C.254
CB1,6R22-20 SN I2,5	1425800000	C.254
CB1,6R26-24 AU,75 I1,4	1420800000	C.254
CB1,6R26-24 SN I1,4	1421800000	C.254
CH20M AD SHL 5.00/03 BK	1254110000	I.21
CH20M AD SHL 5.00/04 BK	1221310000	I.23
CH20M BUS 4.50/05 AU/250	1248220000	I.35
CH20M BUS 4.50/05 AU/500	1248230000	I.35
CH20M BUS 4.50/05 AU/750	1248240000	I.35
CH20M BUS-ADP TS 35/250	1248250000	I.35
CH20M BUS-ADP TS 35/500	1248260000	I.35
CH20M BUS-ADP TS 35/750	1248270000	I.35
CH20M BUS-AP LI TS 35X7.5 & 15	1193160000	I.35
CH20M BUS-AP RE TS 35X7.5 & 15	1193170000	I.35
CH20M BUS-PROFIL TS 35X15/250	1248180000	I.35
CH20M BUS-PROFIL TS 35X15/500	1248190000	I.35
CH20M BUS-PROFIL TS 35X15/750	1248210000	I.35
CH20M BUS-PROFIL TS 35X7.5/250	1248150000	I.35
CH20M BUS-PROFIL TS 35X7.5/500	1248160000	I.35
CH20M BUS-PROFIL TS 35X7.5/750	1248170000	I.35
CH20M12 B BK/BK	1104170000	I.18
CH20M12 B BK/OR	1104180000	I.18
CH20M12 B BUS BK/OR	1176980000	I.18
CH20M12 B FE BK/OR	1176990000	I.18
CH20M12 C BK	1104240000	I.19
CH20M12 C TP	1104250000	I.19
CH20M12 F BK	1104190000	I.19
CH20M12 S PPP BK	1174280000	I.18
CH20M12 S PPSC BK	1104200000	I.18
CH20M12 S PSCSC BK	1104210000	I.18
CH20M17 B BK/BK	1254120000	I.20
CH20M17 B BK/OR	1254130000	I.20
CH20M17 B BUS BK/OR	1254180000	I.20
CH20M17 B FE BK/OR	1254190000	I.20
CH20M17 C BK	1254150000	I.21
CH20M17 C TP	1254160000	I.21
CH20M17 F BK	1254140000	I.21
CH20M17 S PPP BK	1254170000	I.20
CH20M22 B BK/BK	2418630000	I.22
CH20M22 B BK/OR	1104450000	I.22
CH20M22 B BUS BK/OR	1177000000	I.22
CH20M22 B FE BK/OR	1177010000	I.22
CH20M22 C BK	2418670000	I.23
CH20M22 C TP	1073420000	I.23
CH20M22 F BK	2418640000	I.23
CH20M22 FC BK	1209350000	I.23
CH20M22 S PPP BK	1139790000	I.22
CH20M22 S PPSC BK	2418650000	I.22
CH20M22 S PSCSC BK	1080630000	I.22
CH20M45 B BK/BK	1104400000	I.24
CH20M45 B BK/OR	1104410000	I.24
CH20M45 B BUS BK/OR	1177020000	I.24
CH20M45 B FE BK/OR	1177030000	I.24
CH20M45 C BK	1104430000	I.25
CH20M45 C TP	1104440000	I.25
CH20M45 F BK	1104420000	I.25
CH20M45 FC BK	1164800000	I.25

Type	Order No.	Page
CH20M45 S 2PSC/2PSC BK	1111720000	I.24
CH20M45 S 2PSC/3SC BK	1137740000	I.25
CH20M45 S 3P/3P BK	1137730000	I.24
CH20M45 S 3SC/2PSC BK	1137750000	I.25
CH20M45 S P2SC/P2SC BK	1166180000	I.24
CH20M6 BC 4P-4P BK	2418610000	I.16
CH20M6 BC 4P-4P BUS BK	1164640000	I.16
CH20M6 BP 4P-4P BK	2418600000	I.16
CH20M6 BP 4P-4P BUS BK	1164630000	I.16
CH20M6 BP 4P-4P FE BK	1164650000	I.16
CH20M6 C BK	2418620000	I.17
CH20M6 C TP	1073410000	I.17
CH20M67 B BK/BK	1235270000	I.26
CH20M67 B BK/OR	1235250000	I.26
CH20M67 B BUS BK/OR	1247240000	I.26
CH20M67 B FE BK/OR	1247250000	I.26
CH20M67 FC BK	1235310000	I.27
CH20M67 S 2PSC/2PSC/2PSC BK	1235320000	I.26
CS1,6E14-12 AU,75 I3,5	1428600000	C.254
CS1,6E14-12 AU,75 I4,2	1582290000	C.254
CS1,6E14-12 SN I3,5	1429600000	C.254
CS1,6E14-12 SN I4,2	1582310000	C.254
CS1,6E18-16 AU,75 I2,5	1426600000	C.254
CS1,6E18-16 AU,75 I3,5	1582250000	C.254
CS1,6E18-16 SN I2,5	1427600000	C.254
CS1,6E18-16 SN I3,5	1582270000	C.254
CS1,6E22-20 AU,75 I1,8	1422600000	C.254
CS1,6E22-20 AU,75 I2,5	1424600000	C.254
CS1,6E22-20 SN I1,8	1423600000	C.254
CS1,6E22-20 SN I2,5	1425600000	C.254
CS1,6E26-24 AU,75 I1,4	1420600000	C.254
CS1,6E26-24 SN I1,4	1421600000	C.254
CS1,6R14-12 AU,75 I3,5	1428500000	C.254
CS1,6R14-12 AU,75 I4,2	1582300000	C.254
CS1,6R14-12 SN I3,5	1429500000	C.254
CS1,6R14-12 SN I4,2	1582320000	C.254
CS1,6R18-16 AU,75 I2,5	1426500000	C.254
CS1,6R18-16 AU,75 I3,5	1582260000	C.254
CS1,6R18-16 SN I2,5	1427500000	C.254
CS1,6R18-16 SN I3,5	1582280000	C.254
CS1,6R22-20 AU,75 I1,8	1422500000	C.254
CS1,6R22-20 AU,75 I2,5	1424500000	C.254
CS1,6R22-20 SN I1,8	1423500000	C.254
CS1,6R22-20 SN I2,5	1425500000	C.254
CS1,6R26-24 AU,75 I1,4	1420500000	C.254
CS1,6R26-24 SN I1,4	1421500000	C.254
CSL1,6E14-12 AU,75 I3,5	1428700000	C.254
CSL1,6E14-12 AU,75 I4,2	1582370000	C.254
CSL1,6E14-12 SN I3,5	1429700000	C.254
CSL1,6E14-12 SN I4,2	1582390000	C.254
CSL1,6E18-16 AU,75 I2,5	1426700000	C.254
CSL1,6E18-16 AU,75 I3,5	1582330000	C.254
CSL1,6E18-16 SN I2,5	1427700000	C.254
CSL1,6E18-16 SN I3,5	1582350000	C.254
CSL1,6E22-20 AU,75 I1,8	1422700000	C.254
CSL1,6E22-20 AU,75 I2,5	1424700000	C.254
CSL1,6E22-20 SN I1,8	1423700000	C.254
CSL1,6E22-20 SN I2,5	1425700000	C.254
CSL1,6E26-24 AU,75 I1,4	1420700000	C.254
CSL1,6E26-24 SN I1,4	1421700000	C.254
CSL1,6R14-12 AU,75 I3,5	1565760000	C.254
CSL1,6R14-12 AU,75 I4,2	1582380000	C.254
CSL1,6R14-12 SN I3,5	1565780000	C.254
CSL1,6R14-12 SN I4,2	1582400000	C.254
CSL1,6R18-16 AU,75 I2,5	1565790000	C.254
CSL1,6R18-16 AU,75 I3,5	1582340000	C.254
CSL1,6R18-16 SN I2,5	1565810000	C.254
CSL1,6R18-16 SN I3,5	1582360000	C.254
CSL1,6R22-20 AU,75 I1,8	1565850000	C.254
CSL1,6R22-20 AU,75 I2,5	1565820000	C.254
CSL1,6R22-20 SN I1,8	1565870000	C.254
CSL1,6R22-20 SN I2,5	1565840000	C.254
CSL1,6R26-24 AU,75 I1,4	1565880000	C.254
CSL1,6R26-24 SN I1,4	1565900000	C.254

D

DEK 5 BL NEUTRAL	0473391693	D.17
DEK 5 BR NEUTRAL	0473391692	D.17
DEK 5 FS 1-50	0473560001	D.17
DEK 5 FS 51-100	0473560051	D.17
DEK 5 FS 951-999	0473560951	D.17
DEK 5 FSZ 1-10	0460660001	D.17
DEK 5 FSZ 11-20	0460660011	D.17
DEK 5 FSZ 91-100	0460660091	D.17
DEK 5 FW 1-50	0473460001	D.17
DEK 5 FW 51-100	0473460051	D.17
DEK 5 FW 951-999	0473460951	D.17
DEK 5 FWZ 1-10	0523060001	D.17
DEK 5 FWZ 11-20	0523060011	D.17
DEK 5 FWZ 91-100	0523060091	D.17
DEK 5 FWZ L1-PE	0354361187	D.17
DEK 5 GE NEUTRAL	0473391687	D.17
DEK 5 GN NEUTRAL	0473391688	D.17
DEK 5 GR NEUTRAL	0473391691	D.17
DEK 5 GS ERDE	0157261202	D.17
DEK 5 GS ERDE IM KREIS	0157261203	D.17
DEK 5 GS PE	0157261187	D.17
DEK 5 GW -	0576261199	D.17
DEK 5 GW +	0576261198	D.17
DEK 5 GW 1	0522660001	D.17
DEK 5 GW 2	0522660002	D.17
DEK 5 GW 200	0522660200	D.17
DEK 5 GW A	0522761021	D.17
DEK 5 GW B	0522761022	D.17
DEK 5 GW C	0522761023	D.17
DEK 5 GW D	0522761024	D.17
DEK 5 GW E	0522761025	D.17
DEK 5 GW ERDE	0576261202	D.17
DEK 5 GW ERDE I.KR.	0576261203	D.17
DEK 5 GW F	0522761026	D.17
DEK 5 GW G	0522761027	D.17
DEK 5 GW H	0522761028	D.17
DEK 5 GW I	0522761029	D.17
DEK 5 GW J	0522761030	D.17
DEK 5 GW K	0522761031	D.17
DEK 5 GW L	0522761032	D.17
DEK 5 GW L1	0522361075	D.17
DEK 5 GW L2	0522361076	D.17
DEK 5 GW L3	0522361077	D.17
DEK 5 GW M	0522761033	D.17
DEK 5 GW N	0522761034	D.17
DEK 5 GW O	0522761035	D.17
DEK 5 GW P	0522761036	D.17
DEK 5 GW Q	0522761037	D.17
DEK 5 GW R	0522761038	D.17
DEK 5 GW S	0522761039	D.17
DEK 5 GW T	0522761040	D.17
DEK 5 GW U	0522761041	D.17
DEK 5 GW V	0522761042	D.17
DEK 5 GW W	0522761043	D.17
DEK 5 GW W-STROM	0576261215	D.17
DEK 5 GW X	0522761044	D.17
DEK 5 GW Y	0522761045	D.17
DEK 5 GW Z	0522761046	D.17
DEK 5 NEUTRAL	0473360000	D.17
DEK 5 NEUTRAL FARBIG	0473390000	D.17
DEK 5 OR NEUTRAL	0473391690	D.17
DEK 5 RT NEUTRAL	0473391686	D.17
DEK 5 SONDERDRUCK	0490760000	D.17
DEK 5 SONDERDRUCK FARB.	0490790000	D.17
DEK 5 SW NEUTRAL	0473391694	D.17
DEK 5 VI NEUTRAL	0473391689	D.17
DFFC 0.22-0.35 SN 3000	1604230000	C.248
DFFC 0.22-0.35 SN E	1604250000	C.248
DFFC 0.5-1.0 SN 3000	1480000000	C.248
DFFC 0.5-1.0 SN E	1567060000	C.248
DFFC 1.5-2.5 SN 2500	1480100000	C.248
DFFC 1.5-2.5 SN E	1567070000	C.248
DFFC EW2	1803790000	D.21
DP VWGK 4 SW	1251030000	G.15
DP VWGK 6 SW	1250630000	G.15
DP VWGK4	1936430000	G.15
DP VWGK6	1965750000	G.15
DP WGK 10	1936440000	G.9
DP WGK 10 SW	1250570000	G.9
DP WGK 16	1936700000	G.10
DP WGK 16 SW	1250580000	G.11
DP WGK 25	1936710000	G.11
DP WGK 25 SW	1250590000	G.12
DP WGK 4	1936450000	G.9
DP WGK 4 SW	1297840000	G.8
DP WGK 50	1937030000	G.13
DP WGK 50 SW	1250610000	G.13
DP WGK 95	1937020000	G.13
DP WGK 95 SW	1250620000	G.14
DP WGKV 4	1936470000	G.8
DW RSV 1.6	9004530000	D.21

E

EBGH MSA ZB	2277700000	I.38
EBGH MSA ZF	2277710000	I.38
ESG 6.6/11 BHZ 5.00/02	1082490000	I.19
ESG 6.6/15 BHZ 5.00/03	1082520000	I.21
ESG 6.6/20 BHZ 5.00/04	1082540000	I.23
ESG 8/13.5/43.3 SAI AU	1912130000	I.19

G

GH MCZ1.5	2224220000	I.39
GH MCZUE1.5/UE	2312290000	I.39
GHDE MSA ZB FR 12	2279280000	I.38
GHDE MSA ZF	2279300000	I.38

H

H0,5/14S W	9004590000	C.158
H1,0/14S R	9018560000	C.158
H1,5/14S SW	9025240000	C.158
H2,5/14S BL	1333100000	C.158
HTF 28	9013090000	D.20
HTF 63	9013400000	D.20
HTF DFF	9014140000	D.20
HTF RSV 12	9013550000	D.20
HTF RSV 16 WI	9013560000	D.20

K

KO BV/SV7.62	1824410000	F.80
KOPL MCZ 1.5	2224040000	I.39
KSW 2,5 < 100MM SONDDR.	1629920000	D.16
KSW 2,5 < 150MM SONDDR.	1629940000	D.16
KSW 2,5 <100MM NEUTRAL	1629980000	D.16
KSW 2,5 <150MM NEUTRAL	1630000000	D.16
KSW 2,5 <50MM NEUTRAL	1629960000	D.16
KSW 2,5 16/3,5 1-16	1652260001	D.16
KSW 2,5 16/5 1-16	1630070001	D.16
KSW 2,5 16/5,08 W 1-16	1713970001	D.16
KSW 2,5 24/3,5 1-24	1652250001	D.16
KSW 2,5 24/5,00 W 1-24	1713980001	D.16
KSW 2,5 24/5,08 W 1-24	1713990001	D.16
KSW 2,5 8/5,00 W 1-8	1700660001	D.16
KSW 2,5 8/5,08 1-8	1630100001	D.16
KSW 2.5 < 50MM SDR	1629900000	D.16
KSW 4 < 100MM SDR	1629930000	D.16
KSW 4 < 150MM SONDDR.	1629950000	D.16
KSW 4 < 50MM SDR	1629910000	D.16
KSW 4 <100MM NEUTRAL	1629990000	D.16
KSW 4 <150MM NEUTRAL	1630010000	D.16
KSW 4 <50MM NEUTRAL	1629970000	D.16
KSW 4 12/7,62 1-12	1652270001	D.16
KSW 4 16/3,5 1-16	1630150001	D.16
KSW 4 16/5,00 W 1-16	1700700001	D.16
KSW 4 16/5,08 1-16	1630160001	D.16
KSW 4 24/3,5 W 1-24	1640410001	D.16
KSW 4 24/5,00 W 1-24	1700710001	D.16
KSW 4 24/5,08 1-24	1630180001	D.16
KSW 4 8/3,5 1-8	1630190001	D.16
KSW 4 8/5,00 W 1-8	1700670001	D.16
KSW 4 8/5,08 1-8	1630200001	D.16
KSW 4 8/7,62 W 1-8	1700680001	D.16

L

LHZ-SMT L 1.5SN BK BX	1137870000	I.17
LHZ-SMT L 1.5SN BK RL	2418580000	I.17
LHZ-SMT R 1.5SN BK BX	1137880000	I.17
LHZ-SMT R 1.5SN BK RL	2418590000	I.17
LKSC M2,9x13VZ	4011200000	I.44
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LL 5.00/03/90 3.2SN OR BX	1934280000	B.38
LL 5.00/04/90 3.2SN OR BX	1001720000	B.38
LL 5.00/05/90 3.2SN OR BX	1001730000	B.38
LL 5.00/06/90 3.2SN OR BX	1001740000	B.38
LL 5.00/07/90 3.2SN OR BX	1001750000	B.38
LL 5.00/08/90 3.2SN OR BX	1001760000	B.38
LL 5.00/09/90 3.2SN OR BX	1001770000	B.38
LL 5.00/10/90 3.2SN OR BX	1001780000	B.38
LL 5.00/11/90 3.2SN OR BX	1001790000	B.38
LL 5.00/12/90 3.2SN OR BX	1001800000	B.38
LL 5.00/13/90 3.2SN OR BX	1251330000	B.38
LL 5.00/14/90 3.2SN OR BX	1001810000	B.38
LL 5.00/15/90 3.2SN OR BX	1251340000	B.38
LL 5.00/16/90 3.2SN OR BX	1001820000	B.38
LL 5.00/17/90 3.2SN OR BX	1251350000	B.38
LL 5.00/18/90 3.2SN OR BX	1251360000	B.38
LL 5.00/19/90 3.2SN OR BX	1251370000	B.38
LL 5.00/20/90 3.2SN OR BX	1251380000	B.38
LL 5.00/21/90 3.2SN OR BX	1251390000	B.38
LL 5.00/22/90 3.2SN OR BX	1251410000	B.38
LL 5.00/23/90 3.2SN OR BX	1251420000	B.38
LL 5.00/24/90 3.2SN OR BX	1001830000	B.38
LL 5.08/02/90 3.2SN OR BX	1934250000	B.39
LL 5.08/03/90 3.2SN OR BX	1934260000	B.39
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LL 5.08/05/90 3.2SN OR BX	1001860000	B.39
LL 5.08/06/90 3.2SN OR BX	1001870000	B.39
LL 5.08/07/90 3.2SN OR BX	1001880000	B.39
LL 5.08/08/90 3.2SN OR BX	1001890000	B.39
LL 5.08/09/90 3.2SN OR BX	1001900000	B.39
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LL 5.08/11/90 3.2SN OR BX	1001920000	B.39
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LL 5.08/14/90 3.2SN OR BX	1001950000	B.39
LL 5.08/15/90 3.2SN OR BX	1001960000	B.39
LL 5.08/16/90 3.2SN OR BX	1001970000	B.39
LL 5.08/17/90 3.2SN OR BX	1001980000	B.39
LL 5.08/18/90 3.2SN OR BX	1001990000	B.39
LL 5.08/19/90 3.2SN OR BX	1002000000	B.39
LL 5.08/20/90 3.2SN OR BX	1002010000	B.39
LL 5.08/21/90 3.2SN OR BX	1002020000	B.39
LL 5.08/22/90 3.2SN OR BX	1002030000	B.39
LL 5.08/23/90 3.2SN OR BX	1002040000	B.39
LL 5.08/24/90 3.2SN OR BX	1002050000	B.39
LL 9.52/02/90 5.0SN OR BX	1724680000	B.44
LL 9.52/03/90 5.0SN OR BX	1724690000	B.44
LL1N 5.00/02/90 3.2SN OR BX	1975250000	B.40
LL1N 5.00/03/90 3.2SN OR BX	1975260000	B.40
LL1N 5.00/04/90 3.2SN OR BX	1975270000	B.40
LL1N 5.00/05/90 3.2SN OR BX	1975280000	B.40
LL1N 5.00/06/90 3.2SN OR BX	1975290000	B.40
LL1N 5.00/07/90 3.2SN OR BX	1975300000	B.40
LL1N 5.00/08/90 3.2SN OR BX	1975310000	B.40
LL1N 5.00/09/90 3.2SN OR BX	1975320000	B.40

Type	Order No.	Page
LL1N 5.00/10/90 3.2SN OR BX	1975330000	B.40
LL1N 5.00/11/90 3.2SN OR BX	1975340000	B.40
LL1N 5.00/12/90 3.2SN OR BX	1975350000	B.40
LL1N 5.08/02/90 3.2SN OR BX	1975360000	B.42
LL1N 5.08/03/90 3.2SN OR BX	1975370000	B.42
LL1N 5.08/04/90 3.2SN OR BX	1975380000	B.42
LL1N 5.08/05/90 3.2SN OR BX	1975390000	B.42
LL1N 5.08/06/90 3.2SN OR BX	1975400000	B.42
LL1N 5.08/07/90 3.2SN OR BX	1975410000	B.42
LL1N 5.08/08/90 3.2SN OR BX	1975420000	B.42
LL1N 5.08/09/90 3.2SN OR BX	1975430000	B.42
LL1N 5.08/10/90 3.2SN OR BX	1975440000	B.42
LL1N 5.08/11/90 3.2SN OR BX	1975460000	B.42
LL1N 5.08/12/90 3.2SN OR BX	1975470000	B.42
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LL2N 5.00/08/90 3.2SN OR BX	1977260000	B.41
LL2N 5.00/12/90 3.2SN OR BX	1977280000	B.41
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LL2N 9.52/08/90 5.0SN OR BX	1926360000	B.45
LL2N 9.52/12/90 5.0SN OR BX	1926370000	B.45
LL2N 9.52/16/90 5.0SN OR BX	1926380000	B.45
LL2N 9.52/20/90 5.0SN OR BX	1926390000	B.45
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LL3R 5.08/12/90 3.2SN OR BX	1979060000	B.43
LL3R 5.08/18/90 3.2SN OR BX	1979080000	B.43
LL3R 5.08/24/90 3.2SN OR BX	1979100000	B.43
LL3R 5.08/30/90 3.2SN OR BX	1979120000	B.43
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LL3R 5.08/42/90 3.2SN OR BX	1979160000	B.43
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LM2N 5.08/40/90 3.5SN OR BX	1769030000	B.22
LM2N 5.08/42/90 3.5SN OR BX	1769040000	B.22
LM2N 5.08/44/90 3.5SN OR BX	1769050000	B.22
LM2N 5.08/46/90 3.5SN OR BX	1769060000	B.22
LM2N 5.08/48/90 3.5SN OR BX	1769070000	B.22
LM2NZF 5.08/04/135 3.5SN OR BX	1764810000	B.102
LM2NZF 5.08/06/135 3.5SN OR BX	1764820000	B.102
LM2NZF 5.08/08/135 3.5SN OR BX	1764830000	B.102
LM2NZF 5.08/10/135 3.5SN OR BX	1764840000	B.102
LM2NZF 5.08/12/135 3.5SN OR BX	1764850000	B.102
LM2NZF 5.08/14/135 3.5SN OR BX	1764860000	B.102
LM2NZF 5.08/16/135 3.5SN OR BX	1764870000	B.102
LM2NZF 5.08/18/135 3.5SN OR BX	1764880000	B.102
LM2NZF 5.08/20/135 3.5SN OR BX	1758020000	B.102
LM2NZF 5.08/22/135 3.5SN OR BX	1764890000	B.102
LM2NZF 5.08/24/135 3.5SN OR BX	1764900000	B.102
LM2NZF 5.08/26/135 3.5SN OR BX	1782500000	B.102
LM2NZF 5.08/28/135 3.5SN OR BX	1782510000	B.102
LM2NZF 5.08/30/135 3.5SN OR BX	1782520000	B.102
LM2NZF 5.08/32/135 3.5SN OR BX	1782530000	B.102
LM2NZF 5.08/34/135 3.5SN OR BX	1782540000	B.102
LM2NZF 5.08/36/135 3.5SN OR BX	1782550000	B.102
LM3R 5.08/06/90 3.5SN OR BX	1769620000	B.23
LM3R 5.08/09/90 3.5SN OR BX	1769630000	B.23
LM3R 5.08/12/90 3.5SN OR BX	1769640000	B.23
LM3R 5.08/15/90 3.5SN OR BX	1769650000	B.23
LM3R 5.08/18/90 3.5SN OR BX	1769660000	B.23
LM3R 5.08/21/90 3.5SN OR BX	1769670000	B.23
LM3R 5.08/24/90 3.5SN OR BX	1769680000	B.23
LM3R 5.08/27/90 3.5SN OR BX	1769690000	B.23
LM3R 5.08/30/90 3.5SN OR BX	1769700000	B.23
LM3R 5.08/33/90 3.5SN OR BX	1769710000	B.23
LM3R 5.08/36/90 3.5SN OR BX	1769720000	B.23
LM3R 5.08/39/90 3.5SN OR BX	1769730000	B.23
LM3R 5.08/42/90 3.5SN OR BX	1769740000	B.23
LM3R 5.08/45/90 3.5SN OR BX	1769750000	B.23
LM3R 5.08/48/90 3.5SN OR BX	1769760000	B.23
LM3R 5.08/51/90 3.5SN OR BX	1769770000	B.23
LM3R 5.08/54/90 3.5SN OR BX	1769780000	B.23
LM3R 5.08/57/90 3.5SN OR BX	1769790000	B.23
LM3R 5.08/60/90 3.5SN OR BX	1769800000	B.23
LM3R 5.08/63/90 3.5SN OR BX	1769810000	B.23
LM3R 5.08/66/90 3.5SN OR BX	1769820000	B.23
LM3R 5.08/69/90 3.5SN OR BX	1769830000	B.23
LM3R 5.08/72/90 3.5SN OR BX	1769840000	B.23

Type	Order No.	Page
LM3RZF 5.08/06/135 3.5SN OR BX	1764910000	B.103
LM3RZF 5.08/09/135 3.5SN OR BX	1764920000	B.103
LM3RZF 5.08/12/135 3.5SN OR BX	1764930000	B.103
LM3RZF 5.08/15/135 3.5SN OR BX	1764940000	B.103
LM3RZF 5.08/18/135 3.5SN OR BX	1764950000	B.103
LM3RZF 5.08/21/135 3.5SN OR BX	1758040000	B.103
LM3RZF 5.08/24/135 3.5SN OR BX	1764960000	B.103
LM3RZF 5.08/27/135 3.5SN OR BX	1764970000	B.103
LM3RZF 5.08/30/135 3.5SN OR BX	1758030000	B.103
LM3RZF 5.08/33/135 3.5SN OR BX	1764980000	B.103
LM3RZF 5.08/36/135 3.5SN OR BX	1764990000	B.103
LM3RZF 5.08/48/135 3.5SN OR BX	1758050000	B.103
LMZF 10/10/135 3.50R	1953550000	B.100
LMZF 10/11/135 3.50R	1953560000	B.100
LMZF 10/12/135 3.50R	1953570000	B.100
LMZF 10/2/135 3.50R	1953470000	B.100
LMZF 10/3/135 3.50R	1953480000	B.100
LMZF 10/4/135 3.50R	1953490000	B.100
LMZF 10/5/135 3.50R	1953500000	B.100
LMZF 10/6/135 3.50R	1953510000	B.100
LMZF 10/7/135 3.50R	1953520000	B.100
LMZF 10/8/135 3.50R	1953530000	B.100
LMZF 10/9/135 3.50R	1953540000	B.100
LMZF 5/10/135 3.50R	1914070000	B.96
LMZF 5/11/135 3.50R	1914080000	B.96
LMZF 5/12/135 3.50R	1914090000	B.96
LMZF 5/13/135 3.50R	1960140000	B.96
LMZF 5/14/135 3.50R	1960150000	B.96
LMZF 5/15/135 3.50R	1960160000	B.96
LMZF 5/16/135 3.50R	1960170000	B.96
LMZF 5/17/135 3.50R	1960180000	B.96
LMZF 5/18/135 3.50R	1960190000	B.96
LMZF 5/19/135 3.50R	1960200000	B.96
LMZF 5/2/135 3.50R	1913780000	B.96
LMZF 5/20/135 3.50R	1960210000	B.96
LMZF 5/21/135 3.50R	1960220000	B.96
LMZF 5/22/135 3.50R	1960230000	B.96
LMZF 5/23/135 3.50R	1960240000	B.96
LMZF 5/24/135 3.50R	1960250000	B.96
LMZF 5/3/135 3.50R	1913820000	B.96
LMZF 5/4/135 3.50R	1913960000	B.96
LMZF 5/5/135 3.50R	1914000000	B.96
LMZF 5/6/135 3.50R	1914020000	B.96
LMZF 5/7/135 3.50R	1914030000	B.96
LMZF 5/8/135 3.50R	1914040000	B.96
LMZF 5/9/135 3.50R	1914050000	B.96
LMZF 7/10/135 3.50R	1952650000	B.98
LMZF 7/11/135 3.50R	1952660000	B.98
LMZF 7/12/135 3.50R	1952670000	B.98
LMZF 7/2/135 3.50R	1952570000	B.98
LMZF 7/3/135 3.50R	1952580000	B.98
LMZF 7/4/135 3.50R	1952590000	B.98
LMZF 7/5/135 3.50R	1952600000	B.98
LMZF 7/6/135 3.50R	1952610000	B.98
LMZF 7/7/135 3.50R	1952620000	B.98
LMZF 7/8/135 3.50R	1952630000	B.98
LMZF 7/9/135 3.50R	1952640000	B.98
LMZFL 10/10/135 3.50R	1954010000	B.101
LMZFL 10/11/135 3.50R	1954020000	B.101
LMZFL 10/12/135 3.50R	1954030000	B.101
LMZFL 10/2/135 3.50R	1953930000	B.101
LMZFL 10/3/135 3.50R	1953940000	B.101
LMZFL 10/4/135 3.50R	1953950000	B.101
LMZFL 10/5/135 3.50R	1953960000	B.101
LMZFL 10/6/135 3.50R	1953970000	B.101
LMZFL 10/7/135 3.50R	1953980000	B.101
LMZFL 10/8/135 3.50R	1953990000	B.101
LMZFL 10/9/135 3.50R	1954000000	B.101
LMZFL 5/10/135 3.50R	1914860000	B.97
LMZFL 5/11/135 3.50R	1914990000	B.97
LMZFL 5/12/135 3.50R	1915030000	B.97
LMZFL 5/13/135 3.50R	1958320000	B.97
LMZFL 5/14/135 3.50R	1958330000	B.97
LMZFL 5/15/135 3.50R	1958350000	B.97
LMZFL 5/16/135 3.50R	1958370000	B.97
LMZFL 5/17/135 3.50R	1958390000	B.97
LMZFL 5/18/135 3.50R	1958410000	B.97
LMZFL 5/19/135 3.50R	1958440000	B.97
LMZFL 5/2/135 3.50R	1914560000	B.97
LMZFL 5/20/135 3.50R	1958450000	B.97
LMZFL 5/21/135 3.50R	1958470000	B.97
LMZFL 5/22/135 3.50R	1958490000	B.97
LMZFL 5/23/135 3.50R	1958500000	B.97
LMZFL 5/24/135 3.50R	1958510000	B.97
LMZFL 5/3/135 3.50R	1914580000	B.97
LMZFL 5/4/135 3.50R	1914590000	B.97
LMZFL 5/5/135 3.50R	1914600000	B.97
LMZFL 5/6/135 3.50R	1914640000	B.97
LMZFL 5/7/135 3.50R	1914720000	B.97
LMZFL 5/8/135 3.50R	1914790000	B.97
LMZFL 5/9/135 3.50R	1914830000	B.97
LMZFL 7/10/135 3.50R	1953090000	B.99
LMZFL 7/11/135 3.50R	1953100000	B.99
LMZFL 7/12/135 3.50R	1953110000	B.99
LMZFL 7/2/135 3.50R	1953010000	B.99
LMZFL 7/3/135 3.50R	1953020000	B.99
LMZFL 7/4/135 3.50R	1953030000	B.99
LMZFL 7/5/135 3.50R	1953040000	B.99
LMZFL 7/6/135 3.50R	1953050000	B.99
LMZFL 7/7/135 3.50R	1953060000	B.99
LMZFL 7/8/135 3.50R	1953070000	B.99
LMZFL 7/9/135 3.50R	1953080000	B.99
LP 5.00/02/180 3.2SN OR BX	1761330000	B.25
LP 5.00/03/180 3.2SN OR BX	1761340000	B.25
LP 5.08/02/135 3.2 OR	1595730000	B.27
LP 5.08/02/180 3.2SN OR BX	1753810000	B.27
LP 5.08/03/135 3.2 OR	1595690000	B.27
LP 5.08/03/180 3.2SN OR BX	1753820000	B.27
LP 5.08/05/135 3.2 OR	1843150000	B.27
LP 5.08/06/135 3.2 OR	1759360000	B.27
LP 5.08/07/135 3.2 OR	1843160000	B.27
LP 5.08/08/135 3.2 OR	1752940000	B.27
LP 5.08/09/135 3.2 OR	1843170000	B.27
LP 5.08/10/135 3.2 OR	1843180000	B.27
LP 5.08/11/135 3.2 OR	1843190000	B.27
LP 5.08/12/135 3.2 OR	1843200000	B.27
LP 7.50/02/180 3.2SN OR BX	1761370000	B.35
LP 7.50/02/90 3.2SN OR BX	1594420000	B.34
LP 7.50/03/180 3.2SN OR BX	1761380000	B.35
LP 7.50/03/90 3.2SN OR BX	1594430000	B.34
LP 7.62/02/180 3.2SN OR BX	1753890000	B.37
LP 7.62/02/90 3.2SN OR BX	1594460000	B.36
LP 7.62/03/180 3.2SN OR BX	1753900000	B.37
LP 7.62/03/90 3.2SN OR BX	1594470000	B.36
LP1H 5.08/02/90 3.2SN OR BX	1640910000	B.31
LP1H 5.08/03/90 3.2SN OR BX	1640920000	B.31
LP1N 5.00/02/90 3.2SN OR BX	1640870000	B.28
LP1N 5.00/03/90 3.2SN OR BX	1640880000	B.28
LP1N 5.08/02/90 3.2SN OR BX	1640830000	B.30
LP1N 5.08/03/90 3.2SN OR BX	1640840000	B.30
LP2HR 5.08/04/90 3.2SN OR BX	1636210000	B.31
LP2HR 5.08/06/90 3.2SN OR BX	1636220000	B.31
LP2HR 5.08/08/90 3.2SN OR BX	1636230000	B.31
LP2HR 5.08/10/90 3.2SN OR BX	1636240000	B.31
LP2HR 5.08/12/90 3.2SN OR BX	1844660000	B.31
LP2HR 5.08/14/90 3.2SN OR BX	1844670000	B.31
LP2HR 5.08/16/90 3.2SN OR BX	1636250000	B.31
LP2HR 5.08/18/90 3.2SN OR BX	1844680000	B.31
LP2HR 5.08/20/90 3.2SN OR BX	1636260000	B.31
LP2HR 5.08/24/90 3.2SN OR BX	1636270000	B.31
LP2HR 5.08/26/90 3.2SN OR BX	1844690000	B.31
LP2HR 5.08/28/90 3.2SN OR BX	1844700000	B.31
LP2HR 5.08/30/90 3.2SN OR BX	1636280000	B.31
LP2HR 5.08/32/90 3.2SN OR BX	1844710000	B.31
LP2HR 5.08/34/90 3.2SN OR BX	1844720000	B.31
LP2HR 5.08/36/90 3.2SN OR BX	1844730000	B.31
LP2HR 5.08/38/90 3.2SN OR BX	1844740000	B.31
LP2HR 5.08/40/90 3.2SN OR BX	1844750000	B.31
LP2HR 5.08/42/90 3.2SN OR BX	1844760000	B.31
LP2HR 5.08/44/90 3.2SN OR BX	1844770000	B.31
LP2HR 5.08/46/90 3.2SN OR BX	1844780000	B.31
LP2HR 5.08/48/90 3.2SN OR BX	1646480000	B.31
LP2N 5.00/04/90 3.2SN OR BX	1635160000	B.29
LP2N 5.00/06/90 3.2SN OR BX	1625560000	B.29
LP2N 5.00/08/90 3.2SN OR BX	1596450000	B.29
LP2N 5.00/10/90 3.2SN OR BX	1596490000	B.29
LP2N 5.00/16/90 3.2SN OR BX	1596550000	B.29
LP2N 5.00/20/90 3.2SN OR BX	1596590000	B.29
LP2N 5.00/24/90 3.2SN OR BX	1596630000	B.29
LP2N 5.00/30/90 3.2SN OR BX	1596670000	B.29
LP2N 5.08/04/90 3.2SN OR BX	1635140000	B.31
LP2N 5.08/06/90 3.2SN OR BX	1625540000	B.31
LP2N 5.08/08/90 3.2SN OR BX	1596460000	B.31
LP2N 5.08/10/90 3.2SN OR BX	1596510000	B.31
LP2N 5.08/12/90 3.2SN OR BX	1844510000	B.31
LP2N 5.08/14/90 3.2SN OR BX	1844520000	B.31
LP2N 5.08/16/90 3.2SN OR BX	1596530000	B.31
LP2N 5.08/18/90 3.2SN OR BX	1844530000	B.31
LP2N 5.08/20/90 3.2SN OR BX	1596570000	B.31
LP2N 5.08/22/90 3.2SN OR BX	1844540000	B.31
LP2N 5.08/24/90 3.2SN OR BX	1596610000	B.31
LP2N 5.08/26/90 3.2SN OR BX	1844550000	B.31
LP2N 5.08/28/90 3.2SN OR BX	1844560000	B.31
LP2N 5.08/30/90 3.2SN OR BX	1596650000	B.31
LP2N 5.08/32/90 3.2SN OR BX	1844570000	B.31
LP2N 5.08/34/90 3.2SN OR BX	1844580000	B.31
LP2N 5.08/36/90 3.2SN OR BX	1844590000	B.31
LP2N 5.08/38/90 3.2SN OR BX	1844600000	B.31
LP2N 5.08/40/90 3.2SN OR BX	1844610000	B.31
LP2N 5.08/42/90 3.2SN OR BX	1844620000	B.31
LP2N 5.08/44/90 3.2SN OR BX	1844630000	B.31
LP2N 5.08/46/90 3.2SN OR BX	1844640000	B.31
LP2N 5.08/48/90 3.2SN OR BX	1844650000	B.31
LP3R 5.08/06/90 3.2SN OR BX	1653930000	B.32
LP3R 5.08/09/90 3.2SN OR BX	1596320000	B.32
LP3R 5.08/12/90 3.2SN OR BX	1596340000	B.32
LP3R 5.08/15/90 3.2SN OR BX	1596360000	B.32
LP3R 5.08/18/90 3.2SN OR BX	1596380000	B.32
LP3R 5.08/21/90 3.2SN OR BX	1844790000	B.32
LP3R 5.08/24/90 3.2SN OR BX	1596400000	B.32
LP3R 5.08/27/90 3.2SN OR BX	1844800000	B.32
LP3R 5.08/30/90 3.2SN OR BX	1596420000	B.32
LP3R 5.08/33/90 3.2SN OR BX	1844810000	B.32
LP3R 5.08/36/90 3.2SN OR BX	1844820000	B.32
LP3R 5.08/39/90 3.2SN OR BX	1844830000	B.32
LP3R 5.08/42/90 3.2SN OR BX	1844840000	B.32
LP3R 5.08/45/90 3.2SN OR BX	1844850000	B.32
LP3R 5.08/48/90 3.2SN OR BX	1844860000	B.32
LP3R 5.08/51/90 3.2SN OR BX	1844870000	B.32
LP3R 5.08/54/90 3.2SN OR BX	1844880000	B.32
LP3R 5.08/57/90 3.2SN OR BX	1844890000	B.32
LP3R 5.08/60/90 3.2SN OR BX	1844900000	B.32
LP3R 5.08/63/90 3.2SN OR BX	1844910000	B.32
LP3R 5.08/66/90 3.2SN OR BX	1844920000	B.32
LP3R 5.08/69/90 3.2SN OR BX	1844930000	B.32
LP3R 5.08/72/90 3.2SN OR BX	1844940000	B.32
LP5.00/10/135 3.2 OR	1843260000	B.25
LP5.00/11/135 3.2 OR	1843270000	B.25
LP5.00/12/135 3.2 OR	1843280000	B.25
LP5.00/2/135 3.2 OR	1595750000	B.25
LP5.00/3/135 3.2 OR	1595710000	B.25
LP5.00/4/135 3.2 OR	1791710000	B.25
LP5.00/5/135 3.2 OR	1843210000	B.25
LP5.00/6/135 3.2 OR	1843220000	B.25
LP5.00/7/135 3.2 OR	1843230000	B.25
LP5.00/8/135 3.2 OR	1843240000	B.25
LP5.00/9/135 3.2 OR	1843250000	B.25
LP7.50/2/135 3.2 OR	1595770000	B.35
LP7.50/3/135 3.2 OR	1595810000	B.35
LP7.62/2/135 3.2 OR	1595790000	B.37
LP7.62/3/135 3.2 OR	1595830000	B.37
LPA BZ2	1497260000	D.14
LPA BZ3	1497360000	D.14
LPA FA2	1495960000	D.14
LPA FA2 BZ	1496160000	D.14
LPA FA3	1496060000	D.14
LPA FA3 BZ	1496260000	D.14
LPA QB 10	1472500000	D.15
LPA QB 17	1584770000	D.15
LPA QB 2	1472200000	D.15
LPA QB 24	1472600000	D.15
LPA QB 3	1472300000	D.15
LPA QB 4	1472400000	D.15
LPA SI STI3.2 OR	1495060000	D.13
LPA TR STI3.2 OR	1495460000	D.13
LPBB MU OR	1747530000	D.7
LPBB MU SW	1747550000	D.7
LPBB OR	1747540000	D.7
LPBB SW	1747560000	D.7
LPHP 7.XX OR	1753440000	B.24
LPP 5.00/02/90 3.2SN OR BX	1594340000	B.24
LPP 5.00/03/90 3.2SN OR BX	1594350000	B.24
LPP 5.08/02/90 3.2SN OR BX	1594400000	B.26
LPP 5.08/03/90 3.2SN OR BX	1594410000	B.26
LPP 7.50/02/90 3.2SN OR BX	1594440000	B.35
LPP 7.50/03/90 3.2SN OR BX	1594450000	B.35
LPP 7.62/02/90 3.2SN OR BX	1594480000	B.37
LPP 7.62/03/90 3.2SN OR BX	1594490000	B.37
LPTR 5.08/01/90 3.2SN OR BX	1755180000	B.33
LPZP 1.27/90 OR	1747490000	D.12
LPZP 1.27/90 SW	1747510000	D.12
LPZP 2.54/135 OR	1753740000	D.12
LPZP 2.54/135 SW	1753750000	D.12
LPZP 2.54/90 OR	1747480000	D.12
LPZP 2.54/90 SW	1747500000	D.12
LPZP1N 2.54 OR	1747470000	D.13
LPZP1N 2.54 SW	1747520000	D.13
LS 5.08/02/90 3.5SN OR BX	1912520000	B.14
LS 5.08/03/90 3.5SN OR BX	1912530000	B.14
LS 5.08/04/90 3.5SN OR BX	1912540000	B.14
LS 5.08/05/90 3.5SN OR BX	1912560000	B.14
LS 5.08/06/90 3.5SN OR BX	1912570000	B.14
LS 5.08/07/90 3.5SN OR BX	1912850000	B.14
LS 5.08/08/90 3.5SN OR BX	1912890000	B.14
LS 5.08/09/90 3.5SN OR BX	1912900000	B.14
LS 5.08/10/90 3.5SN OR BX	1912910000	B.14
LS 5.08/11/90 3.5SN OR BX	1912930000	B.14
LS 5.08/12/90 3.5SN OR BX	1912940000	B.14
LSF-SMD 3.50/02/180 SN BK RL	1250360000	B.58
LSF-SMD 3.50/03/180 SN BK RL	1250370000	B.58
LSF-SMD 3.50/04/180 SN BK RL	1250380000	B.58
LSF-SMD 3.50/05/180 SN BK RL	1250390000	B.58
LSF-SMD 3.50/06/180 SN BK RL	1250410000	B.58
LSF-SMD 3.50/07/180 SN BK RL	1250420000	B.58
LSF-SMD 3.50/08/180 SN BK RL	1250430000	B.58
LSF-SMD 3.50/09/180 SN BK RL	1250440000	B.58
LSF-SMD 3.50/10/180 SN BK RL	1250450000	B.58
LSF-SMD 3.50/11/180 SN BK RL	1250460000	B.58
LSF-SMD 3.50/12/180 SN BK RL	1250470000	B.58
LSF-SMT 3.50/02/135 1.5SN BK RL	1887550000	B.63
LSF-SMT 3.50/02/135 1.5SN BK TU	1885180000	B.62
LSF-SMT 3.50/02/135 3.5SN BK RL	1887340000	B.63
LSF-SMT 3.50/02/135 3.5SN BK TU	1885650000	B.62
LSF-SMT 3.50/02/180 1.5SN BK RL	1874490000	B.65
LSF-SMT 3.50/02/180 1.5SN BK TU	1870640000	B.64
LSF-SMT 3.50/02/180 3.5SN BK RL	1874510000	B.65
LSF-SMT 3.50/02/180 3.5SN BK TU	1825640000	B.64
LSF-SMT 3.50/02/90 1.5SN BK RL	1874690000	B.61
LSF-SMT 3.50/02/90 1.5SN BK TU	1870500000	B.60
LSF-SMT 3.50/02/90 3.5SN BK RL	1874990000	B.61
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LSF-SMT 3.50/03/135 1.5SN BK RL	1887560000	B.63
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LSF-SMT 3.50/03/135 3.5SN BK RL	1887350000	B.63
LSF-SMT 3.50/03/135 3.5SN BK TU	1885660000	B.62
LSF-SMT 3.50/03/180 1.5SN BK RL	1874300000	B.65
LSF-SMT 3.50/03/180 1.5SN BK TU	1870650000	B.64

Type	Order No.	Page
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LSF-SMT 3.50/04/135 3.5SN BK RL	1887360000	B.63
LSF-SMT 3.50/04/135 3.5SN BK TU	1885670000	B.62
LSF-SMT 3.50/04/180 1.5SN BK RL	1874280000	B.65
LSF-SMT 3.50/04/180 1.5SN BK TU	1870660000	B.64
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LSF-SMT 3.50/05/135 3.5SN BK TU	1885680000	B.62
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Type	Order No.	Page
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LSF-SMT 5.08/05/90 1.5SN BK RL	1876210000	B.79
LSF-SMT 5.08/05/90 1.5SN BK TU	1869700000	B.78
LSF-SMT 5.08/05/90 3.5SN BK RL	1876190000	B.79
LSF-SMT 5.08/05/90 3.5SN BK TU	1824840000	B.78
LSF-SMT 5.08/06/135 1.5SN BK RL	1888750000	B.81
LSF-SMT 5.08/06/135 1.5SN BK TU	1884770000	B.80
LSF-SMT 5.08/06/135 3.5SN BK RL	1888840000	B.81
LSF-SMT 5.08/06/135 3.5SN BK TU	1885060000	B.80
LSF-SMT 5.08/06/180 1.5SN BK RL	1876180000	B.83
LSF-SMT 5.08/06/180 1.5SN BK TU	1870250000	B.82
LSF-SMT 5.08/06/180 3.5SN BK RL	1876170000	B.83
LSF-SMT 5.08/06/180 3.5SN BK TU	1826100000	B.82
LSF-SMT 5.08/06/90 1.5SN BK RL	1876150000	B.79
LSF-SMT 5.08/06/90 1.5SN BK TU	1869710000	B.78
LSF-SMT 5.08/06/90 3.5SN BK RL	1876120000	B.79
LSF-SMT 5.08/06/90 3.5SN BK TU	1824850000	B.78
LSF-SMT 5.08/07/135 1.5SN BK RL	1888760000	B.81
LSF-SMT 5.08/07/135 1.5SN BK TU	1884780000	B.80
LSF-SMT 5.08/07/135 3.5SN BK RL	1888870000	B.81
LSF-SMT 5.08/07/135 3.5SN BK TU	1885070000	B.80
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LSF-SMT 5.08/07/180 3.5SN BK RL	1875750000	B.83
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LSF-SMT 7.50/02/135 3.5SN BK RL	1888970000	B.87
LSF-SMT 7.50/02/135 3.5SN BK TU	1886110000	B.86
LSF-SMT 7.50/02/180 1.5SN BK RL	1875500000	B.89
LSF-SMT 7.50/02/180 1.5SN BK TU	1870280000	B.88
LSF-SMT 7.50/02/180 3.5SN BK RL	1875490000	B.89
LSF-SMT 7.50/02/180 3.5SN BK TU	1826130000	B.88
LSF-SMT 7.50/02/90 1.5SN BK RL	1875480000	B.85
LSF-SMT 7.50/02/90 1.5SN BK TU	1869740000	B.84

Type	Order No.	Page
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LSF-SMT 7.50/03/180 3.5SN BK RL	1875450000	B.89
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LSF-SMT 7.50/04/90 1.5SN BK TU	1869760000	B.84
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LU 10.16/07/90 4.5SN BK BX	1226250000	E.6
LU 10.16/08/90 4.5SN BK BX	1226260000	E.6
LU 10.16/09/90 4.5SN BK BX	1226270000	E.6
LU 10.16/10/90 4.5SN BK BX	1226280000	E.6
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LXB 15.00/05/90 4.5SN BK BX	1226550000	E.11
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LXB 15.00/07/90 4.5SN BK BX	1226570000	E.11
LXB 15.00/08/90 4.5SN BK BX	1226580000	E.11
LXBL 15.00/01/90 4.5SN BK BX	1226590000	E.11
LXXX 15.00/01/90 4.5SN BK BX	1047120000	E.12
LXXX 15.00/01/90F 4.5SN BK BX	1047280000	E.13
LXXX 15.00/01/90FL 4.5SN BK BX	1047440000	E.13
LXXX 15.00/01/90FR 4.5SN BK BX	1047600000	E.13
LXXX 15.00/02/90 4.5SN BK BX	1047130000	E.12
LXXX 15.00/02/90F 4.5SN BK BX	1047290000	E.13
LXXX 15.00/02/90FL 4.5SN BK BX	1047450000	E.13
LXXX 15.00/02/90FR 4.5SN BK BX	1047610000	E.13
LXXX 15.00/03/90 4.5SN BK BX	1047140000	E.12
LXXX 15.00/03/90F 4.5SN BK BX	1047300000	E.13
LXXX 15.00/03/90FL 4.5SN BK BX	1047460000	E.13
LXXX 15.00/03/90FR 4.5SN BK BX	1047620000	E.13
LXXX 15.00/04/90 4.5SN BK BX	1047150000	E.12
LXXX 15.00/04/90F 4.5SN BK BX	1047310000	E.13
LXXX 15.00/04/90FL 4.5SN BK BX	1047470000	E.13
LXXX 15.00/04/90FR 4.5SN BK BX	1047630000	E.13

M

MCZ 5	8857560000	I.39
MF 5/7.5 MC NEUTRAL	1877680000	I.17
MHS 6	1925740000	I.38
MHZ 6	1925760000	I.38
MOFU 35/LO/1 SW	0646210000	J.2
MTA 30 BK	1168970000	J.2
MTA 45 BK	1962250000	J.2

P

PF RS 100 GR 2000MM A.1	4010870000	I.48
PF RS 100 OR 155 MM	4148400000	I.48
PF RS 100 OR 2000MM A.1	4144870000	I.48
PF RS 122 OR 2000MM	1155940000	I.49
PF RS 45 GR 1000MM	8140880000	I.44
PF RS 45 GR 2000MM	4027750000	I.44
PF RS 45 OR 2000MM	4340430000	I.44
PF RS 80 GR 2000MM	4183130000	I.46
PF RS 80 OR 2000MM	4157440000	I.46
PF RS 90 GR 2000MM	4051810000	I.47
PF RS 90 OR 2000MM	4053240000	I.47
PM 5.00/02/90 3.5SN OR BX	1791610000	B.56
PM 5.00/03/90 3.5SN OR BX	1791620000	B.56
PM 5.00/04/90 3.5SN OR BX	1234650000	B.56
PM 5.00/05/90 3.5SN OR BX	1234670000	B.56
PM 5.00/06/90 3.5SN OR BX	1234680000	B.56
PM 5.00/07/90 3.5SN OR BX	1234690000	B.56
PM 5.00/08/90 3.5SN OR BX	1234700000	B.56
PM 5.00/09/90 3.5SN OR BX	1234710000	B.56
PM 5.00/10/90 3.5SN OR BX	1234720000	B.56
PM 5.00/11/90 3.5SN OR BX	1234730000	B.56
PM 5.00/12/90 3.5SN OR BX	1234740000	B.56
PM 5.08/02/90 3.5SN OR BX	1760490000	B.57
PM 5.08/03/90 3.5SN OR BX	1760500000	B.57
PM 5.08/04/90 3.5SN OR BX	1234550000	B.57
PM 5.08/05/90 3.5SN OR BX	1234570000	B.57
PM 5.08/06/90 3.5SN OR BX	1234580000	B.57
PM 5.08/07/90 3.5SN OR BX	1234590000	B.57
PM 5.08/08/90 3.5SN OR BX	1234600000	B.57
PM 5.08/09/90 3.5SN OR BX	1234610000	B.57
PM 5.08/10/90 3.5SN OR BX	1234620000	B.57
PM 5.08/11/90 3.5SN OR BX	1234630000	B.57
PM 5.08/12/90 3.5SN OR BX	1234640000	B.57
PS 2.0 MC	0310000000	B.33
PS 3.50/02/90 3.5SN OR BX	1912320000	B.54
PS 3.50/03/90 3.5SN OR BX	1912330000	B.54
PS 3.50/04/90 3.5SN OR BX	1912340000	B.54
PS 3.50/05/90 3.5SN OR BX	1912350000	B.54
PS 3.50/06/90 3.5SN OR BX	1912360000	B.54
PS 3.50/07/90 3.5SN OR BX	1912370000	B.54
PS 3.50/08/90 3.5SN OR BX	1912380000	B.54
PS 3.50/09/90 3.5SN OR BX	1912390000	B.54
PS 3.50/10/90 3.5SN OR BX	1912400000	B.54
PS 3.50/11/90 3.5SN OR BX	1912410000	B.54
PS 3.50/12/90 3.5SN OR BX	1912420000	B.54
PTSC KA 2.2X4.5 WN1412	1610740000	C.94
PTSC KB40X14	4019420000	I.48
PZ 1.5	9005990000	C.12
PZ 6/5	9011460000	F.68

R

RA MCZ1.5	2224240000	I.39
RF 108 OR	1020690000	I.49
RF 180	1324460000	I.46
RF 180 GR	1773400000	I.48
RF RS 70 LI/A2/0.SG	0119660000	I.45
RF RS 70 MI/A6	0213760000	I.45
RF RS 70 RE/A3/M.BEZ	0119560000	I.45
RF RS 70 RE/A4/0.BEZ	0126260000	I.45
RSV1,6 B12 GR	1416000000	C.265
RSV1,6 B18 GR	1417000000	C.265
RSV1,6 B24 GR	1418000000	C.265
RSV1,6 B36 GR BX	1419000000	C.265
RSV1,6 B4 GR	1413000000	C.265
RSV1,6 B6 GR	1414000000	C.265
RSV1,6 B9 GR	1415000000	C.265
RSV1,6 K0	1567430000	D.11
RSV1,6 LB12 GR 3,2 AU	1443200000	C.262
RSV1,6 LB12 GR 3,2 SN	1443300000	C.258
RSV1,6 LB18 GR 3,2 AU	1444200000	C.262
RSV1,6 LB18 GR 3,2 SN	1444300000	C.258
RSV1,6 LB24 GR 3,2 AU	1445200000	C.262
RSV1,6 LB24 GR 3,2 SN	1445300000	C.258
RSV1,6 LB36 GR 3,2 AU	1446200000	C.262
RSV1,6 LB36 GR 3,2 SN	1446300000	C.258
RSV1,6 LB4 GR 3,2 AU	1440200000	C.262
RSV1,6 LB4 GR 3,2 SN	1440300000	C.258
RSV1,6 LB6 GR 3,2 AU	1441200000	C.262
RSV1,6 LB6 GR 3,2 SN	1441300000	C.258
RSV1,6 LB9 GR 3,2 AU	1442200000	C.262
RSV1,6 LB9 GR 3,2 SN	1442300000	C.258
RSV1,6 LBF12 GR 3,2 AU	1443600000	C.263
RSV1,6 LBF12 GR 3,2 SN	1443700000	C.259
RSV1,6 LBF18 GR 3,2 AU	1444600000	C.263

Type	Order No.	Page
RSV1,6 LBF18 GR 3,2 SN	1444700000	C.259
RSV1,6 LBF24 GR 3,2 AU	1445600000	C.263
RSV1,6 LBF24 GR 3,2 SN	1445700000	C.259
RSV1,6 LBF36 GR 3,2 AU	1446600000	C.263
RSV1,6 LBF36 GR 3,2 SN	1446700000	C.259
RSV1,6 LBF4 GR 3,2 AU	1440600000	C.263
RSV1,6 LBF4 GR 3,2 SN	1440700000	C.259
RSV1,6 LBF6 GR 3,2 AU	1441600000	C.263
RSV1,6 LBF6 GR 3,2 SN	1441700000	C.259
RSV1,6 LBF9 GR 3,2 AU	1442600000	C.263
RSV1,6 LBF9 GR 3,2 SN	1442700000	C.259
RSV1,6 LS12 GR 3,2 AU	1443400000	C.260
RSV1,6 LS12 GR 3,2 SN	1443500000	C.256
RSV1,6 LS18 GR 3,2 AU	1444400000	C.260
RSV1,6 LS18 GR 3,2 SN	1444500000	C.256
RSV1,6 LS24 GR 3,2 AU	1445400000	C.260
RSV1,6 LS24 GR 3,2 SN	1445500000	C.256
RSV1,6 LS36 GR 3,2 AU	1446400000	C.260
RSV1,6 LS36 GR 3,2 SN	1446500000	C.256
RSV1,6 LS4 GR 3,2 AU	1440400000	C.260
RSV1,6 LS4 GR 3,2 SN	1440500000	C.256
RSV1,6 LS6 GR 3,2 AU	1441400000	C.260
RSV1,6 LS6 GR 3,2 SN	1441500000	C.256
RSV1,6 LS9 GR 3,2 AU	1442400000	C.260
RSV1,6 LS9 GR 3,2 SN	1442500000	C.256
RSV1,6 LSF12 GR 3,2 AU	1443800000	C.261
RSV1,6 LSF12 GR 3,2 SN	1443900000	C.257
RSV1,6 LSF18 GR 3,2 AU	1444800000	C.261
RSV1,6 LSF18 GR 3,2 SN	1444900000	C.257
RSV1,6 LSF24 GR 3,2 AU	1445800000	C.261
RSV1,6 LSF24 GR 3,2 SN	1445900000	C.257
RSV1,6 LSF36 GR 3,2 AU	1446800000	C.261
RSV1,6 LSF36 GR 3,2 SN	1446900000	C.257
RSV1,6 LSF4 GR 3,2 AU	1440800000	C.261
RSV1,6 LSF4 GR 3,2 SN	1440900000	C.257
RSV1,6 LSF6 GR 3,2 AU	1441800000	C.261
RSV1,6 LSF6 GR 3,2 SN	1441900000	C.257
RSV1,6 LSF9 GR 3,2 AU	1442800000	C.261
RSV1,6 LSF9 GR 3,2 SN	1442900000	C.257
RSV1,6 RF12/35x15 SW	1690140000	D.3
RSV1,6 RF12/35x7.5 SW	1582940000	D.3
RSV1,6 RF18/35x15 SW	1690150000	D.3
RSV1,6 RF18/35x7.5 SW	1582950000	D.3
RSV1,6 RF24/35x15 SW	1690160000	D.3
RSV1,6 RF24/35x7.5 SW	1582960000	D.3
RSV1,6 RF36/35x15 SW	1690170000	D.3
RSV1,6 RF36/35x7.5 SW	1582970000	D.3
RSV1,6 RF4/35x15 SW	1690110000	D.3
RSV1,6 RF4/35x7.5 SW	1582910000	D.3
RSV1,6 RF6/35x15 SW	1690120000	D.3
RSV1,6 RF6/35x7.5 SW	1582920000	D.3
RSV1,6 RF9/35x15 SW	1690130000	D.3
RSV1,6 RF9/35x7.5 SW	1582930000	D.3
RSV1,6 S12 GR	1416100000	C.264
RSV1,6 S18 GR	1417100000	C.264
RSV1,6 S24 GR	1418100000	C.264
RSV1,6 S36 GR BX	1419100000	C.264
RSV1,6 S4 GR	1413100000	C.264
RSV1,6 S6 GR	1414100000	C.264
RSV1,6 S9 GR	1415100000	C.264
RSV1,6 ZE 12 SW	1563300000	D.3
RSV1,6 ZE 18 SW	1563200000	D.3
RSV1,6 ZE 24 SW	1563100000	D.3
RSV1,6 ZE 36 SW	1563000000	D.3
RSV1,6 ZE 4 SW	1563600000	D.3
RSV1,6 ZE 6 SW	1563500000	D.3
RSV1,6 ZE 9 SW	1563400000	D.3

S

S2C-SMT 3.50/04/180G 1.5SN BK BX	1290410000	C.8
S2C-SMT 3.50/04/180G 1.5SN BK RL	1358860000	C.9
S2C-SMT 3.50/04/180G 3.5SN BK BX	1290030000	C.8
S2C-SMT 3.50/04/180G 3.5SN BK RL	1358730000	C.9
S2C-SMT 3.50/04/180LF 1.5SN BK BX	1290590000	C.9
S2C-SMT 3.50/04/180LF 1.5SN BK RL	1358630000	C.9
S2C-SMT 3.50/04/180LF 3.5SN BK BX	1290220000	C.9
S2C-SMT 3.50/04/180LF 3.5SN BK RL	1358530000	C.9
S2C-SMT 3.50/04/90G 1.5SN BK BX	1289630000	C.6
S2C-SMT 3.50/04/90G 1.5SN BK RL	1359580000	C.7
S2C-SMT 3.50/04/90G 3.2SN BK BX	1288980000	C.6
S2C-SMT 3.50/04/90G 3.2SN BK RL	1359480000	C.7
S2C-SMT 3.50/04/90LF 1.5SN BK BX	1289830000	C.7
S2C-SMT 3.50/04/90LF 1.5SN BK RL	1359080000	C.7
S2C-SMT 3.50/04/90LF 3.2SN BK BX	1289450000	C.7
S2C-SMT 3.50/04/90LF 3.2SN BK RL	1358890000	C.7
S2C-SMT 3.50/06/180G 1.5SN BK BX	1290420000	C.8
S2C-SMT 3.50/06/180G 1.5SN BK RL	1358870000	C.9
S2C-SMT 3.50/06/180G 3.5SN BK BX	1290040000	C.8
S2C-SMT 3.50/06/180LF 1.5SN BK BX	1290610000	C.9
S2C-SMT 3.50/06/180LF 1.5SN BK RL	1358640000	C.9
S2C-SMT 3.50/06/180LF 3.5SN BK BX	1290230000	C.9
S2C-SMT 3.50/06/180LF 3.5SN BK RL	1358540000	C.9
S2C-SMT 3.50/06/90G 1.5SN BK BX	1289640000	C.6
S2C-SMT 3.50/06/90G 1.5SN BK RL	1359590000	C.7
S2C-SMT 3.50/06/90G 3.2SN BK BX	1289270000	C.6
S2C-SMT 3.50/06/90G 3.2SN BK RL	1359470000	C.7
S2C-SMT 3.50/06/90LF 1.5SN BK BX	1289840000	C.7
S2C-SMT 3.50/06/90LF 1.5SN BK RL	1359090000	C.7
S2C-SMT 3.50/06/90LF 3.2SN BK BX	1289460000	C.7
S2C-SMT 3.50/06/90LF 3.2SN BK RL	1358910000	C.7
S2C-SMT 3.50/08/180G 1.5SN BK BX	1290430000	C.8
S2C-SMT 3.50/08/180G 1.5SN BK RL	1358880000	C.9
S2C-SMT 3.50/08/180G 3.5SN BK BX	1290050000	C.8
S2C-SMT 3.50/08/180G 3.5SN BK RL	1358750000	C.9
S2C-SMT 3.50/08/180LF 1.5SN BK RL	1358650000	C.9
S2C-SMT 3.50/08/180LF 3.5SN BK BX	1290240000	C.9
S2C-SMT 3.50/08/180LF 3.5SN BK RL	1358550000	C.9
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S2C-SMT 3.50/10/180G 3.5SN BK RL	1358770000	C.9
S2C-SMT 3.50/10/180LF 1.5SN BK BX	1290640000	C.9
S2C-SMT 3.50/10/180LF 1.5SN BK RL	1358670000	C.9
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S2C-SMT 3.50/10/180LF 3.5SN BK RL	1358570000	C.9
S2C-SMT 3.50/10/90G 1.5SN BK BX	1289670000	C.6
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S2C-SMT 3.50/10/90G 3.2SN BK BX	1289290000	C.6
S2C-SMT 3.50/10/90G 3.2SN BK RL	1359490000	C.7
S2C-SMT 3.50/10/90LF 1.5SN BK BX	1289870000	C.7
S2C-SMT 3.50/10/90LF 1.5SN BK RL	1359120000	C.7
S2C-SMT 3.50/10/90LF 3.2SN BK BX	1289480000	C.7
S2C-SMT 3.50/10/90LF 3.2SN BK RL	1358950000	C.7
S2C-SMT 3.50/12/180G 1.5SN BK BX	1290450000	C.8
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S2C-SMT 3.50/12/180G 3.5SN BK RL	1358780000	C.9
S2C-SMT 3.50/12/180LF 1.5SN BK BX	1290650000	C.9
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S2C-SMT 3.50/12/180LF 3.5SN BK BX	1290260000	C.9
S2C-SMT 3.50/12/180LF 3.5SN BK RL	1358580000	C.9
S2C-SMT 3.50/12/90G 1.5SN BK BX	1289680000	C.6
S2C-SMT 3.50/12/90G 1.5SN BK RL	1359620000	C.7
S2C-SMT 3.50/12/90G 3.2SN BK BX	1289300000	C.6
S2C-SMT 3.50/12/90G 3.2SN BK RL	1359510000	C.7
S2C-SMT 3.50/12/90LF 1.5SN BK BX	1289880000	C.7
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S2C-SMT 3.50/14/180LF 1.5SN BK RL	1358690000	C.9
S2C-SMT 3.50/14/180LF 3.5SN BK BX	1290270000	C.9
S2C-SMT 3.50/14/180LF 3.5SN BK RL	1358590000	C.9
S2C-SMT 3.50/14/90G 1.5SN BK BX	1289700000	C.6
S2C-SMT 3.50/14/90G 1.5SN BK RL	1359630000	C.7
S2C-SMT 3.50/14/90G 3.2SN BK BX	1289310000	C.6
S2C-SMT 3.50/14/90G 3.2SN BK RL	1359520000	C.7
S2C-SMT 3.50/14/90LF 1.5SN BK BX	1289890000	C.7
S2C-SMT 3.50/14/90LF 1.5SN BK RL	1359140000	C.7
S2C-SMT 3.50/14/90LF 3.2SN BK BX	1289500000	C.7
S2C-SMT 3.50/14/90LF 3.2SN BK RL	1359010000	C.7
S2C-SMT 3.50/16/180G 1.5SN BK BX	1290470000	C.8
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S2C-SMT 3.50/16/180G 3.5SN BK BX	1290090000	C.8
S2C-SMT 3.50/16/180G 3.5SN BK RL	1358810000	C.9
S2C-SMT 3.50/16/180LF 1.5SN BK BX	1290670000	C.9
S2C-SMT 3.50/16/180LF 1.5SN BK RL	1358700000	C.9
S2C-SMT 3.50/16/180LF 3.5SN BK BX	1290280000	C.9
S2C-SMT 3.50/16/180LF 3.5SN BK RL	1358600000	C.9
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S2C-SMT 3.50/16/90G 3.2SN BK BX	1289320000	C.6
S2C-SMT 3.50/16/90G 3.2SN BK RL	1359530000	C.7
S2C-SMT 3.50/16/90LF 1.5SN BK BX	1289910000	C.7
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S2C-SMT 3.50/16/90LF 3.2SN BK BX	1289510000	C.7
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S2C-SMT 3.50/18/180G 1.5SN BK BX	1290480000	C.8
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S2C-SMT 3.50/18/90LF 1.5SN BK BX	1289930000	C.7
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S2C-SMT 3.50/20/180G 1.5SN BK BX	1290490000	C.8
S2C-SMT 3.50/20/180G 1.5SN BK RL	1359020000	C.9
S2C-SMT 3.50/20/180G 3.5SN BK BX	1290120000	C.8
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S2C-SMT 3.50/20/180LF 1.5SN BK BX	1290690000	C.9
S2C-SMT 3.50/20/180LF 1.5SN BK RL	1358720000	C.9
S2C-SMT 3.50/20/180LF 3.5SN BK BX	1290310000	C.9
S2C-SMT 3.50/20/180LF 3.5SN BK RL	1358620000	C.9
S2C-SMT 3.50/20/90G 1.5SN BK BX	1289730000	C.6
S2C-SMT 3.50/20/90G 1.5SN BK RL	1359670000	C.7
S2C-SMT 3.50/20/90G 3.2SN BK BX	1289340000	C.6
S2C-SMT 3.50/20/90G 3.2SN BK RL	1359550000	C.7
S2C-SMT 3.50/20/90LF 1.5SN BK BX	1289940000	C.7
S2C-SMT 3.50/20/90LF 1.5SN BK RL	1359170000	C.7
S2C-SMT 3.50/20/90LF 3.2SN BK BX	1289530000	C.7
S2C-SMT 3.50/20/90LF 3.2SN BK RL	1359070000	C.7
S2C-SMT 3.50/22/180G 1.5SN BK BX	1290510000	C.8
S2C-SMT 3.50/22/180G 1.5SN BK RL	1359040000	C.9
S2C-SMT 3.50/22/180G 3.5SN BK BX	1290130000	C.8
S2C-SMT 3.50/22/180G 3.5SN BK RL	1358840000	C.9
S2C-SMT 3.50/22/180LF 1.5SN BK BX	1290710000	C.9
S2C-SMT 3.50/22/180LF 3.5SN BK BX	1290320000	C.9
S2C-SMT 3.50/22/90G 1.5SN BK BX	1289740000	C.6
S2C-SMT 3.50/22/90G 1.5SN BK RL	1359680000	C.7
S2C-SMT 3.50/22/90G 3.2SN BK BX	1289350000	C.6
S2C-SMT 3.50/22/90G 3.2SN BK RL	1359560000	C.7
S2C-SMT 3.50/22/90LF 1.5SN BK BX	1289950000	C.7
S2C-SMT 3.50/22/90LF 3.2SN BK BX	1289540000	C.7
S2C-SMT 3.50/24/180G 1.5SN BK BX	1290520000	C.8
S2C-SMT 3.50/24/180G 1.5SN BK RL	1359060000	C.9
S2C-SMT 3.50/24/180G 3.5SN BK BX	1290140000	C.8
S2C-SMT 3.50/24/180G 3.5SN BK RL	1358850000	C.9
S2C-SMT 3.50/24/180LF 1.5SN BK BX	1290720000	C.9
S2C-SMT 3.50/24/180LF 3.5SN BK BX	1290330000	C.9
S2C-SMT 3.50/24/90G 1.5SN BK BX	1289750000	C.6
S2C-SMT 3.50/24/90G 1.5SN BK RL	1359690000	C.7
S2C-SMT 3.50/24/90G 3.2SN BK BX	1289370000	C.6
S2C-SMT 3.50/24/90G 3.2SN BK RL	1359570000	C.7
S2C-SMT 3.50/24/90LF 1.5SN BK BX	1289960000	C.7
S2C-SMT 3.50/24/90LF 3.2SN BK BX	1289550000	C.7
S2C-SMT 3.50/26/180G 1.5SN BK BX	1290530000	C.8
S2C-SMT 3.50/26/180G 3.5SN BK BX	1290150000	C.8
S2C-SMT 3.50/26/180LF 1.5SN BK BX	1290730000	C.9
S2C-SMT 3.50/26/180LF 3.5SN BK BX	1290340000	C.9
S2C-SMT 3.50/26/90G 1.5SN BK BX	1289770000	C.6
S2C-SMT 3.50/26/90G 3.2SN BK BX	1289380000	C.6
S2C-SMT 3.50/26/90LF 1.5SN BK BX	1289970000	C.7
S2C-SMT 3.50/26/90LF 3.2SN BK BX	1289570000	C.7
S2C-SMT 3.50/28/180G 1.5SN BK BX	1290540000	C.8
S2C-SMT 3.50/28/180G 3.5SN BK BX	1290160000	C.8
S2C-SMT 3.50/28/180LF 1.5SN BK BX	1290740000	C.9
S2C-SMT 3.50/28/180LF 3.5SN BK BX	1290350000	C.9
S2C-SMT 3.50/28/90G 1.5SN BK BX	1289780000	C.6
S2C-SMT 3.50/28/90G 3.2SN BK BX	1289390000	C.6
S2C-SMT 3.50/28/90LF 1.5SN BK BX	1289980000	C.7
S2C-SMT 3.50/28/90LF 3.2SN BK BX	1289580000	C.7
S2C-SMT 3.50/30/180G 1.5SN BK BX	1290550000	C.8
S2C-SMT 3.50/30/180G 3.5SN BK BX	1290170000	C.8
S2C-SMT 3.50/30/180LF 1.5SN BK BX	1290750000	C.9
S2C-SMT 3.50/30/180LF 3.5SN BK BX	1290360000	C.9
S2C-SMT 3.50/30/90G 1.5SN BK BX	1289790000	C.6
S2C-SMT 3.50/30/90G 3.2SN BK BX	1289410000	C.6
S2C-SMT 3.50/30/90LF 1.5SN BK BX	1289990000	C.7
S2C-SMT 3.50/30/90LF 3.2SN BK BX	1289590000	C.7
S2C-SMT 3.50/32/180G 1.5SN BK BX	1290560000	C.8
S2C-SMT 3.50/32/180G 3.5SN BK BX	1290180000	C.8
S2C-SMT 3.50/32/180LF 1.5SN BK BX	1290760000	C.9
S2C-SMT 3.50/32/180LF 3.5SN BK BX	1290370000	C.9
S2C-SMT 3.50/32/90G 1.5SN BK BX	1289800000	C.6
S2C-SMT 3.50/32/90G 3.2SN BK BX	1289420000	C.6
S2C-SMT 3.50/32/90LF 1.5SN BK BX	1290000000	C.7
S2C-SMT 3.50/32/90LF 3.2SN BK BX	1289600000	C.7
S2C-SMT 3.50/34/180G 1.5SN BK BX	1290570000	C.8
S2C-SMT 3.50/34/180G 3.5SN BK BX	1290190000	C.8
S2C-SMT 3.50/34/180LF 1.5SN BK BX	1290770000	C.9
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S2C-SMT 3.50/34/90LF 3.2SN BK BX	1289610000	C.7
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S2C-SMT 3.50/36/180LF 1.5SN BK BX	1290780000	C.9
S2C-SMT 3.50/36/90G 1.5SN BK BX	1289820000	C.6
S2C-SMT 3.50/36/90G 3.2SN BK BX	1289440000	C.6
S2C-SMT 3.50/36/90LF 1.5SN BK BX	1290020000	C.7
S2C-SMT 3.50/36/90LF 3.2SN BK BX	1289620000	C.7
S2CD-THR 3.50/08/90G 3.2SN BK BX	1357790000	C.10
S2CD-THR 3.50/08/90LF 3.2SN BK BX	1357890000	C.11
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S2CD-THR 3.50/16/90G 3.2SN BK BX	1357820000	C.10
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S2CD-THR 3.50/24/90G 3.2SN BK BX	1357840000	C.10
S2CD-THR 3.50/24/90LF 3.2SN BK BX	1357940000	C.11
S2CD-THR 3.50/28/90G 3.2SN BK BX	1357850000	C.10
S2CD-THR 3.50/28/90LF 3.2SN BK BX	1357950000	C.11
S2CD-THR 3.50/32/90G 3.2SN BK BX	1357870000	C.10
S2CD-THR 3.50/32/90LF 3.2SN BK BX	1357970000	C.11

Type	Order No.	Page
S2CD-THR 3.50/36/90G 3.2SN BK BX	1357880000	C.10
S2CD-THR 3.50/36/90LF 3.2SN BK BX	1357990000	C.11
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S2L 3.50/06/180F 3.5SN OR BX	1729430000	C.17
S2L 3.50/06/180G 3.5SN BK BX	1728950000	C.16
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S2L 3.50/06/90F 3.5SN OR BX	1728470000	C.15
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S2L 3.50/06/90G 3.5SN OR BX	1727830000	C.14
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S2L 3.50/14/180G 3.5SN OR BX	1728830000	C.16
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S2L 3.50/24/180F 3.5SN OR BX	1729520000	C.17
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S2L 3.50/24/180G 3.5SN OR BX	1728880000	C.16
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S2L 3.50/24/90G 3.5SN OR BX	1727920000	C.14
S2L 3.50/26/180F 3.5SN BK BX	1729690000	C.17
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S2L 3.50/26/180G 3.5SN BK BX	1729050000	C.16
S2L 3.50/26/180G 3.5SN OR BX	1728890000	C.16
S2L 3.50/26/90F 3.5SN BK BX	1728730000	C.15
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S2L 3.50/28/180F 3.5SN OR BX	1729540000	C.17
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S2L 3.50/28/180G 3.5SN OR BX	1728900000	C.16
S2L 3.50/28/90F 3.5SN BK BX	1728740000	C.15
S2L 3.50/28/90F 3.5SN OR BX	1728580000	C.15
S2L 3.50/28/90G 3.5SN BK BX	1728100000	C.14
S2L 3.50/28/90G 3.5SN OR BX	1727940000	C.14

Type	Order No.	Page
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S2L 3.50/30/180F 3.5SN OR BX	1729550000	C.17
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S2L 3.50/30/180G 3.5SN OR BX	1728910000	C.16
S2L 3.50/30/90F 3.5SN BK BX	1728750000	C.15
S2L 3.50/30/90F 3.5SN OR BX	1728590000	C.15
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S2L 3.50/30/90G 3.5SN OR BX	1727950000	C.14
S2L 3.50/32/180F 3.5SN BK BX	1729720000	C.17
S2L 3.50/32/180F 3.5SN OR BX	1729560000	C.17
S2L 3.50/32/180G 3.5SN BK BX	1729080000	C.16
S2L 3.50/32/180G 3.5SN OR BX	1728920000	C.16
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S2L 3.50/32/90G 3.5SN OR BX	1727960000	C.14
S2L 3.50/34/180F 3.5SN BK BX	1729730000	C.17
S2L 3.50/34/180F 3.5SN OR BX	1729570000	C.17
S2L 3.50/34/90F 3.5SN BK BX	1728770000	C.15
S2L 3.50/34/90F 3.5SN OR BX	1728610000	C.15
S2L 3.50/34/90G 3.5SN BK BX	1728130000	C.14
S2L 3.50/34/90G 3.5SN OR BX	1727970000	C.14
S2L 3.50/36/180F 3.5SN BK BX	1729740000	C.17
S2L 3.50/36/180F 3.5SN OR BX	1729580000	C.17
S2L 3.50/36/90F 3.5SN BK BX	1728780000	C.15
S2L 3.50/36/90F 3.5SN OR BX	1728620000	C.15
S2L 3.50/36/90G 3.5SN BK BX	1728140000	C.14
S2L 3.50/36/90G 3.5SN OR BX	1727980000	C.14
S2L-SMT 3.5 FLA 20/10	1814590000	D.8
SC 3.81 FLA 1.5/14.25	1979730000	D.9
SC 3.81 FLA 1.5/16	1979720000	D.9
SC 3.81 FLA 2.3/14.25	1979750000	D.9
SC 3.81 FLA 2.3/16	1979740000	D.9
SC 3.81/02/135F 3.2SN BK BX	1977040000	C.89
SC 3.81/02/135F 3.2SN OR BX	1976740000	C.89
SC 3.81/02/135G 3.2SN BK BX	1976380000	C.88
SC 3.81/02/135G 3.2SN OR BX	1975720000	C.88
SC 3.81/02/180F 3.2SN BK BX	1793700000	C.87
SC 3.81/02/180F 3.2SN OR BX	1943180000	C.87
SC 3.81/02/180G 3.2SN BK BX	1793520000	C.86
SC 3.81/02/180G 3.2SN OR BX	1942840000	C.86
SC 3.81/02/270F 3.2SN BK BX	1038410000	C.91
SC 3.81/02/270F 3.2SN OR BX	1038040000	C.91
SC 3.81/02/270G 3.2SN BK BX	1037870000	C.90
SC 3.81/02/270G 3.2SN OR BX	1037490000	C.90
SC 3.81/02/90F 3.2SN BK BX	1793330000	C.85
SC 3.81/02/90F 3.2SN OR BX	1942450000	C.85
SC 3.81/02/90G 3.2SN BK BX	1793130000	C.84
SC 3.81/02/90G 3.2SN OR BX	1942020000	C.84
SC 3.81/03/135F 3.2SN BK BX	1977050000	C.89
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SC 3.81/03/135G 3.2SN BK BX	1976400000	C.88
SC 3.81/03/135G 3.2SN OR BX	1975770000	C.88
SC 3.81/03/180F 3.2SN BK BX	1793710000	C.87
SC 3.81/03/180F 3.2SN OR BX	1943190000	C.87
SC 3.81/03/180G 3.2SN BK BX	1793530000	C.86
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SC 3.81/03/270F 3.2SN BK BX	1038420000	C.91
SC 3.81/03/270F 3.2SN OR BX	1038050000	C.91
SC 3.81/03/270G 3.2SN BK BX	1037880000	C.90
SC 3.81/03/270G 3.2SN OR BX	1037510000	C.90
SC 3.81/03/90F 3.2SN BK BX	1793340000	C.85
SC 3.81/03/90F 3.2SN OR BX	1942460000	C.85
SC 3.81/03/90G 3.2SN BK BX	1793140000	C.84
SC 3.81/03/90G 3.2SN OR BX	1942040000	C.84
SC 3.81/04/135F 3.2SN BK BX	1977060000	C.89
SC 3.81/04/135F 3.2SN OR BX	1976760000	C.89
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SC 3.81/04/180G 3.2SN OR BX	1942860000	C.86
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SC 3.81/04/270F 3.2SN OR BX	1038060000	C.91
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SC 3.81/05/135F 3.2SN OR BX	1976770000	C.89
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SC 3.81/05/135G 3.2SN OR BX	1975810000	C.88
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SC 3.81/05/180G 3.2SN BK BX	1793550000	C.86
SC 3.81/05/180G 3.2SN OR BX	1942870000	C.86
SC 3.81/05/270F 3.2SN BK BX	1038440000	C.91
SC 3.81/05/270F 3.2SN OR BX	1038070000	C.91
SC 3.81/05/270G 3.2SN BK BX	1037910000	C.90
SC 3.81/05/270G 3.2SN OR BX	1037530000	C.90
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SC 3.81/05/90F 3.2SN OR BX	1942480000	C.85
SC 3.81/05/90G 3.2SN BK BX	1793160000	C.84
SC 3.81/05/90G 3.2SN OR BX	1942090000	C.84
SC 3.81/06/135F 3.2SN BK BX	1977080000	C.89
SC 3.81/06/135F 3.2SN OR BX	1976780000	C.89

Type	Order No.	Page
SC 3.81/06/135G 3.2SN BK BX	1976460000	C.88
SC 3.81/06/135G 3.2SN OR BX	1975880000	C.88
SC 3.81/06/180F 3.2SN BK BX	1793740000	C.87
SC 3.81/06/180F 3.2SN OR BX	1943220000	C.87
SC 3.81/06/180G 3.2SN BK BX	1793560000	C.86
SC 3.81/06/180G 3.2SN OR BX	1942880000	C.86
SC 3.81/06/270F 3.2SN BK BX	1038450000	C.91
SC 3.81/06/270F 3.2SN OR BX	1038080000	C.91
SC 3.81/06/270G 3.2SN BK BX	1037920000	C.90
SC 3.81/06/270G 3.2SN OR BX	1037540000	C.90
SC 3.81/06/90F 3.2SN BK BX	1793370000	C.85
SC 3.81/06/90F 3.2SN OR BX	1942490000	C.85
SC 3.81/06/90G 3.2SN BK BX	1793170000	C.84
SC 3.81/06/90G 3.2SN OR BX	1942100000	C.84
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SC 3.81/07/135F 3.2SN OR BX	1976790000	C.89
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SC 3.81/07/180F 3.2SN OR BX	1943230000	C.87
SC 3.81/07/180G 3.2SN BK BX	1871490000	C.86
SC 3.81/07/180G 3.2SN OR BX	1942890000	C.86
SC 3.81/07/270F 3.2SN BK BX	1038460000	C.91
SC 3.81/07/270F 3.2SN OR BX	1038090000	C.91
SC 3.81/07/270G 3.2SN BK BX	1037930000	C.90
SC 3.81/07/270G 3.2SN OR BX	1037550000	C.90
SC 3.81/07/90F 3.2SN BK BX	1942740000	C.85
SC 3.81/07/90F 3.2SN OR BX	1942500000	C.85
SC 3.81/07/90G 3.2SN BK BX	1942350000	C.84
SC 3.81/07/90G 3.2SN OR BX	1942120000	C.84
SC 3.81/08/135F 3.2SN BK BX	1977100000	C.89
SC 3.81/08/135F 3.2SN OR BX	1976800000	C.89
SC 3.81/08/135G 3.2SN BK BX	1976540000	C.88
SC 3.81/08/135G 3.2SN OR BX	1975920000	C.88
SC 3.81/08/180F 3.2SN BK BX	1793750000	C.87
SC 3.81/08/180F 3.2SN OR BX	1943240000	C.87
SC 3.81/08/180G 3.2SN BK BX	1793570000	C.86
SC 3.81/08/180G 3.2SN OR BX	1942900000	C.86
SC 3.81/08/270F 3.2SN BK BX	1038470000	C.91
SC 3.81/08/270F 3.2SN OR BX	1038110000	C.91
SC 3.81/08/270G 3.2AU BK BX	1921620000	C.90
SC 3.81/08/270G 3.2SN BK BX	1037940000	C.90
SC 3.81/08/270G 3.2SN OR BX	1037560000	C.90
SC 3.81/08/90F 3.2SN BK BX	1793380000	C.85
SC 3.81/08/90F 3.2SN OR BX	1942510000	C.85
SC 3.81/08/90G 3.2SN BK BX	1793180000	C.84
SC 3.81/08/90G 3.2SN OR BX	1942130000	C.84
SC 3.81/09/135F 3.2SN BK BX	1977110000	C.89
SC 3.81/09/135F 3.2SN OR BX	1976810000	C.89
SC 3.81/09/135G 3.2SN BK BX	1976560000	C.88
SC 3.81/09/135G 3.2SN OR BX	1975930000	C.88
SC 3.81/09/180F 3.2SN BK BX	1943470000	C.87
SC 3.81/09/180F 3.2SN OR BX	1943250000	C.87
SC 3.81/09/180G 3.2SN BK BX	1871470000	C.86
SC 3.81/09/180G 3.2SN OR BX	1942910000	C.86
SC 3.81/09/270F 3.2SN BK BX	1038480000	C.91
SC 3.81/09/270F 3.2SN OR BX	1038130000	C.91
SC 3.81/09/270G 3.2SN BK BX	1037950000	C.90
SC 3.81/09/270G 3.2SN OR BX	1037570000	C.90
SC 3.81/09/90F 3.2SN BK BX	1942750000	C.85
SC 3.81/09/90F 3.2SN OR BX	1942520000	C.85
SC 3.81/09/90G 3.2SN BK BX	1942360000	C.84
SC 3.81/09/90G 3.2SN OR BX	1942140000	C.84
SC 3.81/10/135F 3.2SN BK BX	1977120000	C.89
SC 3.81/10/135F 3.2SN OR BX	1976820000	C.89
SC 3.81/10/135G 3.2SN BK BX	1976600000	C.88
SC 3.81/10/135G 3.2SN OR BX	1975940000	C.88
SC 3.81/10/180F 3.2SN BK BX	1793760000	C.87
SC 3.81/10/180F 3.2SN OR BX	1943260000	C.87
SC 3.81/10/180G 3.2SN BK BX	1793580000	C.86
SC 3.81/10/180G 3.2SN OR BX	1942920000	C.86
SC 3.81/10/270F 3.2SN BK BX	1038490000	C.91
SC 3.81/10/270F 3.2SN OR BX	1038140000	C.91
SC 3.81/10/270G 3.2SN BK BX	1037960000	C.90
SC 3.81/10/270G 3.2SN OR BX	1037580000	C.90
SC 3.81/10/90F 3.2SN BK BX	1793390000	C.85
SC 3.81/10/90F 3.2SN OR BX	1942530000	C.85
SC 3.81/10/90G 3.2SN BK BX	1793190000	C.84
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SC 3.81/11/135F 3.2SN BK BX	1977130000	C.89
SC 3.81/11/135F 3.2SN OR BX	1976830000	C.89
SC 3.81/11/135G 3.2SN BK BX	1976630000	C.88
SC 3.81/11/135G 3.2SN OR BX	1975950000	C.88
SC 3.81/11/180F 3.2SN BK BX	1943480000	C.87
SC 3.81/11/180F 3.2SN OR BX	1943270000	C.87
SC 3.81/11/180G 3.2SN BK BX	1943100000	C.86
SC 3.81/11/180G 3.2SN OR BX	1942930000	C.86
SC 3.81/11/270F 3.2SN BK BX	1038510000	C.91
SC 3.81/11/270F 3.2SN OR BX	1038150000	C.91
SC 3.81/11/270G 3.2SN BK BX	1037970000	C.90
SC 3.81/11/270G 3.2SN OR BX	1037590000	C.90
SC 3.81/11/90F 3.2SN BK BX	1942760000	C.85
SC 3.81/11/90F 3.2SN OR BX	1942540000	C.85
SC 3.81/11/90G 3.2SN BK BX	1942370000	C.84
SC 3.81/11/90G 3.2SN OR BX	1942160000	C.84
SC 3.81/12/135F 3.2SN BK BX	1977140000	C.89
SC 3.81/12/135F 3.2SN OR BX	1976840000	C.89
SC 3.81/12/135G 3.2SN BK BX	1976660000	C.88
SC 3.81/12/135G 3.2SN OR BX	1975960000	C.88

Type	Order No.	Page
SC 3.81/12/180F 3.2SN BK BX	1793770000	C.87
SC 3.81/12/180F 3.2SN OR BX	1943280000	C.87
SC 3.81/12/180G 3.2SN BK BX	1793590000	C.86
SC 3.81/12/180G 3.2SN OR BX	1942940000	C.86
SC 3.81/12/270F 3.2SN BK BX	1038520000	C.91
SC 3.81/12/270F 3.2SN OR BX	1038160000	C.91
SC 3.81/12/270G 3.2SN BK BX	1037980000	C.90
SC 3.81/12/270G 3.2SN OR BX	1037610000	C.90
SC 3.81/12/90F 3.2SN BK BX	1793400000	C.85
SC 3.81/12/90F 3.2SN OR BX	1942550000	C.85
SC 3.81/12/90G 3.2SN BK BX	1793200000	C.84
SC 3.81/12/90G 3.2SN OR BX	1942170000	C.84
SC 3.81/13/135F 3.2SN BK BX	1977150000	C.89
SC 3.81/13/135F 3.2SN OR BX	1976850000	C.89
SC 3.81/13/135G 3.2SN BK BX	1976700000	C.88
SC 3.81/13/135G 3.2SN OR BX	1975970000	C.88
SC 3.81/13/180F 3.2SN BK BX	1943490000	C.87
SC 3.81/13/180F 3.2SN OR BX	1943290000	C.87
SC 3.81/13/180G 3.2SN BK BX	1943110000	C.86
SC 3.81/13/180G 3.2SN OR BX	1942950000	C.86
SC 3.81/13/270F 3.2SN BK BX	1038530000	C.91
SC 3.81/13/270F 3.2SN OR BX	1038170000	C.91
SC 3.81/13/270G 3.2SN BK BX	1037990000	C.90
SC 3.81/13/270G 3.2SN OR BX	1037620000	C.90
SC 3.81/13/90F 3.2SN BK BX	1942770000	C.85
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SC 3.81/13/90G 3.2SN BK BX	1942380000	C.84
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SC 3.81/14/135G 3.2SN BK BX	1976710000	C.88
SC 3.81/14/135G 3.2SN OR BX	1975980000	C.88
SC 3.81/14/180F 3.2SN BK BX	1943500000	C.87
SC 3.81/14/180F 3.2SN OR BX	1943300000	C.87
SC 3.81/14/180G 3.2SN BK BX	1943120000	C.86
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SC 3.81/14/270F 3.2SN OR BX	1038180000	C.91
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SC 3.81/14/90F 3.2SN BK BX	1942780000	C.85
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SC 3.81/15/135F 3.2SN BK BX	1977170000	C.89
SC 3.81/15/135F 3.2SN OR BX	1976870000	C.89
SC 3.81/15/135G 3.2SN BK BX	1976720000	C.88
SC 3.81/15/135G 3.2SN OR BX	1975990000	C.88
SC 3.81/15/180F 3.2SN BK BX	1943510000	C.87
SC 3.81/15/180F 3.2SN OR BX	1943310000	C.87
SC 3.81/15/180G 3.2SN BK BX	1943130000	C.86
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SC 3.81/15/90G 3.2SN OR BX	1942200000	C.84
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SC 3.81/16/135G 3.2SN OR BX	1976000000	C.88
SC 3.81/16/180F 3.2SN BK BX	1793780000	C.87
SC 3.81/16/180F 3.2SN OR BX	1943320000	C.87
SC 3.81/16/180G 3.2SN BK BX	1793600000	C.86
SC 3.81/16/180G 3.2SN OR BX	1942980000	C.86
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SC 3.81/16/270G 3.2SN OR BX	1037650000	C.90
SC 3.81/16/90F 3.2SN BK BX	1793410000	C.85
SC 3.81/16/90F 3.2SN OR BX	1942590000	C.85
SC 3.81/16/90G 3.2SN BK BX	1793210000	C.84
SC 3.81/16/90G 3.2SN OR BX	1942210000	C.84
SC 3.81/17/180F 3.2SN BK BX	1943520000	C.87
SC 3.81/17/180F 3.2SN OR BX	1943330000	C.87
SC 3.81/17/180G 3.2SN BK BX	1943140000	C.86
SC 3.81/17/180G 3.2SN OR BX	1942990000	C.86
SC 3.81/17/90F 3.2SN BK BX	1942800000	C.85
SC 3.81/17/90F 3.2SN OR BX	1942600000	C.85
SC 3.81/17/90G 3.2SN BK BX	1942410000	C.84
SC 3.81/17/90G 3.2SN OR BX	1942220000	C.84
SC 3.81/18/180F 3.2SN BK BX	1943530000	C.87
SC 3.81/18/180F 3.2SN OR BX	1943340000	C.87
SC 3.81/18/180G 3.2SN BK BX	1943150000	C.86
SC 3.81/18/180G 3.2SN OR BX	1943000000	C.86
SC 3.81/18/90F 3.2SN BK BX	1942810000	C.85
SC 3.81/18/90F 3.2SN OR BX	1942610000	C.85
SC 3.81/18/90G 3.2SN BK BX	1942420000	C.84
SC 3.81/18/90G 3.2SN OR BX	1942230000	C.84
SC 3.81/19/180F 3.2SN BK BX	1943540000	C.87
SC 3.81/19/180F 3.2SN OR BX	1943350000	C.87
SC 3.81/19/180G 3.2SN BK BX	1943160000	C.86
SC 3.81/19/180G 3.2SN OR BX	1943010000	C.86
SC 3.81/19/90F 3.2SN BK BX	1942820000	C.85
SC 3.81/19/90F 3.2SN OR BX	1942620000	C.85
SC 3.81/19/90G 3.2SN BK BX	1942430000	C.84
SC 3.81/19/90G 3.2SN OR BX	1942240000	C.84

Type	Order No.	Page
SC 3.81/20/180F 3.2SN BK BX	1943550000	C.87
SC 3.81/20/180F 3.2SN OR BX	1943360000	C.87
SC 3.81/20/180G 3.2SN BK BX	1943170000	C.86
SC 3.81/20/180G 3.2SN OR BX	1943020000	C.86
SC 3.81/20/90F 3.2SN BK BX	1942830000	C.85
SC 3.81/20/90F 3.2SN OR BX	1942630000	C.85
SC 3.81/20/90G 3.2SN BK BX	1942440000	C.84
SC 3.81/20/90G 3.2SN OR BX	1942250000	C.84
SC-SMT 3.81 KO GR	1968900000	D.10
SC-SMT 3.81/02/135G 1.5SN BK BX	1977930000	C.70
SC-SMT 3.81/02/135G 3.2SN BK BX	1977200000	C.70
SC-SMT 3.81/02/135LF 1.5 SN BK BX	1978380000	C.71
SC-SMT 3.81/02/135LF 3.2 SN BK BX	1978080000	C.71
SC-SMT 3.81/02/180G 1.5SN BK BX	1863720000	C.68
SC-SMT 3.81/02/180G 1.5SN BK RL	1864050000	C.69
SC-SMT 3.81/02/180G 3.2SN BK BX	1862920000	C.68
SC-SMT 3.81/02/180G 3.2SN BK RL	1863450000	C.69
SC-SMT 3.81/02/180LF 1.5SN BK BX	1864070000	C.69
SC-SMT 3.81/02/180LF 1.5SN BK RL	1864220000	C.69
SC-SMT 3.81/02/180LF 3.2SN BK BX	1863230000	C.69
SC-SMT 3.81/02/180LF 3.2SN BK RL	1863500000	C.69
SC-SMT 3.81/02/270F 1.5SN BK BX	1037330000	C.73
SC-SMT 3.81/02/270F 3.2SN BK BX	1036990000	C.73
SC-SMT 3.81/02/270G 1.5SN BK BX	1036830000	C.72
SC-SMT 3.81/02/270G 3.2SN BK BX	1036480000	C.72
SC-SMT 3.81/02/90G 1.5SN BK BX	1862960000	C.66
SC-SMT 3.81/02/90G 1.5SN BK RL	1863140000	C.67
SC-SMT 3.81/02/90G 3.2SN BK BX	1862460000	C.66
SC-SMT 3.81/02/90G 3.2SN BK RL	1862810000	C.67
SC-SMT 3.81/02/90LF 1.5SN BK BX	1862560000	C.67
SC-SMT 3.81/02/90LF 1.5SN BK RL	1862720000	C.67
SC-SMT 3.81/02/90LF 3.2SN BK BX	1863670000	C.67
SC-SMT 3.81/02/90LF 3.2SN BK RL	1863890000	C.67
SC-SMT 3.81/03/135G 1.5SN BK BX	1977940000	C.70
SC-SMT 3.81/03/135G 3.2SN BK BX	1977210000	C.70
SC-SMT 3.81/03/135LF 1.5 SN BK BX	1978390000	C.71
SC-SMT 3.81/03/135LF 3.2 SN BK BX	1978090000	C.71
SC-SMT 3.81/03/180G 1.5SN BK BX	1863730000	C.68
SC-SMT 3.81/03/180G 1.5SN BK RL	1864060000	C.69
SC-SMT 3.81/03/180G 3.2SN BK BX	1862940000	C.68
SC-SMT 3.81/03/180G 3.2SN BK RL	1863470000	C.69
SC-SMT 3.81/03/180LF 1.5SN BK BX	1864080000	C.69
SC-SMT 3.81/03/180LF 1.5SN BK RL	1864230000	C.69
SC-SMT 3.81/03/180LF 3.2SN BK BX	1863250000	C.69
SC-SMT 3.81/03/180LF 3.2SN BK RL	1863510000	C.69
SC-SMT 3.81/03/270F 1.5SN BK BX	1037340000	C.73
SC-SMT 3.81/03/270F 3.2SN BK BX	1037010000	C.73
SC-SMT 3.81/03/270G 1.5SN BK BX	1036840000	C.72
SC-SMT 3.81/03/270G 3.2SN BK BX	1036490000	C.72
SC-SMT 3.81/03/90G 1.5SN BK BX	1862970000	C.66
SC-SMT 3.81/03/90G 1.5SN BK RL	1863150000	C.67
SC-SMT 3.81/03/90G 3.2SN BK BX	1862480000	C.66
SC-SMT 3.81/03/90G 3.2SN BK RL	1862840000	C.67
SC-SMT 3.81/03/90LF 1.5SN BK BX	1862580000	C.67
SC-SMT 3.81/03/90LF 1.5SN BK RL	1862750000	C.67
SC-SMT 3.81/03/90LF 3.2SN BK BX	1863680000	C.67
SC-SMT 3.81/03/90LF 3.2SN BK RL	1863970000	C.67
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SC-SMT 3.81/04/135G 3.2SN BK BX	1977220000	C.70
SC-SMT 3.81/04/135LF 1.5 SN BK BX	1978400000	C.71
SC-SMT 3.81/04/135LF 3.2 SN BK BX	1978100000	C.71
SC-SMT 3.81/04/180G 1.5SN BK BX	1863750000	C.68
SC-SMT 3.81/04/180G 1.5SN BK RL	1864290000	C.69
SC-SMT 3.81/04/180G 3.2SN BK BX	1862950000	C.68
SC-SMT 3.81/04/180G 3.2SN BK RL	1863490000	C.69
SC-SMT 3.81/04/180LF 1.5SN BK BX	1864090000	C.69
SC-SMT 3.81/04/180LF 1.5SN BK RL	1864240000	C.69
SC-SMT 3.81/04/180LF 3.2SN BK BX	1863260000	C.69
SC-SMT 3.81/04/180LF 3.2SN BK RL	1863530000	C.69
SC-SMT 3.81/04/270F 1.5SN BK BX	1037350000	C.73
SC-SMT 3.81/04/270F 3.2SN BK BX	1037020000	C.73
SC-SMT 3.81/04/270G 1.5SN BK BX	1036850000	C.72
SC-SMT 3.81/04/270G 3.2SN BK BX	1036510000	C.72
SC-SMT 3.81/04/90G 1.5SN BK BX	1862980000	C.66
SC-SMT 3.81/04/90G 1.5SN BK RL	1863160000	C.67
SC-SMT 3.81/04/90G 3.2SN BK BX	1862490000	C.66
SC-SMT 3.81/04/90G 3.2SN BK RL	1862860000	C.67
SC-SMT 3.81/04/90LF 1.5SN BK BX	1862590000	C.67
SC-SMT 3.81/04/90LF 1.5SN BK RL	1862770000	C.67
SC-SMT 3.81/04/90LF 3.2SN BK BX	1863690000	C.67
SC-SMT 3.81/04/90LF 3.2SN BK RL	1863980000	C.67
SC-SMT 3.81/05/135G 1.5SN BK BX	1977960000	C.70
SC-SMT 3.81/05/135G 3.2SN BK BX	1977230000	C.70
SC-SMT 3.81/05/135LF 1.5 SN BK BX	1978410000	C.71
SC-SMT 3.81/05/135LF 3.2 SN BK BX	1978110000	C.71
SC-SMT 3.81/05/180G 1.5SN BK BX	1863780000	C.68
SC-SMT 3.81/05/180G 1.5SN BK RL	1864300000	C.69
SC-SMT 3.81/05/180G 3.2SN BK BX	1863010000	C.68
SC-SMT 3.81/05/180G 3.2SN BK RL	1863540000	C.69
SC-SMT 3.81/05/180LF 1.5SN BK BX	1864100000	C.69
SC-SMT 3.81/05/180LF 1.5SN BK RL	1864250000	C.69
SC-SMT 3.81/05/180LF 3.2SN BK BX	1863280000	C.69
SC-SMT 3.81/05/180LF 3.2SN BK RL	1863580000	C.69
SC-SMT 3.81/05/270F 1.5SN BK BX	1037360000	C.73
SC-SMT 3.81/05/270F 3.2SN BK BX	1037030000	C.73
SC-SMT 3.81/05/270G 1.5SN BK BX	1036860000	C.72
SC-SMT 3.81/05/270G 3.2SN BK BX	1036520000	C.72
SC-SMT 3.81/05/90G 1.5SN BK BX	1862990000	C.66
SC-SMT 3.81/05/90G 1.5SN BK RL	1863170000	C.67

Type	Order No.	Page
SC-SMT 3.81/05/90G 3.2SN BK BX	1862500000	C.66
SC-SMT 3.81/05/90G 3.2SN BK RL	1862870000	C.67
SC-SMT 3.81/05/90LF 1.5SN BK BX	1862600000	C.67
SC-SMT 3.81/05/90LF 1.5SN BK RL	1862790000	C.67
SC-SMT 3.81/05/90LF 3.2SN BK BX	1863700000	C.67
SC-SMT 3.81/05/90LF 3.2SN BK RL	1863990000	C.67
SC-SMT 3.81/06/135G 1.5SN BK BX	1977970000	C.70
SC-SMT 3.81/06/135G 3.2SN BK BX	1977240000	C.70
SC-SMT 3.81/06/135LF 1.5 SN BK BX	1978420000	C.71
SC-SMT 3.81/06/135LF 3.2 SN BK BX	1978120000	C.71
SC-SMT 3.81/06/180G 1.5SN BK BX	1863830000	C.68
SC-SMT 3.81/06/180G 1.5SN BK RL	1864310000	C.69
SC-SMT 3.81/06/180G 3.2SN BK BX	1863020000	C.68
SC-SMT 3.81/06/180G 3.2SN BK RL	1863560000	C.69
SC-SMT 3.81/06/180LF 1.5SN BK BX	1864110000	C.69
SC-SMT 3.81/06/180LF 1.5SN BK RL	1864260000	C.69
SC-SMT 3.81/06/180LF 3.2SN BK BX	1863300000	C.69
SC-SMT 3.81/06/180LF 3.2SN BK RL	1863600000	C.69
SC-SMT 3.81/06/270F 1.5SN BK BX	1037370000	C.73
SC-SMT 3.81/06/270F 3.2SN BK BX	1037040000	C.73
SC-SMT 3.81/06/270G 1.5SN BK BX	1036870000	C.72
SC-SMT 3.81/06/270G 3.2SN BK BX	1036530000	C.72
SC-SMT 3.81/06/90G 1.5SN BK BX	1863000000	C.66
SC-SMT 3.81/06/90G 1.5SN BK RL	1863180000	C.67
SC-SMT 3.81/06/90G 3.2SN BK BX	1862510000	C.66
SC-SMT 3.81/06/90G 3.2SN BK RL	1862880000	C.67
SC-SMT 3.81/06/90LF 1.5SN BK BX	1862610000	C.67
SC-SMT 3.81/06/90LF 1.5SN BK RL	1862820000	C.67
SC-SMT 3.81/06/90LF 3.2SN BK BX	1863710000	C.67
SC-SMT 3.81/06/90LF 3.2SN BK RL	1864000000	C.67
SC-SMT 3.81/07/135G 1.5SN BK BX	1977980000	C.70
SC-SMT 3.81/07/135G 3.2SN BK BX	1977250000	C.70
SC-SMT 3.81/07/135LF 1.5 SN BK BX	1978430000	C.71
SC-SMT 3.81/07/135LF 3.2 SN BK BX	1978130000	C.71
SC-SMT 3.81/07/180G 1.5SN BK BX	1863880000	C.68
SC-SMT 3.81/07/180G 1.5SN BK RL	1864320000	C.69
SC-SMT 3.81/07/180G 3.2SN BK BX	1863030000	C.68
SC-SMT 3.81/07/180G 3.2SN BK RL	1863570000	C.69
SC-SMT 3.81/07/180LF 1.5SN BK BX	1864120000	C.69
SC-SMT 3.81/07/180LF 1.5SN BK RL	1864270000	C.69
SC-SMT 3.81/07/180LF 3.2SN BK BX	1863310000	C.69
SC-SMT 3.81/07/180LF 3.2SN BK RL	1863620000	C.69
SC-SMT 3.81/07/270F 1.5SN BK BX	1037380000	C.73
SC-SMT 3.81/07/270F 3.2SN BK BX	1037050000	C.73
SC-SMT 3.81/07/270G 1.5SN BK BX	1036880000	C.72
SC-SMT 3.81/07/270G 3.2SN BK BX	1036540000	C.72
SC-SMT 3.81/07/90G 1.5SN BK BX	1863040000	C.66
SC-SMT 3.81/07/90G 1.5SN BK RL	1863190000	C.67
SC-SMT 3.81/07/90G 3.2SN BK BX	1862520000	C.66
SC-SMT 3.81/07/90G 3.2SN BK RL	1862890000	C.67
SC-SMT 3.81/07/90LF 1.5SN BK BX	1862620000	C.67
SC-SMT 3.81/07/90LF 1.5SN BK RL	1862830000	C.67
SC-SMT 3.81/07/90LF 3.2SN BK BX	1863740000	C.67
SC-SMT 3.81/07/90LF 3.2SN BK RL	1864010000	C.67
SC-SMT 3.81/08/135G 1.5SN BK BX	1977990000	C.70
SC-SMT 3.81/08/135G 3.2SN BK BX	1977690000	C.70
SC-SMT 3.81/08/135LF 1.5 SN BK BX	1978440000	C.71
SC-SMT 3.81/08/135LF 3.2 SN BK BX	1978140000	C.71
SC-SMT 3.81/08/180G 1.5SN BK BX	1863900000	C.68
SC-SMT 3.81/08/180G 1.5SN BK RL	1864330000	C.69
SC-SMT 3.81/08/180G 3.2SN BK BX	1863240000	C.68
SC-SMT 3.81/08/180G 3.2SN BK RL	1863590000	C.69
SC-SMT 3.81/08/180LF 1.5SN BK BX	1864130000	C.69
SC-SMT 3.81/08/180LF 1.5SN BK RL	1864280000	C.69
SC-SMT 3.81/08/180LF 3.2SN BK BX	1863340000	C.69
SC-SMT 3.81/08/180LF 3.2SN BK RL	1863640000	C.69
SC-SMT 3.81/08/270F 1.5SN BK BX	1037390000	C.73
SC-SMT 3.81/08/270F 3.2SN BK BX	1037060000	C.73
SC-SMT 3.81/08/270G 1.5SN BK BX	1036890000	C.72
SC-SMT 3.81/08/270G 3.2SN BK BX	1036550000	C.72
SC-SMT 3.81/08/90G 1.5SN BK BX	1863050000	C.66
SC-SMT 3.81/08/90G 1.5SN BK RL	1863200000	C.67
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SC-SMT 3.81/08/90G 3.2SN BK RL	1862900000	C.67
SC-SMT 3.81/08/90LF 1.5SN BK BX	1862630000	C.67
SC-SMT 3.81/08/90LF 1.5SN BK RL	1862850000	C.67
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SC-SMT 3.81/09/135G 3.2SN BK BX	1977700000	C.70
SC-SMT 3.81/09/135LF 1.5 SN BK BX	1978450000	C.71
SC-SMT 3.81/09/135LF 3.2 SN BK BX	1978150000	C.71
SC-SMT 3.81/09/180G 1.5SN BK BX	1863910000	C.68
SC-SMT 3.81/09/180G 1.5SN BK RL	1864340000	C.69
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SC-SMT 3.81/09/270G 1.5SN BK BX	1036910000	C.72
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SC-SMT 3.81/09/90G 1.5SN BK BX	1863060000	C.66
SC-SMT 3.81/09/90G 1.5SN BK RL	1863210000	C.67
SC-SMT 3.81/09/90G 3.2SN BK BX	1862540000	C.66
SC-SMT 3.81/09/90G 3.2SN BK RL	1862910000	C.67
SC-SMT 3.81/09/90LF 1.5SN BK BX	1862640000	C.67
SC-SMT 3.81/09/90LF 3.2SN BK BX	1863770000	C.67
SC-SMT 3.81/10/135G 1.5SN BK BX	1978010000	C.70

Type	Order No.	Page
SC-SMT 3.81/10/135G 3.2SN BK BX	1977710000	C.70
SC-SMT 3.81/10/135LF 1.5 SN BK BX	1978460000	C.71
SC-SMT 3.81/10/135LF 3.2 SN BK BX	1978160000	C.71
SC-SMT 3.81/10/180G 1.5SN BK BX	1863920000	C.68
SC-SMT 3.81/10/180G 1.5SN BK RL	1864350000	C.69
SC-SMT 3.81/10/180G 3.2SN BK BX	1863290000	C.68
SC-SMT 3.81/10/180G 3.2SN BK RL	1863660000	C.69
SC-SMT 3.81/10/180LF 1.5SN BK BX	1864150000	C.69
SC-SMT 3.81/10/180LF 3.2SN BK BX	1863380000	C.69
SC-SMT 3.81/10/270F 1.5SN BK BX	1037410000	C.73
SC-SMT 3.81/10/270F 3.2SN BK BX	1037080000	C.73
SC-SMT 3.81/10/270G 1.5SN BK BX	1036920000	C.72
SC-SMT 3.81/10/270G 3.2SN BK BX	1036570000	C.72
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SC-SMT 3.81/10/90G 1.5SN BK RL	1863220000	C.67
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SC-SMT 3.81/10/90G 3.2SN BK RL	1862930000	C.67
SC-SMT 3.81/10/90LF 1.5SN BK BX	1862650000	C.67
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SCD 3.81/20/90G 3.2SN OR BX	1972870000	C.92
SCD 3.81/22/180F 3.2SN BK BX	1030880000	C.95
SCD 3.81/22/180F 3.2SN OR BX	1030540000	C.95
SCD 3.81/22/180G 3.2SN BK BX	1030370000	C.94
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SCD 3.81/22/90G 3.2SN OR BX	1972880000	C.92
SCD 3.81/24/180F 3.2SN BK BX	1030890000	C.95
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SCD 3.81/24/180G 3.2SN BK BX	1030380000	C.94
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SCD 3.81/24/90F 3.2SN BK BX	1973680000	C.93
SCD 3.81/24/90F 3.2SN OR BX	1973360000	C.93
SCD 3.81/24/90G 3.2SN BK BX	1973210000	C.92
SCD 3.81/24/90G 3.2SN OR BX	1972890000	C.92
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SCD 3.81/26/180F 3.2SN OR BX	1030560000	C.95
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SCD 3.81/26/90G 3.2SN BK BX	1973220000	C.92
SCD 3.81/26/90G 3.2SN OR BX	1972900000	C.92
SCD 3.81/28/180F 3.2SN BK BX	1030920000	C.95
SCD 3.81/28/180F 3.2SN OR BX	1030570000	C.95
SCD 3.81/28/180G 3.2SN BK BX	1030410000	C.94
SCD 3.81/28/180G 3.2SN OR BX	1030060000	C.94
SCD 3.81/28/90F 3.2SN BK BX	1973700000	C.93
SCD 3.81/28/90F 3.2SN OR BX	1973380000	C.93
SCD 3.81/28/90G 3.2SN BK BX	1973230000	C.92
SCD 3.81/28/90G 3.2SN OR BX	1972910000	C.92
SCD 3.81/30/180F 3.2SN BK BX	1030930000	C.95
SCD 3.81/30/180F 3.2SN OR BX	1030580000	C.95
SCD 3.81/30/180G 3.2SN BK BX	1030420000	C.94
SCD 3.81/30/180G 3.2SN OR BX	1030070000	C.94
SCD 3.81/30/90F 3.2SN BK BX	1973710000	C.93
SCD 3.81/30/90F 3.2SN OR BX	1973390000	C.93
SCD 3.81/30/90G 3.2SN BK BX	1973240000	C.92
SCD 3.81/30/90G 3.2SN OR BX	1972920000	C.92
SCD 3.81/32/180F 3.2SN BK BX	1030940000	C.95
SCD 3.81/32/180F 3.2SN OR BX	1030590000	C.95
SCD 3.81/32/180G 3.2SN BK BX	1030430000	C.94
SCD 3.81/32/180G 3.2SN OR BX	1030080000	C.94
SCD 3.81/32/90F 3.2SN BK BX	1973720000	C.93
SCD 3.81/32/90F 3.2SN OR BX	1973400000	C.93
SCD 3.81/32/90G 3.2SN BK BX	1973250000	C.92
SCD 3.81/32/90G 3.2SN OR BX	1972930000	C.92
SCD-THR 3.81/04/180F 1.5SN BK BX	1031860000	C.77
SCD-THR 3.81/04/180F 3.2SN BK BX	1031460000	C.77
SCD-THR 3.81/04/180G 1.5SN BK BX	1031290000	C.76
SCD-THR 3.81/04/180G 3.2SN BK BX	1030950000	C.76
SCD-THR 3.81/04/90F 1.5SN BK BX	1974830000	C.75
SCD-THR 3.81/04/90F 3.2SN BK BX	1974180000	C.75
SCD-THR 3.81/04/90G 1.5SN BK BX	1974030000	C.74
SCD-THR 3.81/04/90G 3.2SN BK BX	1973730000	C.74
SCD-THR 3.81/06/180F 1.5SN BK BX	1031870000	C.77
SCD-THR 3.81/06/180F 3.2SN BK BX	1031470000	C.77
SCD-THR 3.81/06/180G 1.5SN BK BX	1031310000	C.76
SCD-THR 3.81/06/180G 3.2SN BK BX	1030960000	C.76
SCD-THR 3.81/06/90F 1.5SN BK BX	1974870000	C.75
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SCD-THR 3.81/06/90G 1.5SN BK BX	1974040000	C.74
SCD-THR 3.81/06/90G 3.2SN BK BX	1973740000	C.74
SCD-THR 3.81/08/180F 1.5SN BK BX	1031890000	C.77
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SCD-THR 3.81/08/180G 1.5SN BK BX	1031320000	C.76
SCD-THR 3.81/08/180G 3.2SN BK BX	1030970000	C.76
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SCD-THR 3.81/08/90F 3.2SN BK BX	1974200000	C.75
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SCD-THR 3.81/08/90G 3.2SN BK BX	1973750000	C.74
SCD-THR 3.81/10/180F 1.5SN BK BX	1031910000	C.77
SCD-THR 3.81/10/180F 3.2SN BK BX	1031510000	C.77
SCD-THR 3.81/10/180G 1.5SN BK BX	1031330000	C.76
SCD-THR 3.81/10/180G 3.2SN BK BX	1030980000	C.76
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SCD-THR 3.81/18/180G 1.5SN BK BX	1031370000	C.76
SCD-THR 3.81/18/180G 3.2SN BK BX	1031030000	C.76
SCD-THR 3.81/18/90F 1.5SN BK BX	1975010000	C.75
SCD-THR 3.81/18/90F 3.2SN BK BX	1974250000	C.75

Type	Order No.	Page
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SCD-THR 3.81/18/90G 3.2SN BK BX	1973800000	C.74
SCD-THR 3.81/20/180F 1.5SN BK BX	1031960000	C.77
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SCD-THR 3.81/20/90G 3.2SN BK BX	1973810000	C.74
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SCDN 3.81/22/90G 3.2SN OR BX	1040520000	C.96
SCDN 3.81/24/90F 3.2SN BK BX	1041430000	C.97

Type	Order No.	Page
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SCDN 3.81/26/90G 3.2SN OR BX	1040540000	C.96
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SCDN 3.81/28/90F 3.2SN OR BX	1041080000	C.97
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SCDV 3.81/04/180G 3.2SN OR BX	1034470000	C.100
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SCDV 3.81/04/90F 3.2SN OR BX	1032580000	C.99
SCDV 3.81/04/90G 3.2SN BK BX	1032430000	C.98
SCDV 3.81/04/90G 3.2SN OR BX	1032090000	C.98
SCDV 3.81/06/180F 3.2SN BK BX	1035320000	C.101
SCDV 3.81/06/180F 3.2SN OR BX	1034990000	C.101
SCDV 3.81/06/180G 3.2SN BK BX	1034830000	C.100
SCDV 3.81/06/180G 3.2SN OR BX	1034490000	C.100
SCDV 3.81/06/90F 3.2SN BK BX	1032930000	C.99
SCDV 3.81/06/90F 3.2SN OR BX	1032590000	C.99
SCDV 3.81/06/90G 3.2SN BK BX	1032440000	C.98
SCDV 3.81/06/90G 3.2SN OR BX	1032110000	C.98
SCDV 3.81/08/180F 3.2SN BK BX	1035330000	C.101
SCDV 3.81/08/180F 3.2SN OR BX	1035010000	C.101
SCDV 3.81/08/180G 3.2SN BK BX	1034840000	C.100
SCDV 3.81/08/180G 3.2SN OR BX	1034510000	C.100

Type	Order No.	Page
SCDV 3.81/08/90F 3.2SN BK BX	1032940000	C.99
SCDV 3.81/08/90F 3.2SN OR BX	1032600000	C.99
SCDV 3.81/08/90G 3.2SN BK BX	1032450000	C.98
SCDV 3.81/08/90G 3.2SN OR BX	1032120000	C.98
SCDV 3.81/10/180F 3.2SN BK BX	1035340000	C.101
SCDV 3.81/10/180F 3.2SN OR BX	1035020000	C.101
SCDV 3.81/10/180G 3.2SN BK BX	1034850000	C.100
SCDV 3.81/10/180G 3.2SN OR BX	1034520000	C.100
SCDV 3.81/10/90F 3.2SN BK BX	1032950000	C.99
SCDV 3.81/10/90F 3.2SN OR BX	1032610000	C.99
SCDV 3.81/10/90G 3.2SN BK BX	1032460000	C.98
SCDV 3.81/10/90G 3.2SN OR BX	1032130000	C.98
SCDV 3.81/12/180F 3.2SN BK BX	1035350000	C.101
SCDV 3.81/12/180F 3.2SN OR BX	1035030000	C.101
SCDV 3.81/12/180G 3.2SN BK BX	1034860000	C.100
SCDV 3.81/12/180G 3.2SN OR BX	1034530000	C.100
SCDV 3.81/12/90F 3.2SN BK BX	1032960000	C.99
SCDV 3.81/12/90F 3.2SN OR BX	1032620000	C.99
SCDV 3.81/12/90G 3.2SN BK BX	1032470000	C.98
SCDV 3.81/12/90G 3.2SN OR BX	1032140000	C.98
SCDV 3.81/14/180F 3.2SN BK BX	1035360000	C.101
SCDV 3.81/14/180F 3.2SN OR BX	1035040000	C.101
SCDV 3.81/14/180G 3.2SN BK BX	1034870000	C.100
SCDV 3.81/14/180G 3.2SN OR BX	1034540000	C.100
SCDV 3.81/14/90F 3.2SN BK BX	1032970000	C.99
SCDV 3.81/14/90F 3.2SN OR BX	1032630000	C.99
SCDV 3.81/14/90G 3.2SN BK BX	1032480000	C.98
SCDV 3.81/14/90G 3.2SN OR BX	1032150000	C.98
SCDV 3.81/16/180F 3.2SN BK BX	1035370000	C.101
SCDV 3.81/16/180F 3.2SN OR BX	1035050000	C.101
SCDV 3.81/16/180G 3.2SN BK BX	1034880000	C.100
SCDV 3.81/16/180G 3.2SN OR BX	1034550000	C.100
SCDV 3.81/16/90F 3.2SN BK BX	1032990000	C.99
SCDV 3.81/16/90F 3.2SN OR BX	1032640000	C.99
SCDV 3.81/16/90G 3.2SN BK BX	1032490000	C.98
SCDV 3.81/16/90G 3.2SN OR BX	1032160000	C.98
SCDV 3.81/18/180F 3.2SN BK BX	1035380000	C.101
SCDV 3.81/18/180F 3.2SN OR BX	1035060000	C.101
SCDV 3.81/18/180G 3.2SN BK BX	1034890000	C.100
SCDV 3.81/18/180G 3.2SN OR BX	1034560000	C.100
SCDV 3.81/18/90F 3.2SN BK BX	1033010000	C.99
SCDV 3.81/18/90F 3.2SN OR BX	1032650000	C.99
SCDV 3.81/18/90G 3.2SN BK BX	1032500000	C.98
SCDV 3.81/18/90G 3.2SN OR BX	1032170000	C.98
SCDV 3.81/20/180F 3.2SN BK BX	1035390000	C.101
SCDV 3.81/20/180F 3.2SN OR BX	1035070000	C.101
SCDV 3.81/20/180G 3.2SN BK BX	1034910000	C.100
SCDV 3.81/20/180G 3.2SN OR BX	1034570000	C.100
SCDV 3.81/20/90F 3.2SN BK BX	1033020000	C.99
SCDV 3.81/20/90F 3.2SN OR BX	1032660000	C.99
SCDV 3.81/20/90G 3.2SN BK BX	1032510000	C.98
SCDV 3.81/20/90G 3.2SN OR BX	1032190000	C.98
SCDV 3.81/22/180F 3.2SN BK BX	1035410000	C.101
SCDV 3.81/22/180F 3.2SN OR BX	1035080000	C.101
SCDV 3.81/22/180G 3.2SN BK BX	1034920000	C.100
SCDV 3.81/22/180G 3.2SN OR BX	1034580000	C.100
SCDV 3.81/22/90F 3.2SN BK BX	1033030000	C.99
SCDV 3.81/22/90F 3.2SN OR BX	1032670000	C.99
SCDV 3.81/22/90G 3.2SN BK BX	1032520000	C.98
SCDV 3.81/22/90G 3.2SN OR BX	1032200000	C.98
SCDV 3.81/24/180F 3.2SN BK BX	1035420000	C.101
SCDV 3.81/24/180F 3.2SN OR BX	1035090000	C.101
SCDV 3.81/24/180G 3.2SN BK BX	1034930000	C.100
SCDV 3.81/24/180G 3.2SN OR BX	1034590000	C.100
SCDV 3.81/24/90F 3.2SN BK BX	1033040000	C.99
SCDV 3.81/24/90F 3.2SN OR BX	1032680000	C.99
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SCDV 3.81/24/90G 3.2SN OR BX	1032210000	C.98
SCDV 3.81/26/180F 3.2SN BK BX	1035430000	C.101
SCDV 3.81/26/180F 3.2SN OR BX	1035110000	C.101
SCDV 3.81/26/180G 3.2SN BK BX	1034940000	C.100
SCDV 3.81/26/180G 3.2SN OR BX	1034610000	C.100
SCDV 3.81/26/90F 3.2SN BK BX	1033050000	C.99
SCDV 3.81/26/90F 3.2SN OR BX	1032690000	C.99
SCDV 3.81/26/90G 3.2SN BK BX	1032540000	C.98
SCDV 3.81/26/90G 3.2SN OR BX	1032220000	C.98
SCDV 3.81/28/180F 3.2SN BK BX	1035440000	C.101
SCDV 3.81/28/180F 3.2SN OR BX	1035120000	C.101
SCDV 3.81/28/180G 3.2SN BK BX	1034950000	C.100
SCDV 3.81/28/180G 3.2SN OR BX	1034620000	C.100
SCDV 3.81/28/90F 3.2SN BK BX	1033060000	C.99
SCDV 3.81/28/90F 3.2SN OR BX	1032710000	C.99
SCDV 3.81/28/90G 3.2SN BK BX	1032550000	C.98
SCDV 3.81/28/90G 3.2SN OR BX	1032230000	C.98
SCDV 3.81/30/180F 3.2SN BK BX	1035450000	C.101
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SCDV 3.81/30/180G 3.2SN BK BX	1034960000	C.100
SCDV 3.81/30/180G 3.2SN OR BX	1034630000	C.100
SCDV 3.81/30/90F 3.2SN BK BX	1033070000	C.99
SCDV 3.81/30/90F 3.2SN OR BX	1032720000	C.99
SCDV 3.81/30/90G 3.2SN BK BX	1032560000	C.98
SCDV 3.81/30/90G 3.2SN OR BX	1032240000	C.98
SCDV 3.81/32/180F 3.2SN BK BX	1035460000	C.101
SCDV 3.81/32/180F 3.2SN OR BX	1035140000	C.101
SCDV 3.81/32/180G 3.2SN BK BX	1034970000	C.100
SCDV 3.81/32/180G 3.2SN OR BX	1034640000	C.100
SCDV 3.81/32/90F 3.2SN BK BX	1033090000	C.99
SCDV 3.81/32/90F 3.2SN OR BX	1032730000	C.99
SCDV 3.81/32/90G 3.2SN BK BX	1032570000	C.98

Type	Order No.	Page
SCDV 3.81/32/90G 3.2SN OR BX	1032250000	C.98
SCDV-THR 3.81/04/180F 1.5SN BK BX	1036320000	C.83
SCDV-THR 3.81/04/180F 3.2SN BK BX	1035950000	C.83
SCDV-THR 3.81/04/180G 1.5SN BK BX	1035790000	C.82
SCDV-THR 3.81/04/180G 3.2SN BK BX	1035470000	C.82
SCDV-THR 3.81/04/90F 1.5SN BK BX	1034310000	C.81
SCDV-THR 3.81/04/90F 3.2SN BK BX	1033970000	C.81
SCDV-THR 3.81/04/90G 1.5SN BK BX	1033820000	C.80
SCDV-THR 3.81/04/90G 3.2SN BK BX	1033490000	C.80
SCDV-THR 3.81/06/180F 1.5SN BK BX	1036330000	C.83
SCDV-THR 3.81/06/180F 3.2SN BK BX	1035960000	C.83
SCDV-THR 3.81/06/180G 1.5SN BK BX	1035800000	C.82
SCDV-THR 3.81/06/180G 3.2SN BK BX	1035480000	C.82
SCDV-THR 3.81/06/90F 1.5SN BK BX	1034320000	C.81
SCDV-THR 3.81/06/90F 3.2SN BK BX	1033980000	C.81
SCDV-THR 3.81/06/90G 1.5SN BK BX	1033830000	C.80
SCDV-THR 3.81/06/90G 3.2SN BK BX	1033510000	C.80
SCDV-THR 3.81/08/180F 1.5SN BK BX	1036340000	C.83
SCDV-THR 3.81/08/180F 3.2SN BK BX	1035970000	C.83
SCDV-THR 3.81/08/180G 1.5SN BK BX	1035810000	C.82
SCDV-THR 3.81/08/180G 3.2SN BK BX	1035490000	C.82
SCDV-THR 3.81/08/90F 1.5SN BK BX	1034330000	C.81
SCDV-THR 3.81/08/90F 3.2SN BK BX	1033990000	C.81
SCDV-THR 3.81/08/90G 1.5SN BK BX	1033840000	C.80
SCDV-THR 3.81/08/90G 3.2SN BK BX	1033520000	C.80
SCDV-THR 3.81/10/180F 1.5SN BK BX	1036350000	C.83
SCDV-THR 3.81/10/180F 3.2SN BK BX	1035980000	C.83
SCDV-THR 3.81/10/180G 1.5SN BK BX	1035820000	C.82
SCDV-THR 3.81/10/180G 3.2SN BK BX	1035510000	C.82
SCDV-THR 3.81/10/90F 1.5SN BK BX	1034340000	C.81
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SCDV-THR 3.81/10/90G 1.5SN BK BX	1033850000	C.80
SCDV-THR 3.81/10/90G 3.2SN BK BX	1033530000	C.80
SCDV-THR 3.81/12/180F 1.5SN BK BX	1036360000	C.83
SCDV-THR 3.81/12/180F 3.2SN BK BX	1035990000	C.83
SCDV-THR 3.81/12/180G 1.5SN BK BX	1035830000	C.82
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SCDV-THR 3.81/14/180G 1.5SN BK BX	1035840000	C.82
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SCDV-THR 3.81/14/90F 1.5SN BK BX	1034360000	C.81
SCDV-THR 3.81/14/90F 3.2SN BK BX	1034030000	C.81
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SCDV-THR 3.81/16/90F 1.5SN BK BX	1034370000	C.81
SCDV-THR 3.81/16/90F 3.2SN BK BX	1034040000	C.81
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SCDV-THR 3.81/16/90G 3.2SN BK BX	1033560000	C.80
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SCDV-THR 3.81/18/180F 3.2SN BK BX	1036030000	C.83
SCDV-THR 3.81/18/180G 1.5SN BK BX	1035860000	C.82
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SCDV-THR 3.81/18/90F 3.2SN BK BX	1034050000	C.81
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SCDV-THR 3.81/18/90G 3.2SN BK BX	1033570000	C.80
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SCDV-THR 3.81/20/180F 3.2SN BK BX	1036040000	C.83
SCDV-THR 3.81/20/180G 1.5SN BK BX	1035870000	C.82
SCDV-THR 3.81/20/180G 3.2SN BK BX	1035560000	C.82
SCDV-THR 3.81/20/90F 1.5SN BK BX	1034390000	C.81
SCDV-THR 3.81/20/90F 3.2SN BK BX	1034060000	C.81
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SCDV-THR 3.81/22/180F 3.2SN BK BX	1036050000	C.83
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SCDV-THR 3.81/22/180G 3.2SN BK BX	1035570000	C.82
SCDV-THR 3.81/22/90F 1.5SN BK BX	1034410000	C.81
SCDV-THR 3.81/22/90F 3.2SN BK BX	1034070000	C.81
SCDV-THR 3.81/22/90G 1.5SN BK BX	1033910000	C.80
SCDV-THR 3.81/22/90G 3.2SN BK BX	1033590000	C.80
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SCDV-THR 3.81/24/180F 3.2SN BK BX	1036060000	C.83
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SCDV-THR 3.81/24/180G 3.2SN BK BX	1035580000	C.82
SCDV-THR 3.81/24/90F 1.5SN BK BX	1034420000	C.81
SCDV-THR 3.81/24/90F 3.2SN BK BX	1034080000	C.81
SCDV-THR 3.81/24/90G 1.5SN BK BX	1033920000	C.80
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SCDV-THR 3.81/26/180F 3.2SN BK BX	1036070000	C.83
SCDV-THR 3.81/26/180G 1.5SN BK BX	1035910000	C.82
SCDV-THR 3.81/26/180G 3.2SN BK BX	1035590000	C.82
SCDV-THR 3.81/26/90F 1.5SN BK BX	1034430000	C.81
SCDV-THR 3.81/26/90F 3.2SN BK BX	1034090000	C.81
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SCDV-THR 3.81/26/90G 3.2SN BK BX	1033610000	C.80
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SCDV-THR 3.81/28/180F 3.2SN BK BX	1036080000	C.83
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SCDV-THR 3.81/28/180G 3.2SN BK BX	1035610000	C.82
SCDV-THR 3.81/28/90F 1.5SN BK BX	1034440000	C.81
SCDV-THR 3.81/28/90F 3.2SN BK BX	1034110000	C.81
SCDV-THR 3.81/28/90G 1.5SN BK BX	1033940000	C.80
SCDV-THR 3.81/28/90G 3.2SN BK BX	1033620000	C.80
SCDV-THR 3.81/30/180F 1.5SN BK BX	1036460000	C.83
SCDV-THR 3.81/30/180F 3.2SN BK BX	1036090000	C.83
SCDV-THR 3.81/30/180G 1.5SN BK BX	1035930000	C.82
SCDV-THR 3.81/30/180G 3.2SN BK BX	1035620000	C.82
SCDV-THR 3.81/30/90F 1.5SN BK BX	1034450000	C.81
SCDV-THR 3.81/30/90F 3.2SN BK BX	1034120000	C.81
SCDV-THR 3.81/30/90G 1.5SN BK BX	1033950000	C.80
SCDV-THR 3.81/30/90G 3.2SN BK BX	1033630000	C.80
SCDV-THR 3.81/32/180F 1.5SN BK BX	1036470000	C.83
SCDV-THR 3.81/32/180F 3.2SN BK BX	1036110000	C.83
SCDV-THR 3.81/32/180G 1.5SN BK BX	1035940000	C.82
SCDV-THR 3.81/32/180G 3.2SN BK BX	1035630000	C.82
SCDV-THR 3.81/32/90F 1.5SN BK BX	1034460000	C.81
SCDV-THR 3.81/32/90F 3.2SN BK BX	1034130000	C.81
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SCZ 3.81/02/180F SN BK BX	1971290000	C.103
SCZ 3.81/02/180F SN OR BX	1970910000	C.103
SCZ 3.81/02/180FI SN BK BX	1970700000	C.103
SCZ 3.81/02/180FI SN OR BX	1970260000	C.103
SCZ 3.81/02/180G SN BK BX	1970010000	C.102
SCZ 3.81/02/180G SN OR BX	1969520000	C.102
SCZ 3.81/02/180LR SN BK BX	1971980000	C.103
SCZ 3.81/02/180LR SN OR BX	1971580000	C.103
SCZ 3.81/03/180F SN BK BX	1971310000	C.103
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SCZ 3.81/03/180FI SN BK BX	1970710000	C.103
SCZ 3.81/03/180FI SN OR BX	1970270000	C.103
SCZ 3.81/03/180G SN BK BX	1970020000	C.102
SCZ 3.81/03/180G SN OR BX	1969540000	C.102
SCZ 3.81/03/180LR SN BK BX	1971990000	C.103
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SCZ 3.81/04/180F SN BK BX	1971320000	C.103
SCZ 3.81/04/180F SN OR BX	1970930000	C.103
SCZ 3.81/04/180FI SN BK BX	1970720000	C.103
SCZ 3.81/04/180FI SN OR BX	1970310000	C.103
SCZ 3.81/04/180FIZE SN BK BX	1237440000	C.105
SCZ 3.81/04/180FIZE SN OR BX	1237550000	C.105
SCZ 3.81/04/180FZE SN BK BX	1237110000	C.105
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SCZ 3.81/04/180G SN BK BX	1970030000	C.102
SCZ 3.81/04/180G SN OR BX	1969560000	C.102
SCZ 3.81/04/180GZE SN BK BX	1236990000	C.104
SCZ 3.81/04/180GZE SN OR BX	1237000000	C.104
SCZ 3.81/04/180LR SN BK BX	1972010000	C.103
SCZ 3.81/04/180LR SN OR BX	1971610000	C.103
SCZ 3.81/04/180LRZE SN BK BX	1237230000	C.105
SCZ 3.81/04/180LRZE SN OR BX	1237340000	C.105
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SCZ 3.81/05/180FI SN BK BX	1970740000	C.103
SCZ 3.81/05/180FI SN OR BX	1970320000	C.103
SCZ 3.81/05/180FIZE SN BK BX	1237450000	C.105
SCZ 3.81/05/180FIZE SN OR BX	1237560000	C.105
SCZ 3.81/05/180FZE SN BK BX	1071790000	C.105
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SCZ 3.81/05/180G SN OR BX	1969570000	C.102
SCZ 3.81/05/180GZE SN BK BX	1071710000	C.104
SCZ 3.81/05/180GZE SN OR BX	1237010000	C.104
SCZ 3.81/05/180LR SN BK BX	1972020000	C.103
SCZ 3.81/05/180LR SN OR BX	1971630000	C.103
SCZ 3.81/05/180LRZE SN BK BX	1237240000	C.105
SCZ 3.81/05/180LRZE SN OR BX	1237350000	C.105
SCZ 3.81/06/180F SN BK BX	1971350000	C.103
SCZ 3.81/06/180F SN OR BX	1970960000	C.103
SCZ 3.81/06/180FI SN BK BX	1970760000	C.103
SCZ 3.81/06/180FI SN OR BX	1970340000	C.103
SCZ 3.81/06/180FIZE SN BK BX	1237470000	C.105
SCZ 3.81/06/180FIZE SN OR BX	1237570000	C.105
SCZ 3.81/06/180FZE SN BK BX	1071810000	C.105
SCZ 3.81/06/180FZE SN OR BX	1237140000	C.105
SCZ 3.81/06/180G SN BK BX	1970060000	C.102
SCZ 3.81/06/180G SN OR BX	1969580000	C.102
SCZ 3.81/06/180GZE SN BK BX	1071720000	C.104
SCZ 3.81/06/180GZE SN OR BX	1237020000	C.104
SCZ 3.81/06/180LR SN BK BX	1972040000	C.103
SCZ 3.81/06/180LR SN OR BX	1971640000	C.103
SCZ 3.81/06/180LRZE SN BK BX	1237270000	C.105
SCZ 3.81/06/180LRZE SN OR BX	1237370000	C.105
SCZ 3.81/07/180F SN BK BX	1971360000	C.103
SCZ 3.81/07/180F SN OR BX	1970970000	C.103
SCZ 3.81/07/180FI SN BK BX	1970770000	C.103
SCZ 3.81/07/180FI SN OR BX	1970350000	C.103
SCZ 3.81/07/180FIZE SN BK BX	1237480000	C.105
SCZ 3.81/07/180FIZE SN OR BX	1237580000	C.105
SCZ 3.81/07/180FZE SN BK BX	1071820000	C.105
SCZ 3.81/07/180FZE SN OR BX	1237170000	C.105
SCZ 3.81/07/180G SN BK BX	1970070000	C.102
SCZ 3.81/07/180G SN OR BX	1969590000	C.102
SCZ 3.81/07/180GZE SN BK BX	1071730000	C.104
SCZ 3.81/07/180GZE SN OR BX	1237030000	C.104
SCZ 3.81/07/180LR SN BK BX	1972050000	C.103
SCZ 3.81/07/180LR SN OR BX	1971660000	C.103
SCZ 3.81/07/180LRZE SN BK BX	1237280000	C.105
SCZ 3.81/07/180LRZE SN OR BX	1237380000	C.105
SCZ 3.81/08/180F SN BK BX	1971370000	C.103
SCZ 3.81/08/180F SN OR BX	1970980000	C.103
SCZ 3.81/08/180FI SN BK BX	1970780000	C.103
SCZ 3.81/08/180FI SN OR BX	1970360000	C.103
SCZ 3.81/08/180FIZE SN BK BX	1237490000	C.105
SCZ 3.81/08/180FIZE SN OR BX	1237590000	C.105
SCZ 3.81/08/180FZE SN BK BX	1071830000	C.105
SCZ 3.81/08/180FZE SN OR BX	1237180000	C.105
SCZ 3.81/08/180G SN BK BX	1970080000	C.102
SCZ 3.81/08/180G SN OR BX	1969610000	C.102
SCZ 3.81/08/180GZE SN BK BX	1071740000	C.104
SCZ 3.81/08/180GZE SN OR BX	1237040000	C.104
SCZ 3.81/08/180LR SN BK BX	1972060000	C.103
SCZ 3.81/08/180LR SN OR BX	1971670000	C.103
SCZ 3.81/08/180LRZE SN BK BX	1237290000	C.105
SCZ 3.81/08/180LRZE SN OR BX	1237390000	C.105
SCZ 3.81/09/180F SN BK BX	1971400000	C.103
SCZ 3.81/09/180F SN OR BX	1970990000	C.103
SCZ 3.81/09/180FI SN BK BX	1970790000	C.103
SCZ 3.81/09/180FI SN OR BX	1970390000	C.103
SCZ 3.81/09/180FIZE SN BK BX	1237510000	C.105
SCZ 3.81/09/180FIZE SN OR BX	1237610000	C.105
SCZ 3.81/09/180FZE SN BK BX	1071840000	C.105
SCZ 3.81/09/180FZE SN OR BX	1237190000	C.105
SCZ 3.81/09/180G SN BK BX	1970090000	C.102
SCZ 3.81/09/180G SN OR BX	1969630000	C.102
SCZ 3.81/09/180GZE SN BK BX	1071750000	C.104
SCZ 3.81/09/180GZE SN OR BX	1237070000	C.104
SCZ 3.81/09/180LR SN BK BX	1972080000	C.103
SCZ 3.81/09/180LR SN OR BX	1971680000	C.103
SCZ 3.81/09/180LRZE SN BK BX	1237300000	C.105
SCZ 3.81/09/180LRZE SN OR BX	1237400000	C.105
SCZ 3.81/10/180F SN BK BX	1971410000	C.103
SCZ 3.81/10/180F SN OR BX	1971000000	C.103
SCZ 3.81/10/180FI SN BK BX	1970800000	C.103
SCZ 3.81/10/180FI SN OR BX	1970410000	C.103
SCZ 3.81/10/180FIZE SN BK BX	1237520000	C.105
SCZ 3.81/10/180FIZE SN OR BX	1237620000	C.105
SCZ 3.81/10/180FZE SN BK BX	1071850000	C.105
SCZ 3.81/10/180FZE SN OR BX	1237200000	C.105
SCZ 3.81/10/180G SN BK BX	1970100000	C.102
SCZ 3.81/10/180G SN OR BX	1969640000	C.102
SCZ 3.81/10/180GZE SN BK BX	1071760000	C.104
SCZ 3.81/10/180GZE SN OR BX	1237080000	C.104
SCZ 3.81/10/180LR SN BK BX	1972090000	C.103
SCZ 3.81/10/180LR SN OR BX	1971690000	C.103
SCZ 3.81/10/180LRZE SN BK BX	1237310000	C.105
SCZ 3.81/10/180LRZE SN OR BX	1237410000	C.105
SCZ 3.81/11/180F SN BK BX	1971510000	C.103
SCZ 3.81/11/180F SN OR BX	1971010000	C.103
SCZ 3.81/11/180FI SN BK BX	1970810000	C.103
SCZ 3.81/11/180FI SN OR BX	1970420000	C.103
SCZ 3.81/11/180FIZE SN BK BX	1237530000	C.105
SCZ 3.81/11/180FIZE SN OR BX	1237630000	C.105
SCZ 3.81/11/180FZE SN BK BX	1071860000	C.105
SCZ 3.81/11/180FZE SN OR BX	1237210000	C.105
SCZ 3.81/11/180G SN BK BX	1970110000	C.102
SCZ 3.81/11/180G SN OR BX	1969660000	C.102
SCZ 3.81/11/180GZE SN BK BX	1071770000	C.104
SCZ 3.81/11/180GZE SN OR BX	1237090000	C.104
SCZ 3.81/11/180LR SN BK BX	1972110000	C.103
SCZ 3.81/11/180LR SN OR BX	1971700000	C.103
SCZ 3.81/11/180LRZE SN BK BX	1237320000	C.105
SCZ 3.81/11/180LRZE SN OR BX	1237420000	C.105
SCZ 3.81/12/180F SN BK BX	1971520000	C.103
SCZ 3.81/12/180F SN OR BX	1971020000	C.103
SCZ 3.81/12/180FI SN BK BX	1970830000	C.103
SCZ 3.81/12/180FI SN OR BX	1970430000	C.103
SCZ 3.81/12/180FIZE SN BK BX	1237540000	C.105
SCZ 3.81/12/180FIZE SN OR BX	1237640000	C.105
SCZ 3.81/12/180FZE SN BK BX	1071870000	C.105
SCZ 3.81/12/180FZE SN OR BX	1237220000	C.105
SCZ 3.81/12/180G SN BK BX	1970120000	C.102
SCZ 3.81/12/180G SN OR BX	1969670000	C.102
SCZ 3.81/12/180GZE SN BK BX	1071780000	C.104
SCZ 3.81/12/180GZE SN OR BX	1237100000	C.104
SCZ 3.81/12/180LR SN BK BX	1972120000	C.103
SCZ 3.81/12/180LR SN OR BX	1971710000	C.103
SCZ 3.81/12/180LRZE SN BK BX	1237330000	C.105
SCZ 3.81/12/180LRZE SN OR BX	1237430000	C.105
SDIK PZ2	9008890000	E.10
SDIS 0.4X2.5X75	9008370000	D.22
SDIS 0.5X3.0X100	9008380000	D.22
SDIS 0.6X3.5X100	9008390000	D.22
SDIS 0.8X4.0X100	9008400000	D.22
SDIS 1.0X4.5X125	9008910000	D.22
SDIS 1.0X5.5X125	9008410000	D.22
SDIS 1.2X6.5X150	9008420000	D.22
SDIS 1.6X8.0X175	9008430000	D.22
SDK PH0	9008470000	D.22
SDK PH1	9008480000	J.3
SDK PH2	9008490000	D.22
SDK PH3	9008500000	D.22
SDK PZ1	9008530000	J.3
SDK PZ2	9008540000	D.22
SDK PZ3	9008550000	D.22

Type	Order No.	Page
SDS 0.4X2.5X75	9009030000	D.22
SDS 0.5X3.0X80	9008320000	D.22
SDS 0.6X3.5X100	9008330000	J.3
SDS 0.8X4.0X100	9008340000	D.22
SDS 0.8X4.0X125	9009020000	D.22
SDS 1.0X5.5X150	9008350000	D.22
SDS 1.2X6.5X150	9009010000	D.22
SF 10 BEZ. 0-9	0332400000	D.18
SF 10 BEZ. 1-10	0331500001	D.18
SF 10 BEZ. 11-20	0331500011	D.18
SG 10	0332500000	D.18
SG 10 BEZ. 1	0332500001	D.18
SG 10 BEZ. 2	0332500002	D.18
SG 10 BEZ. 3	0332500003	D.18
SG 10 BEZ. 4	0332500004	D.18
SG 10 BEZ. 5	0332500005	D.18
SG 10 BEZ. 6	0332500006	D.18
SG 10 BEZ. 7	0332500007	D.18
SG 10 BEZ. 8	0332500008	D.18
SG 10 BEZ. 9	0332500009	D.18
SHL-SMT 5.00/02GL 1.5BX	1069620000	I.19
SHL-SMT 5.00/02GL 3.2BX	1069750000	I.19
SHL-SMT 5.00/02GL 4.2RL	1069650000	I.19
SHL-SMT 5.00/02GL 5.9RL	1069780000	I.19
SHL-SMT 5.00/02GR 1.5BX	1069550000	I.19
SHL-SMT 5.00/02GR 3.2BX	1069680000	I.19
SHL-SMT 5.00/02GR 4.2RL	1069580000	I.19
SHL-SMT 5.00/02GR 5.9RL	1069720000	I.19
SHL-SMT 5.00/03GL 1.5BX	1063210000	I.21
SHL-SMT 5.00/03GL 1.5RL	1063240000	I.21
SHL-SMT 5.00/03GL 4.2BX	1069630000	I.21
SHL-SMT 5.00/03GL 4.2RL	1069660000	I.21
SHL-SMT 5.00/03GL 5.9BX	1069760000	I.21
SHL-SMT 5.00/03GL 5.9RL	1069790000	I.21
SHL-SMT 5.00/03GR 1.5BX	1063140000	I.21
SHL-SMT 5.00/03GR 1.5RL	1063170000	I.21
SHL-SMT 5.00/03GR 4.2BX	1069560000	I.21
SHL-SMT 5.00/03GR 4.2RL	1069590000	I.21
SHL-SMT 5.00/03GR 5.9BX	1069690000	I.21
SHL-SMT 5.00/03GR 5.9RL	1069730000	I.21
SHL-SMT 5.00/04GL 1.5BX	1063220000	I.23
SHL-SMT 5.00/04GL 1.5RL	1063250000	I.23
SHL-SMT 5.00/04GL 4.2BX	1069640000	I.23
SHL-SMT 5.00/04GL 4.2RL	1069670000	I.23
SHL-SMT 5.00/04GL 5.9BX	1069770000	I.23
SHL-SMT 5.00/04GL 5.9RL	1069810000	I.23
SHL-SMT 5.00/04GR 1.5BX	1063150000	I.23
SHL-SMT 5.00/04GR 1.5RL	1063180000	I.23
SHL-SMT 5.00/04GR 4.2BX	1069570000	I.23
SHL-SMT 5.00/04GR 4.2RL	1069610000	I.23
SHL-SMT 5.00/04GR 5.9BX	1069710000	I.23
SHL-SMT 5.00/04GR 5.9RL	1069740000	I.23
SK DEMO CH20M12	1111630000	I.18
SK DEMO CH20M22	1105600000	I.22
SK DEMO CH20M45	1111640000	I.24
SK Demo CH20M6	1203310000	I.16
SL 135 BB15R OR	1606450000	D.6
SL 135 BB15R SW	1636370000	D.6
SL 3.5 FLA 1.5/1.75/8	1597630000	D.8
SL 3.5 FLA 1.5/8	1597510000	D.8
SL 3.5 FLA 2.3/1.75/8	1597640000	D.8
SL 3.5 FLA 2.3/8	1597520000	D.8
SL 3.5 FLA 4.0/1.75/8	1597650000	D.8
SL 3.5 FLA 4.0/8	1597530000	D.8
SL 3.50/02/135F 3.2SN OR BX	1643330000	C.36
SL 3.50/02/180 3.2SN OR BX	1604770000	C.34
SL 3.50/02/180F 3.2SN OR BX	1607500000	C.35
SL 3.50/02/180G 3.2SN OR BX	1604470000	C.35
SL 3.50/02/90 3.2SN OR BX	1597210000	C.32
SL 3.50/02/90F 3.2SN OR BX	1607040000	C.33
SL 3.50/02/90G 3.2SN OR BX	1605070000	C.33
SL 3.50/03/135F 3.2SN OR BX	1643340000	C.36
SL 3.50/03/180 3.2SN OR BX	1604780000	C.34
SL 3.50/03/180F 3.2SN OR BX	1607510000	C.35
SL 3.50/03/180G 3.2SN OR BX	1604480000	C.35
SL 3.50/03/90 3.2SN OR BX	1597220000	C.32
SL 3.50/03/90F 3.2SN OR BX	1607050000	C.33
SL 3.50/03/90G 3.2SN OR BX	1605080000	C.33
SL 3.50/04/135F 3.2SN OR BX	1643350000	C.36
SL 3.50/04/180 3.2SN OR BX	1604790000	C.34
SL 3.50/04/180F 3.2SN OR BX	1607520000	C.35
SL 3.50/04/180G 3.2SN OR BX	1604490000	C.35
SL 3.50/04/90 3.2SN OR BX	1597230000	C.32
SL 3.50/04/90F 3.2SN OR BX	1607060000	C.33
SL 3.50/04/90G 3.2SN OR BX	1605090000	C.33
SL 3.50/05/135F 3.2SN OR BX	1643360000	C.36
SL 3.50/05/180 3.2SN OR BX	1604800000	C.34
SL 3.50/05/180F 3.2SN OR BX	1607530000	C.35
SL 3.50/05/180G 3.2SN OR BX	1604500000	C.35
SL 3.50/05/90 3.2SN OR BX	1597240000	C.32
SL 3.50/05/90F 3.2SN OR BX	1607070000	C.33
SL 3.50/05/90G 3.2SN OR BX	1605100000	C.33
SL 3.50/06/135F 3.2SN OR BX	1643370000	C.36
SL 3.50/06/180 3.2SN OR BX	1604810000	C.34
SL 3.50/06/180F 3.2SN OR BX	1607540000	C.35
SL 3.50/06/180G 3.2SN OR BX	1604510000	C.35
SL 3.50/06/90 3.2SN OR BX	1597250000	C.32
SL 3.50/06/90F 3.2SN OR BX	1607080000	C.33
SL 3.50/06/90G 3.2SN OR BX	1605110000	C.33
SL 3.50/07/135F 3.2SN OR BX	1643380000	C.36
SL 3.50/07/180 3.2SN OR BX	1604820000	C.34
SL 3.50/07/180F 3.2SN OR BX	1607550000	C.35
SL 3.50/07/180G 3.2SN OR BX	1604520000	C.35
SL 3.50/07/90 3.2SN OR BX	1597260000	C.32
SL 3.50/07/90F 3.2SN OR BX	1607090000	C.33
SL 3.50/07/90G 3.2SN OR BX	1605120000	C.33
SL 3.50/08/135F 3.2SN OR BX	1643390000	C.36
SL 3.50/08/180 3.2SN OR BX	1604830000	C.34
SL 3.50/08/180F 3.2SN OR BX	1607560000	C.35
SL 3.50/08/180G 3.2SN OR BX	1604530000	C.35
SL 3.50/08/90 3.2SN OR BX	1597270000	C.32
SL 3.50/08/90F 3.2SN OR BX	1607100000	C.33
SL 3.50/08/90G 3.2SN OR BX	1605130000	C.33
SL 3.50/09/135F 3.2SN OR BX	1643400000	C.36
SL 3.50/09/180 3.2SN OR BX	1604840000	C.34
SL 3.50/09/180F 3.2SN OR BX	1607570000	C.35
SL 3.50/09/180G 3.2SN OR BX	1604540000	C.35
SL 3.50/09/90 3.2SN OR BX	1597280000	C.32
SL 3.50/09/90F 3.2SN OR BX	1607110000	C.33
SL 3.50/09/90G 3.2SN OR BX	1605140000	C.33
SL 3.50/10/135F 3.2SN OR BX	1643410000	C.36
SL 3.50/10/180 3.2SN OR BX	1604850000	C.34
SL 3.50/10/180F 3.2SN OR BX	1607580000	C.35
SL 3.50/10/180G 3.2SN OR BX	1604550000	C.35
SL 3.50/10/90 3.2SN OR BX	1597290000	C.32
SL 3.50/10/90F 3.2SN OR BX	1607120000	C.33
SL 3.50/10/90G 3.2SN OR BX	1605150000	C.33
SL 3.50/11/135F 3.2SN OR BX	1643420000	C.36
SL 3.50/11/180 3.2SN OR BX	1604860000	C.34
SL 3.50/11/180F 3.2SN OR BX	1607590000	C.35
SL 3.50/11/180G 3.2SN OR BX	1604560000	C.35
SL 3.50/11/90 3.2SN OR BX	1597300000	C.32
SL 3.50/11/90F 3.2SN OR BX	1607130000	C.33
SL 3.50/11/90G 3.2SN OR BX	1605160000	C.33
SL 3.50/12/135F 3.2SN OR BX	1643430000	C.36
SL 3.50/12/180 3.2SN OR BX	1604870000	C.34
SL 3.50/12/180F 3.2SN OR BX	1607600000	C.35
SL 3.50/12/180G 3.2SN OR BX	1604570000	C.35
SL 3.50/12/90 3.2SN OR BX	1597310000	C.32
SL 3.50/12/90F 3.2SN OR BX	1607140000	C.33
SL 3.50/12/90G 3.2SN OR BX	1605170000	C.33
SL 3.50/13/135F 3.2SN OR BX	1643440000	C.36
SL 3.50/13/180 3.2SN OR BX	1604880000	C.34
SL 3.50/13/180F 3.2SN OR BX	1607610000	C.35
SL 3.50/13/180G 3.2SN OR BX	1604580000	C.35
SL 3.50/13/90 3.2SN OR BX	1597320000	C.32
SL 3.50/13/90F 3.2SN OR BX	1607150000	C.33
SL 3.50/13/90G 3.2SN OR BX	1605180000	C.33
SL 3.50/14/135F 3.2SN OR BX	1643450000	C.36
SL 3.50/14/180 3.2SN OR BX	1604890000	C.34
SL 3.50/14/180F 3.2SN OR BX	1607620000	C.35
SL 3.50/14/180G 3.2SN OR BX	1604590000	C.35
SL 3.50/14/90 3.2SN OR BX	1597330000	C.32
SL 3.50/14/90F 3.2SN OR BX	1607160000	C.33
SL 3.50/14/90G 3.2SN OR BX	1605190000	C.33
SL 3.50/15/135F 3.2SN OR BX	1643460000	C.36
SL 3.50/15/180 3.2SN OR BX	1604900000	C.34
SL 3.50/15/180F 3.2SN OR BX	1607630000	C.35
SL 3.50/15/180G 3.2SN OR BX	1604600000	C.35
SL 3.50/15/90 3.2SN OR BX	1597340000	C.32
SL 3.50/15/90F 3.2SN OR BX	1607170000	C.33
SL 3.50/15/90G 3.2SN OR BX	1605200000	C.33
SL 3.50/16/135F 3.2SN OR BX	1643470000	C.36
SL 3.50/16/180 3.2SN OR BX	1604910000	C.34
SL 3.50/16/180F 3.2SN OR BX	1607640000	C.35
SL 3.50/16/180G 3.2SN OR BX	1604610000	C.35
SL 3.50/16/90 3.2SN OR BX	1597350000	C.32
SL 3.50/16/90F 3.2SN OR BX	1607180000	C.33
SL 3.50/16/90G 3.2SN OR BX	1605210000	C.33
SL 3.50/17/135F 3.2SN OR BX	1643480000	C.36
SL 3.50/17/180 3.2SN OR BX	1621400000	C.34
SL 3.50/17/180F 3.2SN OR BX	1622180000	C.35
SL 3.50/17/180G 3.2SN OR BX	1621790000	C.35
SL 3.50/17/90 3.2SN OR BX	1618990000	C.32
SL 3.50/17/90F 3.2SN OR BX	1619770000	C.33
SL 3.50/17/90G 3.2SN OR BX	1619380000	C.33
SL 3.50/18/135F 3.2SN OR BX	1643490000	C.36
SL 3.50/18/180 3.2SN OR BX	1621410000	C.34
SL 3.50/18/180F 3.2SN OR BX	1622190000	C.35
SL 3.50/18/180G 3.2SN OR BX	1621800000	C.35
SL 3.50/18/90 3.2SN OR BX	1619000000	C.32
SL 3.50/18/90F 3.2SN OR BX	1619780000	C.33
SL 3.50/18/90G 3.2SN OR BX	1619390000	C.33
SL 3.50/19/135F 3.2SN OR BX	1643500000	C.36
SL 3.50/19/180 3.2SN OR BX	1621420000	C.34
SL 3.50/19/180F 3.2SN OR BX	1622200000	C.35
SL 3.50/19/180G 3.2SN OR BX	1621810000	C.35
SL 3.50/19/90 3.2SN OR BX	1619010000	C.32
SL 3.50/19/90F 3.2SN OR BX	1619790000	C.33
SL 3.50/19/90G 3.2SN OR BX	1619400000	C.33
SL 3.50/20/135F 3.2SN OR BX	1643510000	C.36
SL 3.50/20/180 3.2SN OR BX	1621430000	C.34
SL 3.50/20/180F 3.2SN OR BX	1622210000	C.35
SL 3.50/20/180G 3.2SN OR BX	1621820000	C.35
SL 3.50/20/90 3.2SN OR BX	1619020000	C.32
SL 3.50/20/90F 3.2SN OR BX	1619800000	C.33
SL 3.50/20/90G 3.2SN OR BX	1619410000	C.33
SL 3.50/21/135F 3.2SN OR BX	1643520000	C.36
SL 3.50/21/180 3.2SN OR BX	1621440000	C.34
SL 3.50/21/180F 3.2SN OR BX	1622220000	C.35
SL 3.50/21/180G 3.2SN OR BX	1621830000	C.35
SL 3.50/21/90 3.2SN OR BX	1619030000	C.32
SL 3.50/21/90F 3.2SN OR BX	1619810000	C.33
SL 3.50/21/90G 3.2SN OR BX	1619420000	C.33
SL 3.50/22/135F 3.2SN OR BX	1643530000	C.36
SL 3.50/22/180 3.2SN OR BX	1621450000	C.34
SL 3.50/22/180F 3.2SN OR BX	1622230000	C.35
SL 3.50/22/180G 3.2SN OR BX	1621840000	C.35
SL 3.50/22/90 3.2SN OR BX	1619040000	C.32
SL 3.50/22/90F 3.2SN OR BX	1619820000	C.33
SL 3.50/22/90G 3.2SN OR BX	1619430000	C.33
SL 3.50/23/135F 3.2SN OR BX	1643540000	C.36
SL 3.50/23/180 3.2SN OR BX	1621460000	C.34
SL 3.50/23/180F 3.2SN OR BX	1622240000	C.35
SL 3.50/23/180G 3.2SN OR BX	1621850000	C.35
SL 3.50/23/90 3.2SN OR BX	1619050000	C.32
SL 3.50/23/90F 3.2SN OR BX	1619830000	C.33
SL 3.50/23/90G 3.2SN OR BX	1619440000	C.33
SL 3.50/24/135F 3.2SN OR BX	1643550000	C.36
SL 3.50/24/180 3.2SN OR BX	1621470000	C.34
SL 3.50/24/180F 3.2SN OR BX	1622250000	C.35
SL 3.50/24/180G 3.2SN OR BX	1621860000	C.35
SL 3.50/24/90 3.2SN OR BX	1619060000	C.32
SL 3.50/24/90F 3.2SN OR BX	1619840000	C.33
SL 3.50/24/90G 3.2SN OR BX	1619450000	C.33
SL 5.00/02/135 3.2SN OR BX	1630250000	C.148
SL 5.00/02/135B 3.2SN OR BX	1630480000	C.149
SL 5.00/02/180 3.2SN OR BX	1581320000	C.146
SL 5.00/02/180B 3.2SN OR BX	1581780000	C.147
SL 5.00/02/90 3.2SN OR BX	1571130000	C.144
SL 5.00/02/90B 3.2SN OR BX	1580860000	C.145
SL 5.00/03/135 3.2SN OR BX	1630260000	C.148
SL 5.00/03/135B 3.2SN OR BX	1630490000	C.149
SL 5.00/03/180 3.2SN OR BX	1581330000	C.146
SL 5.00/03/180B 3.2SN OR BX	1581790000	C.147
SL 5.00/03/90 3.2SN OR BX	1571140000	C.144
SL 5.00/03/90B 3.2SN OR BX	1580870000	C.145
SL 5.00/04/135 3.2SN OR BX	1630270000	C.148
SL 5.00/04/135B 3.2SN OR BX	1630500000	C.149
SL 5.00/04/180 3.2SN OR BX	1581340000	C.146
SL 5.00/04/180B 3.2SN OR BX	1581800000	C.147
SL 5.00/04/90 3.2SN OR BX	1571150000	C.144
SL 5.00/04/90B 3.2SN OR BX	1580880000	C.145
SL 5.00/05/135 3.2SN OR BX	1630280000	C.148
SL 5.00/05/135B 3.2SN OR BX	1630510000	C.149
SL 5.00/05/180 3.2SN OR BX	1581350000	C.146
SL 5.00/05/180B 3.2SN OR BX	1581810000	C.147
SL 5.00/05/90 3.2SN OR BX	1571160000	C.144
SL 5.00/05/90B 3.2SN OR BX	1580890000	C.145
SL 5.00/06/135 3.2SN OR BX	1630290000	C.148
SL 5.00/06/135B 3.2SN OR BX	1630520000	C.149
SL 5.00/06/180 3.2SN OR BX	1581360000	C.146
SL 5.00/06/180B 3.2SN OR BX	1581820000	C.147
SL 5.00/06/90 3.2SN OR BX	1571170000	C.144
SL 5.00/06/90B 3.2SN OR BX	1580900000	C.145
SL 5.00/07/135 3.2SN OR BX	1630300000	C.148
SL 5.00/07/135B 3.2SN OR BX	1630530000	C.149
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SL 5.00/07/180B 3.2SN OR BX	1581830000	C.147
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SL 5.00/07/90B 3.2SN OR BX	1580910000	C.145
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SL 5.00/08/135B 3.2SN OR BX	1630540000	C.149
SL 5.00/08/180 3.2SN OR BX	1581380000	C.146
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SL 5.00/08/90B 3.2SN OR BX	1580920000	C.145
SL 5.00/09/135 3.2SN OR BX	1630320000	C.148
SL 5.00/09/135B 3.2SN OR BX	1630550000	C.149
SL 5.00/09/180 3.2SN OR BX	1581390000	C.146
SL 5.00/09/180B 3.2SN OR BX	1581850000	C.147
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SL 5.00/09/90B 3.2SN OR BX	1580930000	C.145
SL 5.00/10/135 3.2SN OR BX	1630330000	C.148
SL 5.00/10/135B 3.2SN OR BX	1630560000	C.149
SL 5.00/10/180 3.2SN OR BX	1581400000	C.146
SL 5.00/10/180B 3.2SN OR BX	1581860000	C.147
SL 5.00/10/90 3.2SN OR BX	1571210000	C.144
SL 5.00/10/90B 3.2SN OR BX	1580940000	C.145
SL 5.00/11/135 3.2SN OR BX	1630340000	C.148
SL 5.00/11/135B 3.2SN OR BX	1630570000	C.149
SL 5.00/11/180 3.2SN OR BX	1581410000	C.146
SL 5.00/11/180B 3.2SN OR BX	1581870000	C.147
SL 5.00/11/90 3.2SN OR BX	1571220000	C.144
SL 5.00/11/90B 3.2SN OR BX	1580950000	C.145
SL 5.00/12/135 3.2SN OR BX	1630350000	C.148
SL 5.00/12/135B 3.2SN OR BX	1630580000	C.149
SL 5.00/12/180 3.2SN OR BX	1581420000	C.146
SL 5.00/12/180B 3.2SN OR BX	1581880000	C.147
SL 5.00/12/90 3.2SN OR BX	1571110000	C.144
SL 5.00/12/90B 3.2SN OR BX	1580960000	C.145
SL 5.00/13/135 3.2SN OR BX	1630360000	C.148
SL 5.00/13/135B 3.2SN OR BX	1630590000	C.149
SL 5.00/13/180 3.2SN OR BX	1581430000	C.146
SL 5.00/13/180B 3.2SN OR BX	1581890000	C.147
SL 5.00/13/90 3.2SN OR BX	1571230000	C.144
SL 5.00/13/90B 3.2SN OR BX	1580970000	C.145

Type	Order No.	Page
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SL 5.00/14/135B 3.2SN OR BX	1630600000	C.149
SL 5.00/14/180 3.2SN OR BX	1581440000	C.146
SL 5.00/14/180B 3.2SN OR BX	1581900000	C.147
SL 5.00/14/90 3.2SN OR BX	1571240000	C.144
SL 5.00/14/90B 3.2SN OR BX	1580980000	C.145
SL 5.00/15/135 3.2SN OR BX	1630380000	C.148
SL 5.00/15/135B 3.2SN OR BX	1630610000	C.149
SL 5.00/15/180 3.2SN OR BX	1581450000	C.146
SL 5.00/15/180B 3.2SN OR BX	1581910000	C.147
SL 5.00/15/90 3.2SN OR BX	1571250000	C.144
SL 5.00/15/90B 3.2SN OR BX	1580990000	C.145
SL 5.00/16/135 3.2SN OR BX	1630390000	C.148
SL 5.00/16/135B 3.2SN OR BX	1630620000	C.149
SL 5.00/16/180 3.2SN OR BX	1581460000	C.146
SL 5.00/16/180B 3.2SN OR BX	1581920000	C.147
SL 5.00/16/90 3.2SN OR BX	1571260000	C.144
SL 5.00/16/90B 3.2SN OR BX	1581000000	C.145
SL 5.00/17/135 3.2SN OR BX	1630400000	C.148
SL 5.00/17/135B 3.2SN OR BX	1630630000	C.149
SL 5.00/17/180 3.2SN OR BX	1581470000	C.146
SL 5.00/17/180B 3.2SN OR BX	1581930000	C.147
SL 5.00/17/90 3.2SN OR BX	1571270000	C.144
SL 5.00/17/90B 3.2SN OR BX	1581010000	C.145
SL 5.00/18/135 3.2SN OR BX	1630410000	C.148
SL 5.00/18/135B 3.2SN OR BX	1630640000	C.149
SL 5.00/18/180 3.2SN OR BX	1581480000	C.146
SL 5.00/18/180B 3.2SN OR BX	1581940000	C.147
SL 5.00/18/90 3.2SN OR BX	1571280000	C.144
SL 5.00/18/90B 3.2SN OR BX	1581020000	C.145
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SL 5.00/19/135B 3.2SN OR BX	1630650000	C.149
SL 5.00/19/180 3.2SN OR BX	1581490000	C.146
SL 5.00/19/180B 3.2SN OR BX	1581950000	C.147
SL 5.00/19/90 3.2SN OR BX	1571290000	C.144
SL 5.00/19/90B 3.2SN OR BX	1581030000	C.145
SL 5.00/20/135 3.2SN OR BX	1630430000	C.148
SL 5.00/20/135B 3.2SN OR BX	1630660000	C.149
SL 5.00/20/180 3.2SN OR BX	1581500000	C.146
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SL 5.00/20/90B 3.2SN OR BX	1581040000	C.145
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SL 5.00/21/135B 3.2SN OR BX	1630670000	C.149
SL 5.00/21/180 3.2SN OR BX	1581510000	C.146
SL 5.00/21/180B 3.2SN OR BX	1581970000	C.147
SL 5.00/21/90 3.2SN OR BX	1571310000	C.144
SL 5.00/21/90B 3.2SN OR BX	1581050000	C.145
SL 5.00/22/135 3.2SN OR BX	1630450000	C.148
SL 5.00/22/135B 3.2SN OR BX	1630680000	C.149
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SL 5.00/22/90 3.2SN OR BX	1571320000	C.144
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SL 5.00/23/180 3.2SN OR BX	1581530000	C.146
SL 5.00/23/180B 3.2SN OR BX	1581990000	C.147
SL 5.00/23/90 3.2SN OR BX	1571330000	C.144
SL 5.00/23/90B 3.2SN OR BX	1581070000	C.145
SL 5.00/24/135 3.2SN OR BX	1630470000	C.148
SL 5.00/24/135B 3.2SN OR BX	1630700000	C.149
SL 5.00/24/180 3.2SN OR BX	1581540000	C.146
SL 5.00/24/180B 3.2SN OR BX	1582000000	C.147
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SL 5.00/24/90B 3.2SN OR BX	1581080000	C.145
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SL 5.08HC/02/180 3.2SN OR BX	1146320000	C.194
SL 5.08HC/02/180B 3.2SN BK BX	1149400000	C.195
SL 5.08HC/02/180B 3.2SN OR BX	1147300000	C.195
SL 5.08HC/02/180F 3.2SN BK BX	1148490000	C.196
SL 5.08HC/02/180F 3.2SN OR BX	1147130000	C.196
SL 5.08HC/02/180G 3.2SN BK BX	1148630000	C.195
SL 5.08HC/02/180G 3.2SN OR BX	1146730000	C.195
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SL 5.08HC/02/180LF 3.2SN OR BX	1147890000	C.197
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SL 5.08HC/02/90F 3.2SN OR BX	1148610000	C.192
SL 5.08HC/02/90G 3.2SN BK BX	1155320000	C.191
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SL 5.08HC/02/90LF 3.2SN OR BX	1149380000	C.193
SL 5.08HC/03/180 3.2SN BK BX	1148110000	C.194
SL 5.08HC/03/180 3.2SN OR BX	1146340000	C.194
SL 5.08HC/03/180B 3.2SN BK BX	1149430000	C.195
SL 5.08HC/03/180B 3.2SN OR BX	1147330000	C.195
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SL 5.08HC/03/180F 3.2SN OR BX	1147170000	C.196
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SL 5.08HC/03/90G 3.2SN OR BX	1147310000	C.191
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SL 5.08HC/04/180LF 3.2SN OR BX	1147950000	C.197
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SL 5.08HC/09/180G 3.2SN OR BX	1146890000	C.195
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SL 5.08HC/09/180LF 3.2SN OR BX	1148120000	C.197
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SL 5.08HC/09/90 3.2SN OR BX	1146880000	C.190
SL 5.08HC/09/90B 3.2SN BK BX	1155650000	C.191
SL 5.08HC/09/90B 3.2SN OR BX	1154840000	C.191
SL 5.08HC/09/90F 3.2SN BK BX	1150170000	C.192
SL 5.08HC/09/90F 3.2SN OR BX	1148840000	C.192
SL 5.08HC/09/90G 3.2SN BK BX	1155400000	C.191
SL 5.08HC/09/90G 3.2SN OR BX	1147490000	C.191
SL 5.08HC/09/90LF 3.2SN BK BX	1150420000	C.193
SL 5.08HC/09/90LF 3.2SN OR BX	1149610000	C.193
SL 5.08HC/10/180 3.2SN BK BX	1148290000	C.194
SL 5.08HC/10/180 3.2SN OR BX	1146530000	C.194
SL 5.08HC/10/180B 3.2SN BK BX	1149670000	C.195
SL 5.08HC/10/180B 3.2SN OR BX	1147580000	C.195
SL 5.08HC/10/180F 3.2SN BK BX	1148720000	C.196
SL 5.08HC/10/180F 3.2SN OR BX	1147380000	C.196
SL 5.08HC/10/180G 3.2SN BK BX	1148900000	C.195
SL 5.08HC/10/180G 3.2SN OR BX	1146910000	C.195
SL 5.08HC/10/180LF 3.2SN BK BX	1149490000	C.197
SL 5.08HC/10/180LF 3.2SN OR BX	1148150000	C.197
SL 5.08HC/10/90 3.2SN BK BX	1155130000	C.190
SL 5.08HC/10/90 3.2SN OR BX	1146900000	C.190
SL 5.08HC/10/90B 3.2SN BK BX	1155670000	C.191
SL 5.08HC/10/90B 3.2SN OR BX	1154850000	C.191
SL 5.08HC/10/90F 3.2SN BK BX	1150180000	C.192
SL 5.08HC/10/90F 3.2SN OR BX	1148880000	C.192
SL 5.08HC/10/90G 3.2SN BK BX	1155410000	C.191
SL 5.08HC/10/90G 3.2SN OR BX	1147530000	C.191
SL 5.08HC/10/90LF 3.2SN BK BX	1150430000	C.193
SL 5.08HC/10/90LF 3.2SN OR BX	1149640000	C.193
SL 5.08HC/11/180 3.2SN BK BX	1148310000	C.194
SL 5.08HC/11/180 3.2SN OR BX	1146550000	C.194
SL 5.08HC/11/180B 3.2SN BK BX	1149700000	C.195
SL 5.08HC/11/180B 3.2SN OR BX	1147610000	C.195
SL 5.08HC/11/180F 3.2SN BK BX	1148750000	C.196
SL 5.08HC/11/180F 3.2SN OR BX	1147410000	C.196
SL 5.08HC/11/180G 3.2SN BK BX	1148930000	C.195
SL 5.08HC/11/180G 3.2SN OR BX	1146930000	C.195
SL 5.08HC/11/180LF 3.2SN BK BX	1149520000	C.197
SL 5.08HC/11/180LF 3.2SN OR BX	1148190000	C.197
SL 5.08HC/11/90 3.2SN BK BX	1155140000	C.190
SL 5.08HC/11/90 3.2SN OR BX	1146920000	C.190
SL 5.08HC/11/90B 3.2SN BK BX	1155680000	C.191
SL 5.08HC/11/90B 3.2SN OR BX	1154870000	C.191
SL 5.08HC/11/90F 3.2SN BK BX	1150190000	C.192
SL 5.08HC/11/90F 3.2SN OR BX	1148910000	C.192
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SL 5.08HC/11/90LF 3.2SN OR BX	1149680000	C.193
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SL 5.08HC/12/90LF 3.2SN OR BX	1149710000	C.193
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SL 5.08HC/13/180LF 3.2SN OR BX	1148240000	C.197
SL 5.08HC/13/90 3.2SN BK BX	1155170000	C.190

Type	Order No.	Page
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SL 5.08HC/24/90B 3.2SN OR BX	1155020000	C.191
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SL 5.08HC/24/90F 3.2SN OR BX	1149340000	C.192
SL 5.08HC/24/90G 3.2SN BK BX	1155570000	C.191
SL 5.08HC/24/90G 3.2SN OR BX	1148000000	C.191
SL 5.08HC/24/90LF 3.2SN BK BX	1150590000	C.193
SL 5.08HC/24/90LF 3.2SN OR BX	1150070000	C.193
SL 7.62HP/02/180F 3.2 SN BK BX	1140870000	F.11
SL 7.62HP/02/180G 3.2SN BK BX	1122550000	F.10
SL 7.62HP/02/180LF 3.2 SN BK BX	1141090000	F.11
SL 7.62HP/02/90F 3.2 SN BK BX	1026850000	F.9
SL 7.62HP/02/90G 3.2SN BK BX	1026760000	F.8
SL 7.62HP/02/90LF 3.2 SN BK BX	1095920000	F.9
SL 7.62HP/03/180F 3.2 SN BK BX	1140880000	F.11
SL 7.62HP/03/180G 3.2SN BK BX	1122570000	F.10
SL 7.62HP/03/180LF 3.2 SN BK BX	1141100000	F.11
SL 7.62HP/03/90F 3.2 SN BK BX	1026860000	F.9
SL 7.62HP/03/90G 3.2SN BK BX	1026770000	F.8
SL 7.62HP/03/90LF 3.2 SN BK BX	1095930000	F.9
SL 7.62HP/04/180F 3.2 SN BK BX	1140890000	F.11
SL 7.62HP/04/180G 3.2SN BK BX	1122580000	F.10
SL 7.62HP/04/180LF 3.2 SN BK BX	1141110000	F.11
SL 7.62HP/04/90F 3.2 SN BK BX	1026870000	F.9
SL 7.62HP/04/90G 3.2SN BK BX	1026780000	F.8
SL 7.62HP/04/90LF 3.2 SN BK BX	1095940000	F.9
SL 7.62HP/05/180F 3.2 SN BK BX	1140900000	F.11
SL 7.62HP/05/180G 3.2SN BK BX	1048980000	F.10
SL 7.62HP/05/180LF 3.2 SN BK BX	1141120000	F.11
SL 7.62HP/05/90F 3.2 SN BK BX	1026880000	F.9
SL 7.62HP/05/90G 3.2SN BK BX	1026790000	F.8
SL 7.62HP/05/90LF 3.2 SN BK BX	1095950000	F.9
SL 7.62HP/06/180F 3.2 SN BK BX	1140910000	F.11
SL 7.62HP/06/180G 3.2SN BK BX	1048990000	F.10
SL 7.62HP/06/180LF 3.2 SN BK BX	1141130000	F.11
SL 7.62HP/06/90F 3.2 SN BK BX	1124250000	F.9
SL 7.62HP/06/90G 3.2SN BK BX	1059490000	F.8
SL 7.62HP/06/90LF 3.2 SN BK BX	1095960000	F.9
SL 7.62HP/07/180F 3.2 SN BK BX	1140920000	F.11
SL 7.62HP/07/180G 3.2SN BK BX	1122590000	F.10
SL 7.62HP/07/180LF 3.2 SN BK BX	1141140000	F.11
SL 7.62HP/07/90F 3.2 SN BK BX	1124270000	F.9
SL 7.62HP/07/90G 3.2SN BK BX	1059500000	F.8
SL 7.62HP/07/90LF 3.2 SN BK BX	1095970000	F.9
SL 7.62HP/08/180F 3.2 SN BK BX	1140930000	F.11
SL 7.62HP/08/180G 3.2SN BK BX	1049000000	F.10
SL 7.62HP/08/180LF 3.2 SN BK BX	1141150000	F.11
SL 7.62HP/08/90F 3.2 SN BK BX	1124280000	F.9
SL 7.62HP/08/90G 3.2SN BK BX	1059510000	F.8
SL 7.62HP/08/90LF 3.2 SN BK BX	1095980000	F.9
SL 7.62HP/09/180F 3.2 SN BK BX	1140940000	F.11
SL 7.62HP/09/180G 3.2SN BK BX	1122600000	F.10
SL 7.62HP/09/180LF 3.2 SN BK BX	1141160000	F.11
SL 7.62HP/09/90F 3.2 SN BK BX	1124290000	F.9
SL 7.62HP/09/90G 3.2SN BK BX	1059520000	F.8
SL 7.62HP/09/90LF 3.2 SN BK BX	1095990000	F.9
SL 7.62HP/10/180F 3.2 SN BK BX	1140950000	F.11
SL 7.62HP/10/180G 3.2SN BK BX	1122610000	F.10
SL 7.62HP/10/180LF 3.2 SN BK BX	1141170000	F.11
SL 7.62HP/10/90F 3.2 SN BK BX	1124300000	F.9
SL 7.62HP/10/90G 3.2SN BK BX	1059530000	F.8
SL 7.62HP/10/90LF 3.2 SN BK BX	1096000000	F.9
SL 7.62HP/11/180F 3.2 SN BK BX	1140960000	F.11
SL 7.62HP/11/180G 3.2SN BK BX	1122640000	F.10
SL 7.62HP/11/180LF 3.2 SN BK BX	1141180000	F.11
SL 7.62HP/11/90F 3.2 SN BK BX	1124310000	F.9
SL 7.62HP/11/90G 3.2SN BK BX	1059550000	F.8
SL 7.62HP/11/90LF 3.2 SN BK BX	1096010000	F.9
SL 7.62HP/12/180F 3.2 SN BK BX	1140970000	F.11
SL 7.62HP/12/180G 3.2SN BK BX	1122650000	F.10
SL 7.62HP/12/180LF 3.2 SN BK BX	1141190000	F.11
SL 7.62HP/12/90F 3.2 SN BK BX	1124320000	F.9
SL 7.62HP/12/90G 3.2SN BK BX	1059570000	F.8
SL 7.62HP/12/90LF 3.2 SN BK BX	1096020000	F.9
SL 7.62IT/02/90MF2 3.2SN BK BX SO	1173610000	F.96
SL 7.62IT/03/90MF2 3.2SN BK BX	1173640000	F.96

Type	Order No.	Page
SL 7.62IT/03/90MF3 3.2SN BK BX	1173690000	F.97
SL 7.62IT/04/90MF2 3.2SN BK BX	1173730000	F.96
SL 7.62IT/04/90MF4 3.2SN BK BX	1173770000	F.97
SL AT OR	1598300000	D.11
SL AT SW	1770240000	D.11
SL FLA 1.5/1	1580100000	D.9
SL FLA 1.5/24	1595850000	D.9
SL FLA 2,3/1	1636670000	D.9
SL FLA 2,3/24	1636680000	D.9
SL FLA 3.8/1	1580110000	D.9
SL FLA 3.8/24	1595860000	D.9
SL FLA 9.0/1	1580120000	D.9
SL FLA 9.0/24	1595870000	D.9
SL-SMART 5.0X/02/180 1.5SN BK RL	1812450000	C.185
SL-SMART 5.0X/02/90 1.5SN BK RL	1812430000	C.184
SL-SMART 5.0X/03/180 1.5SN BK RL	1812460000	C.185
SL-SMART 5.0X/03/90 1.5SN BK RL	1812440000	C.184
SL-SMT 3.50/02/135F 3.2SN BK BX	1003510000	C.37
SL-SMT 3.50/02/180F 3.2SN BK BX	1842770000	C.29
SL-SMT 3.50/02/180G 1.5SN BK BX	1752982001	C.30
SL-SMT 3.50/02/180G 1.5SN BK RL	1752984002	C.31
SL-SMT 3.50/02/180G 3.2SN BK BX	1842320000	C.30
SL-SMT 3.50/02/180LF 1.5SN BK BX	1804700000	C.31
SL-SMT 3.50/02/180LF 1.5SN BK RL	1805210000	C.31
SL-SMT 3.50/02/180LF 3.2SN BK BX	1842540000	C.31
SL-SMT 3.50/02/90F 3.2SN BK BX	1842080000	C.28
SL-SMT 3.50/02/90G 1.5SN BK BX	1761542001	C.26
SL-SMT 3.50/02/90G 1.5SN BK RL	1761544002	C.27
SL-SMT 3.50/02/90G 3.2SN BK BX	1841630000	C.26
SL-SMT 3.50/02/90LF 1.5SN BK BX	1804940000	C.27
SL-SMT 3.50/02/90LF 1.5SN BK RL	1805310000	C.27
SL-SMT 3.50/02/90LF 3.2SN BK BX	1841860000	C.27
SL-SMT 3.50/02/90RF 1.5SN BK BX	1379610000	C.29
SL-SMT 3.50/03/135F 3.2SN BK BX	1003520000	C.37
SL-SMT 3.50/03/180F 3.2SN BK BX	1842780000	C.29
SL-SMT 3.50/03/180G 1.5SN BK BX	1752992001	C.30
SL-SMT 3.50/03/180G 1.5SN BK RL	1752994002	C.31
SL-SMT 3.50/03/180G 3.2SN BK BX	1842330000	C.30
SL-SMT 3.50/03/180LF 1.5SN BK BX	1804710000	C.31
SL-SMT 3.50/03/180LF 1.5SN BK RL	1805230000	C.31
SL-SMT 3.50/03/180LF 3.2SN BK BX	1842550000	C.31
SL-SMT 3.50/03/90F 3.2SN BK BX	1842090000	C.28
SL-SMT 3.50/03/90G 1.5SN BK BX	1761552001	C.26
SL-SMT 3.50/03/90G 1.5SN BK RL	1761554002	C.27
SL-SMT 3.50/03/90G 3.2SN BK BX	1841640000	C.26
SL-SMT 3.50/03/90LF 1.5SN BK BX	1804950000	C.27
SL-SMT 3.50/03/90LF 1.5SN BK RL	1805320000	C.27
SL-SMT 3.50/03/90LF 3.2SN BK BX	1841870000	C.27
SL-SMT 3.50/03/90RF 1.5SN BK BX	1060810000	C.29
SL-SMT 3.50/04/135F 3.2SN BK BX	1003530000	C.37
SL-SMT 3.50/04/180F 3.2SN BK BX	1842790000	C.29
SL-SMT 3.50/04/180G 1.5SN BK BX	1753002001	C.30
SL-SMT 3.50/04/180G 1.5SN BK RL	1753004002	C.31
SL-SMT 3.50/04/180G 3.2SN BK BX	1842340000	C.30
SL-SMT 3.50/04/180LF 1.5SN BK BX	1804720000	C.31
SL-SMT 3.50/04/180LF 1.5SN BK RL	1805240000	C.31
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SL-SMT 3.50/04/90G 3.2SN BK BX	1841650000	C.26
SL-SMT 3.50/04/90LF 1.5SN BK BX	1804960000	C.27
SL-SMT 3.50/04/90LF 1.5SN BK RL	1805330000	C.27
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SL-SMT 3.50/05/135F 3.2SN BK BX	1003540000	C.37
SL-SMT 3.50/05/180F 3.2SN BK BX	1842800000	C.29
SL-SMT 3.50/05/180G 1.5SN BK BX	1753012001	C.30
SL-SMT 3.50/05/180G 1.5SN BK RL	1753014002	C.31
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SL-SMT 3.50/05/180LF 1.5SN BK RL	1805250000	C.31
SL-SMT 3.50/05/180LF 3.2SN BK BX	1842570000	C.31
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SL-SMT 3.50/05/90G 1.5SN BK BX	1761572001	C.26
SL-SMT 3.50/05/90G 1.5SN BK RL	1761574002	C.27
SL-SMT 3.50/05/90G 3.2SN BK BX	1841660000	C.26
SL-SMT 3.50/05/90LF 1.5SN BK BX	1804970000	C.27
SL-SMT 3.50/05/90LF 1.5SN BK RL	1805340000	C.27
SL-SMT 3.50/05/90LF 3.2SN BK BX	1841890000	C.27
SL-SMT 3.50/05/90RF 1.5SN BK BX	1000610000	C.29
SL-SMT 3.50/06/135F 3.2SN BK BX	1003550000	C.37
SL-SMT 3.50/06/180F 3.2SN BK BX	1842810000	C.29
SL-SMT 3.50/06/180G 1.5SN BK BX	1753022001	C.30
SL-SMT 3.50/06/180G 1.5SN BK RL	1753024001	C.31
SL-SMT 3.50/06/180G 3.2SN BK BX	1842360000	C.30
SL-SMT 3.50/06/180LF 1.5SN BK BX	1804740000	C.31
SL-SMT 3.50/06/180LF 1.5SN BK RL	1805270000	C.31
SL-SMT 3.50/06/180LF 3.2SN BK BX	1842580000	C.31
SL-SMT 3.50/06/90F 3.2SN BK BX	1842120000	C.28
SL-SMT 3.50/06/90G 1.5SN BK BX	1761582001	C.26
SL-SMT 3.50/06/90G 1.5SN BK RL	1761584001	C.27
SL-SMT 3.50/06/90G 3.2SN BK BX	1841670000	C.26
SL-SMT 3.50/06/90LF 1.5SN BK BX	1804980000	C.27
SL-SMT 3.50/06/90LF 1.5SN BK RL	1805350000	C.27
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SL-SMT 3.50/07/180F 3.2SN BK BX	1842820000	C.29
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SL-SMT 3.50/07/90LF 3.2SN BK BX	1841910000	C.27
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SL-SMT 3.50/10/90LF 3.2SN BK BX	1841940000	C.27
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SL-SMT 3.50/13/180LF 3.2SN BK BX	1842650000	C.31
SL-SMT 3.50/13/90F 3.2SN BK BX	1842190000	C.28
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SL-SMT 3.50/13/90G 3.2SN BK BX	1841740000	C.26
SL-SMT 3.50/13/90LF 1.5SN BK BX	1805050000	C.27
SL-SMT 3.50/13/90LF 3.2SN BK BX	1841960000	C.27
SL-SMT 3.50/13/90RF 1.5SN BK BX	1000680000	C.29
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SL-SMT 3.50/14/180G 1.5SN BK BX	1753102001	C.30
SL-SMT 3.50/14/180G 3.2SN BK BX	1842430000	C.30
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SL-SMT 3.50/14/90G 3.2SN BK BX	1841750000	C.26
SL-SMT 3.50/14/90LF 1.5SN BK BX	1805060000	C.27
SL-SMT 3.50/14/90LF 3.2SN BK BX	1841970000	C.27
SL-SMT 3.50/14/90RF 1.5SN BK BX	1000690000	C.29
SL-SMT 3.50/15/135F 3.2SN BK BX	1003650000	C.37
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SL-SMT 3.50/15/180LF 1.5SN BK BX	1804830000	C.31
SL-SMT 3.50/15/180LF 3.2SN BK BX	1842670000	C.31
SL-SMT 3.50/15/90F 3.2SN BK BX	1842210000	C.28
SL-SMT 3.50/15/90G 1.5SN BK BX	1761672001	C.26
SL-SMT 3.50/15/90G 3.2SN BK BX	1841760000	C.26
SL-SMT 3.50/15/90LF 1.5SN BK BX	1805070000	C.27
SL-SMT 3.50/15/90LF 3.2SN BK BX	1841980000	C.27
SL-SMT 3.50/15/90RF 1.5SN BK BX	1000700000	C.29
SL-SMT 3.50/16/135F 3.2SN BK BX	1003660000	C.37
SL-SMT 3.50/16/180F 3.2SN BK BX	1842910000	C.29
SL-SMT 3.50/16/180G 1.5SN BK BX	1753122001	C.30
SL-SMT 3.50/16/180G 3.2SN BK BX	1842450000	C.30
SL-SMT 3.50/16/180LF 1.5SN BK BX	1804840000	C.31
SL-SMT 3.50/16/180LF 3.2SN BK BX	1842680000	C.31
SL-SMT 3.50/16/90F 3.2SN BK BX	1842220000	C.28
SL-SMT 3.50/16/90G 1.5SN BK BX	1761682001	C.26
SL-SMT 3.50/16/90G 3.2SN BK BX	1841770000	C.26
SL-SMT 3.50/16/90LF 1.5SN BK BX	1805080000	C.27
SL-SMT 3.50/16/90LF 3.2SN BK BX	1841990000	C.27
SL-SMT 3.50/16/90RF 1.5SN BK BX	1060820000	C.29
SL-SMT 3.50/17/135F 3.2SN BK BX	1003670000	C.37
SL-SMT 3.50/17/180F 3.2SN BK BX	1842920000	C.29
SL-SMT 3.50/17/180G 1.5SN BK BX	1753132001	C.30
SL-SMT 3.50/17/180G 3.2SN BK BX	1842460000	C.30
SL-SMT 3.50/17/180LF 1.5SN BK BX	1804850000	C.31
SL-SMT 3.50/17/180LF 3.2SN BK BX	1842690000	C.31
SL-SMT 3.50/17/90F 3.2SN BK BX	1842230000	C.28
SL-SMT 3.50/17/90G 1.5SN BK BX	1761692001	C.26
SL-SMT 3.50/17/90G 3.2SN BK BX	1841780000	C.26
SL-SMT 3.50/17/90LF 1.5SN BK BX	1805090000	C.27
SL-SMT 3.50/17/90LF 3.2SN BK BX	1842000000	C.27
SL-SMT 3.50/18/135F 3.2SN BK BX	1003680000	C.37
SL-SMT 3.50/18/180F 3.2SN BK BX	1842930000	C.29
SL-SMT 3.50/18/180G 1.5SN BK BX	1753142001	C.30
SL-SMT 3.50/18/180G 3.2SN BK BX	1842470000	C.30
SL-SMT 3.50/18/180LF 1.5SN BK BX	1804860000	C.31
SL-SMT 3.50/18/180LF 3.2SN BK BX	1842700000	C.31
SL-SMT 3.50/18/90F 3.2SN BK BX	1842240000	C.28
SL-SMT 3.50/18/90G 1.5SN BK BX	1761702001	C.26
SL-SMT 3.50/18/90G 3.2SN BK BX	1841790000	C.26
SL-SMT 3.50/18/90LF 1.5SN BK BX	1805100000	C.27
SL-SMT 3.50/18/90LF 3.2SN BK BX	1842010000	C.27
SL-SMT 3.50/19/135F 3.2SN BK BX	1003690000	C.37
SL-SMT 3.50/19/180F 3.2SN BK BX	1842940000	C.29
SL-SMT 3.50/19/180G 1.5SN BK BX	1753152001	C.30
SL-SMT 3.50/19/180G 3.2SN BK BX	1842480000	C.30
SL-SMT 3.50/19/180LF 1.5SN BK BX	1804870000	C.31
SL-SMT 3.50/19/180LF 3.2SN BK BX	1842710000	C.31
SL-SMT 3.50/19/90F 3.2SN BK BX	1842250000	C.28
SL-SMT 3.50/19/90G 1.5SN BK BX	1761712001	C.26
SL-SMT 3.50/19/90G 3.2SN BK BX	1841800000	C.26
SL-SMT 3.50/19/90LF 1.5SN BK BX	1805110000	C.27
SL-SMT 3.50/19/90LF 3.2SN BK BX	1842020000	C.27
SL-SMT 3.50/20/135F 3.2SN BK BX	1003700000	C.37
SL-SMT 3.50/20/180F 3.2SN BK BX	1842950000	C.29
SL-SMT 3.50/20/180G 1.5SN BK BX	1753162001	C.30
SL-SMT 3.50/20/180G 3.2SN BK BX	1842490000	C.30
SL-SMT 3.50/20/180LF 1.5SN BK BX	1804890000	C.31
SL-SMT 3.50/20/180LF 3.2SN BK BX	1842720000	C.31
SL-SMT 3.50/20/90F 3.2SN BK BX	1842260000	C.28
SL-SMT 3.50/20/90G 1.5SN BK BX	1761722001	C.26
SL-SMT 3.50/20/90G 3.2SN BK BX	1841810000	C.26
SL-SMT 3.50/20/90LF 1.5SN BK BX	1805120000	C.27
SL-SMT 3.50/20/90LF 3.2SN BK BX	1842030000	C.27
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SL-SMT 3.50/21/90G 3.2SN BK BX	1841820000	C.26
SL-SMT 3.50/21/90LF 1.5SN BK BX	1805130000	C.27
SL-SMT 3.50/21/90LF 3.2SN BK BX	1842040000	C.27
SL-SMT 3.50/22/135F 3.2SN BK BX	1003720000	C.37
SL-SMT 3.50/22/180F 3.2SN BK BX	1842970000	C.29
SL-SMT 3.50/22/180G 1.5SN BK BX	1753182001	C.30
SL-SMT 3.50/22/180G 3.2SN BK BX	1842510000	C.30
SL-SMT 3.50/22/180LF 1.5SN BK BX	1804910000	C.31
SL-SMT 3.50/22/180LF 3.2SN BK BX	1842740000	C.31
SL-SMT 3.50/22/90F 3.2SN BK BX	1842280000	C.28
SL-SMT 3.50/22/90G 1.5SN BK BX	1761742001	C.26

Type	Order No.	Page
SL-SMT 3.50/22/90G 3.2SN BK BX	1841830000	C.26
SL-SMT 3.50/22/90LF 1.5SN BK BX	1805140000	C.27
SL-SMT 3.50/22/90LF 3.2SN BK BX	1842050000	C.27
SL-SMT 3.50/23/135F 3.2SN BK BX	1003730000	C.37
SL-SMT 3.50/23/180F 3.2SN BK BX	1842980000	C.29
SL-SMT 3.50/23/180G 1.5SN BK BX	1753192001	C.30
SL-SMT 3.50/23/180G 3.2SN BK BX	1842520000	C.30
SL-SMT 3.50/23/180LF 1.5SN BK BX	1804920000	C.31
SL-SMT 3.50/23/180LF 3.2SN BK BX	1842750000	C.31
SL-SMT 3.50/23/90F 3.2SN BK BX	1842290000	C.28
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SL-SMT 3.50/23/90LF 1.5SN BK BX	1805150000	C.27
SL-SMT 3.50/23/90LF 3.2SN BK BX	1842060000	C.27
SL-SMT 3.50/24/135F 3.2SN BK BX	1003740000	C.37
SL-SMT 3.50/24/180F 3.2SN BK BX	1842990000	C.29
SL-SMT 3.50/24/180G 1.5SN BK BX	1753202001	C.30
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SL-SMT 3.50/24/180LF 3.2SN BK BX	1842760000	C.31
SL-SMT 3.50/24/90F 3.2SN BK BX	1842300000	C.28
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SL-SMT 3.50/24/90G 3.2SN BK BX	1841850000	C.26
SL-SMT 3.50/24/90LF 1.5SN BK BX	1805160000	C.27
SL-SMT 3.50/24/90LF 3.2SN BK BX	1842070000	C.27
SL-SMT 5.00/02/180 1.5SN BK BX	1796480000	C.138
SL-SMT 5.00/02/180 1.5SN BK RL	1797800000	C.139
SL-SMT 5.00/02/180 3.2SN BK BX	1840920000	C.138
SL-SMT 5.00/02/180G 1.5 SN BK RL	1797870000	C.139
SL-SMT 5.00/02/180G 1.5SN BK BX	1796630000	C.139
SL-SMT 5.00/02/180G 3.2SN BK BX	1841160000	C.139
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SL-SMT 5.00/02/180LF 1.5SN BK BX	1796780000	C.140
SL-SMT 5.00/02/180LF 3.2SN BK BX	1841390000	C.140
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SL-SMT 5.00/02/90 1.5SN BK RL	1797620000	C.135
SL-SMT 5.00/02/90 3.2SN BK BX	1839890000	C.134
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SL-SMT 5.00/03/180 1.5SN BK BX	1796490000	C.138
SL-SMT 5.00/03/180 3.2SN BK BX	1840930000	C.138
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SL-SMT 5.00/08/180LF 1.5SN BK BX	1796840000	C.140
SL-SMT 5.00/08/180LF 3.2SN BK BX	1841450000	C.140
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SL-SMT 5.00/11/180LF 1.5SN BK BX	1796870000	C.140
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SL-SMT 5.00/11/90LF 1.5SN BK BX	1797320000	C.136
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SL-SMT 5.00/12/180G 1.5SN BK BX	1796730000	C.139
SL-SMT 5.00/12/180G 3.2SN BK BX	1841260000	C.139
SL-SMT 5.00/12/180LF 1.5SN BK BX	1796880000	C.140
SL-SMT 5.00/12/180LF 3.2SN BK BX	1841490000	C.140
SL-SMT 5.00/12/90 1.5SN BK BX	1797030000	C.134
SL-SMT 5.00/12/90 3.2SN BK BX	1839990000	C.134
SL-SMT 5.00/12/90G 1.5SN BK BX	1797180000	C.135
SL-SMT 5.00/12/90G 3.2SN BK BX	1840220000	C.135
SL-SMT 5.00/12/90LF 1.5SN BK BX	1797330000	C.136
SL-SMT 5.00/12/90LF 3.2SN BK BX	1840450000	C.136
SL-SMT 5.00/13/180 1.5SN BK BX	1796590000	C.138
SL-SMT 5.00/13/180 3.2SN BK BX	1841040000	C.138
SL-SMT 5.00/13/180G 1.5SN BK BX	1796740000	C.139
SL-SMT 5.00/13/180G 3.2SN BK BX	1841270000	C.139
SL-SMT 5.00/13/180LF 1.5SN BK BX	1796890000	C.140
SL-SMT 5.00/13/180LF 3.2SN BK BX	1841500000	C.140
SL-SMT 5.00/13/90 1.5SN BK BX	1797040000	C.134
SL-SMT 5.00/13/90 3.2SN BK BX	1840000000	C.134
SL-SMT 5.00/13/90G 1.5SN BK BX	1797190000	C.135
SL-SMT 5.00/13/90G 3.2SN BK BX	1840230000	C.135
SL-SMT 5.00/13/90LF 1.5SN BK BX	1797340000	C.136
SL-SMT 5.00/13/90LF 3.2SN BK BX	1840460000	C.136
SL-SMT 5.00/14/180 1.5SN BK BX	1796600000	C.138
SL-SMT 5.00/14/180 3.2SN BK BX	1841050000	C.138
SL-SMT 5.00/14/180G 1.5SN BK BX	1796750000	C.139
SL-SMT 5.00/14/180G 3.2SN BK BX	1841280000	C.139
SL-SMT 5.00/14/180LF 1.5SN BK BX	1796900000	C.140
SL-SMT 5.00/14/180LF 3.2SN BK BX	1841510000	C.140
SL-SMT 5.00/14/90 1.5SN BK BX	1797050000	C.134
SL-SMT 5.00/14/90 3.2SN BK BX	1840010000	C.134
SL-SMT 5.00/14/90G 1.5SN BK BX	1797200000	C.135
SL-SMT 5.00/14/90G 3.2SN BK BX	1840240000	C.135
SL-SMT 5.00/14/90LF 1.5SN BK BX	1797350000	C.136
SL-SMT 5.00/14/90LF 3.2SN BK BX	1840470000	C.136
SL-SMT 5.00/15/180 1.5SN BK BX	1796610000	C.138
SL-SMT 5.00/15/180 3.2SN BK BX	1841060000	C.138
SL-SMT 5.00/15/180G 1.5SN BK BX	1796760000	C.139
SL-SMT 5.00/15/180G 3.2SN BK BX	1841290000	C.139
SL-SMT 5.00/15/180LF 1.5SN BK BX	1796910000	C.140
SL-SMT 5.00/15/180LF 3.2SN BK BX	1841520000	C.140
SL-SMT 5.00/15/90 1.5SN BK BX	1797060000	C.134
SL-SMT 5.00/15/90 3.2SN BK BX	1840020000	C.134
SL-SMT 5.00/15/90G 1.5SN BK BX	1797210000	C.135
SL-SMT 5.00/15/90G 3.2SN BK BX	1840250000	C.135
SL-SMT 5.00/15/90LF 1.5SN BK BX	1797360000	C.136
SL-SMT 5.00/15/90LF 3.2SN BK BX	1840480000	C.136
SL-SMT 5.00/16/180 1.5SN BK BX	1796620000	C.138
SL-SMT 5.00/16/180 3.2SN BK BX	1841070000	C.138
SL-SMT 5.00/16/180G 1.5SN BK BX	1796770000	C.139
SL-SMT 5.00/16/180G 3.2SN BK BX	1841300000	C.139
SL-SMT 5.00/16/180LF 1.5SN BK BX	1796920000	C.140
SL-SMT 5.00/16/180LF 3.2SN BK BX	1841530000	C.140
SL-SMT 5.00/16/90 1.5SN BK BX	1797070000	C.134
SL-SMT 5.00/16/90 3.2SN BK BX	1840030000	C.134
SL-SMT 5.00/16/90G 1.5SN BK BX	1797220000	C.135
SL-SMT 5.00/16/90G 3.2SN BK BX	1840260000	C.135
SL-SMT 5.00/16/90LF 1.5SN BK BX	1797370000	C.136
SL-SMT 5.00/16/90LF 3.2SN BK BX	1840490000	C.136
SL-SMT 5.00/17/180 3.2SN BK BX	1841080000	C.138
SL-SMT 5.00/17/180G 3.2SN BK BX	1841310000	C.139
SL-SMT 5.00/17/180LF 3.2SN BK BX	1841540000	C.140
SL-SMT 5.00/17/90 3.2SN BK BX	1840040000	C.134
SL-SMT 5.00/17/90G 3.2SN BK BX	1840270000	C.135
SL-SMT 5.00/17/90LF 3.2SN BK BX	1840500000	C.136
SL-SMT 5.00/18/180 3.2SN BK BX	1841090000	C.138
SL-SMT 5.00/18/180G 3.2SN BK BX	1841320000	C.139
SL-SMT 5.00/18/180LF 3.2SN BK BX	1841550000	C.140
SL-SMT 5.00/18/90 3.2SN BK BX	1840050000	C.134
SL-SMT 5.00/18/90G 3.2SN BK BX	1840280000	C.135
SL-SMT 5.00/18/90LF 3.2SN BK BX	1840510000	C.136
SL-SMT 5.00/19/180 3.2SN BK BX	1841100000	C.138
SL-SMT 5.00/19/180G 3.2SN BK BX	1841330000	C.139
SL-SMT 5.00/19/180LF 3.2SN BK BX	1841560000	C.140
SL-SMT 5.00/19/90 3.2SN BK BX	1840060000	C.134
SL-SMT 5.00/19/90G 3.2SN BK BX	1840290000	C.135
SL-SMT 5.00/19/90LF 3.2SN BK BX	1840520000	C.136
SL-SMT 5.00/20/180 3.2SN BK BX	1841110000	C.138
SL-SMT 5.00/20/180G 3.2SN BK BX	1841340000	C.139
SL-SMT 5.00/20/180LF 3.2SN BK BX	1841570000	C.140
SL-SMT 5.00/20/90 3.2SN BK BX	1840070000	C.134
SL-SMT 5.00/20/90G 3.2SN BK BX	1840300000	C.135
SL-SMT 5.00/20/90LF 3.2SN BK BX	1840530000	C.136
SL-SMT 5.00/21/180 3.2SN BK BX	1841120000	C.138
SL-SMT 5.00/21/180G 3.2SN BK BX	1841350000	C.139
SL-SMT 5.00/21/180LF 3.2SN BK BX	1841580000	C.140
SL-SMT 5.00/21/90 3.2SN BK BX	1840080000	C.134
SL-SMT 5.00/21/90G 3.2SN BK BX	1840310000	C.135
SL-SMT 5.00/21/90LF 3.2SN BK BX	1840540000	C.136
SL-SMT 5.00/22/180 3.2SN BK BX	1841130000	C.138
SL-SMT 5.00/22/180G 3.2SN BK BX	1841360000	C.139
SL-SMT 5.00/22/180LF 3.2SN BK BX	1841590000	C.140
SL-SMT 5.00/22/90 3.2SN BK BX	1840090000	C.134
SL-SMT 5.00/22/90G 3.2SN BK BX	1840320000	C.135
SL-SMT 5.00/22/90LF 3.2SN BK BX	1840550000	C.136
SL-SMT 5.00/23/180 3.2SN BK BX	1841140000	C.138
SL-SMT 5.00/23/180G 3.2SN BK BX	1841370000	C.139
SL-SMT 5.00/23/180LF 3.2SN BK BX	1841600000	C.140
SL-SMT 5.00/23/90 3.2SN BK BX	1840100000	C.134
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SL-SMT 5.00/23/90LF 3.2SN BK BX	1840560000	C.136
SL-SMT 5.00/24/180 3.2SN BK BX	1841150000	C.138
SL-SMT 5.00/24/180G 3.2SN BK BX	1841380000	C.139
SL-SMT 5.00/24/180LF 3.2SN BK BX	1841610000	C.140
SL-SMT 5.00/24/90 3.2SN BK BX	1840110000	C.134
SL-SMT 5.00/24/90G 3.2SN BK BX	1840340000	C.135
SL-SMT 5.00/24/90LF 3.2SN BK BX	1840570000	C.136
SL-SMT 5.08/02/180 1.5 SN BK RL	1821100000	C.175
SL-SMT 5.08/02/180 1.5SN BK BX	1775522001	C.174
SL-SMT 5.08/02/180 3.2SN BK BX	1837980000	C.174
SL-SMT 5.08/02/180F 1.5SN BK BX	1837320000	C.176
SL-SMT 5.08/02/180F 3.2SN BK BX	1837860000	C.176
SL-SMT 5.08/02/180G 1.5 SN BK RL	1820170000	C.175
SL-SMT 5.08/02/180G 1.5SN BK BX	1775922001	C.175
SL-SMT 5.08/02/180G 3.2SN BK BX	1838210000	C.175

Type	Order No.	Page
SL-SMT 5.08/02/180LF 1.5 SN BK RL	1776364001	C.179
SL-SMT 5.08/02/180LF 1.5SN BK BX	1776362001	C.178
SL-SMT 5.08/02/180LF 3.2SN BK BX	1838440000	C.178
SL-SMT 5.08/02/270FH 1.5SN BK BX	1877960000	C.183
SL-SMT 5.08/02/270FH 1.5SN BK RL	1876920000	C.183
SL-SMT 5.08/02/270FH 3.2SN BK BX	1877190000	C.183
SL-SMT 5.08/02/270FL 1.5SN BK BX	1878090000	C.182
SL-SMT 5.08/02/270FL 1.5SN BK RL	1876990000	C.183
SL-SMT 5.08/02/270FL 3.2SN BK BX	1876850000	C.182
SL-SMT 5.08/02/270GH 1.5SN BK BX	1876340000	C.181
SL-SMT 5.08/02/270GH 1.5SN BK RL	1877560000	C.181
SL-SMT 5.08/02/270GH 3.2SN BK BX	1877370000	C.181
SL-SMT 5.08/02/270GL 1.5SN BK BX	1877100000	C.180
SL-SMT 5.08/02/270GL 1.5SN BK RL	1877740000	C.181
SL-SMT 5.08/02/270GL 3.2SN BK BX	1877470000	C.180
SL-SMT 5.08/02/90 1.5 SN BK RL	1821160000	C.169
SL-SMT 5.08/02/90 1.5SN BK BX	1774762001	C.168
SL-SMT 5.08/02/90 3.2SN BK BX	1779950000	C.168
SL-SMT 5.08/02/90F 3.2SN BK BX	1837630000	C.170
SL-SMT 5.08/02/90G 1.5 SN BK RL	1821140000	C.169
SL-SMT 5.08/02/90G 1.5SN BK BX	1775002001	C.169
SL-SMT 5.08/02/90G 3.2SN BK BX	1780180000	C.169
SL-SMT 5.08/02/90LF 1.5 SN BK RL	1775234001	C.173
SL-SMT 5.08/02/90LF 1.5SN BK BX	1775232001	C.172
SL-SMT 5.08/02/90LF 3.2SN BK BX	1780410000	C.172
SL-SMT 5.08/03/180 1.5 SN BK RL	1821110000	C.175
SL-SMT 5.08/03/180 1.5SN BK BX	1775572001	C.174
SL-SMT 5.08/03/180 3.2SN BK BX	1837990000	C.174
SL-SMT 5.08/03/180F 3.2SN BK BX	1820600000	C.176
SL-SMT 5.08/03/180G 1.5 SN BK RL	1775934001	C.175
SL-SMT 5.08/03/180G 1.5SN BK BX	1775932001	C.175
SL-SMT 5.08/03/180G 3.2SN BK BX	1838220000	C.175
SL-SMT 5.08/03/180LF 1.5 SN BK RL	1776374001	C.179
SL-SMT 5.08/03/180LF 1.5SN BK BX	1776372001	C.178
SL-SMT 5.08/03/180LF 3.2SN BK BX	1838450000	C.178
SL-SMT 5.08/03/270FH 1.5SN BK BX	1877970000	C.183
SL-SMT 5.08/03/270FH 1.5SN BK RL	1876930000	C.183
SL-SMT 5.08/03/270FH 3.2SN BK BX	1877210000	C.183
SL-SMT 5.08/03/270FL 1.5SN BK BX	1878110000	C.182
SL-SMT 5.08/03/270FL 1.5SN BK RL	1877000000	C.183
SL-SMT 5.08/03/270FL 3.2SN BK BX	1876860000	C.182
SL-SMT 5.08/03/270GH 1.5SN BK BX	1877010000	C.181
SL-SMT 5.08/03/270GH 1.5SN BK RL	1877600000	C.181
SL-SMT 5.08/03/270GH 3.2SN BK BX	1877380000	C.181
SL-SMT 5.08/03/270GL 1.5SN BK BX	1877130000	C.180
SL-SMT 5.08/03/270GL 1.5SN BK RL	1877750000	C.181
SL-SMT 5.08/03/270GL 3.2SN BK BX	1877490000	C.180
SL-SMT 5.08/03/90 1.5 SN BK RL	1821170000	C.169
SL-SMT 5.08/03/90 1.5SN BK BX	1774772001	C.168
SL-SMT 5.08/03/90 3.2SN BK BX	1779960000	C.168
SL-SMT 5.08/03/90F 3.2SN BK BX	1837640000	C.170
SL-SMT 5.08/03/90G 1.5 SN BK RL	1775014001	C.169
SL-SMT 5.08/03/90G 1.5SN BK BX	1775012001	C.169
SL-SMT 5.08/03/90G 3.2SN BK BX	1780190000	C.169
SL-SMT 5.08/03/90LF 1.5 SN BK RL	1775244001	C.173
SL-SMT 5.08/03/90LF 1.5SN BK BX	1775242001	C.172
SL-SMT 5.08/03/90LF 3.2SN BK BX	1780420000	C.172
SL-SMT 5.08/04/180 1.5 SN BK RL	1775594001	C.175
SL-SMT 5.08/04/180 1.5SN BK BX	1775592001	C.174
SL-SMT 5.08/04/180 3.2SN BK BX	1838000000	C.174
SL-SMT 5.08/04/180F 1.5SN BK BX	1830100000	C.176
SL-SMT 5.08/04/180F 3.2SN BK BX	1837870000	C.176
SL-SMT 5.08/04/180G 1.5 SN BK RL	1775944001	C.175
SL-SMT 5.08/04/180G 1.5SN BK BX	1775942001	C.175
SL-SMT 5.08/04/180G 3.2SN BK BX	1838230000	C.175
SL-SMT 5.08/04/180LF 1.5 SN BK RL	1776384001	C.179
SL-SMT 5.08/04/180LF 1.5SN BK BX	1776382001	C.178
SL-SMT 5.08/04/180LF 3.2SN BK BX	1838460000	C.178
SL-SMT 5.08/04/270FH 1.5SN BK BX	1877980000	C.183
SL-SMT 5.08/04/270FH 1.5SN BK RL	1876940000	C.183
SL-SMT 5.08/04/270FH 3.2SN BK BX	1877330000	C.183
SL-SMT 5.08/04/270FL 1.5SN BK BX	1878120000	C.182
SL-SMT 5.08/04/270FL 1.5SN BK RL	1877020000	C.183
SL-SMT 5.08/04/270FL 3.2SN BK BX	1876870000	C.182
SL-SMT 5.08/04/270GH 1.5SN BK BX	1877030000	C.181
SL-SMT 5.08/04/270GH 1.5SN BK RL	1877610000	C.181
SL-SMT 5.08/04/270GH 3.2SN BK BX	1877390000	C.181
SL-SMT 5.08/04/270GL 1.5SN BK BX	1877140000	C.180
SL-SMT 5.08/04/270GL 1.5SN BK RL	1877760000	C.181
SL-SMT 5.08/04/270GL 3.2SN BK BX	1877510000	C.180
SL-SMT 5.08/04/90 1.5 SN BK RL	1774784001	C.169
SL-SMT 5.08/04/90 1.5SN BK BX	1774782001	C.168
SL-SMT 5.08/04/90 3.2SN BK BX	1779970000	C.168
SL-SMT 5.08/04/90F 3.2SN BK BX	1837650000	C.170
SL-SMT 5.08/04/90G 1.5 SN BK RL	1775024001	C.169
SL-SMT 5.08/04/90G 1.5SN BK BX	1775022001	C.169
SL-SMT 5.08/04/90G 3.2SN BK BX	1780200000	C.169
SL-SMT 5.08/04/90LF 1.5 SN BK RL	1775254001	C.173
SL-SMT 5.08/04/90LF 1.5SN BK BX	1775252001	C.172
SL-SMT 5.08/04/90LF 3.2SN BK BX	1780430000	C.172
SL-SMT 5.08/05/180 1.5 SN BK RL	1775634001	C.175
SL-SMT 5.08/05/180 1.5SN BK BX	1775632001	C.174
SL-SMT 5.08/05/180 3.2SN BK BX	1838010000	C.174
SL-SMT 5.08/05/180F 1.5SN BK BX	1837330000	C.176
SL-SMT 5.08/05/180F 3.2SN BK BX	1820770000	C.176
SL-SMT 5.08/05/180G 1.5 SN BK RL	1775954001	C.175
SL-SMT 5.08/05/180G 1.5SN BK BX	1775952001	C.175
SL-SMT 5.08/05/180G 3.2SN BK BX	1838240000	C.175
SL-SMT 5.08/05/180LF 1.5 SN BK RL	1776394001	C.179

Type	Order No.	Page
SL-SMT 5.08/05/180LF 1.5SN BK BX	1776392001	C.178
SL-SMT 5.08/05/180LF 3.2SN BK BX	1838470000	C.178
SL-SMT 5.08/05/270FH 1.5SN BK BX	1877990000	C.183
SL-SMT 5.08/05/270FH 1.5SN BK RL	1876950000	C.183
SL-SMT 5.08/05/270FH 3.2SN BK BX	1877430000	C.183
SL-SMT 5.08/05/270FL 1.5SN BK BX	1878130000	C.182
SL-SMT 5.08/05/270FL 1.5SN BK RL	1877070000	C.183
SL-SMT 5.08/05/270FL 3.2SN BK BX	1876880000	C.182
SL-SMT 5.08/05/270GH 1.5SN BK BX	1877040000	C.181
SL-SMT 5.08/05/270GH 1.5SN BK RL	1877620000	C.181
SL-SMT 5.08/05/270GH 3.2SN BK BX	1877400000	C.181
SL-SMT 5.08/05/270GL 1.5SN BK BX	1877150000	C.180
SL-SMT 5.08/05/270GL 1.5SN BK RL	1877770000	C.181
SL-SMT 5.08/05/270GL 3.2SN BK BX	1877520000	C.180
SL-SMT 5.08/05/90 1.5 SN BK RL	1774794001	C.169
SL-SMT 5.08/05/90 1.5SN BK BX	1774792001	C.168
SL-SMT 5.08/05/90 3.2SN BK BX	1779980000	C.168
SL-SMT 5.08/05/90F 3.2SN BK BX	1837660000	C.170
SL-SMT 5.08/05/90G 1.5 SN BK RL	1775034001	C.169
SL-SMT 5.08/05/90G 1.5SN BK BX	1775032001	C.169
SL-SMT 5.08/05/90G 3.2SN BK BX	1780210000	C.169
SL-SMT 5.08/05/90LF 1.5 SN BK RL	1775264001	C.173
SL-SMT 5.08/05/90LF 1.5SN BK BX	1775262001	C.172
SL-SMT 5.08/05/90LF 3.2SN BK BX	1780440000	C.172
SL-SMT 5.08/06/180 1.5 SN BK RL	1775644001	C.175
SL-SMT 5.08/06/180 1.5SN BK BX	1775642001	C.174
SL-SMT 5.08/06/180 3.2SN BK BX	1838020000	C.174
SL-SMT 5.08/06/180F 1.5SN BK BX	1837340000	C.176
SL-SMT 5.08/06/180F 3.2SN BK BX	1820610000	C.176
SL-SMT 5.08/06/180G 1.5 SN BK RL	1775964001	C.175
SL-SMT 5.08/06/180G 1.5SN BK BX	1775962001	C.175
SL-SMT 5.08/06/180G 3.2SN BK BX	1838250000	C.175
SL-SMT 5.08/06/180LF 1.5 SN BK RL	1776404001	C.179
SL-SMT 5.08/06/180LF 1.5SN BK BX	1776402001	C.178
SL-SMT 5.08/06/180LF 3.2SN BK BX	1838480000	C.178
SL-SMT 5.08/06/270FH 1.5SN BK BX	1878000000	C.183
SL-SMT 5.08/06/270FH 1.5SN BK RL	1876960000	C.183
SL-SMT 5.08/06/270FH 3.2SN BK BX	1877460000	C.183
SL-SMT 5.08/06/270FL 1.5SN BK BX	1878140000	C.182
SL-SMT 5.08/06/270FL 1.5SN BK RL	1877090000	C.183
SL-SMT 5.08/06/270FL 3.2SN BK BX	1876890000	C.182
SL-SMT 5.08/06/270GH 1.5SN BK BX	1877050000	C.181
SL-SMT 5.08/06/270GH 1.5SN BK RL	1877630000	C.181
SL-SMT 5.08/06/270GH 3.2SN BK BX	1877410000	C.181
SL-SMT 5.08/06/270GL 1.5SN BK BX	1877160000	C.180
SL-SMT 5.08/06/270GL 1.5SN BK RL	1877780000	C.181
SL-SMT 5.08/06/270GL 3.2SN BK BX	1877530000	C.180
SL-SMT 5.08/06/90 1.5 SN BK RL	1774804001	C.169
SL-SMT 5.08/06/90 1.5SN BK BX	1774802001	C.168
SL-SMT 5.08/06/90 3.2SN BK BX	1779990000	C.168
SL-SMT 5.08/06/90F 3.2SN BK BX	1837670000	C.170
SL-SMT 5.08/06/90G 1.5 SN BK RL	1775044001	C.169
SL-SMT 5.08/06/90G 1.5SN BK BX	1775042001	C.169
SL-SMT 5.08/06/90G 3.2SN BK BX	1780220000	C.169
SL-SMT 5.08/06/90LF 1.5 SN BK RL	1775274001	C.173
SL-SMT 5.08/06/90LF 1.5SN BK BX	1775272001	C.172
SL-SMT 5.08/06/90LF 3.2SN BK BX	1780450000	C.172
SL-SMT 5.08/07/180 1.5 SN BK RL	1775654001	C.175
SL-SMT 5.08/07/180 1.5SN BK BX	1775652001	C.174
SL-SMT 5.08/07/180 3.2SN BK BX	1838030000	C.174
SL-SMT 5.08/07/180F 3.2SN BK BX	1837880000	C.176
SL-SMT 5.08/07/180G 1.5 SN BK RL	1775974001	C.175
SL-SMT 5.08/07/180G 1.5SN BK BX	1775972001	C.175
SL-SMT 5.08/07/180G 3.2SN BK BX	1838260000	C.175
SL-SMT 5.08/07/180LF 1.5SN BK BX	1776412001	C.178
SL-SMT 5.08/07/180LF 3.2SN BK BX	1838490000	C.178
SL-SMT 5.08/07/270FH 1.5SN BK BX	1878010000	C.183
SL-SMT 5.08/07/270FH 1.5SN BK RL	1876970000	C.183
SL-SMT 5.08/07/270FH 3.2SN BK BX	1877480000	C.183
SL-SMT 5.08/07/270FL 1.5SN BK BX	1878150000	C.182
SL-SMT 5.08/07/270FL 1.5SN BK RL	1877110000	C.183
SL-SMT 5.08/07/270FL 3.2SN BK BX	1876900000	C.182
SL-SMT 5.08/07/270GH 1.5SN BK BX	1877060000	C.181
SL-SMT 5.08/07/270GH 1.5SN BK RL	1877640000	C.181
SL-SMT 5.08/07/270GH 3.2SN BK BX	1877420000	C.181
SL-SMT 5.08/07/270GL 1.5SN BK BX	1877170000	C.180
SL-SMT 5.08/07/270GL 1.5SN BK RL	1877790000	C.181
SL-SMT 5.08/07/270GL 3.2SN BK BX	1877540000	C.180
SL-SMT 5.08/07/90 1.5 SN BK RL	1774814001	C.169
SL-SMT 5.08/07/90 1.5SN BK BX	1774812001	C.168
SL-SMT 5.08/07/90 3.2SN BK BX	1780000000	C.168
SL-SMT 5.08/07/90F 3.2SN BK BX	1837680000	C.170
SL-SMT 5.08/07/90G 1.5 SN BK RL	1775054001	C.169
SL-SMT 5.08/07/90G 1.5SN BK BX	1775052001	C.169
SL-SMT 5.08/07/90G 3.2SN BK BX	1780230000	C.169
SL-SMT 5.08/07/90LF 1.5SN BK BX	1775282001	C.172
SL-SMT 5.08/07/90LF 3.2SN BK BX	1780460000	C.172
SL-SMT 5.08/08/180 1.5 SN BK RL	1775664001	C.175
SL-SMT 5.08/08/180 1.5SN BK BX	1775662001	C.174
SL-SMT 5.08/08/180 3.2SN BK BX	1838040000	C.174
SL-SMT 5.08/08/180F 3.2SN BK BX	1820620000	C.176
SL-SMT 5.08/08/180G 1.5SN BK BX	1775982001	C.175
SL-SMT 5.08/08/180G 3.2SN BK BX	1838270000	C.175
SL-SMT 5.08/08/180LF 1.5SN BK BX	1776422001	C.178
SL-SMT 5.08/08/180LF 3.2SN BK BX	1838500000	C.178
SL-SMT 5.08/08/270FH 1.5SN BK BX	1878020000	C.183
SL-SMT 5.08/08/270FH 1.5SN BK RL	1876980000	C.183
SL-SMT 5.08/08/270FH 3.2SN BK BX	1877500000	C.183
SL-SMT 5.08/08/270FL 1.5SN BK BX	1878160000	C.182

Type	Order No.	Page
SL-SMT 5.08/08/270FL 1.5SN BK RL	1877120000	C.183
SL-SMT 5.08/08/270FL 3.2SN BK BX	1876910000	C.182
SL-SMT 5.08/08/270GH 1.5SN BK BX	1877080000	C.181
SL-SMT 5.08/08/270GH 1.5SN BK RL	1877650000	C.181
SL-SMT 5.08/08/270GH 3.2SN BK BX	1877450000	C.181
SL-SMT 5.08/08/270GL 1.5SN BK BX	1877180000	C.180
SL-SMT 5.08/08/270GL 1.5SN BK RL	1877800000	C.181
SL-SMT 5.08/08/270GL 3.2SN BK BX	1877550000	C.180
SL-SMT 5.08/08/90 1.5 SN BK RL	1774824001	C.169
SL-SMT 5.08/08/90 1.5SN BK BX	1774822001	C.168
SL-SMT 5.08/08/90 3.2SN BK BX	1780010000	C.168
SL-SMT 5.08/08/90F 3.2SN BK BX	1837690000	C.170
SL-SMT 5.08/08/90G 1.5SN BK BX	1775062001	C.169
SL-SMT 5.08/08/90G 3.2SN BK BX	1780240000	C.169
SL-SMT 5.08/08/90LF 1.5SN BK BX	1775292001	C.172
SL-SMT 5.08/08/90LF 3.2SN BK BX	1780470000	C.172
SL-SMT 5.08/09/180 1.5SN BK BX	1775672001	C.174
SL-SMT 5.08/09/180 3.2SN BK BX	1838050000	C.174
SL-SMT 5.08/09/180F 1.5SN BK BX	1880940000	C.176
SL-SMT 5.08/09/180F 3.2SN BK BX	1837890000	C.176
SL-SMT 5.08/09/180G 1.5SN BK BX	1775992001	C.175
SL-SMT 5.08/09/180G 3.2SN BK BX	1838280000	C.175
SL-SMT 5.08/09/180LF 1.5SN BK BX	1776432001	C.178
SL-SMT 5.08/09/180LF 3.2SN BK BX	1838510000	C.178
SL-SMT 5.08/09/90 1.5SN BK BX	1774832001	C.168
SL-SMT 5.08/09/90 3.2SN BK BX	1780020000	C.168
SL-SMT 5.08/09/90F 3.2SN BK BX	1837700000	C.170
SL-SMT 5.08/09/90G 1.5SN BK BX	1775072001	C.169
SL-SMT 5.08/09/90G 3.2SN BK BX	1780250000	C.169
SL-SMT 5.08/09/90LF 1.5SN BK BX	1775302001	C.172
SL-SMT 5.08/09/90LF 3.2SN BK BX	1780480000	C.172
SL-SMT 5.08/10/180 1.5SN BK BX	1775682001	C.174
SL-SMT 5.08/10/180 3.2SN BK BX	1838060000	C.174
SL-SMT 5.08/10/180F 1.5SN BK BX	1880950000	C.176
SL-SMT 5.08/10/180F 3.2SN BK BX	1820780000	C.176
SL-SMT 5.08/10/180G 1.5SN BK BX	1776002001	C.175
SL-SMT 5.08/10/180G 3.2SN BK BX	1838290000	C.175
SL-SMT 5.08/10/180LF 1.5SN BK BX	1776442001	C.178
SL-SMT 5.08/10/180LF 3.2SN BK BX	1838520000	C.178
SL-SMT 5.08/10/90 1.5SN BK BX	1774842001	C.168
SL-SMT 5.08/10/90 3.2SN BK BX	1780030000	C.168
SL-SMT 5.08/10/90F 3.2SN BK BX	1837710000	C.170
SL-SMT 5.08/10/90G 1.5SN BK BX	1775082001	C.169
SL-SMT 5.08/10/90G 3.2SN BK BX	1780260000	C.169
SL-SMT 5.08/10/90LF 1.5SN BK BX	1775312001	C.172
SL-SMT 5.08/10/90LF 3.2SN BK BX	1780490000	C.172
SL-SMT 5.08/11/180 1.5SN BK BX	1775692001	C.174
SL-SMT 5.08/11/180 3.2SN BK BX	1838070000	C.174
SL-SMT 5.08/11/180F 1.5SN BK BX	1880960000	C.176
SL-SMT 5.08/11/180F 3.2SN BK BX	1837900000	C.176
SL-SMT 5.08/11/180G 1.5SN BK BX	1776012001	C.175
SL-SMT 5.08/11/180G 3.2SN BK BX	1838300000	C.175
SL-SMT 5.08/11/180LF 1.5SN BK BX	1776452001	C.178
SL-SMT 5.08/11/180LF 3.2SN BK BX	1838530000	C.178
SL-SMT 5.08/11/90 1.5SN BK BX	1774852001	C.168
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SL-SMT 5.08/11/90G 1.5SN BK BX	1775092001	C.169
SL-SMT 5.08/11/90G 3.2SN BK BX	1780270000	C.169
SL-SMT 5.08/11/90LF 1.5SN BK BX	1775322001	C.172
SL-SMT 5.08/11/90LF 3.2SN BK BX	1780500000	C.172
SL-SMT 5.08/12/180 1.5SN BK BX	1775702001	C.174
SL-SMT 5.08/12/180 3.2SN BK BX	1838080000	C.174
SL-SMT 5.08/12/180F 1.5SN BK BX	1880970000	C.176
SL-SMT 5.08/12/180F 3.2SN BK BX	1820630000	C.176
SL-SMT 5.08/12/180G 1.5SN BK BX	1776022001	C.175
SL-SMT 5.08/12/180G 3.2SN BK BX	1838310000	C.175
SL-SMT 5.08/12/180LF 1.5SN BK BX	1776462001	C.178
SL-SMT 5.08/12/180LF 3.2SN BK BX	1838540000	C.178
SL-SMT 5.08/12/90 1.5SN BK BX	1774862001	C.168
SL-SMT 5.08/12/90 3.2SN BK BX	1780050000	C.168
SL-SMT 5.08/12/90F 3.2SN BK BX	1837730000	C.170
SL-SMT 5.08/12/90G 1.5SN BK BX	1775102001	C.169
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SL-SMT 5.08/12/90LF 1.5SN BK BX	1775332001	C.172
SL-SMT 5.08/12/90LF 3.2SN BK BX	1780510000	C.172
SL-SMT 5.08/13/180 1.5SN BK BX	1775712001	C.174
SL-SMT 5.08/13/180 3.2SN BK BX	1838090000	C.174
SL-SMT 5.08/13/180F 1.5SN BK BX	1879920000	C.176
SL-SMT 5.08/13/180F 3.2SN BK BX	1820790000	C.176
SL-SMT 5.08/13/180G 1.5SN BK BX	1776242001	C.175
SL-SMT 5.08/13/180G 3.2SN BK BX	1838320000	C.175
SL-SMT 5.08/13/180LF 1.5SN BK BX	1776472001	C.178
SL-SMT 5.08/13/180LF 3.2SN BK BX	1838550000	C.178
SL-SMT 5.08/13/90 1.5SN BK BX	1774872001	C.168
SL-SMT 5.08/13/90 3.2SN BK BX	1780060000	C.168
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SL-SMT 5.08/13/90G 1.5SN BK BX	1775112001	C.169
SL-SMT 5.08/13/90G 3.2SN BK BX	1780290000	C.169
SL-SMT 5.08/13/90LF 1.5SN BK BX	1775342001	C.172
SL-SMT 5.08/13/90LF 3.2SN BK BX	1780540000	C.172
SL-SMT 5.08/14/180 1.5SN BK BX	1775722001	C.174
SL-SMT 5.08/14/180 3.2SN BK BX	1838100000	C.174
SL-SMT 5.08/14/180F 3.2SN BK BX	1820800000	C.176
SL-SMT 5.08/14/180G 1.5SN BK BX	1776252001	C.175
SL-SMT 5.08/14/180G 3.2SN BK BX	1838330000	C.175
SL-SMT 5.08/14/180LF 1.5SN BK BX	1776482001	C.178
SL-SMT 5.08/14/180LF 3.2SN BK BX	1838560000	C.178
SL-SMT 5.08/14/90 1.5SN BK BX	1774882001	C.168

Type	Order No.	Page
SL-SMT 5.08/14/90 3.2SN BK BX	1780070000	C.168
SL-SMT 5.08/14/90F 3.2SN BK BX	1837750000	C.170
SL-SMT 5.08/14/90G 1.5SN BK BX	1775122001	C.169
SL-SMT 5.08/14/90G 3.2SN BK BX	1780300000	C.169
SL-SMT 5.08/14/90LF 1.5SN BK BX	1775352001	C.172
SL-SMT 5.08/14/90LF 3.2SN BK BX	1780550000	C.172
SL-SMT 5.08/15/180 1.5SN BK BX	1775732001	C.174
SL-SMT 5.08/15/180 3.2SN BK BX	1838110000	C.174
SL-SMT 5.08/15/180F 3.2SN BK BX	1837910000	C.176
SL-SMT 5.08/15/180G 1.5SN BK BX	1776262001	C.175
SL-SMT 5.08/15/180G 3.2SN BK BX	1838340000	C.175
SL-SMT 5.08/15/180LF 1.5SN BK BX	1776492001	C.178
SL-SMT 5.08/15/180LF 3.2SN BK BX	1838570000	C.178
SL-SMT 5.08/15/90 1.5SN BK BX	1774892001	C.168
SL-SMT 5.08/15/90 3.2SN BK BX	1780080000	C.168
SL-SMT 5.08/15/90F 3.2SN BK BX	1837760000	C.170
SL-SMT 5.08/15/90G 1.5SN BK BX	1775132001	C.169
SL-SMT 5.08/15/90G 3.2SN BK BX	1780310000	C.169
SL-SMT 5.08/15/90LF 1.5SN BK BX	1775362001	C.172
SL-SMT 5.08/15/90LF 3.2SN BK BX	1780560000	C.172
SL-SMT 5.08/16/180 1.5SN BK BX	1775742001	C.174
SL-SMT 5.08/16/180 3.2SN BK BX	1838120000	C.174
SL-SMT 5.08/16/180F 3.2SN BK BX	1820640000	C.176
SL-SMT 5.08/16/180G 1.5SN BK BX	1776272001	C.175
SL-SMT 5.08/16/180G 3.2SN BK BX	1838350000	C.175
SL-SMT 5.08/16/180LF 1.5SN BK BX	1776502001	C.178
SL-SMT 5.08/16/180LF 3.2SN BK BX	1838580000	C.178
SL-SMT 5.08/16/90 1.5SN BK BX	1774902001	C.168
SL-SMT 5.08/16/90 3.2SN BK BX	1780090000	C.168
SL-SMT 5.08/16/90F 3.2SN BK BX	1837770000	C.170
SL-SMT 5.08/16/90G 1.5SN BK BX	1775142001	C.169
SL-SMT 5.08/16/90G 3.2SN BK BX	1780320000	C.169
SL-SMT 5.08/16/90LF 1.5SN BK BX	1775372001	C.172
SL-SMT 5.08/16/90LF 3.2SN BK BX	1780570000	C.172
SL-SMT 5.08/17/180 1.5SN BK BX	1775752001	C.174
SL-SMT 5.08/17/180 3.2SN BK BX	1838130000	C.174
SL-SMT 5.08/17/180F 3.2SN BK BX	1837920000	C.176
SL-SMT 5.08/17/180G 1.5SN BK BX	1776282001	C.175
SL-SMT 5.08/17/180G 3.2SN BK BX	1838360000	C.175
SL-SMT 5.08/17/180LF 1.5SN BK BX	1776512001	C.178
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SL-SMT 5.08/17/90G 3.2SN BK BX	1780330000	C.169
SL-SMT 5.08/17/90LF 1.5SN BK BX	1775382001	C.172
SL-SMT 5.08/17/90LF 3.2SN BK BX	1780580000	C.172
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SL-SMT 5.08/18/180 3.2SN BK BX	1838140000	C.174
SL-SMT 5.08/18/180F 3.2SN BK BX	1820650000	C.176
SL-SMT 5.08/18/180G 1.5SN BK BX	1776292001	C.175
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SL-SMT 5.08/18/180LF 1.5SN BK BX	1776522001	C.178
SL-SMT 5.08/18/180LF 3.2SN BK BX	1838600000	C.178
SL-SMT 5.08/18/90 1.5SN BK BX	1774922001	C.168
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SL-SMT 5.08/18/90F 3.2SN BK BX	1837790000	C.170
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SL-SMT 5.08/18/90LF 1.5SN BK BX	1775392001	C.172
SL-SMT 5.08/18/90LF 3.2SN BK BX	1780590000	C.172
SL-SMT 5.08/19/180 1.5SN BK BX	1775772001	C.174
SL-SMT 5.08/19/180 3.2SN BK BX	1838150000	C.174
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SL-SMT 5.08/19/180LF 1.5SN BK BX	1776532001	C.178
SL-SMT 5.08/19/180LF 3.2SN BK BX	1838610000	C.178
SL-SMT 5.08/19/90 1.5SN BK BX	1774932001	C.168
SL-SMT 5.08/19/90 3.2SN BK BX	1780120000	C.168
SL-SMT 5.08/19/90F 3.2SN BK BX	1837800000	C.170
SL-SMT 5.08/19/90G 1.5SN BK BX	1775172001	C.169
SL-SMT 5.08/19/90G 3.2SN BK BX	1780350000	C.169
SL-SMT 5.08/19/90LF 1.5SN BK BX	1775402001	C.172
SL-SMT 5.08/19/90LF 3.2SN BK BX	1780600000	C.172
SL-SMT 5.08/20/180 1.5SN BK BX	1775782001	C.174
SL-SMT 5.08/20/180 3.2SN BK BX	1838160000	C.174
SL-SMT 5.08/20/180F 3.2SN BK BX	1820810000	C.176
SL-SMT 5.08/20/180G 1.5SN BK BX	1776312001	C.175
SL-SMT 5.08/20/180G 3.2SN BK BX	1838390000	C.175
SL-SMT 5.08/20/180LF 1.5SN BK BX	1776542001	C.178
SL-SMT 5.08/20/180LF 3.2SN BK BX	1838620000	C.178
SL-SMT 5.08/20/90 1.5SN BK BX	1774942001	C.168
SL-SMT 5.08/20/90 3.2SN BK BX	1780130000	C.168
SL-SMT 5.08/20/90F 3.2SN BK BX	1837810000	C.170
SL-SMT 5.08/20/90G 1.5SN BK BX	1775182001	C.169
SL-SMT 5.08/20/90G 3.2SN BK BX	1780360000	C.169
SL-SMT 5.08/20/90LF 1.5SN BK BX	1775412001	C.172
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SL-SMT 5.08/21/180 1.5SN BK BX	1775792001	C.174
SL-SMT 5.08/21/180 3.2SN BK BX	1838170000	C.174
SL-SMT 5.08/21/180F 3.2SN BK BX	1837940000	C.176
SL-SMT 5.08/21/180G 1.5SN BK BX	1776322001	C.175
SL-SMT 5.08/21/180G 3.2SN BK BX	1838400000	C.175
SL-SMT 5.08/21/180LF 1.5SN BK BX	1776552001	C.178
SL-SMT 5.08/21/180LF 3.2SN BK BX	1838630000	C.178
SL-SMT 5.08/21/90 1.5SN BK BX	1774952001	C.168
SL-SMT 5.08/21/90 3.2SN BK BX	1780140000	C.168

Type	Order No.	Page
SL-SMT 5.08/21/90F 3.2SN BK BX	1837820000	C.170
SL-SMT 5.08/21/90G 1.5SN BK BX	1775192001	C.169
SL-SMT 5.08/21/90G 3.2SN BK BX	1780370000	C.169
SL-SMT 5.08/21/90LF 1.5SN BK BX	1775422001	C.172
SL-SMT 5.08/21/90LF 3.2SN BK BX	1780620000	C.172
SL-SMT 5.08/22/180 1.5SN BK BX	1775802001	C.174
SL-SMT 5.08/22/180 3.2SN BK BX	1838180000	C.174
SL-SMT 5.08/22/180F 3.2SN BK BX	1837950000	C.176
SL-SMT 5.08/22/180G 1.5SN BK BX	1776332001	C.175
SL-SMT 5.08/22/180G 3.2SN BK BX	1838410000	C.175
SL-SMT 5.08/22/180LF 1.5SN BK BX	1776572001	C.178
SL-SMT 5.08/22/180LF 3.2SN BK BX	1838640000	C.178
SL-SMT 5.08/22/90 1.5SN BK BX	1774962001	C.168
SL-SMT 5.08/22/90 3.2SN BK BX	1780150000	C.168
SL-SMT 5.08/22/90F 3.2SN BK BX	1837830000	C.170
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SL-SMT 5.08/22/90G 3.2SN BK BX	1780380000	C.169
SL-SMT 5.08/22/90LF 1.5SN BK BX	1775432001	C.172
SL-SMT 5.08/22/90LF 3.2SN BK BX	1780630000	C.172
SL-SMT 5.08/23/180 1.5SN BK BX	1775812001	C.174
SL-SMT 5.08/23/180 3.2SN BK BX	1838190000	C.174
SL-SMT 5.08/23/180F 3.2SN BK BX	1837960000	C.176
SL-SMT 5.08/23/180G 1.5SN BK BX	1776342001	C.175
SL-SMT 5.08/23/180G 3.2SN BK BX	1838420000	C.175
SL-SMT 5.08/23/180LF 1.5SN BK BX	1776582001	C.178
SL-SMT 5.08/23/180LF 3.2SN BK BX	1838650000	C.178
SL-SMT 5.08/23/90 1.5SN BK BX	1774972001	C.168
SL-SMT 5.08/23/90 3.2SN BK BX	1780160000	C.168
SL-SMT 5.08/23/90F 3.2SN BK BX	1837840000	C.170
SL-SMT 5.08/23/90G 1.5SN BK BX	1775212001	C.169
SL-SMT 5.08/23/90G 3.2SN BK BX	1780390000	C.169
SL-SMT 5.08/23/90LF 1.5SN BK BX	1775442001	C.172
SL-SMT 5.08/23/90LF 3.2SN BK BX	1780640000	C.172
SL-SMT 5.08/24/180 1.5SN BK BX	1775822001	C.174
SL-SMT 5.08/24/180 3.2SN BK BX	1838200000	C.174
SL-SMT 5.08/24/180F 3.2SN BK BX	1837970000	C.176
SL-SMT 5.08/24/180G 1.5SN BK BX	1776352001	C.175
SL-SMT 5.08/24/180G 3.2SN BK BX	1838430000	C.175
SL-SMT 5.08/24/180LF 1.5SN BK BX	1776592001	C.178
SL-SMT 5.08/24/180LF 3.2SN BK BX	1838660000	C.178
SL-SMT 5.08/24/90 1.5SN BK BX	1774982001	C.168
SL-SMT 5.08/24/90 3.2SN BK BX	1780170000	C.168
SL-SMT 5.08/24/90F 3.2SN BK BX	1837850000	C.170
SL-SMT 5.08/24/90G 1.5SN BK BX	1775222001	C.169
SL-SMT 5.08/24/90G 3.2SN BK BX	1780400000	C.169
SL-SMT 5.08/24/90LF 1.5SN BK BX	1775452001	C.172
SL-SMT 5.08/24/90LF 3.2SN BK BX	1780650000	C.172
SLA BB11R OR	1604120000	D.6
SLA BB11R SW	1692340000	D.6
SLA BB12R OR	1593450000	D.6
SLA BB12R SW	1626880000	D.6
SLA BB14 OR	1594200000	D.7
SLA BB14 SW	1774460000	D.7
SLA BB1R OR	1723430000	D.6
SLA BB1R SW	1723480000	D.6
SLA BB2R OR	1723440000	D.6
SLA BB2R SW	1723490000	D.6
SLA BB4 OR	1571720000	C.212
SLA BB8 RH OR	1446060000	C.212
SLD 3.5 V/06/180G 3.2 SN OR	1891190000	C.42
SLD 3.5 V/10/180G 3.2 SN OR	1891200000	C.42
SLD 3.5 V/12/180G 3.20R	1641130000	C.42
SLD 3.5 V/16/180G 3.20R	1641140000	C.42
SLD 3.5 V/20/180G 3.20R	1641150000	C.42
SLD 3.5 V/24/180G 3.20R	1641160000	C.42
SLD 3.5 V/28/180G 3.20R	1641170000	C.42
SLD 3.5 V/32/180G 3.20R	1641180000	C.42
SLD 3.5 V/34/180G 3.2 SN OR	1891260000	C.42
SLD 3.5 V/36/180G 3.20R	1641190000	C.42
SLD 3.5 V/38/180G 3.2 SN OR	1891270000	C.42
SLD 3.5 V/4/180G 3.20R	1641110000	C.42
SLD 3.5 V/40/180G 3.20R	1641200000	C.42
SLD 3.5 V/42/180G 3.2 SN OR	1891280000	C.42
SLD 3.5 V/44/180G 3.20R	1641210000	C.42
SLD 3.5 V/46/180G 3.2 SN OR	1891290000	C.42
SLD 3.5 V/48/180G 3.20R	1641220000	C.42
SLD 3.5 V/8/180G 3.20R	1641120000	C.42
SLD 3.50 V/04/180F 3.2 SN OR BX	1641240000	C.43
SLD 3.50 V/04/90F 3.2 SN OR BX	1642370000	C.41
SLD 3.50 V/04/90G 3.2 SN OR BX	1642240000	C.40
SLD 3.50 V/06/180F 3.2 SN OR BX	1891060000	C.43
SLD 3.50 V/08/180F 3.2 SN OR BX	1641250000	C.43
SLD 3.50 V/08/90F 3.2 SN OR BX	1642380000	C.41
SLD 3.50 V/08/90G 3.2 SN OR BX	1642250000	C.40
SLD 3.50 V/10/180F 3.2 SN OR BX	1891070000	C.43
SLD 3.50 V/12/180F 3.2 SN OR BX	1641260000	C.43
SLD 3.50 V/12/90F 3.2 SN OR BX	1642390000	C.41
SLD 3.50 V/12/90G 3.2 SN OR BX	1642260000	C.40
SLD 3.50 V/14/180F 3.2 SN OR BX	1891080000	C.43
SLD 3.50 V/16/180F 3.2 SN OR BX	1641270000	C.43
SLD 3.50 V/16/90F 3.2 SN OR BX	1642400000	C.41
SLD 3.50 V/16/90G 3.2 SN OR BX	1642270000	C.40
SLD 3.50 V/18/180F 3.2 SN OR BX	1891090000	C.43
SLD 3.50 V/20/180F 3.2 SN OR BX	1641280000	C.43
SLD 3.50 V/20/90F 3.2 SN OR BX	1642410000	C.41
SLD 3.50 V/20/90G 3.2 SN OR BX	1642280000	C.40
SLD 3.50 V/22/180F 3.2 SN OR BX	1891100000	C.43
SLD 3.50 V/24/180F 3.2 SN OR BX	1641290000	C.43
SLD 3.50 V/24/90F 3.2 SN OR BX	1642420000	C.41

Type	Order No.	Page
SLD 3.50 V/24/90G 3.2 SN OR BX	1642290000	C.40
SLD 3.50 V/26/180F 3.2 SN OR BX	1891110000	C.43
SLD 3.50 V/28/180F 3.2 SN OR BX	1641300000	C.43
SLD 3.50 V/28/90F 3.2 SN OR BX	1642430000	C.41
SLD 3.50 V/28/90G 3.2 SN OR BX	1642300000	C.40
SLD 3.50 V/30/180F 3.2 SN OR BX	1891120000	C.43
SLD 3.50 V/32/180F 3.2 SN OR BX	1641310000	C.43
SLD 3.50 V/32/90F 3.2 SN OR BX	1642440000	C.41
SLD 3.50 V/32/90G 3.2 SN OR BX	1642310000	C.40
SLD 3.50 V/34/180F 3.2 SN OR BX	1891130000	C.43
SLD 3.50 V/36/180F 3.2 SN OR BX	1641320000	C.43
SLD 3.50 V/36/90F 3.2 SN OR BX	1642450000	C.41
SLD 3.50 V/36/90G 3.2 SN OR BX	1642320000	C.40
SLD 3.50 V/38/180F 3.2 SN OR BX	1891140000	C.43
SLD 3.50 V/40/180F 3.2 SN OR BX	1641330000	C.43
SLD 3.50 V/40/90F 3.2 SN OR BX	1642460000	C.41
SLD 3.50 V/40/90G 3.2 SN OR BX	1642330000	C.40
SLD 3.50 V/42/180F 3.2 SN OR BX	1891150000	C.43
SLD 3.50 V/44/180F 3.2 SN OR BX	1641340000	C.43
SLD 3.50 V/44/90F 3.2 SN OR BX	1642470000	C.41
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SLD 3.50 V/48/180F 3.2 SN OR BX	1641350000	C.43
SLD 3.50 V/48/90F 3.2 SN OR BX	1642480000	C.41
SLD 3.50 V/48/90G 3.2 SN OR BX	1642350000	C.40
SLD 3.50/04/90F 3.2SN OR BX	1633810000	C.39
SLD 3.50/04/90G 3.2SN OR BX	1633580000	C.38
SLD 3.50/06/90F 3.2SN OR BX	1633820000	C.39
SLD 3.50/06/90G 3.2SN OR BX	1633590000	C.38
SLD 3.50/08/90F 3.2SN OR BX	1633830000	C.39
SLD 3.50/08/90G 3.2SN OR BX	1633600000	C.38
SLD 3.50/10/90F 3.2SN OR BX	1633840000	C.39
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SLD 3.50/12/90F 3.2SN OR BX	1633850000	C.39
SLD 3.50/12/90G 3.2SN OR BX	1633620000	C.38
SLD 3.50/14/90F 3.2SN OR BX	1633860000	C.39
SLD 3.50/14/90G 3.2SN OR BX	1633630000	C.38
SLD 3.50/16/90F 3.2SN OR BX	1633870000	C.39
SLD 3.50/16/90G 3.2SN OR BX	1633640000	C.38
SLD 3.50/18/90F 3.2SN OR BX	1633880000	C.39
SLD 3.50/18/90G 3.2SN OR BX	1633650000	C.38
SLD 3.50/20/90F 3.2SN OR BX	1633890000	C.39
SLD 3.50/20/90G 3.2SN OR BX	1633660000	C.38
SLD 3.50/22/90F 3.2SN OR BX	1633900000	C.39
SLD 3.50/22/90G 3.2SN OR BX	1633670000	C.38
SLD 3.50/24/90F 3.2SN OR BX	1633910000	C.39
SLD 3.50/24/90G 3.2SN OR BX	1633680000	C.38
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SLD 3.50/26/90G 3.2SN OR BX	1633690000	C.38
SLD 3.50/28/90F 3.2SN OR BX	1633930000	C.39
SLD 3.50/28/90G 3.2SN OR BX	1633700000	C.38
SLD 3.50/30/90F 3.2SN OR BX	1633940000	C.39
SLD 3.50/30/90G 3.2SN OR BX	1633710000	C.38
SLD 3.50/32/90F 3.2SN OR BX	1633950000	C.39
SLD 3.50/32/90G 3.2SN OR BX	1633720000	C.38
SLD 3.50/34/90F 3.2SN OR BX	1633960000	C.39
SLD 3.50/34/90G 3.2SN OR BX	1633730000	C.38
SLD 3.50/36/90F 3.2SN OR BX	1633970000	C.39
SLD 3.50/36/90G 3.2SN OR BX	1633740000	C.38
SLD 3.50/38/90F 3.2SN OR BX	1633980000	C.39
SLD 3.50/38/90G 3.2SN OR BX	1633750000	C.38
SLD 3.50/40/90F 3.2SN OR BX	1633990000	C.39
SLD 3.50/40/90G 3.2SN OR BX	1633760000	C.38
SLD 3.50/42/90F 3.2SN OR BX	1634000000	C.39
SLD 3.50/42/90G 3.2SN OR BX	1633770000	C.38
SLD 3.50/44/90F 3.2SN OR BX	1634010000	C.39
SLD 3.50/44/90G 3.2SN OR BX	1633780000	C.38
SLD 3.50/46/90F 3.2SN OR BX	1634020000	C.39
SLD 3.50/46/90G 3.2SN OR BX	1633790000	C.38
SLD 3.50/48/90F 3.2SN OR BX	1634030000	C.39
SLD 3.50/48/90G 3.2SN OR BX	1633800000	C.38
SLD 3.50V/06/90F 3.2SN OR BX	1890790000	C.41
SLD 3.50V/06/90G 3.2SN OR BX	1890600000	C.40
SLD 3.50V/10/90F 3.2SN OR BX	1890800000	C.41
SLD 3.50V/10/90G 3.2SN OR BX	1866770000	C.40
SLD 3.50V/14/90F 3.2SN OR BX	1890810000	C.41
SLD 3.50V/14/90G 3.2SN OR BX	1890610000	C.40
SLD 3.50V/18/90F 3.2SN OR BX	1890820000	C.41
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SLD 3.50V/22/90G 3.2SN OR BX	1669650000	C.40
SLD 3.50V/26/90F 3.2SN OR BX	1890830000	C.41
SLD 3.50V/26/90G 3.2SN OR BX	1890630000	C.40
SLD 3.50V/30/90F 3.2SN OR BX	1890840000	C.41
SLD 3.50V/30/90G 3.2SN OR BX	1890640000	C.40
SLD 3.50V/34/90F 3.2SN OR BX	1890850000	C.41
SLD 3.50V/34/90G 3.2SN OR BX	1890650000	C.40
SLD 3.50V/38/90F 3.2SN OR BX	1890860000	C.41
SLD 3.50V/38/90G 3.2SN OR BX	1890660000	C.40
SLD 3.50V/42/90F 3.2SN OR BX	1890870000	C.41
SLD 3.50V/42/90G 3.2SN OR BX	1890670000	C.40
SLD 3.50V/46/90F 3.2SN OR BX	1890880000	C.41
SLD 3.50V/46/90G 3.2SN OR BX	1890680000	C.40
SLD 5.00/04/180G 3.2SN OR BX	1614810000	C.151
SLD 5.00/04/90G 3.2 SN OR BX	1614350000	C.150
SLD 5.00/06/180G 3.2SN OR BX	1614820000	C.151
SLD 5.00/06/90G 3.2 SN OR BX	1614360000	C.150
SLD 5.00/08/180G 3.2SN OR BX	1614830000	C.151
SLD 5.00/08/90G 3.2 SN OR BX	1614370000	C.150

Type	Order No.	Page
SLD 5.00/10/180G 3.2SN OR BX	1614840000	C.151
SLD 5.00/10/90G 3.2 SN OR BX	1614380000	C.150
SLD 5.00/12/180G 3.2SN OR BX	1614850000	C.151
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SLD 5.00/16/180G 3.2SN OR BX	1614870000	C.151
SLD 5.00/16/90G 3.2 SN OR BX	1614410000	C.150
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SLD 5.00/18/90G 3.2 SN OR BX	1614420000	C.150
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SLD 5.00/24/90G 3.2 SN OR BX	1614450000	C.150
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SLD 5.00/26/90G 3.2 SN OR BX	1614460000	C.150
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SLD 5.08/06/90G 3.2SN OR BX	1601800000	C.200
SLD 5.08/08/180G 3.2SN OR BX	1602410000	C.201
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SLD 5.08/18/90G 3.2SN OR BX	1601860000	C.200
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SLD 5.08/20/90G 3.2SN OR BX	1601870000	C.200
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SLD 5.08/30/90G 3.2SN OR BX	1601920000	C.200
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SLD 5.08/32/90G 3.2SN OR BX	1601930000	C.200
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SLD 5.08/44/90G 3.2SN OR BX	1601990000	C.200
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SLD 5.08/46/90G 3.2SN OR BX	1602000000	C.200
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SLD 5.08/48/90G 3.2SN OR BX	1602010000	C.200
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SLD 5.08V/04/90 3.2 SN OR BX	1725170000	C.198
SLD 5.08V/06/180 3.2SN OR BX	1725660000	C.199
SLD 5.08V/06/90 3.2 SN OR BX	1725180000	C.198
SLD 5.08V/08/180 3.2SN OR BX	1725670000	C.199
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SLD 5.08V/10/180 3.2SN OR BX	1725680000	C.199
SLD 5.08V/10/90 3.2 SN OR BX	1725200000	C.198
SLD 5.08V/12/180 3.2SN OR BX	1725690000	C.199
SLD 5.08V/12/90 3.2 SN OR BX	1725210000	C.198
SLD 5.08V/14/180 3.2SN OR BX	1725700000	C.199
SLD 5.08V/14/90 3.2 SN OR BX	1725220000	C.198
SLD 5.08V/16/180 3.2SN OR BX	1725710000	C.199

Type	Order No.	Page
SLD 5.08V/16/90 3.2 SN OR BX	1725230000	C.198
SLD 5.08V/18/180 3.2SN OR BX	1725720000	C.199
SLD 5.08V/18/90 3.2 SN OR BX	1725240000	C.198
SLD 5.08V/20/180 3.2SN OR BX	1725730000	C.199
SLD 5.08V/20/90 3.2 SN OR BX	1725250000	C.198
SLD 5.08V/22/180 3.2SN OR BX	1725740000	C.199
SLD 5.08V/22/90 3.2 SN OR BX	1725260000	C.198
SLD 5.08V/24/180 3.2SN OR BX	1725750000	C.199
SLD 5.08V/24/90 3.2 SN OR BX	1725270000	C.198
SLD 5.08V/26/180 3.2SN OR BX	1725760000	C.199
SLD 5.08V/26/90 3.2 SN OR BX	1725280000	C.198
SLD 5.08V/28/180 3.2SN OR BX	1725770000	C.199
SLD 5.08V/28/90 3.2 SN OR BX	1725290000	C.198
SLD 5.08V/30/180 3.2SN OR BX	1725780000	C.199
SLD 5.08V/30/90 3.2 SN OR BX	1725300000	C.198
SLD 5.08V/32/180 3.2SN OR BX	1725790000	C.199
SLD 5.08V/32/90 3.2 SN OR BX	1725310000	C.198
SLD 5.08V/34/180 3.2SN OR BX	1725800000	C.199
SLD 5.08V/34/90 3.2 SN OR BX	1725320000	C.198
SLD 5.08V/36/180 3.2SN OR BX	1725810000	C.199
SLD 5.08V/36/90 3.2 SN OR BX	1725330000	C.198
SLD 5.08V/38/180 3.2SN OR BX	1725820000	C.199
SLD 5.08V/38/90 3.2 SN OR BX	1725340000	C.198
SLD 5.08V/40/180 3.2SN OR BX	1725830000	C.199
SLD 5.08V/40/90 3.2 SN OR BX	1725350000	C.198
SLD 5.08V/42/180 3.2SN OR BX	1725840000	C.199
SLD 5.08V/42/90 3.2 SN OR BX	1725360000	C.198
SLD 5.08V/44/180 3.2SN OR BX	1725850000	C.199
SLD 5.08V/44/90 3.2 SN OR BX	1725370000	C.198
SLD 5.08V/46/180 3.2SN OR BX	1725860000	C.199
SLD 5.08V/46/90 3.2 SN OR BX	1725380000	C.198
SLD 5.08V/48/180 3.2SN OR BX	1725870000	C.199
SLD 5.08V/48/90 3.2 SN OR BX	1725390000	C.198
SLDF 5.08 L/F 10 SN OR BX	1599210000	C.202
SLDF 5.08 L/F 11 SN OR BX	1599220000	C.202
SLDF 5.08 L/F 12 SN OR BX	1599230000	C.202
SLDF 5.08 L/F 13 SN OR BX	1599240000	C.202
SLDF 5.08 L/F 14 SN OR BX	1599250000	C.202
SLDF 5.08 L/F 15 SN OR BX	1599260000	C.202
SLDF 5.08 L/F 16 SN OR BX	1599270000	C.202
SLDF 5.08 L/F 2 SN OR BX	1599130000	C.202
SLDF 5.08 L/F 3 SN OR BX	1599140000	C.202
SLDF 5.08 L/F 4 SN OR BX	1599150000	C.202
SLDF 5.08 L/F 5 SN OR BX	1599160000	C.202
SLDF 5.08 L/F 6 SN OR BX	1599170000	C.202
SLDF 5.08 L/F 7 SN OR BX	1599180000	C.202
SLDF 5.08 L/F 8 SN OR BX	1599190000	C.202
SLDF 5.08 L/F 9 SN OR BX	1599200000	C.202
SLDF VR	1599120000	D.5
SLDV-THR 5.00/04/180F 1.5SN BK BX	1895230000	C.143
SLDV-THR 5.00/04/180F 3.2SN BK BX	1882930000	C.143
SLDV-THR 5.00/04/180FLF 1.5SN BK BX	1895460000	C.143
SLDV-THR 5.00/04/180FLF 3.2SN BK BX	1883100000	C.143
SLDV-THR 5.00/04/180G 1.5SN BK BX	1894980000	C.142
SLDV-THR 5.00/04/180G 3.2SN BK BX	1882690000	C.142
SLDV-THR 5.00/04/180GLF 1.5SN BK BX	1911750000	C.143
SLDV-THR 5.00/04/180GLF 3.2SN BK BX	1911290000	C.143
SLDV-THR 5.00/06/180F 1.5SN BK BX	1895240000	C.143
SLDV-THR 5.00/06/180F 3.2SN BK BX	1882940000	C.143
SLDV-THR 5.00/06/180FLF 1.5SN BK BX	1895470000	C.143
SLDV-THR 5.00/06/180FLF 3.2SN BK BX	1883110000	C.143
SLDV-THR 5.00/06/180G 1.5SN BK BX	1894990000	C.142
SLDV-THR 5.00/06/180G 3.2SN BK BX	1882700000	C.142
SLDV-THR 5.00/06/180GLF 1.5SN BK BX	1911760000	C.143
SLDV-THR 5.00/06/180GLF 3.2SN BK BX	1911310000	C.143
SLDV-THR 5.00/08/180F 1.5SN BK BX	1895250000	C.143
SLDV-THR 5.00/08/180F 3.2SN BK BX	1882950000	C.143
SLDV-THR 5.00/08/180FLF 1.5SN BK BX	1895480000	C.143
SLDV-THR 5.00/08/180FLF 3.2SN BK BX	1883120000	C.143
SLDV-THR 5.00/08/180G 1.5SN BK BX	1895000000	C.142
SLDV-THR 5.00/08/180G 3.2SN BK BX	1862370000	C.142
SLDV-THR 5.00/08/180GLF 1.5SN BK BX	1911770000	C.143
SLDV-THR 5.00/08/180GLF 3.2SN BK BX	1911320000	C.143
SLDV-THR 5.00/10/180F 1.5SN BK BX	1895260000	C.143
SLDV-THR 5.00/10/180F 3.2SN BK BX	1882960000	C.143
SLDV-THR 5.00/10/180FLF 1.5SN BK BX	1895490000	C.143
SLDV-THR 5.00/10/180FLF 3.2SN BK BX	1883130000	C.143
SLDV-THR 5.00/10/180G 1.5SN BK BX	1895010000	C.142
SLDV-THR 5.00/10/180G 3.2SN BK BX	1882710000	C.142
SLDV-THR 5.00/10/180GLF 1.5SN BK BX	1911780000	C.143
SLDV-THR 5.00/10/180GLF 3.2SN BK BX	1911330000	C.143
SLDV-THR 5.00/12/180F 1.5SN BK BX	1895270000	C.143
SLDV-THR 5.00/12/180F 3.2SN BK BX	1882970000	C.143
SLDV-THR 5.00/12/180FLF 1.5SN BK BX	1895500000	C.143
SLDV-THR 5.00/12/180FLF 3.2SN BK BX	1883140000	C.143
SLDV-THR 5.00/12/180G 1.5SN BK BX	1895020000	C.142
SLDV-THR 5.00/12/180G 3.2SN BK BX	1882720000	C.142
SLDV-THR 5.00/12/180GLF 1.5SN BK BX	1911790000	C.143
SLDV-THR 5.00/12/180GLF 3.2SN BK BX	1911340000	C.143
SLDV-THR 5.00/14/180F 1.5SN BK BX	1895280000	C.143
SLDV-THR 5.00/14/180F 3.2SN BK BX	1882980000	C.143
SLDV-THR 5.00/14/180FLF 1.5SN BK BX	1895510000	C.143
SLDV-THR 5.00/14/180FLF 3.2SN BK BX	1883150000	C.143
SLDV-THR 5.00/14/180G 1.5SN BK BX	1895030000	C.142
SLDV-THR 5.00/14/180G 3.2SN BK BX	1882730000	C.142
SLDV-THR 5.00/14/180GLF 1.5SN BK BX	1911800000	C.143
SLDV-THR 5.00/14/180GLF 3.2SN BK BX	1911350000	C.143
SLDV-THR 5.00/16/180F 1.5SN BK BX	1895290000	C.143
SLDV-THR 5.00/16/180F 3.2SN BK BX	1882990000	C.143

Type	Order No.	Page
SLDV-THR 5.00/16/180FLF 1.5SN BK BX	1895520000	C.143
SLDV-THR 5.00/16/180FLF 3.2SN BK BX	1883160000	C.143
SLDV-THR 5.00/16/180G 1.5SN BK BX	1895040000	C.142
SLDV-THR 5.00/16/180G 3.2SN BK BX	1862380000	C.142
SLDV-THR 5.00/16/180GLF 1.5SN BK BX	1911810000	C.143
SLDV-THR 5.00/16/180GLF 3.2SN BK BX	1911360000	C.143
SLDV-THR 5.00/18/180F 1.5SN BK BX	1895300000	C.143
SLDV-THR 5.00/18/180F 3.2SN BK BX	1883000000	C.143
SLDV-THR 5.00/18/180FLF 1.5SN BK BX	1895530000	C.143
SLDV-THR 5.00/18/180FLF 3.2SN BK BX	1883170000	C.143
SLDV-THR 5.00/18/180G 1.5SN BK BX	1895050000	C.142
SLDV-THR 5.00/18/180G 3.2SN BK BX	1882740000	C.142
SLDV-THR 5.00/18/180GLF 1.5SN BK BX	1911820000	C.143
SLDV-THR 5.00/18/180GLF 3.2SN BK BX	1911370000	C.143
SLDV-THR 5.00/20/180F 1.5SN BK BX	1895310000	C.143
SLDV-THR 5.00/20/180F 3.2SN BK BX	1881340000	C.143
SLDV-THR 5.00/20/180FLF 1.5SN BK BX	1895540000	C.143
SLDV-THR 5.00/20/180FLF 3.2SN BK BX	1883180000	C.143
SLDV-THR 5.00/20/180G 1.5SN BK BX	1895060000	C.142
SLDV-THR 5.00/20/180G 3.2SN BK BX	1862390000	C.142
SLDV-THR 5.00/20/180GLF 1.5SN BK BX	1911830000	C.143
SLDV-THR 5.00/20/180GLF 3.2SN BK BX	1911410000	C.143
SLDV-THR 5.00/22/180F 1.5SN BK BX	1895320000	C.143
SLDV-THR 5.00/22/180F 3.2SN BK BX	1883010000	C.143
SLDV-THR 5.00/22/180FLF 1.5SN BK BX	1895550000	C.143
SLDV-THR 5.00/22/180FLF 3.2SN BK BX	1883190000	C.143
SLDV-THR 5.00/22/180G 1.5SN BK BX	1895070000	C.142
SLDV-THR 5.00/22/180G 3.2SN BK BX	1882750000	C.142
SLDV-THR 5.00/22/180GLF 1.5SN BK BX	1911840000	C.143
SLDV-THR 5.00/22/180GLF 3.2SN BK BX	1911470000	C.143
SLDV-THR 5.00/24/180F 1.5SN BK BX	1895330000	C.143
SLDV-THR 5.00/24/180F 3.2SN BK BX	1881370000	C.143
SLDV-THR 5.00/24/180FLF 1.5SN BK BX	1895560000	C.143
SLDV-THR 5.00/24/180FLF 3.2SN BK BX	1883200000	C.143
SLDV-THR 5.00/24/180G 1.5SN BK BX	1895080000	C.142
SLDV-THR 5.00/24/180G 3.2SN BK BX	1882760000	C.142
SLDV-THR 5.00/24/180GLF 1.5SN BK BX	1911850000	C.143
SLDV-THR 5.00/24/180GLF 3.2SN BK BX	1911500000	C.143
SLDV-THR 5.00/26/180F 1.5SN BK BX	1895340000	C.143
SLDV-THR 5.00/26/180F 3.2SN BK BX	1883020000	C.143
SLDV-THR 5.00/26/180FLF 1.5SN BK BX	1895570000	C.143
SLDV-THR 5.00/26/180FLF 3.2SN BK BX	1883230000	C.143
SLDV-THR 5.00/26/180G 1.5SN BK BX	1895090000	C.142
SLDV-THR 5.00/26/180G 3.2SN BK BX	1882770000	C.142
SLDV-THR 5.00/26/180GLF 1.5SN BK BX	1911860000	C.143
SLDV-THR 5.00/26/180GLF 3.2SN BK BX	1911520000	C.143
SLDV-THR 5.00/28/180F 1.5SN BK BX	1895350000	C.143
SLDV-THR 5.00/28/180F 3.2SN BK BX	1881390000	C.143
SLDV-THR 5.00/28/180FLF 1.5SN BK BX	1895580000	C.143
SLDV-THR 5.00/28/180FLF 3.2SN BK BX	1883240000	C.143
SLDV-THR 5.00/28/180G 1.5SN BK BX	1895100000	C.142
SLDV-THR 5.00/28/180G 3.2SN BK BX	1882780000	C.142
SLDV-THR 5.00/28/180GLF 1.5SN BK BX	1911870000	C.143
SLDV-THR 5.00/28/180GLF 3.2SN BK BX	1911550000	C.143
SLDV-THR 5.00/30/180F 1.5SN BK BX	1895360000	C.143
SLDV-THR 5.00/30/180F 3.2SN BK BX	1883030000	C.143
SLDV-THR 5.00/30/180FLF 1.5SN BK BX	1895590000	C.143
SLDV-THR 5.00/30/180FLF 3.2SN BK BX	1883250000	C.143
SLDV-THR 5.00/30/180G 1.5SN BK BX	1895110000	C.142
SLDV-THR 5.00/30/180G 3.2SN BK BX	1882790000	C.142
SLDV-THR 5.00/30/180GLF 1.5SN BK BX	1911880000	C.143
SLDV-THR 5.00/30/180GLF 3.2SN BK BX	1911640000	C.143
SLDV-THR 5.00/32/180F 1.5SN BK BX	1895370000	C.143
SLDV-THR 5.00/32/180F 3.2SN BK BX	1881400000	C.143
SLDV-THR 5.00/32/180FLF 1.5SN BK BX	1895600000	C.143
SLDV-THR 5.00/32/180FLF 3.2SN BK BX	1883270000	C.143
SLDV-THR 5.00/32/180G 1.5SN BK BX	1895120000	C.142
SLDV-THR 5.00/32/180G 3.2SN BK BX	1882800000	C.142
SLDV-THR 5.00/32/180GLF 1.5SN BK BX	1911890000	C.143
SLDV-THR 5.00/32/180GLF 3.2SN BK BX	1911650000	C.143
SLDV-THR 5.00/34/180F 1.5SN BK BX	1895380000	C.143
SLDV-THR 5.00/34/180F 3.2SN BK BX	1881420000	C.143
SLDV-THR 5.00/34/180FLF 1.5SN BK BX	1895610000	C.143
SLDV-THR 5.00/34/180FLF 3.2SN BK BX	1883280000	C.143
SLDV-THR 5.00/34/180G 1.5SN BK BX	1895130000	C.142
SLDV-THR 5.00/34/180G 3.2SN BK BX	1882810000	C.142
SLDV-THR 5.00/34/180GLF 1.5SN BK BX	1911900000	C.143
SLDV-THR 5.00/34/180GLF 3.2SN BK BX	1911660000	C.143
SLDV-THR 5.00/36/180F 1.5SN BK BX	1895390000	C.143
SLDV-THR 5.00/36/180F 3.2SN BK BX	1881470000	C.143
SLDV-THR 5.00/36/180FLF 1.5SN BK BX	1895620000	C.143
SLDV-THR 5.00/36/180FLF 3.2SN BK BX	1883290000	C.143
SLDV-THR 5.00/36/180G 1.5SN BK BX	1895140000	C.142
SLDV-THR 5.00/36/180G 3.2SN BK BX	1882820000	C.142
SLDV-THR 5.00/36/180GLF 1.5SN BK BX	1911910000	C.143
SLDV-THR 5.00/36/180GLF 3.2SN BK BX	1911670000	C.143
SLDV-THR 5.00/38/180F 1.5SN BK BX	1895400000	C.143
SLDV-THR 5.00/38/180F 3.2SN BK BX	1883040000	C.143
SLDV-THR 5.00/38/180FLF 1.5SN BK BX	1895630000	C.143
SLDV-THR 5.00/38/180FLF 3.2SN BK BX	1883300000	C.143
SLDV-THR 5.00/38/180G 1.5SN BK BX	1895150000	C.142
SLDV-THR 5.00/38/180G 3.2SN BK BX	1882830000	C.142
SLDV-THR 5.00/38/180GLF 1.5SN BK BX	1911920000	C.143
SLDV-THR 5.00/38/180GLF 3.2SN BK BX	1911680000	C.143
SLDV-THR 5.00/40/180F 1.5SN BK BX	1895410000	C.143
SLDV-THR 5.00/40/180F 3.2SN BK BX	1881490000	C.143
SLDV-THR 5.00/40/180FLF 1.5SN BK BX	1895640000	C.143
SLDV-THR 5.00/40/180FLF 3.2SN BK BX	1883310000	C.143
SLDV-THR 5.00/40/180G 1.5SN BK BX	1895180000	C.142

Type	Order No.	Page
SLDV-THR 5.00/40/180G 3.2SN BK BX	1862400000	C.142
SLDV-THR 5.00/40/180GLF 1.5SN BK BX	1911930000	C.143
SLDV-THR 5.00/40/180GLF 3.2SN BK BX	1911690000	C.143
SLDV-THR 5.00/42/180F 1.5SN BK BX	1895420000	C.143
SLDV-THR 5.00/42/180F 3.2SN BK BX	1883050000	C.143
SLDV-THR 5.00/42/180FLF 1.5SN BK BX	1895650000	C.143
SLDV-THR 5.00/42/180FLF 3.2SN BK BX	1883320000	C.143
SLDV-THR 5.00/42/180G 1.5SN BK BX	1895190000	C.142
SLDV-THR 5.00/42/180G 3.2SN BK BX	1882840000	C.142
SLDV-THR 5.00/42/180GLF 1.5SN BK BX	1911940000	C.143
SLDV-THR 5.00/42/180GLF 3.2SN BK BX	1911710000	C.143
SLDV-THR 5.00/44/180F 1.5SN BK BX	1895430000	C.143
SLDV-THR 5.00/44/180F 3.2SN BK BX	1883060000	C.143
SLDV-THR 5.00/44/180FLF 1.5SN BK BX	1895660000	C.143
SLDV-THR 5.00/44/180FLF 3.2SN BK BX	1883330000	C.143
SLDV-THR 5.00/44/180G 1.5SN BK BX	1895200000	C.142
SLDV-THR 5.00/44/180G 3.2SN BK BX	1882850000	C.142
SLDV-THR 5.00/44/180GLF 1.5SN BK BX	1911950000	C.143
SLDV-THR 5.00/44/180GLF 3.2SN BK BX	1911720000	C.143
SLDV-THR 5.00/46/180F 1.5SN BK BX	1895440000	C.143
SLDV-THR 5.00/46/180F 3.2SN BK BX	1883070000	C.143
SLDV-THR 5.00/46/180FLF 1.5SN BK BX	1895670000	C.143
SLDV-THR 5.00/46/180FLF 3.2SN BK BX	1883340000	C.143
SLDV-THR 5.00/46/180G 1.5SN BK BX	1895210000	C.142
SLDV-THR 5.00/46/180G 3.2SN BK BX	1882860000	C.142
SLDV-THR 5.00/46/180GLF 1.5SN BK BX	1911960000	C.143
SLDV-THR 5.00/46/180GLF 3.2SN BK BX	1911730000	C.143
SLDV-THR 5.00/48/180F 1.5SN BK BX	1895450000	C.143
SLDV-THR 5.00/48/180F 3.2SN BK BX	1883080000	C.143
SLDV-THR 5.00/48/180FLF 1.5SN BK BX	1895680000	C.143
SLDV-THR 5.00/48/180FLF 3.2SN BK BX	1883350000	C.143
SLDV-THR 5.00/48/180G 1.5SN BK BX	1895220000	C.142
SLDV-THR 5.00/48/180G 3.2SN BK BX	1882870000	C.142
SLDV-THR 5.00/48/180GLF 1.5SN BK BX	1911970000	C.143
SLDV-THR 5.00/48/180GLF 3.2SN BK BX	1911740000	C.143
SLDV-THR 5.08/04/180F 1.5SN BK BX	1828890000	C.186
SLDV-THR 5.08/04/180F 3.2SN BK BX	1828770000	C.186
SLDV-THR 5.08/04/180FLF 1.5SN BK BX	1829130000	C.187
SLDV-THR 5.08/04/180FLF 3.2SN BK BX	1829010000	C.187
SLDV-THR 5.08/06/180F 1.5SN BK BX	1828900000	C.186
SLDV-THR 5.08/06/180F 3.2SN BK BX	1828780000	C.186
SLDV-THR 5.08/06/180FLF 1.5SN BK BX	1829140000	C.187
SLDV-THR 5.08/06/180FLF 3.2SN BK BX	1829020000	C.187
SLDV-THR 5.08/08/180F 1.5SN BK BX	1828910000	C.186
SLDV-THR 5.08/08/180F 3.2SN BK BX	1828790000	C.186
SLDV-THR 5.08/08/180FLF 1.5SN BK BX	1829150000	C.187
SLDV-THR 5.08/08/180FLF 3.2SN BK BX	1829030000	C.187
SLDV-THR 5.08/10/180F 1.5SN BK BX	1828920000	C.186
SLDV-THR 5.08/10/180F 3.2SN BK BX	1828800000	C.186
SLDV-THR 5.08/10/180FLF 1.5SN BK BX	1829160000	C.187
SLDV-THR 5.08/10/180FLF 3.2SN BK BX	1829040000	C.187
SLDV-THR 5.08/12/180F 1.5SN BK BX	1828930000	C.186
SLDV-THR 5.08/12/180F 3.2SN BK BX	1828810000	C.186
SLDV-THR 5.08/12/180FLF 1.5SN BK BX	1829170000	C.187
SLDV-THR 5.08/12/180FLF 3.2SN BK BX	1829050000	C.187
SLDV-THR 5.08/14/180F 1.5SN BK BX	1828940000	C.186
SLDV-THR 5.08/14/180F 3.2SN BK BX	1828820000	C.186
SLDV-THR 5.08/14/180FLF 1.5SN BK BX	1829180000	C.187
SLDV-THR 5.08/14/180FLF 3.2SN BK BX	1829060000	C.187
SLDV-THR 5.08/16/180F 1.5SN BK BX	1828950000	C.186
SLDV-THR 5.08/16/180F 3.2SN BK BX	1828830000	C.186
SLDV-THR 5.08/16/180FLF 1.5SN BK BX	1829190000	C.187
SLDV-THR 5.08/16/180FLF 3.2SN BK BX	1829070000	C.187
SLDV-THR 5.08/18/180F 1.5SN BK BX	1828960000	C.186
SLDV-THR 5.08/18/180F 3.2SN BK BX	1828840000	C.186
SLDV-THR 5.08/18/180FLF 1.5SN BK BX	1829200000	C.187
SLDV-THR 5.08/18/180FLF 3.2SN BK BX	1829080000	C.187
SLDV-THR 5.08/20/180F 1.5SN BK BX	1828970000	C.186
SLDV-THR 5.08/20/180F 3.2SN BK BX	1828850000	C.186
SLDV-THR 5.08/20/180FLF 1.5SN BK BX	1829210000	C.187
SLDV-THR 5.08/20/180FLF 3.2SN BK BX	1829090000	C.187
SLDV-THR 5.08/22/180F 1.5SN BK BX	1828980000	C.186
SLDV-THR 5.08/22/180F 3.2SN BK BX	1828860000	C.186
SLDV-THR 5.08/22/180FLF 1.5SN BK BX	1829220000	C.187
SLDV-THR 5.08/22/180FLF 3.2SN BK BX	1829100000	C.187
SLDV-THR 5.08/24/180F 1.5SN BK BX	1828990000	C.186
SLDV-THR 5.08/24/180F 3.2SN BK BX	1828870000	C.186
SLDV-THR 5.08/24/180FLF 1.5SN BK BX	1829230000	C.187
SLDV-THR 5.08/24/180FLF 3.2SN BK BX	1829110000	C.187
SLDV-THR 5.08/26/180F 1.5SN BK BX	1829000000	C.186
SLDV-THR 5.08/26/180F 3.2SN BK BX	1828880000	C.186
SLDV-THR 5.08/26/180FLF 1.5SN BK BX	1829240000	C.187
SLDV-THR 5.08/26/180FLF 3.2SN BK BX	1829120000	C.187
SLDV-THR 5.08/28/180F 1.5SN BK BX	1881310000	C.186
SLDV-THR 5.08/28/180F 3.2SN BK BX	1889340000	C.186
SLDV-THR 5.08/28/180FLF 1.5SN BK BX	1881480000	C.187
SLDV-THR 5.08/28/180FLF 3.2SN BK BX	1889200000	C.187
SLDV-THR 5.08/30/180F 1.5SN BK BX	1881320000	C.186
SLDV-THR 5.08/30/180F 3.2SN BK BX	1889350000	C.186
SLDV-THR 5.08/30/180FLF 1.5SN BK BX	1881500000	C.187
SLDV-THR 5.08/30/180FLF 3.2SN BK BX	1889210000	C.187
SLDV-THR 5.08/32/180F 1.5SN BK BX	1881330000	C.186
SLDV-THR 5.08/32/180F 3.2SN BK BX	1866330000	C.186
SLDV-THR 5.08/32/180FLF 1.5SN BK BX	1881510000	C.187
SLDV-THR 5.08/32/180FLF 3.2SN BK BX	1866320000	C.187
SLDV-THR 5.08/34/180F 1.5SN BK BX	1881350000	C.186
SLDV-THR 5.08/34/180F 3.2SN BK BX	1889360000	C.186
SLDV-THR 5.08/34/180FLF 1.5SN BK BX	1881520000	C.187
SLDV-THR 5.08/34/180FLF 3.2SN BK BX	1889220000	C.187

Type	Order No.	Page
SLDV-THR 5.08/36/180F 1.5SN BK BX	1881360000	C.186
SLDV-THR 5.08/36/180F 3.2SN BK BX	1889370000	C.186
SLDV-THR 5.08/36/180FLF 1.5SN BK BX	1881530000	C.187
SLDV-THR 5.08/36/180FLF 3.2SN BK BX	1889270000	C.187
SLDV-THR 5.08/38/180F 1.5SN BK BX	1881380000	C.186
SLDV-THR 5.08/38/180F 3.2SN BK BX	1889380000	C.186
SLDV-THR 5.08/38/180FLF 1.5SN BK BX	1881540000	C.187
SLDV-THR 5.08/38/180FLF 3.2SN BK BX	1889280000	C.187
SLDV-THR 5.08/40/180F 1.5SN BK BX	1881410000	C.186
SLDV-THR 5.08/40/180F 3.2SN BK BX	1889390000	C.186
SLDV-THR 5.08/40/180FLF 1.5SN BK BX	1881550000	C.187
SLDV-THR 5.08/40/180FLF 3.2SN BK BX	1889290000	C.187
SLDV-THR 5.08/42/180F 1.5SN BK BX	1881430000	C.186
SLDV-THR 5.08/42/180F 3.2SN BK BX	1889400000	C.186
SLDV-THR 5.08/42/180FLF 1.5SN BK BX	1881560000	C.187
SLDV-THR 5.08/42/180FLF 3.2SN BK BX	1889300000	C.187
SLDV-THR 5.08/44/180F 1.5SN BK BX	1881440000	C.186
SLDV-THR 5.08/44/180F 3.2SN BK BX	1889410000	C.186
SLDV-THR 5.08/44/180FLF 1.5SN BK BX	1881570000	C.187
SLDV-THR 5.08/44/180FLF 3.2SN BK BX	1889310000	C.187
SLDV-THR 5.08/46/180F 1.5SN BK BX	1881450000	C.186
SLDV-THR 5.08/46/180F 3.2SN BK BX	1889420000	C.186
SLDV-THR 5.08/46/180FLF 1.5SN BK BX	1881580000	C.187
SLDV-THR 5.08/46/180FLF 3.2SN BK BX	1889320000	C.187
SLDV-THR 5.08/48/180F 1.5SN BK BX	1881460000	C.186
SLDV-THR 5.08/48/180F 3.2SN BK BX	1889430000	C.186
SLDV-THR 5.08/48/180FLF 1.5SN BK BX	1881590000	C.187
SLDV-THR 5.08/48/180FLF 3.2SN BK BX	1889330000	C.187
SLF 5.08/02/180 SN BK BX	1335560000	C.216
SLF 5.08/02/180 SN OR BX	1335330000	C.216
SLF 5.08/02/180B SN BK BX	1335770000	C.217
SLF 5.08/02/180B SN OR BX	1335440000	C.217
SLF 5.08/02/180DF SN OR BX	1353580000	C.208
SLF 5.08/02/180F SN BK BX	1336170000	C.217
SLF 5.08/02/180F SN OR BX	1335590000	C.217
SLF 5.08/02/180FI SN BK BX	1336040000	C.217
SLF 5.08/02/180FI SN OR BX	1336400000	C.217
SLF 5.08/03/180 SN BK BX	1335570000	C.216
SLF 5.08/03/180 SN OR BX	1335340000	C.216
SLF 5.08/03/180B SN BK BX	1335790000	C.217
SLF 5.08/03/180B SN OR BX	1335450000	C.217
SLF 5.08/03/180DF SN OR BX	1353590000	C.208
SLF 5.08/03/180F SN BK BX	1336180000	C.217
SLF 5.08/03/180F SN OR BX	1335620000	C.217
SLF 5.08/03/180FI SN BK BX	1336050000	C.217
SLF 5.08/03/180FI SN OR BX	1336410000	C.217
SLF 5.08/04/180 SN BK BX	1335580000	C.216
SLF 5.08/04/180 SN OR BX	1335350000	C.216
SLF 5.08/04/180B SN BK BX	1335810000	C.217
SLF 5.08/04/180B SN OR BX	1335460000	C.217
SLF 5.08/04/180DF SN OR BX	1353600000	C.208
SLF 5.08/04/180F SN BK BX	1336190000	C.217
SLF 5.08/04/180F SN OR BX	1335640000	C.217
SLF 5.08/04/180FI SN BK BX	1336070000	C.217
SLF 5.08/04/180FI SN OR BX	1336420000	C.217
SLF 5.08/05/180 SN BK BX	1335610000	C.216
SLF 5.08/05/180 SN OR BX	1335360000	C.216
SLF 5.08/05/180B SN BK BX	1335830000	C.217
SLF 5.08/05/180B SN OR BX	1335470000	C.217
SLF 5.08/05/180DF SN OR BX	1353620000	C.208
SLF 5.08/05/180F SN BK BX	1336200000	C.217
SLF 5.08/05/180F SN OR BX	1335660000	C.217
SLF 5.08/05/180FI SN BK BX	1336080000	C.217
SLF 5.08/05/180FI SN OR BX	1336430000	C.217
SLF 5.08/06/180 SN BK BX	1335630000	C.216
SLF 5.08/06/180 SN OR BX	1335370000	C.216
SLF 5.08/06/180B SN BK BX	1335850000	C.217
SLF 5.08/06/180B SN OR BX	1335480000	C.217
SLF 5.08/06/180DF SN OR BX	1353630000	C.208
SLF 5.08/06/180F SN BK BX	1336210000	C.217
SLF 5.08/06/180F SN OR BX	1335680000	C.217
SLF 5.08/06/180FI SN BK BX	1336090000	C.217
SLF 5.08/06/180FI SN OR BX	1336440000	C.217
SLF 5.08/07/180 SN BK BX	1335650000	C.216
SLF 5.08/07/180 SN OR BX	1335380000	C.216
SLF 5.08/07/180B SN BK BX	1335880000	C.217
SLF 5.08/07/180B SN OR BX	1335490000	C.217
SLF 5.08/07/180DF SN OR BX	1353640000	C.208
SLF 5.08/07/180F SN BK BX	1336220000	C.217
SLF 5.08/07/180F SN OR BX	1335700000	C.217
SLF 5.08/07/180FI SN BK BX	1336100000	C.217
SLF 5.08/07/180FI SN OR BX	1336450000	C.217
SLF 5.08/08/180 SN BK BX	1335670000	C.216
SLF 5.08/08/180 SN OR BX	1335390000	C.216
SLF 5.08/08/180B SN BK BX	1335900000	C.217
SLF 5.08/08/180B SN OR BX	1335510000	C.217
SLF 5.08/08/180DF SN OR BX	1353650000	C.208
SLF 5.08/08/180F SN BK BX	1336230000	C.217
SLF 5.08/08/180F SN OR BX	1335720000	C.217
SLF 5.08/08/180FI SN BK BX	1336110000	C.217
SLF 5.08/08/180FI SN OR BX	1336470000	C.217
SLF 5.08/09/180 SN BK BX	1335690000	C.216
SLF 5.08/09/180 SN OR BX	1335400000	C.216
SLF 5.08/09/180B SN BK BX	1335920000	C.217
SLF 5.08/09/180B SN OR BX	1335520000	C.217
SLF 5.08/09/180DF SN OR BX	1353670000	C.208
SLF 5.08/09/180F SN BK BX	1336240000	C.217
SLF 5.08/09/180F SN OR BX	1335740000	C.217
SLF 5.08/09/180FI SN BK BX	1336120000	C.217

Type	Order No.	Page
SLF 5.08/09/180FI SN OR BX	1336480000	C.217
SLF 5.08/10/180 SN BK BX	1335710000	C.216
SLF 5.08/10/180 SN OR BX	1335410000	C.216
SLF 5.08/10/180B SN BK BX	1335940000	C.217
SLF 5.08/10/180B SN OR BX	1335530000	C.217
SLF 5.08/10/180DF SN OR BX	1353680000	C.208
SLF 5.08/10/180F SN BK BX	1336250000	C.217
SLF 5.08/10/180F SN OR BX	1335760000	C.217
SLF 5.08/10/180FI SN BK BX	1336130000	C.217
SLF 5.08/10/180FI SN OR BX	1336490000	C.217
SLF 5.08/11/180 SN BK BX	1335730000	C.216
SLF 5.08/11/180 SN OR BX	1335420000	C.216
SLF 5.08/11/180B SN BK BX	1335970000	C.217
SLF 5.08/11/180B SN OR BX	1335540000	C.217
SLF 5.08/11/180F SN BK BX	1336270000	C.217
SLF 5.08/11/180F SN OR BX	1335780000	C.217
SLF 5.08/11/180FI SN BK BX	1336140000	C.217
SLF 5.08/11/180FI SN OR BX	1336500000	C.217
SLF 5.08/12/180 SN BK BX	1335750000	C.216
SLF 5.08/12/180 SN OR BX	1335430000	C.216
SLF 5.08/12/180B SN BK BX	1335990000	C.217
SLF 5.08/12/180B SN OR BX	1335550000	C.217
SLF 5.08/12/180F SN BK BX	1336280000	C.217
SLF 5.08/12/180F SN OR BX	1335800000	C.217
SLF 5.08/12/180FI SN BK BX	1336150000	C.217
SLF 5.08/12/180FI SN OR BX	1336510000	C.217
SLF 7.62HP/02/180F SN BK BX	1043670000	F.15
SLF 7.62HP/02/180G SN BK BX	1043590000	F.14
SLF 7.62HP/02/180LR SN BK BX	1043750000	F.15
SLF 7.62HP/03/180F SN BK BX	1043680000	F.15
SLF 7.62HP/03/180G SN BK BX	1043600000	F.14
SLF 7.62HP/03/180LR SN BK BX	1043760000	F.15
SLF 7.62HP/04/180F SN BK BX	1043690000	F.15
SLF 7.62HP/04/180G SN BK BX	1043610000	F.14
SLF 7.62HP/04/180LR SN BK BX	1043770000	F.15
SLF 7.62HP/05/180F SN BK BX	1043700000	F.15
SLF 7.62HP/05/180G SN BK BX	1043620000	F.14
SLF 7.62HP/05/180LR SN BK BX	1043780000	F.15
SLH-THR5.08/16/180F 3.2SN BK BX	1190600000	C.188
SLS 5.08/02/180B SN OR BX	1627240000	C.210
SLS 5.08/02/180DF SN OR BX	1353470000	C.204
SLS 5.08/02/180F SN OR BX	1846360000	C.211
SLS 5.08/02/180FI SN OR BX	1846210000	C.211
SLS 5.08/03/180B SN OR BX	1627250000	C.210
SLS 5.08/03/180DF SN OR BX	1353480000	C.204
SLS 5.08/03/180F SN OR BX	1846370000	C.211
SLS 5.08/03/180FI SN OR BX	1846220000	C.211
SLS 5.08/04/180B SN OR BX	1627260000	C.210
SLS 5.08/04/180DF SN OR BX	1353490000	C.204
SLS 5.08/04/180F SN OR BX	1846380000	C.211
SLS 5.08/04/180FI SN OR BX	1846230000	C.211
SLS 5.08/04/180TB KF SN OR BX	1846130000	C.213
SLS 5.08/04/180TB RF15 SN OR BX	1846050000	C.212
SLS 5.08/05/180B SN OR BX	1627270000	C.210
SLS 5.08/05/180DF SN OR BX	1353500000	C.204
SLS 5.08/05/180F SN OR BX	1846390000	C.211
SLS 5.08/05/180FI SN OR BX	1846240000	C.211
SLS 5.08/06/180B SN OR BX	1627280000	C.210
SLS 5.08/06/180DF SN OR BX	1353520000	C.204
SLS 5.08/06/180F SN OR BX	1846400000	C.211
SLS 5.08/06/180FI SN OR BX	1846250000	C.211
SLS 5.08/06/180TB KF SN OR BX	1846140000	C.213
SLS 5.08/06/180TB RF15 SN OR BX	1846060000	C.212
SLS 5.08/07/180B SN OR BX	1627290000	C.210
SLS 5.08/07/180DF SN OR BX	1353530000	C.204
SLS 5.08/07/180F SN OR BX	1846410000	C.211
SLS 5.08/07/180FI SN OR BX	1846260000	C.211
SLS 5.08/08/180B SN OR BX	1627300000	C.210
SLS 5.08/08/180DF SN OR BX	1353540000	C.204
SLS 5.08/08/180F SN OR BX	1846420000	C.211
SLS 5.08/08/180FI SN OR BX	1846270000	C.211
SLS 5.08/08/180TB KF SN OR BX	1846150000	C.213
SLS 5.08/08/180TB RF15 SN OR BX	1846070000	C.212
SLS 5.08/09/180B SN OR BX	1627310000	C.210
SLS 5.08/09/180DF SN OR BX	1353550000	C.204
SLS 5.08/09/180F SN OR BX	1846430000	C.211
SLS 5.08/09/180FI SN OR BX	1846280000	C.211
SLS 5.08/10/180B SN OR BX	1627320000	C.210
SLS 5.08/10/180DF SN OR BX	1353570000	C.204
SLS 5.08/10/180F SN OR BX	1846440000	C.211
SLS 5.08/10/180FI SN OR BX	1846290000	C.211
SLS 5.08/10/180TB KF SN OR BX	1846160000	C.213
SLS 5.08/10/180TB RF15 SN OR BX	1846080000	C.212
SLS 5.08/11/180B SN OR BX	1627330000	C.210
SLS 5.08/11/180F SN OR BX	1846450000	C.211
SLS 5.08/11/180FI SN OR BX	1846300000	C.211
SLS 5.08/12/180B SN OR BX	1627340000	C.210
SLS 5.08/12/180F SN OR BX	1846460000	C.211
SLS 5.08/12/180FI SN OR BX	1846310000	C.211
SLS 5.08/12/180TB KF SN OR BX	1846170000	C.213
SLS 5.08/12/180TB RF15 SN OR BX	1846090000	C.212
SLS 5.08/13/180B SN OR BX	1627350000	C.210
SLS 5.08/13/180F SN OR BX	1846470000	C.211
SLS 5.08/13/180FI SN OR BX	1846320000	C.211
SLS 5.08/14/180B SN OR BX	1627360000	C.210
SLS 5.08/14/180F SN OR BX	1846480000	C.211
SLS 5.08/14/180FI SN OR BX	1846330000	C.211
SLS 5.08/15/180B SN OR BX	1627370000	C.210
SLS 5.08/15/180F SN OR BX	1846490000	C.211

Type	Order No.	Page
SLS 5.08/15/180FI SN OR BX	1846340000	C.211
SLS 5.08/16/180B SN OR BX	1627380000	C.210
SLS 5.08/16/180F SN OR BX	1846500000	C.211
SLS 5.08/16/180FI SN OR BX	1846350000	C.211
SLS 5.08/16/180TB KF SN OR BX	1846180000	C.213
SLS 5.08/16/180TB RF15 SN OR BX	1846100000	C.212
SLS 5.08/17/180B SN OR BX	1645150000	C.210
SLS 5.08/18/180B SN OR BX	1645160000	C.210
SLS 5.08/19/180B SN OR BX	1645170000	C.210
SLS 5.08/20/180B SN OR BX	1645180000	C.210
SLS 5.08/20/180TB KF SN OR BX	1846190000	C.213
SLS 5.08/20/180TB RF15 SN OR BX	1846110000	C.212
SLS 5.08/21/180B SN OR BX	1645190000	C.210
SLS 5.08/22/180B SN OR BX	1645200000	C.210
SLS 5.08/23/180B SN OR BX	1645210000	C.210
SLS 5.08/24/180B SN OR BX	1645220000	C.210
SLS 5.08/24/180TB KF SN OR BX	1846200000	C.213
SLS 5.08/24/180TB RF15 SN OR BX	1846120000	C.212
SLT 5.08/02/180B SN OR BX	1611710000	C.214
SLT 5.08/02/180DF SN OR BX	1353350000	C.206
SLT 5.08/03/180B SN OR BX	1611720000	C.214
SLT 5.08/03/180DF SN OR BX	1353370000	C.206
SLT 5.08/04/180B SN OR BX	1611730000	C.214
SLT 5.08/04/180DF SN OR BX	1353380000	C.206
SLT 5.08/05/180B SN OR BX	1611740000	C.214
SLT 5.08/05/180DF SN OR BX	1353390000	C.206
SLT 5.08/06/180B SN OR BX	1611750000	C.214
SLT 5.08/06/180DF SN OR BX	1353400000	C.206
SLT 5.08/07/180B SN OR BX	1611760000	C.214
SLT 5.08/07/180DF SN OR BX	1353420000	C.206
SLT 5.08/08/180B SN OR BX	1611770000	C.214
SLT 5.08/08/180DF SN OR BX	1353430000	C.206
SLT 5.08/09/180B SN OR BX	1611780000	C.214
SLT 5.08/09/180DF SN OR BX	1353440000	C.206
SLT 5.08/10/180B SN OR BX	1611790000	C.214
SLT 5.08/10/180DF SN OR BX	1353450000	C.206
SLT 5.08/11/180B SN OR BX	1611800000	C.214
SLT 5.08/12/180B SN OR BX	1611810000	C.214
SLT 5.08/13/180B SN OR BX	1611820000	C.214
SLT 5.08/14/180B SN OR BX	1611830000	C.214
SLT 5.08/15/180B SN OR BX	1611840000	C.214
SLT 5.08/16/180B SN OR BX	1611850000	C.214
SLZ 7.62HP/02/180F SN BK BX	1043430000	F.13
SLZ 7.62HP/02/180G SN BK BX	1043350000	F.12
SLZ 7.62HP/02/180LR SN BK BX	1043510000	F.13
SLZ 7.62HP/03/180F SN BK BX	1043440000	F.13
SLZ 7.62HP/03/180G SN BK BX	1043360000	F.12
SLZ 7.62HP/03/180LR SN BK BX	1043520000	F.13
SLZ 7.62HP/04/180F SN BK BX	1043450000	F.13
SLZ 7.62HP/04/180G SN BK BX	1043370000	F.12
SLZ 7.62HP/04/180LR SN BK BX	1043530000	F.13
SLZ 7.62HP/05/180F SN BK BX	1043460000	F.13
SLZ 7.62HP/05/180G SN BK BX	1043380000	F.12
SLZ 7.62HP/05/180LR SN BK BX	1043540000	F.13
SMSE 1 MSD ZB	4060540000	I.38
SMSE FE MCZ 1.5/PE	1003280000	I.39
SMSE FE MSA	2279350000	I.38
SMSE KU FE MCZ 1.5	2224390000	I.39
SMSE LN FE MCZ 1.5	2224380000	I.39
SMSE MSA ZB	4286620000	I.38
SMSE2 ZF MSD	2277000000	I.38
SR-SMD 4.50/05/90 AU BK BX	1155840000	I.34
SR-SMD 4.50/05/90LF 1.5AU BK BX	1155890000	I.35
SR-SMD 4.50/05/90LFM 3.2AU BK BX	1155870000	I.35
SU 10.16HP/02/180F 3.5AG BK BX	1813650000	F.83
SU 10.16HP/02/180G 3.5AG BK BX	1813410000	F.82
SU 10.16HP/02/180SF 3.5AG BK BX	1850880000	F.83
SU 10.16HP/02/270F 3.5AG BK BX	1813730000	F.85
SU 10.16HP/02/270G 3.5AG BK BX	1813490000	F.84
SU 10.16HP/02/270SF 3.5AG BK BX	1851120000	F.85
SU 10.16HP/02/90F 3.5AG BK BX	1813570000	F.81
SU 10.16HP/02/90G 3.5AG BK BX	1813330000	F.80
SU 10.16HP/02/90SF 3.5AG BK BX	1851040000	F.81
SU 10.16HP/03/180F 3.5AG BK BX	1813660000	F.83
SU 10.16HP/03/180G 3.5AG BK BX	1813420000	F.82
SU 10.16HP/03/180SF 3.5AG BK BX	1850890000	F.83
SU 10.16HP/03/270F 3.5AG BK BX	1813740000	F.85
SU 10.16HP/03/270G 3.5AG BK BX	1813500000	F.84
SU 10.16HP/03/270SF 3.5AG BK BX	1851130000	F.85
SU 10.16HP/03/90F 3.5AG BK BX	1813580000	F.81
SU 10.16HP/03/90G 3.5AG BK BX	1813340000	F.80
SU 10.16HP/03/90SF 3.5AG BK BX	1851050000	F.81
SU 10.16HP/04/180F 3.5AG BK BX	1813670000	F.83
SU 10.16HP/04/180G 3.5AG BK BX	1813430000	F.82
SU 10.16HP/04/180SF 3.5AG BK BX	1850900000	F.83
SU 10.16HP/04/270F 3.5AG BK BX	1813750000	F.85
SU 10.16HP/04/270G 3.5AG BK BX	1813510000	F.84
SU 10.16HP/04/270SF 3.5AG BK BX	1851140000	F.85
SU 10.16HP/04/90F 3.5AG BK BX	1813590000	F.81
SU 10.16HP/04/90G 3.5AG BK BX	1813350000	F.80
SU 10.16HP/04/90SF 3.5AG BK BX	1851060000	F.81
SU 10.16HP/05/180F 3.5AG BK BX	1813680000	F.83
SU 10.16HP/05/180G 3.5AG BK BX	1813440000	F.82
SU 10.16HP/05/180SF 3.5AG BK BX	1850910000	F.83
SU 10.16HP/05/270F 3.5AG BK BX	1813760000	F.85
SU 10.16HP/05/270G 3.5AG BK BX	1813520000	F.84
SU 10.16HP/05/270SF 3.5AG BK BX	1851150000	F.85
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SU 10.16HP/05/90G 3.5AG BK BX	1813360000	F.80
SU 10.16HP/05/90SF 3.5AG BK BX	1851070000	F.81
SU 10.16HP/06/180F 3.5AG BK BX	1813690000	F.83
SU 10.16HP/06/180G 3.5AG BK BX	1813450000	F.82
SU 10.16HP/06/180SF 3.5AG BK BX	1850920000	F.83
SU 10.16HP/06/270F 3.5AG BK BX	1813770000	F.85
SU 10.16HP/06/270G 3.5AG BK BX	1813530000	F.84
SU 10.16HP/06/270SF 3.5AG BK BX	1851160000	F.85
SU 10.16HP/06/90F 3.5AG BK BX	1813610000	F.81
SU 10.16HP/06/90G 3.5AG BK BX	1813370000	F.80
SU 10.16HP/06/90SF 3.5AG BK BX	1851080000	F.81
SU 10.16HP/07/180F 3.5AG BK BX	1813700000	F.83
SU 10.16HP/07/180G 3.5AG BK BX	1813460000	F.82
SU 10.16HP/07/180SF 3.5AG BK BX	1850930000	F.83
SU 10.16HP/07/270F 3.5AG BK BX	1813780000	F.85
SU 10.16HP/07/270G 3.5AG BK BX	1813540000	F.84
SU 10.16HP/07/270SF 3.5AG BK BX	1851170000	F.85
SU 10.16HP/07/90F 3.5AG BK BX	1813620000	F.81
SU 10.16HP/07/90G 3.5AG BK BX	1813380000	F.80
SU 10.16HP/07/90SF 3.5AG BK BX	1851090000	F.81
SU 10.16HP/08/180F 3.5AG BK BX	1813710000	F.83
SU 10.16HP/08/180G 3.5AG BK BX	1813470000	F.82
SU 10.16HP/08/180SF 3.5AG BK BX	1850940000	F.83
SU 10.16HP/08/270F 3.5AG BK BX	1813790000	F.85
SU 10.16HP/08/270G 3.5AG BK BX	1813550000	F.84
SU 10.16HP/08/270SF 3.5AG BK BX	1851180000	F.85
SU 10.16HP/08/90F 3.5AG BK BX	1813630000	F.81
SU 10.16HP/08/90G 3.5AG BK BX	1813390000	F.80
SU 10.16HP/08/90SF 3.5AG BK BX	1851100000	F.81
SU 10.16HP/09/180F 3.5AG BK BX	1813720000	F.83
SU 10.16HP/09/180G 3.5AG BK BX	1813480000	F.82
SU 10.16HP/09/180SF 3.5AG BK BX	1850950000	F.83
SU 10.16HP/09/270F 3.5AG BK BX	1813800000	F.85
SU 10.16HP/09/270G 3.5AG BK BX	1813560000	F.84
SU 10.16HP/09/270SF 3.5AG BK BX	1851190000	F.85
SU 10.16HP/09/90F 3.5AG BK BX	1813640000	F.81
SU 10.16HP/09/90G 3.5AG BK BX	1813400000	F.80
SU 10.16HP/09/90SF 3.5AG BK BX	1851110000	F.81
SU 10.16IT/02/270MF2 3.5AG BK BX SO	1157310000	F.108
SU 10.16IT/02/90MF2 3.5AG BK BX SO	1156650000	F.106
SU 10.16IT/03/270MF2 3.5AG BK BX	1157320000	F.108
SU 10.16IT/03/270MF3 3.5AG BK BX	1157330000	F.109
SU 10.16IT/03/90MF2 3.5AG BK BX	1156670000	F.106
SU 10.16IT/03/90MF3 3.5AG BK BX	1156680000	F.107
SU 10.16IT/04/270MF2 3.5AG BK BX	1157340000	F.108
SU 10.16IT/04/270MF4 3.5AG BK BX	1157350000	F.109
SU 10.16IT/04/90MF2 3.5AG BK BX	1156690000	F.106
SU 10.16IT/04/90MF4 3.5AG BK BX	1156700000	F.107
SUZ 10.16HP/02/180G AG BK BX	1947480000	F.86
SUZ 10.16HP/03/180G AG BK BX	1947490000	F.86
SUZ 10.16HP/04/180G AG BK BX	1947500000	F.86
SUZ 10.16HP/05/180G AG BK BX	1947510000	F.86
SUZ 10.16HP/06/180G AG BK BX	1966920000	F.86
SUZ 10.16HP/07/180G AG BK BX	1966930000	F.86
SUZ 10.16HP/08/180G AG BK BX	1962400000	F.86
SUZ 10.16HP/09/180G AG BK BX	1966910000	F.86
SV 7.62HP/02/180F 3.5SN BK BX	1930710000	F.31
SV 7.62HP/02/180G 3.5SN BK BX	1930600000	F.30
SV 7.62HP/02/180MF 3.5SN BK BX	1048350000	F.32
SV 7.62HP/02/180SF 3.5SN BK BX	1930820000	F.31
SV 7.62HP/02/270F 3.5SN BK BX	1931370000	F.35
SV 7.62HP/02/270G 3.5SN BK BX	1931260000	F.34
SV 7.62HP/02/270G SC/04R SN BK BX	1090770000	F.118
SV 7.62HP/02/270G SC/06R SN BK BX	1090850000	F.118
SV 7.62HP/02/270G SC/08R SN BK BX	1156920000	F.118
SV 7.62HP/02/270MF 3.5SN BK BX	1048370000	F.36
SV 7.62HP/02/270MF SC/04R SN BK BX	1089260000	F.119
SV 7.62HP/02/270MF SC/06R SN BK BX	1089280000	F.119
SV 7.62HP/02/270MF SC/08R SN BK BX	1156120000	F.119
SV 7.62HP/02/270MSF SC/04R SN BK BX	1089340000	F.119
SV 7.62HP/02/270MSF SC/06R SN BK BX	1089380000	F.119
SV 7.62HP/02/270MSF SC/08R SN BK BX	1156130000	F.119
SV 7.62HP/02/270SF 3.5SN BK BX	1931480000	F.35
SV 7.62HP/02/90F 3.5SN BK BX	1930380000	F.29
SV 7.62HP/02/90G 3.5SN BK BX	1930270000	F.28
SV 7.62HP/02/90G SC/04R SN BK BX	1089840000	F.116
SV 7.62HP/02/90G SC/06R SN BK BX	1089920000	F.116
SV 7.62HP/02/90G SC/08R SN BK BX	1157040000	F.116
SV 7.62HP/02/90MF 3.5SN BK BX	1048390000	F.29
SV 7.62HP/02/90MF SC/04R SN BK BX	1089370000	F.117
SV 7.62HP/02/90MF SC/06R SN BK BX	1089410000	F.117
SV 7.62HP/02/90MF SC/08R SN BK BX	1156820000	F.117
SV 7.62HP/02/90MSF SC/04R SN BK BX	1089510000	F.117
SV 7.62HP/02/90MSF SC/06R SN BK BX	1089570000	F.117
SV 7.62HP/02/90MSF SC/08R SN BK BX	1156830000	F.117
SV 7.62HP/02/90SF 3.5SN BK BX	1930490000	F.29
SV 7.62HP/03/180F 3.5SN BK BX	1930720000	F.31
SV 7.62HP/03/180G 3.5SN BK BX	1930610000	F.30
SV 7.62HP/03/180MF2 3.5SN BK BX	1048410000	F.32
SV 7.62HP/03/180MF3 3.5SN BK BX	1048420000	F.33
SV 7.62HP/03/180SF 3.5SN BK BX	1930830000	F.31
SV 7.62HP/03/270F 3.5SN BK BX	1931380000	F.35
SV 7.62HP/03/270G 3.5SN BK BX	1931270000	F.34
SV 7.62HP/03/270G SC/04R SN BK BX	1090950000	F.118
SV 7.62HP/03/270G SC/06R SN BK BX	1091010000	F.118
SV 7.62HP/03/270G SC/08R SN BK BX	1156940000	F.118
SV 7.62HP/03/270MF2 3.5SN BK BX	1048450000	F.36
SV 7.62HP/03/270MF2 SC/04R SN BK BX	1156140000	F.119
SV 7.62HP/03/270MF2 SC/06R SN BK BX	1156150000	F.119
SV 7.62HP/03/270MF2 SC/08R SN BK BX	1156170000	F.119
SV 7.62HP/03/270MF3 3.5SN BK BX	1048460000	F.37
SV 7.62HP/03/270MF3 SC/04R SN BK BX	1089440000	F.119
SV 7.62HP/03/270MF3 SC/06R SN BK BX	1089490000	F.119
SV 7.62HP/03/270MF3 SC/08R SN BK BX	1156180000	F.119
SV 7.62HP/03/270MSF2 SC/04R SN BK BX	1156190000	F.119
SV 7.62HP/03/270MSF2 SC/06R SN BK BX	1156200000	F.119
SV 7.62HP/03/270MSF2 SC/08R SN BK BX	1156210000	F.119
SV 7.62HP/03/270MSF3 SC/04R SN BK BX	1089610000	F.119
SV 7.62HP/03/270MSF3 SC/06R SN BK BX	1089670000	F.119
SV 7.62HP/03/270MSF3 SC/08R SN BK BX	1156220000	F.119
SV 7.62HP/03/270SF 3.5SN BK BX	1931490000	F.35
SV 7.62HP/03/90F 3.5SN BK BX	1930390000	F.29
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SV 7.62HP/03/90G SC/04R SN BK BX	1090040000	F.116
SV 7.62HP/03/90G SC/06R SN BK BX	1090120000	F.116
SV 7.62HP/03/90G SC/08R SN BK BX	1157050000	F.116
SV 7.62HP/03/90MF2 3.5SN BK BX	1048490000	F.29
SV 7.62HP/03/90MF2 SC/04R SN BK BX	1156230000	F.117
SV 7.62HP/03/90MF2 SC/06R SN BK BX	1156240000	F.117
SV 7.62HP/03/90MF2 SC/08R SN BK BX	1156840000	F.117
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SV 7.62HP/03/90MF3 SC/04R SN BK BX	1089660000	F.117
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SV 7.62HP/03/90MF3 SC/08R SN BK BX	1156850000	F.117
SV 7.62HP/03/90MSF2 SC/04R SN BK BX	1156250000	F.117
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SV 7.62HP/03/90MSF2 SC/08R SN BK BX	1156870000	F.117
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SV 7.62HP/03/90MSF3 SC/08R SN BK BX	1156880000	F.117
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SV 7.62HP/04/180F 3.5SN BK BX	1930730000	F.31
SV 7.62HP/04/180G 3.5SN BK BX	1930620000	F.30
SV 7.62HP/04/180MF 3.5SN BK BX	1048530000	F.33
SV 7.62HP/04/180SF 3.5SN BK BX	1930840000	F.31
SV 7.62HP/04/270F 3.5SN BK BX	1931390000	F.35
SV 7.62HP/04/270G 3.5SN BK BX	1931280000	F.34
SV 7.62HP/04/270G SC/04R SN BK BX	1091120000	F.118
SV 7.62HP/04/270G SC/06R SN BK BX	1091160000	F.118
SV 7.62HP/04/270G SC/08R SN BK BX	1156970000	F.118
SV 7.62HP/04/270MF 3.5SN BK BX	1048550000	F.37
SV 7.62HP/04/270MF4 SC/04R SN BK BX	1089820000	F.119
SV 7.62HP/04/270MF4 SC/06R SN BK BX	1089910000	F.119
SV 7.62HP/04/270MF4 SC/08R SN BK BX	1156280000	F.119
SV 7.62HP/04/270MSF4 SC/04R SN BK BX	1090060000	F.119
SV 7.62HP/04/270MSF4 SC/06R SN BK BX	1090140000	F.119
SV 7.62HP/04/270MSF4 SC/08R SN BK BX	1156290000	F.119
SV 7.62HP/04/270SF 3.5SN BK BX	1931500000	F.35
SV 7.62HP/04/90F 3.5SN BK BX	1930400000	F.29
SV 7.62HP/04/90G 3.5SN BK BX	1930290000	F.28
SV 7.62HP/04/90G SC/04R SN BK BX	1090280000	F.116
SV 7.62HP/04/90G SC/06R SN BK BX	1090360000	F.116
SV 7.62HP/04/90G SC/08R SN BK BX	1157380000	F.116
SV 7.62HP/04/90MF 3.5SN BK BX	1048570000	F.29
SV 7.62HP/04/90MF4 SC/04R SN BK BX	1090130000	F.117
SV 7.62HP/04/90MF4 SC/06R SN BK BX	1090210000	F.117
SV 7.62HP/04/90MF4 SC/08R SN BK BX	1156890000	F.117
SV 7.62HP/04/90MSF4 SC/04R SN BK BX	1090370000	F.117
SV 7.62HP/04/90MSF4 SC/06R SN BK BX	1090450000	F.117
SV 7.62HP/04/90MSF4 SC/08R SN BK BX	1156900000	F.117
SV 7.62HP/04/90SF 3.5SN BK BX	1930510000	F.29
SV 7.62HP/05/180F 3.5SN BK BX	1930740000	F.31
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SV 7.62HP/05/180MF3 3.5SN BK BX	1048590000	F.33
SV 7.62HP/05/180MF4 3.5SN BK BX	1048600000	F.33
SV 7.62HP/05/180SF 3.5SN BK BX	1930850000	F.31
SV 7.62HP/05/270F 3.5SN BK BX	1931400000	F.35
SV 7.62HP/05/270G 3.5SN BK BX	1931290000	F.34
SV 7.62HP/05/270G SC/04R SN BK BX	1091240000	F.118
SV 7.62HP/05/270G SC/06R SN BK BX	1091260000	F.118
SV 7.62HP/05/270G SC/08R SN BK BX	1156990000	F.118
SV 7.62HP/05/270MF3 3.5SN BK BX	1048640000	F.37
SV 7.62HP/05/270MF3 SC/04R SN BK BX	1156300000	F.119
SV 7.62HP/05/270MF3 SC/06R SN BK BX	1156310000	F.119
SV 7.62HP/05/270MF3 SC/08R SN BK BX	1156320000	F.119
SV 7.62HP/05/270MF4 3.5SN BK BX	1048650000	F.37
SV 7.62HP/05/270MF4 SC/04R SN BK BX	1090300000	F.119
SV 7.62HP/05/270MF4 SC/06R SN BK BX	1090380000	F.119
SV 7.62HP/05/270MF4 SC/08R SN BK BX	1156340000	F.119
SV 7.62HP/05/270MSF3 SC/04R SN BK BX	1156370000	F.119
SV 7.62HP/05/270MSF3 SC/06R SN BK BX	1156390000	F.119
SV 7.62HP/05/270MSF3 SC/08R SN BK BX	1156410000	F.119
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SV 7.62HP/05/270MSF4 SC/06R SN BK BX	1090610000	F.119
SV 7.62HP/05/270MSF4 SC/08R SN BK BX	1156430000	F.119
SV 7.62HP/05/270SF 3.5SN BK BX	1931510000	F.35
SV 7.62HP/05/90F 3.5SN BK BX	1930410000	F.29
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SV 7.62HP/05/90G SC/06R SN BK BX	1090590000	F.116
SV 7.62HP/05/90G SC/08R SN BK BX	1157080000	F.116
SV 7.62HP/05/90MF3 3.5SN BK BX	1048680000	F.29
SV 7.62HP/05/90MF3 SC/04R SN BK BX	1156910000	F.117
SV 7.62HP/05/90MF3 SC/06R SN BK BX	1156930000	F.117
SV 7.62HP/05/90MF3 SC/08R SN BK BX	1156950000	F.117
SV 7.62HP/05/90MF4 3.5SN BK BX	1048690000	F.29
SV 7.62HP/05/90MF4 SC/04R SN BK BX	1090600000	F.117
SV 7.62HP/05/90MF4 SC/06R SN BK BX	1090670000	F.117
SV 7.62HP/05/90MF4 SC/08R SN BK BX	1156980000	F.117

Type	Order No.	Page
SV 7.62HP/05/90MSF3 SC/04R SN BK BX	1157000000	F.117
SV 7.62HP/05/90MSF3 SC/06R SN BK BX	1157010000	F.117
SV 7.62HP/05/90MSF3 SC/08R SN BK BX	1157020000	F.117
SV 7.62HP/05/90MSF4 SC/04R SN BK BX	1090830000	F.117
SV 7.62HP/05/90MSF4 SC/06R SN BK BX	1090900000	F.117
SV 7.62HP/05/90MSF4 SC/08R SN BK BX	1157030000	F.117
SV 7.62HP/05/90SF 3.5SN BK BX	1930520000	F.29
SV 7.62HP/06/180F 3.5SN BK BX	1930750000	F.31
SV 7.62HP/06/180G 3.5SN BK BX	1930640000	F.30
SV 7.62HP/06/180MF 3.5SN BK BX	1048720000	F.33
SV 7.62HP/06/180SF 3.5SN BK BX	1930860000	F.31
SV 7.62HP/06/270F 3.5SN BK BX	1931410000	F.35
SV 7.62HP/06/270G 3.5SN BK BX	1931300000	F.34
SV 7.62HP/06/270MF 3.5SN BK BX	1048740000	F.37
SV 7.62HP/06/270SF 3.5SN BK BX	1931520000	F.35
SV 7.62HP/06/90F 3.5SN BK BX	1930420000	F.29
SV 7.62HP/06/90G 3.5SN BK BX	1930310000	F.28
SV 7.62HP/06/90MF 3.5SN BK BX	1048760000	F.29
SV 7.62HP/06/90SF 3.5SN BK BX	1930530000	F.29
SV 7.62HP/07/180F 3.5SN BK BX	1930760000	F.31
SV 7.62HP/07/180G 3.5SN BK BX	1930650000	F.30
SV 7.62HP/07/180SF 3.5SN BK BX	1930870000	F.31
SV 7.62HP/07/270F 3.5SN BK BX	1931420000	F.35
SV 7.62HP/07/270G 3.5SN BK BX	1931310000	F.34
SV 7.62HP/07/270SF 3.5SN BK BX	1931530000	F.35
SV 7.62HP/07/90F 3.5SN BK BX	1930430000	F.29
SV 7.62HP/07/90G 3.5SN BK BX	1930320000	F.28
SV 7.62HP/07/90SF 3.5SN BK BX	1930540000	F.29
SV 7.62IT/02/270MF2 3.2SN BK BX SO	1156490000	F.102
SV 7.62IT/02/90MF2 3.2SN BK BX SO	1156540000	F.100
SV 7.62IT/03/270MF2 3.2SN BK BX	1156500000	F.102
SV 7.62IT/03/270MF3 3.2SN BK BX	1156510000	F.103
SV 7.62IT/03/90MF2 3.2SN BK BX	1156550000	F.100
SV 7.62IT/03/90MF3 3.2SN BK BX	1156570000	F.101
SV 7.62IT/04/270MF2 3.2SN BK BX	1156520000	F.102
SV 7.62IT/04/270MF4 3.2SN BK BX	1156530000	F.103
SV 7.62IT/04/90MF2 3.2SN BK BX	1156580000	F.100
SV 7.62IT/04/90MF4 3.2SN BK BX	1156590000	F.101
SVF 7.62HP/02/180F SN BK BX	1060900000	F.51
SVF 7.62HP/02/180FI SN BK BX	1124750000	F.52
SVF 7.62HP/02/180G SN BK BX	1060830000	F.50
SVF 7.62HP/02/180MF SN BK BX	1061020000	F.54
SVF 7.62HP/02/180MSF SN BK BX	1061110000	F.56
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SVF 7.62HP/02/180SFI SN BK BX	1124810000	F.53
SVF 7.62HP/03/180F SN BK BX	1060910000	F.51
SVF 7.62HP/03/180FI SN BK BX	1124760000	F.52
SVF 7.62HP/03/180G SN BK BX	1060840000	F.50
SVF 7.62HP/03/180MF2 SN BK BX	1061030000	F.54
SVF 7.62HP/03/180MF3 SN BK BX	1061040000	F.55
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SVF 7.62HP/03/180MSF3 SN BK BX	1061130000	F.57
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SVF 7.62HP/03/180SFI SN BK BX	1124820000	F.53
SVF 7.62HP/04/180F SN BK BX	1060920000	F.51
SVF 7.62HP/04/180FI SN BK BX	1124770000	F.52
SVF 7.62HP/04/180G SN BK BX	1060850000	F.50
SVF 7.62HP/04/180MF SN BK BX	1061050000	F.55
SVF 7.62HP/04/180MSF SN BK BX	1061140000	F.57
SVF 7.62HP/04/180SF SN BK BX	1060980000	F.51
SVF 7.62HP/04/180SFI SN BK BX	1124830000	F.53
SVF 7.62HP/05/180F SN BK BX	1060930000	F.51
SVF 7.62HP/05/180FI SN BK BX	1124780000	F.52
SVF 7.62HP/05/180G SN BK BX	1060870000	F.50
SVF 7.62HP/05/180MF3 SN BK BX	1061070000	F.55
SVF 7.62HP/05/180MF4 SN BK BX	1061080000	F.55
SVF 7.62HP/05/180MSF3 SN BK BX	1061150000	F.57
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SVF 7.62HP/05/180SF SN BK BX	1061000000	F.51
SVF 7.62HP/05/180SFI SN BK BX	1124840000	F.53
SVF 7.62HP/06/180G SN BK BX	1060880000	F.50
SVZ 7.62HP/02/180F SN BK BX	1931740000	F.39
SVZ 7.62HP/02/180FC SN BK BX	1950880000	F.40
SVZ 7.62HP/02/180FI SN BK BX	1932070000	F.42
SVZ 7.62HP/02/180G SN BK BX	1931620000	F.38
SVZ 7.62HP/02/180SF SN BK BX	1931960000	F.39
SVZ 7.62HP/02/180SFC SN BK BX	1950990000	F.41
SVZ 7.62HP/02/180SFI SN BK BX	1932180000	F.43
SVZ 7.62HP/03/180F SN BK BX	1931760000	F.39
SVZ 7.62HP/03/180FC SN BK BX	1950890000	F.40
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SVZ 7.62HP/03/180G SN BK BX	1931630000	F.38
SVZ 7.62HP/03/180SF SN BK BX	1931970000	F.39
SVZ 7.62HP/03/180SFC SN BK BX	1951000000	F.41
SVZ 7.62HP/03/180SFI SN BK BX	1932190000	F.43
SVZ 7.62HP/03/180SH150I SN BK BX	1932330000	F.48
SVZ 7.62HP/03/180SH180 SN BK BX	1932460000	F.44
SVZ 7.62HP/03/180SH180C SN BK BX	1951150000	F.46
SVZ 7.62HP/03/180SH180I SN BK BX	1932500000	F.49
SVZ 7.62HP/03/180SH210I SN BK BX	1932580000	F.49
SVZ 7.62HP/04/180F SN BK BX	1931820000	F.39
SVZ 7.62HP/04/180FC SN BK BX	1950900000	F.40
SVZ 7.62HP/04/180FI SN BK BX	1932090000	F.42
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SVZ 7.62HP/04/180SFC SN BK BX	1951010000	F.41
SVZ 7.62HP/04/180SFI SN BK BX	1932200000	F.43
SVZ 7.62HP/04/180SH150I SN BK BX	1932340000	F.48
SVZ 7.62HP/04/180SH180 SN BK BX	1932470000	F.44
SVZ 7.62HP/04/180SH180C SN BK BX	1951160000	F.46
SVZ 7.62HP/04/180SH180I SN BK BX	1932510000	F.49
SVZ 7.62HP/04/180SH210I SN BK BX	1932590000	F.49
SVZ 7.62HP/05/180F SN BK BX	1931840000	F.39
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SVZ 7.62HP/05/180FI SN BK BX	1932100000	F.42
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SVZ 7.62HP/05/180SF SN BK BX	1931990000	F.39
SVZ 7.62HP/05/180SFC SN BK BX	1951020000	F.41
SVZ 7.62HP/05/180SFI SN BK BX	1932210000	F.43
SVZ 7.62HP/05/180SH150I SN BK BX	1932350000	F.48
SVZ 7.62HP/05/180SH180 SN BK BX	1932480000	F.44
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SVZ 7.62HP/06/180SF SN BK BX	1932000000	F.39
SVZ 7.62HP/06/180SFC SN BK BX	1951030000	F.41
SVZ 7.62HP/06/180SFI SN BK BX	1932220000	F.43
SVZ 7.62HP/06/180SH150I SN BK BX	1932360000	F.48
SVZ 7.62HP/06/180SH180 SN BK BX	1932490000	F.44
SVZ 7.62HP/06/180SH180C SN BK BX	1951180000	F.46
SVZ 7.62HP/06/180SH180I SN BK BX	1932530000	F.49
SVZ 7.62HP/06/180SH210I SN BK BX	1932610000	F.49
SVZ 7.62HP/07/180F SN BK BX	1931860000	F.39
SVZ 7.62HP/07/180FC SN BK BX	1950930000	F.40
SVZ 7.62HP/07/180FI SN BK BX	1932120000	F.42
SVZ 7.62HP/07/180G SN BK BX	1931680000	F.38
SVZ 7.62HP/07/180SF SN BK BX	1932010000	F.39
SVZ 7.62HP/07/180SFC SN BK BX	1951050000	F.41
SVZ 7.62HP/07/180SFI SN BK BX	1932230000	F.43

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Type	Order No.	Page
TOP1.5GS BB OR	1539860000	D.7
TOP1.5GS10/180 5 2ST OR	0570560000	B.47
TOP1.5GS10/180 7 2ST OR	0571160000	B.49
TOP1.5GS10/90 5 2STI OR	0642260000	B.46
TOP1.5GS10/90 7 2STI OR	0642560000	B.48
TOP1.5GS11/180 5 2ST OR	1474760000	B.47
TOP1.5GS11/180 7 2ST OR	1597090000	B.49
TOP1.5GS11/90 5 2STI OR	0594260000	B.46
TOP1.5GS11/90 7 2STI OR	0394060000	B.48
TOP1.5GS12/180 5 2STI OR	0597960000	B.47
TOP1.5GS12/180 7 2ST OR	0392160000	B.49
TOP1.5GS12/90 5 2STI OR	0594360000	B.46
TOP1.5GS12/90 7 2STI OR	0394160000	B.48
TOP1.5GS13/180 5 2ST OR	1724740000	B.47
TOP1.5GS13/90 5 2STI OR	0594460000	B.46
TOP1.5GS14/180 5 2STI OR	0598160000	B.47
TOP1.5GS14/90 5 2STI OR	0594560000	B.46
TOP1.5GS15/180 5 2ST OR	1782490000	B.47
TOP1.5GS15/90 5 2STI OR	0594660000	B.46
TOP1.5GS16/180 5 2ST OR	0570760000	B.47
TOP1.5GS16/90 5 2STI OR	0642360000	B.46
TOP1.5GS17/180 5 2ST OR	0598360000	B.47
TOP1.5GS17/90 5 2STI OR	0594760000	B.46
TOP1.5GS18/180 5 2STI OR	0598460000	B.47
TOP1.5GS18/90 5 2STI OR	1707040000	B.46
TOP1.5GS19/180 5 2ST OR	0598560000	B.47
TOP1.5GS19/90 5 2STI OR	0594960000	B.46
TOP1.5GS2/180 5 2STI OR	0569960000	B.47
TOP1.5GS2/180 7 2STI OR	0391360000	B.49
TOP1.5GS2/90 5 2STI OR	0641960000	B.46
TOP1.5GS2/90 7 2STI OR	0393360000	B.48
TOP1.5GS20/180 5 2ST OR	0598660000	B.47
TOP1.5GS20/90 5 2STI OR	0595060000	B.46
TOP1.5GS21/180 5 2ST OR	0598760000	B.47
TOP1.5GS21/90 5 2STI OR	0595160000	B.46
TOP1.5GS22/180 5 2ST OR	0598860000	B.47
TOP1.5GS22/90 5 2STI OR	0595260000	B.46
TOP1.5GS23/180 5 2ST OR	0598960000	B.47
TOP1.5GS23/90 5 2STI OR	0595360000	B.46
TOP1.5GS24/180 5 2ST OR	0599060000	B.47
TOP1.5GS24/90 5 2STI OR	0595460000	B.46
TOP1.5GS3/180 5 2STI OR	0570160000	B.47
TOP1.5GS3/180 7 2STI OR	0391460000	B.49
TOP1.5GS3/90 5 2STI OR	0642060000	B.46
TOP1.5GS3/90 7 2STI OR	0393460000	B.48
TOP1.5GS4/180 5 2STI OR	0570360000	B.47
TOP1.5GS4/180 7 2STI OR	0391560000	B.49
TOP1.5GS4/90 5 2STI OR	0642160000	B.46
TOP1.5GS4/90 7 2STI OR	0393560000	B.48
TOP1.5GS5/180 5 2STI OR	0597360000	B.47
TOP1.5GS5/180 7 2STI OR	1490460000	B.49
TOP1.5GS5/90 5 2STI OR	1578820000	B.46
TOP1.5GS5/90 7 2STI OR	0393660000	B.48
TOP1.5GS6/180 5 2STI OR	0597460000	B.47
TOP1.5GS6/180 7 2STI OR	1597060000	B.49
TOP1.5GS6/90 5 2STI OR	0593860000	B.46
TOP1.5GS6/90 7 2STI OR	1683990000	B.48
TOP1.5GS7/180 5 2STI OR	1695700000	B.47
TOP1.5GS7/180 7 2STI OR	1597070000	B.49
TOP1.5GS7/90 5 2STI OR	0593960000	B.46
TOP1.5GS7/90 7 2STI OR	1647310000	B.48
TOP1.5GS8/180 5 2STI OR	0597660000	B.47
TOP1.5GS8/180 7 2STI OR	0570960000	B.49
TOP1.5GS8/90 5 2STI OR	0594060000	B.46
TOP1.5GS8/90 7 2STI OR	0642460000	B.48
TOP1.5GS9/180 5 2STI OR	1474660000	B.47
TOP1.5GS9/180 7 2STI OR	1597080000	B.49
TOP1.5GS9/90 5 2STI OR	0594160000	B.46
TOP1.5GS9/90 7 2STI OR	0393960000	B.48
TOP4GS10/180 6.35 OR	1786270000	B.51
TOP4GS10/180 7.62 OR	1786570000	B.53
TOP4GS10/90 6.35 OR	1786080000	B.50
TOP4GS10/90 7.62 OR	1786440000	B.52
TOP4GS11/180 6.35 OR	1786280000	B.51
TOP4GS11/180 7.62 OR	1786580000	B.53
TOP4GS11/90 6.35 OR	1786090000	B.50
TOP4GS11/90 7.62 OR	1759860000	B.52
TOP4GS12/180 6.35 OR	1786290000	B.51
TOP4GS12/180 7.62 OR	1749170000	B.53
TOP4GS12/90 6.35 OR	1786100000	B.50
TOP4GS12/90 7.62 OR	1786450000	B.52
TOP4GS2/180 6.35 OR	1786190000	B.51
TOP4GS2/180 7.62 OR	0298360000	B.53
TOP4GS2/90 6.35 OR	1401760000	B.50
TOP4GS2/90 7.62 OR	0289660000	B.52
TOP4GS3/180 6.35 OR	1786200000	B.51
TOP4GS3/180 7.62 OR	0298460000	B.53
TOP4GS3/90 6.35 OR	1650300000	B.50
TOP4GS3/90 7.62 OR	0289760000	B.52
TOP4GS4/180 6.35 OR	1786210000	B.51
TOP4GS4/180 7.62 OR	0298560000	B.53
TOP4GS4/90 6.35 OR	1786030000	B.50
TOP4GS4/90 7.62 OR	0290160000	B.52
TOP4GS5/180 6.35 OR	1786220000	B.51
TOP4GS5/180 7.62 OR	1786540000	B.53
TOP4GS5/90 6.35 OR	1786040000	B.50
TOP4GS5/90 7.62 OR	1698740000	B.52
TOP4GS6/180 6.35 OR	1786230000	B.51
TOP4GS6/180 7.62 OR	1494560000	B.53
TOP4GS6/90 6.35 OR	1786050000	B.50
TOP4GS6/90 7.62 OR	1786410000	B.52
TOP4GS7/180 6.35 OR	1786240000	B.51
TOP4GS7/180 7.62 OR	1786550000	B.53
TOP4GS7/90 6.35 OR	1786060000	B.50
TOP4GS7/90 7.62 OR	1647300000	B.52
TOP4GS8/180 6.35 OR	1786250000	B.51
TOP4GS8/180 7.62 OR	1786560000	B.53
TOP4GS8/90 6.35 OR	1667910000	B.50
TOP4GS8/90 7.62 OR	1786420000	B.52
TOP4GS9/180 6.35 OR	1786260000	B.51
TOP4GS9/180 7.62 OR	1571700000	B.53
TOP4GS9/90 6.35 OR	1786070000	B.50
TOP4GS9/90 7.62 OR	1786430000	B.52
TS 35X15/LL 1M/ST/ZN	0236510000	I.35
TS 35X7.5/LL 1M/ST/ZN	0514510000	I.35

V

Type	Order No.	Page
VDS180 SV7.62	1853940000	H.4
VWGK 4	1936490000	G.15
VWGK 4 GN/YE	1936480000	G.15
VWGK 4 SW	1250650000	G.15
VWGK 6	1965740000	G.15
VWGK 6 GN/YE	1965730000	G.15
VWGK 6 SW	1250640000	G.15

W

Type	Order No.	Page
WGK 10	1936510000	G.9
WGK 10 GN/YE	1936500000	G.9
WGK 10 SW	1250880000	G.9
WGK 10 VP	1981880000	G.10
WGK 10 VP GN/YE	1003960000	G.10
WGK 10 VP/Z	1003920000	G.10
WGK 10 VP/Z GN/YE	1003970000	G.10
WGK 10/Z	1936530000	G.9
WGK 10/Z gn/ye	1936520000	G.9
WGK 10/Z SW	1250890000	G.9
WGK 16	1936810000	G.10
WGK 16 gn/ye	1936760000	G.10
WGK 16 SW	1250860000	G.10
WGK 16 VP	1936780000	G.11
WGK 16 VP GN/YE	1936770000	G.11
WGK 16 VP SW	1250820000	G.11
WGK 16 VP/Z	1936800000	G.11
WGK 16 VP/Z GN/YE	1936790000	G.11
WGK 16 VP/Z SW	1250830000	G.11
WGK 16/Z	1936830000	G.10
WGK 16/Z gn/ye	1936820000	G.10
WGK 16/Z SW	1250870000	G.10
WGK 25	1936850000	G.11
WGK 25 GN/YE	1936840000	G.11
WGK 25 SW	1250790000	G.11
WGK 25 VP	1936870000	G.12
WGK 25 VP GN/YE	1936860000	G.12
WGK 25 VP SW	1250750000	G.12
WGK 25 VP/Z	1936890000	G.12
WGK 25 VP/Z GN/YE	1936880000	G.12
WGK 25 VP/Z SW	1250760000	G.12
WGK 25/Z	1936910000	G.11
WGK 25/Z GN/YE	1936900000	G.11

Type	Order No.	Page
WGK 25/Z SW	1250810000	G.11
WGK 4	1936550000	G.8
WGK 4 GN/YE	1936540000	G.8
WGK 4 SW	1250930000	G.8
WGK 4 VP	1981890000	G.9
WGK 4 VP BK	1339790000	G.9
WGK 4 VP GN/YE	1003890000	G.9
WGK 4 VP/Z	1003910000	G.9
WGK 4 VP/Z BK	1339810000	G.9
WGK 4 VP/Z GN/YE	1003900000	G.9
WGK 4/Z	1936570000	G.8
WGK 4/Z gn/ye	1936560000	G.8
WGK 4/Z SW	1250940000	G.8
WGK 50	1937090000	G.13
WGK 50 GN/YE	1937040000	G.13
WGK 50 SW	1250730000	G.13
WGK 50 VP	1937060000	G.13
WGK 50 VP GN/YE	1937050000	G.13
WGK 50 VP SW	1250710000	G.13
WGK 50 VP/Z	1937080000	G.13
WGK 50 VP/Z GN/YE	1937070000	G.13
WGK 50 VP/Z SW	1250720000	G.13
WGK 50/Z	1937110000	G.13
WGK 50/Z GN/YE	1937100000	G.13
WGK 50/Z SW	1250740000	G.13
WGK 95	1937380000	G.13
WGK 95 F VP	1937130000	G.14
WGK 95 F VP GN/YE	1937120000	G.14
WGK 95 F VP SW	1250660000	G.14
WGK 95 F VP/Z	1937140000	G.14
WGK 95 F VP/Z GN/YE	1937360000	G.14
WGK 95 F VP/Z SW	1250670000	G.14
WGK 95 GN/YE	1937370000	G.13
WGK 95 SW	1250680000	G.13
WGK 95/Z	1937400000	G.13
WGK 95/Z GN/YE	1937390000	G.13
WGK 95/Z SW	1250690000	G.13
WGKV 10	1934060000	G.9
WGKV 10 gn/ye	1936580000	G.9
WGKV 10 SW	1250910000	G.9
WGKV 10/Z	1936600000	G.9
WGKV 10/Z gn/ye	1936590000	G.9
WGKV 10/Z SW	1250920000	G.9
WGKV 16	1003880000	G.11
WGKV 16 GN/YE	1003950000	G.11
WGKV 16 SW	1250840000	G.11
WGKV 16/Z	1003940000	G.11
WGKV 16/Z GN/YE	1003930000	G.11
WGKV 16/Z SW	1250850000	G.11
WGKV 25	1934070000	G.12
WGKV 25 gn/ye	1936720000	G.12
WGKV 25 SW	1250770000	G.12
WGKV 25/Z	1936750000	G.12
WGKV 25/Z gn/ye	1936740000	G.12
WGKV 25/Z SW	1250780000	G.12
WGKV 4	1934050000	G.8
WGKV 4 gn/ye	1936610000	G.8
WGKV 4 SW	1250950000	G.8
WGKV 4/Z	1936630000	G.8
WGKV 4/Z gn/ye	1936620000	G.8
WGKV 4/Z SW	1250960000	G.8
WS 10/5 MC NEUTRAL	1635000000	D.18
WS 12/5 MC NEUTRAL	1609860000	D.18

Z

ZBSC DLI2.5/M2.5X6	1919670000	I.38
ZQV 4N/2 BL	1793960000	I.38
ZQV 4N/2 GE	1758250000	I.38
ZQV 4N/2 RT	1793950000	I.38
ZW 15 RS OR	0119860000	I.45
ZW 25 RS OR	0126160000	I.45
ZW 30 RS OR	0119960000	I.45
ZW 45 RS OR	0120060000	I.45
ZW 5 RS OR	0119760000	I.45

Order No.	Type	Page
0110000000		
0119560000	RF RS 70 RE/A3/M.BEZ	I.45
0119660000	RF RS 70 LI/A2/O.SG	I.45
0119760000	ZW 5 RS OR	I.45
0119860000	ZW 15 RS OR	I.45
0119960000	ZW 30 RS OR	I.45
0120000000		
0120060000	ZW 45 RS OR	I.45
0126160000	ZW 25 RS OR	I.45
0126260000	RF RS 70 RE/A4/O.BEZ	I.45
0150000000		
0157261187	DEK 5 GS PE	D.17
0157261202	DEK 5 GS ERDE	D.17
0157261203	DEK 5 GS ERDE IM KREIS	D.17
0210000000		
0213760000	RF RS 70 MI/A6	I.45
0230000000		
0236510000	TS 35X15/LL 1M/ST/ZN	I.35
0280000000		
0289660000	TOP4GS2/90 7.62 OR	B.52
0289760000	TOP4GS3/90 7.62 OR	B.52
0290000000		
0290160000	TOP4GS4/90 7.62 OR	B.52
0298360000	TOP4GS2/180 7.62 OR	B.53
0298460000	TOP4GS3/180 7.62 OR	B.53
0298560000	TOP4GS4/180 7.62 OR	B.53
0310000000		
0310000000	PS 2.0 MC	B.33
0330000000		
0331500001	SF 10 BEZ. 1-10	D.18
0331500011	SF 10 BEZ. 11-20	D.18
0332400000	SF 10 BEZ. 0-9	D.18
0332500000	SG 10	D.18
0332500001	SG 10 BEZ. 1	D.18
0332500002	SG 10 BEZ. 2	D.18
0332500003	SG 10 BEZ. 3	D.18
0332500004	SG 10 BEZ. 4	D.18
0332500005	SG 10 BEZ. 5	D.18
0332500006	SG 10 BEZ. 6	D.18
0332500007	SG 10 BEZ. 7	D.18
0332500008	SG 10 BEZ. 8	D.18
0332500009	SG 10 BEZ. 9	D.18
0350000000		
0354361187	DEK 5 FWZ L1-PE	D.17
0390000000		
0391360000	TOP1.5GS2/180 7 2STI OR	B.49
0391460000	TOP1.5GS3/180 7 2STI OR	B.49
0391560000	TOP1.5GS4/180 7 2STI OR	B.49
0392160000	TOP1.5GS12/180 7 2ST OR	B.49
0393360000	TOP1.5GS2/90 7 2STI OR	B.48
0393460000	TOP1.5GS3/90 7 2STI OR	B.48
0393560000	TOP1.5GS4/90 7 2STI OR	B.48
0393660000	TOP1.5GS5/90 7 2STI OR	B.48
0393960000	TOP1.5GS9/90 7 2STI OR	B.48
0394060000	TOP1.5GS11/90 7 2STI OR	B.48
0394160000	TOP1.5GS12/90 7 2STI OR	B.48
0460000000		
0460660001	DEK 5 FSZ 1-10	D.17
0460660011	DEK 5 FSZ 11-20	D.17
0460660091	DEK 5 FSZ 91-100	D.17
0470000000		
0473360000	DEK 5 NEUTRAL	D.17
0473390000	DEK 5 NEUTRAL FARBIG	D.17
0473391686	DEK 5 RT NEUTRAL	D.17
0473391687	DEK 5 GE NEUTRAL	D.17
0473391688	DEK 5 GN NEUTRAL	D.17
0473391689	DEK 5 VI NEUTRAL	D.17
0473391690	DEK 5 OR NEUTRAL	D.17
0473391691	DEK 5 GR NEUTRAL	D.17
0473391692	DEK 5 BR NEUTRAL	D.17
0473391693	DEK 5 BL NEUTRAL	D.17
0473391694	DEK 5 SW NEUTRAL	D.17
0473460001	DEK 5 FW 1-50	D.17
0473460051	DEK 5 FW 51-100	D.17

Order No.	Type	Page
0473460951	DEK 5 FW 951-999	D.17
0473560001	DEK 5 FS 1-50	D.17
0473560051	DEK 5 FS 51-100	D.17
0473560951	DEK 5 FS 951-999	D.17
0480000000		
0485200000	ADP 1/HP1 1M	I.44
0490000000		
0490760000	DEK 5 SONDERDRUCK	D.17
0490790000	DEK 5 SONDERDRUCK FARB.	D.17
0510000000		
0514510000	TS 35X7.5/LL 1M/ST/ZN	I.35
0520000000		
0522361075	DEK 5 GW L1	D.17
0522361076	DEK 5 GW L2	D.17
0522361077	DEK 5 GW L3	D.17
0522660001	DEK 5 GW 1	D.17
0522660002	DEK 5 GW 2	D.17
0522660200	DEK 5 GW 200	D.17
0522761021	DEK 5 GW A	D.17
0522761022	DEK 5 GW B	D.17
0522761023	DEK 5 GW C	D.17
0522761024	DEK 5 GW D	D.17
0522761025	DEK 5 GW E	D.17
0522761026	DEK 5 GW F	D.17
0522761027	DEK 5 GW G	D.17
0522761028	DEK 5 GW H	D.17
0522761029	DEK 5 GW I	D.17
0522761030	DEK 5 GW J	D.17
0522761031	DEK 5 GW K	D.17
0522761032	DEK 5 GW L	D.17
0522761033	DEK 5 GW M	D.17
0522761034	DEK 5 GW N	D.17
0522761035	DEK 5 GW O	D.17
0522761036	DEK 5 GW P	D.17
0522761037	DEK 5 GW Q	D.17
0522761038	DEK 5 GW R	D.17
0522761039	DEK 5 GW S	D.17
0522761040	DEK 5 GW T	D.17
0522761041	DEK 5 GW U	D.17
0522761042	DEK 5 GW V	D.17
0522761043	DEK 5 GW W	D.17
0522761044	DEK 5 GW X	D.17
0522761045	DEK 5 GW Y	D.17
0522761046	DEK 5 GW Z	D.17
0523060001	DEK 5 FWZ 1-10	D.17
0523060011	DEK 5 FWZ 11-20	D.17
0523060091	DEK 5 FWZ 91-100	D.17
0560000000		
0569960000	TOP1.5GS2/180 5 2STI OR	B.47
0570000000		
0570160000	TOP1.5GS3/180 5 2STI OR	B.47
0570360000	TOP1.5GS4/180 5 2STI OR	B.47
0570560000	TOP1.5GS10/180 5 2ST OR	B.47
0570760000	TOP1.5GS16/180 5 2ST OR	B.47
0570960000	TOP1.5GS8/180 7 2STI OR	B.49
0571160000	TOP1.5GS10/180 7 2ST OR	B.49
0576261198	DEK 5 GW +	D.17
0576261199	DEK 5 GW -	D.17
0576261202	DEK 5 GW ERDE	D.17
0576261203	DEK 5 GW ERDE I.KR.	D.17
0576261215	DEK 5 GW W-STROM	D.17
0590000000		
0593860000	TOP1.5GS6/90 5 2STI OR	B.46
0593960000	TOP1.5GS7/90 5 2STI OR	B.46
0594060000	TOP1.5GS8/90 5 2STI OR	B.46
0594160000	TOP1.5GS9/90 5 2STI OR	B.46
0594260000	TOP1.5GS11/90 5 2STI OR	B.46
0594360000	TOP1.5GS12/90 5 2STI OR	B.46
0594460000	TOP1.5GS13/90 5 2STI OR	B.46
0594560000	TOP1.5GS14/90 5 2STI OR	B.46
0594660000	TOP1.5GS15/90 5 2STI OR	B.46
0594760000	TOP1.5GS17/90 5 2STI OR	B.46
0594960000	TOP1.5GS19/90 5 2STI OR	B.46
0595060000	TOP1.5GS20/90 5 2STI OR	B.46
0595160000	TOP1.5GS21/90 5 2STI OR	B.46
0595260000	TOP1.5GS22/90 5 2STI OR	B.46
0595360000	TOP1.5GS23/90 5 2STI OR	B.46
0595460000	TOP1.5GS24/90 5 2STI OR	B.46
0597360000	TOP1.5GS5/180 5 2STI OR	B.47
0597460000	TOP1.5GS6/180 5 2STI OR	B.47
0597660000	TOP1.5GS8/180 5 2STI OR	B.47
0597960000	TOP1.5GS12/180 5 2STI OR	B.47
0598160000	TOP1.5GS14/180 5 2STI OR	B.47
0598360000	TOP1.5GS17/180 5 2ST OR	B.47
0598460000	TOP1.5GS18/180 5 2STI OR	B.47

Order No.	Type	Page
0598560000	TOP1.5GS19/180 5 2ST OR	B.47
0598660000	TOP1.5GS20/180 5 2ST OR	B.47
0598760000	TOP1.5GS21/180 5 2ST OR	B.47
0598860000	TOP1.5GS22/180 5 2ST OR	B.47
0598960000	TOP1.5GS23/180 5 2ST OR	B.47
0599060000	TOP1.5GS24/180 5 2ST OR	B.47
0640000000		
0641960000	TOP1.5GS2/90 5 2STI OR	B.46
0642060000	TOP1.5GS3/90 5 2STI OR	B.46
0642160000	TOP1.5GS4/90 5 2STI OR	B.46
0642260000	TOP1.5GS10/90 5 2STI OR	B.46
0642360000	TOP1.5GS16/90 5 2STI OR	B.46
0642460000	TOP1.5GS8/90 7 2STI OR	B.48
0642560000	TOP1.5GS10/90 7 2STI OR	B.48
0646210000	MOFU 35/LO/1 SW	J.2
1000000000		
1000030001	BLF 5.08HC/02/90 SN BK BX	C.238
1000040001	BLF 5.08HC/03/90 SN BK BX	C.238
1000050001	BLF 5.08HC/04/90 SN BK BX	C.238
1000060001	BLF 5.08HC/05/90 SN BK BX	C.238
1000070001	BLF 5.08HC/06/90 SN BK BX	C.238
1000080001	BLF 5.08HC/07/90 SN BK BX	C.238
1000090001	BLF 5.08HC/08/90 SN BK BX	C.238
1000100001	BLF 5.08HC/09/90 SN BK BX	C.238
1000110001	BLF 5.08HC/10/90 SN BK BX	C.238
1000120001	BLF 5.08HC/11/90 SN BK BX	C.238
1000130001	BLF 5.08HC/12/90 SN BK BX	C.238
1000140001	BLF 5.08HC/13/90 SN BK BX	C.238
1000150001	BLF 5.08HC/14/90 SN BK BX	C.238
1000160001	BLF 5.08HC/15/90 SN BK BX	C.238
1000170001	BLF 5.08HC/16/90 SN BK BX	C.238
1000180001	BLF 5.08HC/17/90 SN BK BX	C.238
1000190001	BLF 5.08HC/18/90 SN BK BX	C.238
1000200001	BLF 5.08HC/19/90 SN BK BX	C.238
1000210001	BLF 5.08HC/20/90 SN BK BX	C.238
1000220001	BLF 5.08HC/02/90F SN BK BX	C.239
1000230001	BLF 5.08HC/03/90F SN BK BX	C.239
1000240001	BLF 5.08HC/04/90F SN BK BX	C.239
1000250001	BLF 5.08HC/05/90F SN BK BX	C.239
1000260001	BLF 5.08HC/06/90F SN BK BX	C.239
1000270001	BLF 5.08HC/07/90F SN BK BX	C.239
1000280001	BLF 5.08HC/08/90F SN BK BX	C.239
1000290001	BLF 5.08HC/09/90F SN BK BX	C.239
1000300001	BLF 5.08HC/10/90F SN BK BX	C.239
1000310001	BLF 5.08HC/11/90F SN BK BX	C.239
1000320001	BLF 5.08HC/12/90F SN BK BX	C.239
1000330001	BLF 5.08HC/13/90F SN BK BX	C.239
1000340001	BLF 5.08HC/14/90F SN BK BX	C.239
1000350001	BLF 5.08HC/15/90F SN BK BX	C.239
1000360001	BLF 5.08HC/16/90F SN BK BX	C.239
1000370001	BLF 5.08HC/17/90F SN BK BX	C.239
1000380001	BLF 5.08HC/18/90F SN BK BX	C.239
1000390001	BLF 5.08HC/19/90F SN BK BX	C.239
1000400001	BLF 5.08HC/20/90F SN BK BX	C.239
1000410001	BLF 5.08HC/02/90LR SN BK BX	C.239
1000420001	BLF 5.08HC/03/90LR SN BK BX	C.239
1000430001	BLF 5.08HC/04/90LR SN BK BX	C.239
1000440001	BLF 5.08HC/05/90LR SN BK BX	C.239
1000450001	BLF 5.08HC/06/90LR SN BK BX	C.239
1000460001	BLF 5.08HC/07/90LR SN BK BX	C.239
1000470001	BLF 5.08HC/08/90LR SN BK BX	C.239
1000480001	BLF 5.08HC/09/90LR SN BK BX	C.239
1000490001	BLF 5.08HC/10/90LR SN BK BX	C.239
1000500001	BLF 5.08HC/11/90LR SN BK BX	C.239
1000510001	BLF 5.08HC/12/90LR SN BK BX	C.239
1000520001	BLF 5.08HC/13/90LR SN BK BX	C.239
1000530001	BLF 5.08HC/14/90LR SN BK BX	C.239
1000540000	BL-I/O 3.50/10LR SN BK BX	C.53
1000540001	BLF 5.08HC/15/90LR SN BK BX	C.239
1000550000	BL-I/O 3.50/30LR SN BK BX	C.53
1000550001	BLF 5.08HC/16/90LR SN BK BX	C.239
1000560000	BL-I/O 3.50/10LR PNP LED SN BK BX	C.55
1000560001	BLF 5.08HC/17/90LR SN BK BX	C.239
1000570000	BL-I/O 3.50/30LR PNP LED SN BK BX	C.55
1000570001	BLF 5.08HC/18/90LR SN BK BX	C.239
1000580000	BL-I/O 3.50/10LR NPN LED SN BK BX	C.57
1000580001	BLF 5.08HC/19/90LR SN BK BX	C.239
1000590000	BL-I/O 3.50/30LR NPN LED SN BK BX	C.57
1000590001	BLF 5.08HC/20/90LR SN BK BX	C.239
1000600000	SL-SMT 3.50/04/90RF 1.5SN BK BX	C.29
1000610000	SL-SMT 3.50/05/90RF 1.5SN BK BX	C.29
1000620000	SL-SMT 3.50/06/90RF 1.5SN BK BX	C.29
1000630000	SL-SMT 3.50/07/90RF 1.5SN BK BX	C.29
1000640000	SL-SMT 3.50/08/90RF 1.5SN BK BX	C.29
1000650000	SL-SMT 3.50/09/90RF 1.5SN BK BX	C.29
1000660000	SL-SMT 3.50/11/90RF 1.5SN BK BX	C.29
1000670000	SL-SMT 3.50/12/90RF 1.5SN BK BX	C.29
1000680000	SL-SMT 3.50/13/90RF 1.5SN BK BX	C.29
1000690000	SL-SMT 3.50/14/90RF 1.5SN BK BX	C.29
1000700000	SL-SMT 3.50/15/90RF 1.5SN BK BX	C.29
1000860000	BLDF 5.08/02/180 SN BK BX	C.246
1000870000	BLDF 5.08/03/180 SN BK BX	C.246
1000880000	BLDF 5.08/04/180 SN BK BX	C.246
1000890000	BLDF 5.08/05/180 SN BK BX	C.246
1000900000	BLDF 5.08/06/180 SN BK BX	C.246

Order No.	Type	Page
1000910000	BLDF 5.08/07/180 SN BK BX	C.246
1000920000	BLDF 5.08/08/180 SN BK BX	C.246
1000930000	BLDF 5.08/02/180F SN BK BX	C.247
1000950000	BLDF 5.08/03/180F SN BK BX	C.247
1000960000	BLDF 5.08/04/180F SN BK BX	C.247
1000970000	BLDF 5.08/05/180F SN BK BX	C.247
1000980000	BLDF 5.08/06/180F SN BK BX	C.247
1000990000	BLDF 5.08/07/180F SN BK BX	C.247
1001000000	BLDF 5.08/08/180F SN BK BX	C.247
1001010000	BLDF 5.08/02/180LR SN BK BX	C.247
1001020000	BLDF 5.08/03/180LR SN BK BX	C.247
1001030000	BLDF 5.08/04/180LR SN BK BX	C.247
1001040000	BLDF 5.08/05/180LR SN BK BX	C.247
1001050000	BLDF 5.08/06/180LR SN BK BX	C.247
1001060000	BLDF 5.08/07/180LR SN BK BX	C.247
1001070000	BLDF 5.08/08/180LR SN BK BX	C.247
1001150000	BLDF 5.08/02/180 SN OR BX	C.246
1001160000	BLDF 5.08/03/180 SN OR BX	C.246
1001170000	BLDF 5.08/04/180 SN OR BX	C.246
1001180000	BLDF 5.08/05/180 SN OR BX	C.246
1001190000	BLDF 5.08/06/180 SN OR BX	C.246
1001200000	BLDF 5.08/07/180 SN OR BX	C.246
1001210000	BLDF 5.08/08/180 SN OR BX	C.246
1001220000	BLDF 5.08/02/180F SN OR BX	C.247
1001530000	BLF 5.08HC/02/90 SN OR BX	C.238
1001540000	BLF 5.08HC/03/90 SN OR BX	C.238
1001550000	BLF 5.08HC/04/90 SN OR BX	C.238
1001560000	BLF 5.08HC/05/90 SN OR BX	C.238
1001570000	BLF 5.08HC/06/90 SN OR BX	C.238
1001580000	BLF 5.08HC/07/90 SN OR BX	C.238
1001590000	BLF 5.08HC/08/90 SN OR BX	C.238
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1001630000	BLF 5.08HC/12/90 SN OR BX	C.238
1001640000	BLF 5.08HC/13/90 SN OR BX	C.238
1001650000	BLF 5.08HC/14/90 SN OR BX	C.238
1001660000	BLF 5.08HC/15/90 SN OR BX	C.238
1001670000	BLF 5.08HC/16/90 SN OR BX	C.238
1001680000	BLF 5.08HC/17/90 SN OR BX	C.238
1001690000	BLF 5.08HC/18/90 SN OR BX	C.238
1001700000	BLF 5.08HC/19/90 SN OR BX	C.238
1001710000	BLF 5.08HC/20/90 SN OR BX	C.238
1001720000	LL 5.00/04/90 3.2SN OR BX	B.38
1001730000	LL 5.00/05/90 3.2SN OR BX	B.38
1001740000	LL 5.00/06/90 3.2SN OR BX	B.38
1001750000	LL 5.00/07/90 3.2SN OR BX	B.38
1001760000	LL 5.00/08/90 3.2SN OR BX	B.38
1001770000	LL 5.00/09/90 3.2SN OR BX	B.38
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1002020000	LL 5.08/21/90 3.2SN OR BX	B.39
1002030000	LL 5.08/22/90 3.2SN OR BX	B.39
1002040000	LL 5.08/23/90 3.2SN OR BX	B.39
1002050000	LL 5.08/24/90 3.2SN OR BX	B.39
1002090000	BLF 5.08HC/02/90F SN OR BX	C.239
1002100000	BLF 5.08HC/03/90F SN OR BX	C.239
1002110000	BLF 5.08HC/04/90F SN OR BX	C.239
1002120000	BLF 5.08HC/05/90F SN OR BX	C.239
1002130000	BLF 5.08HC/06/90F SN OR BX	C.239
1002140000	BLF 5.08HC/07/90F SN OR BX	C.239
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1002160000	BLF 5.08HC/09/90F SN OR BX	C.239
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1002260000	BLF 5.08HC/19/90F SN OR BX	C.239
1002270000	BLF 5.08HC/20/90F SN OR BX	C.239
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1002370000	BLF 5.08HC/11/90LR SN OR BX	C.239
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1002410000	BLF 5.08HC/15/90LR SN OR BX	C.239
1002420000	BLF 5.08HC/16/90LR SN OR BX	C.239
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1002440000	BLF 5.08HC/18/90LR SN OR BX	C.239
1002450000	BLF 5.08HC/19/90LR SN OR BX	C.239
1002460000	BLF 5.08HC/20/90LR SN OR BX	C.239
1003280000	SMSE FE MCZ 1.5/PE	I.39
1003510000	SL-SMT 3.50/02/135F 3.2SN BK BX	C.37
1003520000	SL-SMT 3.50/03/135F 3.2SN BK BX	C.37
1003530000	SL-SMT 3.50/04/135F 3.2SN BK BX	C.37
1003540000	SL-SMT 3.50/05/135F 3.2SN BK BX	C.37
1003550000	SL-SMT 3.50/06/135F 3.2SN BK BX	C.37
1003560000	SL-SMT 3.50/07/135F 3.2SN BK BX	C.37
1003570000	SL-SMT 3.50/08/135F 3.2SN BK BX	C.37
1003580000	SL-SMT 3.50/09/135F 3.2SN BK BX	C.37
1003590000	SL-SMT 3.50/10/135F 3.2SN BK BX	C.37
1003600000	SL-SMT 3.50/11/135F 3.2SN BK BX	C.37
1003620000	SL-SMT 3.50/12/135F 3.2SN BK BX	C.37
1003630000	SL-SMT 3.50/13/135F 3.2SN BK BX	C.37
1003640000	SL-SMT 3.50/14/135F 3.2SN BK BX	C.37
1003650000	SL-SMT 3.50/15/135F 3.2SN BK BX	C.37
1003660000	SL-SMT 3.50/16/135F 3.2SN BK BX	C.37
1003670000	SL-SMT 3.50/17/135F 3.2SN BK BX	C.37
1003680000	SL-SMT 3.50/18/135F 3.2SN BK BX	C.37
1003690000	SL-SMT 3.50/19/135F 3.2SN BK BX	C.37
1003700000	SL-SMT 3.50/20/135F 3.2SN BK BX	C.37
1003710000	SL-SMT 3.50/21/135F 3.2SN BK BX	C.37
1003720000	SL-SMT 3.50/22/135F 3.2SN BK BX	C.37
1003730000	SL-SMT 3.50/23/135F 3.2SN BK BX	C.37
1003740000	SL-SMT 3.50/24/135F 3.2SN BK BX	C.37
1003880000	WGKV 16	G.11
1003890000	WGK 4 VP GN/YE	G.9
1003900000	WGK 4 VP/Z GN/YE	G.9
1003910000	WGK 4 VP/Z	G.9
1003920000	WGK 10 VP/Z	G.10
1003930000	WGKV 16/Z GN/YE	G.11
1003940000	WGKV 16/Z	G.11
1003950000	WGKV 16 GN/YE	G.11
1003960000	WGK 10 VP GN/YE	G.10
1003970000	WGK 10 VP/Z GN/YE	G.10
1005180000	SL-SMT 3.50/10/90LF 1.5SN BK RL	C.27
1005280000	BCZ 3.81 AH03	D.4
1005290000	BCZ 3.81 AH04	D.4
1005300000	BCZ 3.81 AH05	D.4
1005310000	BCZ 3.81 AH06	D.4
1005320000	BCZ 3.81 AH07	D.4
1005330000	BCZ 3.81 AH08	D.4
1005340000	BCZ 3.81 AH09	D.4
1005350000	BCZ 3.81 AH10	D.4
1005360000	BCZ 3.81 AH11	D.4
1005370000	BCZ 3.81 AH12	D.4
1005380000	BCZ 3.81 AH13	D.4
1005390000	BCZ 3.81 AH14	D.4
1005400000	BCZ 3.81 AH15	D.4
1005410000	BCZ 3.81 AH16	D.4

1010000000

1011590000	AP 45/LI OR	I.44
1011600000	AP 45/RE OR	I.44
1012060000	BLDF 5.08/03/180F SN OR BX	C.247
1012640000	BLF 5.08HC/02/180F SN BK BX	C.237
1012650000	BLF 5.08HC/03/180F SN BK BX	C.237
1012660000	BLF 5.08HC/04/180F SN BK BX	C.237
1012670000	BLF 5.08HC/05/180F SN BK BX	C.237
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1012740000	BLF 5.08HC/11/180F SN BK BX	C.237
1012750000	BLF 5.08HC/12/180F SN BK BX	C.237
1012940000	BLF 5.08HC/13/180F SN BK BX	C.237
1012950000	BLF 5.08HC/14/180F SN BK BX	C.237
1012960000	BLF 5.08HC/15/180F SN BK BX	C.237
1012970000	BLF 5.08HC/16/180F SN BK BX	C.237
1012980000	BLF 5.08HC/17/180F SN BK BX	C.237
1012990000	BLF 5.08HC/18/180F SN BK BX	C.237
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1013040000	BLF 5.08HC/22/180F SN BK BX	C.237
1013050000	BLF 5.08HC/23/180F SN BK BX	C.237
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1013120000	BLF 5.08HC/05/180F SN OR BX	C.237
1013130000	BLF 5.08HC/06/180F SN OR BX	C.237
1013140000	BLF 5.08HC/07/180F SN OR BX	C.237
1013150000	BLF 5.08HC/08/180F SN OR BX	C.237
1013160000	BLF 5.08HC/09/180F SN OR BX	C.237
1013170000	BLF 5.08HC/10/180F SN OR BX	C.237
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1013460000	BLF 5.08HC/05/180 SN BK BX	C.236
1013470000	BLF 5.08HC/06/180 SN BK BX	C.236
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1013490000	BLF 5.08HC/08/180 SN BK BX	C.236
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1013530000	BLF 5.08HC/11/180 SN BK BX	C.236
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1013610000	BLF 5.08HC/18/180 SN BK BX	C.236
1013620000	BLF 5.08HC/19/180 SN BK BX	C.236
1013630000	BLF 5.08HC/20/180 SN BK BX	C.236
1013640000	BLF 5.08HC/21/180 SN BK BX	C.236
1013650000	BLF 5.08HC/22/180 SN BK BX	C.236
1013660000	BLF 5.08HC/23/180 SN BK BX	C.236
1013670000	BLF 5.08HC/24/180 SN BK BX	C.236
1013680000	BLF 5.08HC/02/180 SN OR BX	C.236
1013690000	BLF 5.08HC/03/180 SN OR BX	C.236
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1013730000	BLF 5.08HC/06/180 SN OR BX	C.236
1013740000	BLF 5.08HC/07/180 SN OR BX	C.236
1013750000	BLF 5.08HC/08/180 SN OR BX	C.236
1013760000	BLF 5.08HC/09/180 SN OR BX	C.236
1013770000	BLF 5.08HC/10/180 SN OR BX	C.236
1013780000	BLF 5.08HC/11/180 SN OR BX	C.236
1013790000	BLF 5.08HC/12/180 SN OR BX	C.236
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1014130000	BLF 5.08HC/03/180LR SN BK BX	C.237
1014140000	BLF 5.08HC/04/180LR SN BK BX	C.237
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1014170000	BLF 5.08HC/07/180LR SN BK BX	C.237
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1014270000	BLF 5.08HC/16/180LR SN BK BX	C.237
1014280000	BLF 5.08HC/17/180LR SN BK BX	C.237
1014290000	BLF 5.08HC/18/180LR SN BK BX	C.237
1014310000	BLF 5.08HC/19/180LR SN BK BX	C.237
1014320000	BLF 5.08HC/20/180LR SN BK BX	C.237
1014330000	BLF 5.08HC/21/180LR SN BK BX	C.237
1014340000	BLF 5.08HC/22/180LR SN BK BX	C.237
1014350000	BLF 5.08HC/23/180LR SN BK BX	C.237
1014360000	BLF 5.08HC/24/180LR SN BK BX	C.237
1014370000	BLF 5.08HC/02/180LR SN OR BX	C.237
1014380000	BLF 5.08HC/03/180LR SN OR BX	C.237
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1014420000	BLF 5.08HC/06/180LR SN OR BX	C.237
1014430000	BLF 5.08HC/07/180LR SN OR BX	C.237
1014440000	BLF 5.08HC/08/180LR SN OR BX	C.237
1014450000	BLF 5.08HC/09/180LR SN OR BX	C.237
1014460000	BLF 5.08HC/10/180LR SN OR BX	C.237
1014470000	BLF 5.08HC/11/180LR SN OR BX	C.237
1014480000	BLF 5.08HC/12/180LR SN OR BX	C.237
1014490000	BLF 5.08HC/13/180LR SN OR BX	C.237
1014510000	BLF 5.08HC/14/180LR SN OR BX	C.237

Order No.	Type	Page
1014520000	BLF 5.08HC/15/180LR SN OR BX	C.237
1014530000	BLF 5.08HC/16/180LR SN OR BX	C.237
1014540000	BLF 5.08HC/17/180LR SN OR BX	C.237
1014550000	BLF 5.08HC/18/180LR SN OR BX	C.237
1014560000	BLF 5.08HC/19/180LR SN OR BX	C.237
1014570000	BLF 5.08HC/20/180LR SN OR BX	C.237
1014580000	BLF 5.08HC/21/180LR SN OR BX	C.237
1014590000	BLF 5.08HC/22/180LR SN OR BX	C.237
1014610000	BLF 5.08HC/23/180LR SN OR BX	C.237
1014620000	BLF 5.08HC/24/180LR SN OR BX	C.237
1016140000	BLF 5.00HC/02/180LR SN BK BX	C.159
1016150000	BLF 5.00HC/03/180LR SN BK BX	C.159
1016170000	BLF 5.00HC/04/180LR SN BK BX	C.159
1016180000	BLF 5.00HC/05/180LR SN BK BX	C.159
1016190000	BLF 5.00HC/06/180LR SN BK BX	C.159
1016210000	BLF 5.00HC/07/180LR SN BK BX	C.159
1016220000	BLF 5.00HC/08/180LR SN BK BX	C.159
1016230000	BLF 5.00HC/09/180LR SN BK BX	C.159
1016240000	BLF 5.00HC/10/180LR SN BK BX	C.159
1016250000	BLF 5.00HC/11/180LR SN BK BX	C.159
1016260000	BLF 5.00HC/12/180LR SN BK BX	C.159
1016270000	BLF 5.00HC/13/180LR SN BK BX	C.159
1016280000	BLF 5.00HC/14/180LR SN BK BX	C.159
1016290000	BLF 5.00HC/15/180LR SN BK BX	C.159
1016310000	BLF 5.00HC/16/180LR SN BK BX	C.159
1016320000	BLF 5.00HC/17/180LR SN BK BX	C.159
1016330000	BLF 5.00HC/18/180LR SN BK BX	C.159
1016340000	BLF 5.00HC/02/180LR SN OR BX	C.159
1016350000	BLF 5.00HC/03/180LR SN OR BX	C.159
1016360000	BLF 5.00HC/04/180LR SN OR BX	C.159
1016370000	BLF 5.00HC/05/180LR SN OR BX	C.159
1016380000	BLF 5.00HC/06/180LR SN OR BX	C.159
1016390000	BLF 5.00HC/07/180LR SN OR BX	C.159
1016410000	BLF 5.00HC/08/180LR SN OR BX	C.159
1016420000	BLF 5.00HC/09/180LR SN OR BX	C.159
1016430000	BLF 5.00HC/10/180LR SN OR BX	C.159
1016440000	BLF 5.00HC/11/180LR SN OR BX	C.159
1016450000	BLF 5.00HC/12/180LR SN OR BX	C.159
1016460000	BLF 5.00HC/13/180LR SN OR BX	C.159
1016470000	BLF 5.00HC/14/180LR SN OR BX	C.159
1016480000	BLF 5.00HC/15/180LR SN OR BX	C.159
1016490000	BLF 5.00HC/16/180LR SN OR BX	C.159
1016510000	BLF 5.00HC/17/180LR SN OR BX	C.159
1016520000	BLF 5.00HC/18/180LR SN OR BX	C.159
1017240000	BLF 5.00HC/02/180F SN BK BX	C.159
1017250000	BLF 5.00HC/03/180F SN BK BX	C.159
1017260000	BLF 5.00HC/04/180F SN BK BX	C.159
1017270000	BLF 5.00HC/05/180F SN BK BX	C.159
1017280000	BLF 5.00HC/06/180F SN BK BX	C.159
1017290000	BLF 5.00HC/07/180F SN BK BX	C.159
1017310000	BLF 5.00HC/08/180F SN BK BX	C.159
1017320000	BLF 5.00HC/09/180F SN BK BX	C.159
1017330000	BLF 5.00HC/10/180F SN BK BX	C.159
1017340000	BLF 5.00HC/11/180F SN BK BX	C.159
1017350000	BLF 5.00HC/12/180F SN BK BX	C.159
1017360000	BLF 5.00HC/13/180F SN BK BX	C.159
1017370000	BLF 5.00HC/14/180F SN BK BX	C.159
1017380000	BLF 5.00HC/15/180F SN BK BX	C.159
1017390000	BLF 5.00HC/16/180F SN BK BX	C.159
1017400000	BLF 5.00HC/17/180F SN BK BX	C.159
1017410000	BLF 5.00HC/18/180F SN BK BX	C.159
1017420000	BLF 5.00HC/02/180F SN OR BX	C.159
1017430000	BLF 5.00HC/03/180F SN OR BX	C.159
1017440000	BLF 5.00HC/04/180F SN OR BX	C.159
1017450000	BLF 5.00HC/05/180F SN OR BX	C.159
1017470000	BLF 5.00HC/06/180F SN OR BX	C.159
1017480000	BLF 5.00HC/07/180F SN OR BX	C.159
1017490000	BLF 5.00HC/08/180F SN OR BX	C.159
1017510000	BLF 5.00HC/09/180F SN OR BX	C.159
1017520000	BLF 5.00HC/10/180F SN OR BX	C.159
1017530000	BLF 5.00HC/11/180F SN OR BX	C.159
1017540000	BLF 5.00HC/12/180F SN OR BX	C.159
1017550000	BLF 5.00HC/13/180F SN OR BX	C.159
1017570000	BLF 5.00HC/14/180F SN OR BX	C.159
1017590000	BLF 5.00HC/15/180F SN OR BX	C.159
1017600000	BLF 5.00HC/16/180F SN OR BX	C.159
1017610000	BLF 5.00HC/17/180F SN OR BX	C.159
1017620000	BLF 5.00HC/18/180F SN OR BX	C.159
1017670000	BLF 5.00HC/02/180 SN BK BX	C.158
1017680000	BLF 5.00HC/03/180 SN BK BX	C.158
1017690000	BLF 5.00HC/04/180 SN BK BX	C.158
1017710000	BLF 5.00HC/05/180 SN BK BX	C.158
1017720000	BLF 5.00HC/06/180 SN BK BX	C.158
1017730000	BLF 5.00HC/07/180 SN BK BX	C.158
1017740000	BLF 5.00HC/08/180 SN BK BX	C.158
1017750000	BLF 5.00HC/09/180 SN BK BX	C.158
1017760000	BLF 5.00HC/10/180 SN BK BX	C.158
1017770000	BLF 5.00HC/11/180 SN BK BX	C.158
1017780000	BLF 5.00HC/12/180 SN BK BX	C.158
1017790000	BLF 5.00HC/13/180 SN BK BX	C.158
1017810000	BLF 5.00HC/14/180 SN BK BX	C.158
1017820000	BLF 5.00HC/15/180 SN BK BX	C.158
1017830000	BLF 5.00HC/16/180 SN BK BX	C.158
1017840000	BLF 5.00HC/17/180 SN BK BX	C.158
1017850000	BLF 5.00HC/18/180 SN BK BX	C.158
1017860000	BLF 5.00HC/02/180 SN OR BX	C.158
1017870000	BLF 5.00HC/03/180 SN OR BX	C.158
1017880000	BLF 5.00HC/04/180 SN OR BX	C.158
1017890000	BLF 5.00HC/05/180 SN OR BX	C.158
1017910000	BLF 5.00HC/06/180 SN OR BX	C.158
1017920000	BLF 5.00HC/07/180 SN OR BX	C.158
1017930000	BLF 5.00HC/08/180 SN OR BX	C.158
1017950000	BLF 5.00HC/09/180 SN OR BX	C.158
1017960000	BLF 5.00HC/10/180 SN OR BX	C.158
1017970000	BLF 5.00HC/11/180 SN OR BX	C.158
1017980000	BLF 5.00HC/12/180 SN OR BX	C.158
1017990000	BLF 5.00HC/13/180 SN OR BX	C.158
1018010000	BLF 5.00HC/14/180 SN OR BX	C.158
1018020000	BLF 5.00HC/15/180 SN OR BX	C.158
1018030000	BLF 5.00HC/16/180 SN OR BX	C.158
1018040000	BLF 5.00HC/17/180 SN OR BX	C.158
1018050000	BLF 5.00HC/18/180 SN OR BX	C.158

1020000000

1020640000	AP RF 122 LI OR	I.49
1020650000	AP RF 122 RE OR	I.49
1020690000	RF 108 OR	I.49
1026760000	SL 7.62HP/02/90G 3.2SN BK BX	F.8
1026770000	SL 7.62HP/03/90G 3.2SN BK BX	F.8
1026780000	SL 7.62HP/04/90G 3.2SN BK BX	F.8
1026790000	SL 7.62HP/05/90G 3.2SN BK BX	F.8
1026850000	SL 7.62HP/02/90F 3.2 SN BK BX	F.9
1026860000	SL 7.62HP/03/90F 3.2 SN BK BX	F.9
1026870000	SL 7.62HP/04/90F 3.2 SN BK BX	F.9
1026880000	SL 7.62HP/05/90F 3.2 SN BK BX	F.9
1028720000	BCL-SMT 3.81/02/90LFI 1.5SN BK BX	C.117
1028730000	BCL-SMT 3.81/03/90LFI 1.5SN BK BX	C.117
1028740000	BCL-SMT 3.81/04/90LFI 1.5SN BK BX	C.117
1028750000	BCL-SMT 3.81/05/90LFI 1.5SN BK BX	C.117
1028760000	BCL-SMT 3.81/06/90LFI 1.5SN BK BX	C.117
1028770000	BCL-SMT 3.81/07/90LFI 1.5SN BK BX	C.117
1028790000	BCL-SMT 3.81/08/90LFI 1.5SN BK BX	C.117
1028810000	BCL-SMT 3.81/09/90LFI 1.5SN BK BX	C.117
1028820000	BCL-SMT 3.81/10/90LFI 1.5SN BK BX	C.117
1028830000	BCL-SMT 3.81/11/90LFI 1.5SN BK BX	C.117
1028840000	BCL-SMT 3.81/12/90LFI 1.5SN BK BX	C.117
1029260000	BCL-SMT 3.81/02/180LFI 1.5SN BK BX	C.119
1029270000	BCL-SMT 3.81/03/180LFI 1.5SN BK BX	C.119
1029280000	BCL-SMT 3.81/04/180LFI 1.5SN BK BX	C.119
1029290000	BCL-SMT 3.81/05/180LFI 1.5SN BK BX	C.119
1029310000	BCL-SMT 3.81/06/180LFI 1.5SN BK BX	C.119
1029320000	BCL-SMT 3.81/07/180LFI 1.5SN BK BX	C.119
1029330000	BCL-SMT 3.81/08/180LFI 1.5SN BK BX	C.119
1029340000	BCL-SMT 3.81/09/180LFI 1.5SN BK BX	C.119
1029350000	BCL-SMT 3.81/10/180LFI 1.5SN BK BX	C.119
1029360000	BCL-SMT 3.81/11/180LFI 1.5SN BK BX	C.119
1029370000	BCL-SMT 3.81/12/180LFI 1.5SN BK BX	C.119
1029920000	SCD 3.81/04/180G 3.2SN OR BX	C.94
1029940000	SCD 3.81/06/180G 3.2SN OR BX	C.94
1029950000	SCD 3.81/08/180G 3.2SN OR BX	C.94
1029960000	SCD 3.81/10/180G 3.2SN OR BX	C.94
1029970000	SCD 3.81/12/180G 3.2SN OR BX	C.94
1029980000	SCD 3.81/14/180G 3.2SN OR BX	C.94
1029990000	SCD 3.81/16/180G 3.2SN OR BX	C.94

1030000000

1030010000	SCD 3.81/18/180G 3.2SN OR BX	C.94
1030020000	SCD 3.81/20/180G 3.2SN OR BX	C.94
1030030000	SCD 3.81/22/180G 3.2SN OR BX	C.94
1030040000	SCD 3.81/24/180G 3.2SN OR BX	C.94
1030050000	SCD 3.81/26/180G 3.2SN OR BX	C.94
1030060000	SCD 3.81/28/180G 3.2SN OR BX	C.94
1030070000	SCD 3.81/30/180G 3.2SN OR BX	C.94
1030080000	SCD 3.81/32/180G 3.2SN OR BX	C.94
1030260000	SCD 3.81/04/180G 3.2SN BK BX	C.94
1030270000	SCD 3.81/06/180G 3.2SN BK BX	C.94
1030280000	SCD 3.81/08/180G 3.2SN BK BX	C.94
1030290000	SCD 3.81/10/180G 3.2SN BK BX	C.94
1030310000	SCD 3.81/12/180G 3.2SN BK BX	C.94
1030320000	SCD 3.81/14/180G 3.2SN BK BX	C.94
1030340000	SCD 3.81/16/180G 3.2SN BK BX	C.94
1030350000	SCD 3.81/18/180G 3.2SN BK BX	C.94
1030360000	SCD 3.81/20/180G 3.2SN BK BX	C.94
1030370000	SCD 3.81/22/180G 3.2SN BK BX	C.94
1030380000	SCD 3.81/24/180G 3.2SN BK BX	C.94
1030390000	SCD 3.81/26/180G 3.2SN BK BX	C.94
1030410000	SCD 3.81/28/180G 3.2SN BK BX	C.94
1030420000	SCD 3.81/30/180G 3.2SN BK BX	C.94
1030430000	SCD 3.81/32/180G 3.2SN BK BX	C.94
1030440000	SCD 3.81/04/180F 3.2SN OR BX	C.95
1030450000	SCD 3.81/06/180F 3.2SN OR BX	C.95
1030460000	SCD 3.81/08/180F 3.2SN OR BX	C.95
1030470000	SCD 3.81/10/180F 3.2SN OR BX	C.95
1030480000	SCD 3.81/12/180F 3.2SN OR BX	C.95
1030490000	SCD 3.81/14/180F 3.2SN OR BX	C.95
1030510000	SCD 3.81/16/180F 3.2SN OR BX	C.95
1030520000	SCD 3.81/18/180F 3.2SN OR BX	C.95
1030530000	SCD 3.81/20/180F 3.2SN OR BX	C.95
1030540000	SCD 3.81/22/180F 3.2SN OR BX	C.95
1030550000	SCD 3.81/24/180F 3.2SN OR BX	C.95
1030560000	SCD 3.81/26/180F 3.2SN OR BX	C.95
1030570000	SCD 3.81/28/180F 3.2SN OR BX	C.95
1030580000	SCD 3.81/30/180F 3.2SN OR BX	C.95
1030590000	SCD 3.81/32/180F 3.2SN OR BX	C.95
1030780000	SCD 3.81/04/180F 3.2SN BK BX	C.95
1030790000	SCD 3.81/06/180F 3.2SN BK BX	C.95
1030810000	SCD 3.81/08/180F 3.2SN BK BX	C.95
1030820000	SCD 3.81/10/180F 3.2SN BK BX	C.95
1030830000	SCD 3.81/12/180F 3.2SN BK BX	C.95
1030840000	SCD 3.81/14/180F 3.2SN BK BX	C.95
1030850000	SCD 3.81/16/180F 3.2SN BK BX	C.95
1030860000	SCD 3.81/18/180F 3.2SN BK BX	C.95
1030870000	SCD 3.81/20/180F 3.2SN BK BX	C.95
1030880000	SCD 3.81/22/180F 3.2SN BK BX	C.95
1030890000	SCD 3.81/24/180F 3.2SN BK BX	C.95
1030910000	SCD 3.81/26/180F 3.2SN BK BX	C.95
1030920000	SCD 3.81/28/180F 3.2SN BK BX	C.95
1030930000	SCD 3.81/30/180F 3.2SN BK BX	C.95
1030940000	SCD 3.81/32/180F 3.2SN BK BX	C.95
1030950000	SCD-THR 3.81/04/180G 3.2SN BK BX	C.76
1030960000	SCD-THR 3.81/06/180G 3.2SN BK BX	C.76
1030970000	SCD-THR 3.81/08/180G 3.2SN BK BX	C.76
1030980000	SCD-THR 3.81/10/180G 3.2SN BK BX	C.76
1030990000	SCD-THR 3.81/12/180G 3.2SN BK BX	C.76
1031010000	SCD-THR 3.81/14/180G 3.2SN BK BX	C.76
1031020000	SCD-THR 3.81/16/180G 3.2SN BK BX	C.76
1031030000	SCD-THR 3.81/18/180G 3.2SN BK BX	C.76
1031040000	SCD-THR 3.81/20/180G 3.2SN BK BX	C.76
1031050000	SCD-THR 3.81/22/180G 3.2SN BK BX	C.76
1031060000	SCD-THR 3.81/24/180G 3.2SN BK BX	C.76
1031070000	SCD-THR 3.81/26/180G 3.2SN BK BX	C.76
1031080000	SCD-THR 3.81/28/180G 3.2SN BK BX	C.76
1031090000	SCD-THR 3.81/30/180G 3.2SN BK BX	C.76
1031110000	SCD-THR 3.81/32/180G 3.2SN BK BX	C.76
1031290000	SCD-THR 3.81/04/180G 1.5SN BK BX	C.76
1031310000	SCD-THR 3.81/06/180G 1.5SN BK BX	C.76
1031320000	SCD-THR 3.81/08/180G 1.5SN BK BX	C.76
1031330000	SCD-THR 3.81/10/180G 1.5SN BK BX	C.76
1031340000	SCD-THR 3.81/12/180G 1.5SN BK BX	C.76
1031350000	SCD-THR 3.81/14/180G 1.5SN BK BX	C.76
1031360000	SCD-THR 3.81/16/180G 1.5SN BK BX	C.76
1031370000	SCD-THR 3.81/18/180G 1.5SN BK BX	C.76
1031380000	SCD-THR 3.81/20/180G 1.5SN BK BX	C.76
1031390000	SCD-THR 3.81/22/180G 1.5SN BK BX	C.76
1031410000	SCD-THR 3.81/24/180G 1.5SN BK BX	C.76
1031420000	SCD-THR 3.81/26/180G 1.5SN BK BX	C.76
1031430000	SCD-THR 3.81/28/180G 1.5SN BK BX	C.76
1031440000	SCD-THR 3.81/30/180G 1.5SN BK BX	C.76
1031450000	SCD-THR 3.81/32/180G 1.5SN BK BX	C.76
1031460000	SCD-THR 3.81/04/180F 3.2SN BK BX	C.77
1031470000	SCD-THR 3.81/06/180F 3.2SN BK BX	C.77
1031490000	SCD-THR 3.81/08/180F 3.2SN BK BX	C.77
1031510000	SCD-THR 3.81/10/180F 3.2SN BK BX	C.77
1031520000	SCD-THR 3.81/12/180F 3.2SN BK BX	C.77
1031530000	SCD-THR 3.81/14/180F 3.2SN BK BX	C.77
1031540000	SCD-THR 3.81/16/180F 3.2SN BK BX	C.77
1031560000	SCD-THR 3.81/18/180F 3.2SN BK BX	C.77
1031570000	SCD-THR 3.81/20/180F 3.2SN BK BX	C.77
1031590000	SCD-THR 3.81/22/180F 3.2SN BK BX	C.77
1031610000	SCD-THR 3.81/24/180F 3.2SN BK BX	C.77
1031620000	SCD-THR 3.81/26/180F 3.2SN BK BX	C.77
1031630000	SCD-THR 3.81/28/180F 3.2SN BK BX	C.77
1031640000	SCD-THR 3.81/30/180F 3.2SN BK BX	C.77
1031660000	SCD-THR 3.81/32/180F 3.2SN BK BX	C.77
1031860000	SCD-THR 3.81/04/180F 1.5SN BK BX	C.77
1031870000	SCD-THR 3.81/06/180F 1.5SN BK BX	C.77
1031890000	SCD-THR 3.81/08/180F 1.5SN BK BX	C.77
1031910000	SCD-THR 3.81/10/180F 1.5SN BK BX	C.77
1031920000	SCD-THR 3.81/12/180F 1.5SN BK BX	C.77
1031930000	SCD-THR 3.81/14/180F 1.5SN BK BX	C.77
1031940000	SCD-THR 3.81/16/180F 1.5SN BK BX	C.77
1031950000	SCD-THR 3.81/18/180F 1.5SN BK BX	C.77
1031960000	SCD-THR 3.81/20/180F 1.5SN BK BX	C.77
1031970000	SCD-THR 3.81/22/180F 1.5SN BK BX	C.77
1031990000	SCD-THR 3.81/24/180F 1.5SN BK BX	C.77
1032040000	SCD-THR 3.81/26/180F 1.5SN BK BX	C.77
1032050000	SCD-THR 3.81/28/180F 1.5SN BK BX	C.77
1032060000	SCD-THR 3.81/30/180F 1.5SN BK BX	C.77
1032070000	SCD-THR 3.81/32/180F 1.5SN BK BX	C.77
1032090000	SCDV 3.81/04/90G 3.2SN OR BX	C.98
1032110000	SCDV 3.81/06/90G 3.2SN OR BX	C.98
1032120000	SCDV 3.81/08/90G 3.2SN OR BX	C.98
1032130000	SCDV 3.81/10/90G 3.2SN OR BX	C.98
1032140000	SCDV 3.81/12/90G 3.2SN OR BX	C.98
1032150000	SCDV 3.81/14/90G 3.2SN OR BX	C.98
1032160000	SCDV 3.81/16/90G 3.2SN OR BX	C.98
1032170000	SCDV 3.81/18/90G 3.2SN OR BX	C.98
1032190000	SCDV 3.81/20/90G 3.2SN OR BX	C.98
1032200000	SCDV 3.81/22/90G 3.2SN OR BX	C.98
1032210000	SCDV 3.81/24/90G 3.2SN OR BX	C.98
1032220000	SCDV 3.81/26/90G 3.2SN OR BX	C.98
1032230000	SCDV 3.81/28/90G 3.2SN OR BX	C.98
1032240000	SCDV 3.81/30/90G 3.2SN OR BX	C.98
1032250000	SCDV 3.81/32/90G 3.2SN OR BX	C.98
1032430000	SCDV 3.81/04/90G 3.2SN BK BX	C.98
1032440000	SCDV 3.81/06/90G 3.2SN BK BX	C.98
1032450000	SCDV 3.81/08/90G 3.2SN BK BX	C.98
1032460000	SCDV 3.81/10/90G 3.2SN BK BX	C.98
1032470000	SCDV 3.81/12/90G 3.2SN BK BX	C.98
1032480000	SCDV 3.81/14/90G 3.2SN BK BX	C.98
1032490000	SCDV 3.81/16/90G 3.2SN BK BX	C.98
1032500000	SCDV 3.81/18/90G 3.2SN BK BX	C.98
1032510000	SCDV 3.81/20/90G 3.2SN BK BX	C.98
1032520000	SCDV 3.81/22/90G 3.2SN BK BX	C.98
1032530000	SCDV 3.81/24/90G 3.2SN BK BX	C.98

Order No.	Type	Page
1032540000	SCDV 3.81/26/90G 3.2SN BK BX	C.98
1032550000	SCDV 3.81/28/90G 3.2SN BK BX	C.98
1032560000	SCDV 3.81/30/90G 3.2SN BK BX	C.98
1032570000	SCDV 3.81/32/90G 3.2SN BK BX	C.98
1032580000	SCDV 3.81/04/90F 3.2SN OR BX	C.99
1032590000	SCDV 3.81/06/90F 3.2SN OR BX	C.99
1032600000	SCDV 3.81/08/90F 3.2SN OR BX	C.99
1032610000	SCDV 3.81/10/90F 3.2SN OR BX	C.99
1032620000	SCDV 3.81/12/90F 3.2SN OR BX	C.99
1032630000	SCDV 3.81/14/90F 3.2SN OR BX	C.99
1032640000	SCDV 3.81/16/90F 3.2SN OR BX	C.99
1032650000	SCDV 3.81/18/90F 3.2SN OR BX	C.99
1032660000	SCDV 3.81/20/90F 3.2SN OR BX	C.99
1032670000	SCDV 3.81/22/90F 3.2SN OR BX	C.99
1032680000	SCDV 3.81/24/90F 3.2SN OR BX	C.99
1032690000	SCDV 3.81/26/90F 3.2SN OR BX	C.99
1032710000	SCDV 3.81/28/90F 3.2SN OR BX	C.99
1032720000	SCDV 3.81/30/90F 3.2SN OR BX	C.99
1032730000	SCDV 3.81/32/90F 3.2SN OR BX	C.99
1032920000	SCDV 3.81/04/90F 3.2SN BK BX	C.99
1032930000	SCDV 3.81/06/90F 3.2SN BK BX	C.99
1032940000	SCDV 3.81/08/90F 3.2SN BK BX	C.99
1032950000	SCDV 3.81/10/90F 3.2SN BK BX	C.99
1032960000	SCDV 3.81/12/90F 3.2SN BK BX	C.99
1032970000	SCDV 3.81/14/90F 3.2SN BK BX	C.99
1032990000	SCDV 3.81/16/90F 3.2SN BK BX	C.99
1033010000	SCDV 3.81/18/90F 3.2SN BK BX	C.99
1033020000	SCDV 3.81/20/90F 3.2SN BK BX	C.99
1033030000	SCDV 3.81/22/90F 3.2SN BK BX	C.99
1033040000	SCDV 3.81/24/90F 3.2SN BK BX	C.99
1033050000	SCDV 3.81/26/90F 3.2SN BK BX	C.99
1033060000	SCDV 3.81/28/90F 3.2SN BK BX	C.99
1033070000	SCDV 3.81/30/90F 3.2SN BK BX	C.99
1033090000	SCDV 3.81/32/90F 3.2SN BK BX	C.99
1033490000	SCDV-THR 3.81/04/90G 3.2SN BK BX	C.80
1033510000	SCDV-THR 3.81/06/90G 3.2SN BK BX	C.80
1033520000	SCDV-THR 3.81/08/90G 3.2SN BK BX	C.80
1033530000	SCDV-THR 3.81/10/90G 3.2SN BK BX	C.80
1033540000	SCDV-THR 3.81/12/90G 3.2SN BK BX	C.80
1033550000	SCDV-THR 3.81/14/90G 3.2SN BK BX	C.80
1033560000	SCDV-THR 3.81/16/90G 3.2SN BK BX	C.80
1033570000	SCDV-THR 3.81/18/90G 3.2SN BK BX	C.80
1033580000	SCDV-THR 3.81/20/90G 3.2SN BK BX	C.80
1033590000	SCDV-THR 3.81/22/90G 3.2SN BK BX	C.80
1033600000	SCDV-THR 3.81/24/90G 3.2SN BK BX	C.80
1033610000	SCDV-THR 3.81/26/90G 3.2SN BK BX	C.80
1033620000	SCDV-THR 3.81/28/90G 3.2SN BK BX	C.80
1033630000	SCDV-THR 3.81/30/90G 3.2SN BK BX	C.80
1033640000	SCDV-THR 3.81/32/90G 3.2SN BK BX	C.80
1033820000	SCDV-THR 3.81/04/90G 1.5SN BK BX	C.80
1033830000	SCDV-THR 3.81/06/90G 1.5SN BK BX	C.80
1033840000	SCDV-THR 3.81/08/90G 1.5SN BK BX	C.80
1033850000	SCDV-THR 3.81/10/90G 1.5SN BK BX	C.80
1033860000	SCDV-THR 3.81/12/90G 1.5SN BK BX	C.80
1033870000	SCDV-THR 3.81/14/90G 1.5SN BK BX	C.80
1033880000	SCDV-THR 3.81/16/90G 1.5SN BK BX	C.80
1033890000	SCDV-THR 3.81/18/90G 1.5SN BK BX	C.80
1033900000	SCDV-THR 3.81/20/90G 1.5SN BK BX	C.80
1033910000	SCDV-THR 3.81/22/90G 1.5SN BK BX	C.80
1033920000	SCDV-THR 3.81/24/90G 1.5SN BK BX	C.80
1033930000	SCDV-THR 3.81/26/90G 1.5SN BK BX	C.80
1033940000	SCDV-THR 3.81/28/90G 1.5SN BK BX	C.80
1033950000	SCDV-THR 3.81/30/90G 1.5SN BK BX	C.80
1033960000	SCDV-THR 3.81/32/90G 1.5SN BK BX	C.80
1033970000	SCDV-THR 3.81/04/90F 3.2SN BK BX	C.81
1033980000	SCDV-THR 3.81/06/90F 3.2SN BK BX	C.81
1033990000	SCDV-THR 3.81/08/90F 3.2SN BK BX	C.81
1034010000	SCDV-THR 3.81/10/90F 3.2SN BK BX	C.81
1034020000	SCDV-THR 3.81/12/90F 3.2SN BK BX	C.81
1034030000	SCDV-THR 3.81/14/90F 3.2SN BK BX	C.81
1034040000	SCDV-THR 3.81/16/90F 3.2SN BK BX	C.81
1034050000	SCDV-THR 3.81/18/90F 3.2SN BK BX	C.81
1034060000	SCDV-THR 3.81/20/90F 3.2SN BK BX	C.81
1034070000	SCDV-THR 3.81/22/90F 3.2SN BK BX	C.81
1034080000	SCDV-THR 3.81/24/90F 3.2SN BK BX	C.81
1034090000	SCDV-THR 3.81/26/90F 3.2SN BK BX	C.81
1034110000	SCDV-THR 3.81/28/90F 3.2SN BK BX	C.81
1034120000	SCDV-THR 3.81/30/90F 3.2SN BK BX	C.81
1034130000	SCDV-THR 3.81/32/90F 3.2SN BK BX	C.81
1034310000	SCDV-THR 3.81/04/90F 1.5SN BK BX	C.81
1034320000	SCDV-THR 3.81/06/90F 1.5SN BK BX	C.81
1034330000	SCDV-THR 3.81/08/90F 1.5SN BK BX	C.81
1034340000	SCDV-THR 3.81/10/90F 1.5SN BK BX	C.81
1034350000	SCDV-THR 3.81/12/90F 1.5SN BK BX	C.81
1034360000	SCDV-THR 3.81/14/90F 1.5SN BK BX	C.81
1034370000	SCDV-THR 3.81/16/90F 1.5SN BK BX	C.81
1034380000	SCDV-THR 3.81/18/90F 1.5SN BK BX	C.81
1034390000	SCDV-THR 3.81/20/90F 1.5SN BK BX	C.81
1034410000	SCDV-THR 3.81/22/90F 1.5SN BK BX	C.81
1034420000	SCDV-THR 3.81/24/90F 1.5SN BK BX	C.81
1034430000	SCDV-THR 3.81/26/90F 1.5SN BK BX	C.81
1034440000	SCDV-THR 3.81/28/90F 1.5SN BK BX	C.81
1034450000	SCDV-THR 3.81/30/90F 1.5SN BK BX	C.81
1034460000	SCDV-THR 3.81/32/90F 1.5SN BK BX	C.81
1034470000	SCDV 3.81/04/180G 3.2SN OR BX	C.100
1034490000	SCDV 3.81/06/180G 3.2SN OR BX	C.100
1034510000	SCDV 3.81/08/180G 3.2SN OR BX	C.100
1034520000	SCDV 3.81/10/180G 3.2SN OR BX	C.100
1034530000	SCDV 3.81/12/180G 3.2SN OR BX	C.100

Order No.	Type	Page
1034540000	SCDV 3.81/14/180G 3.2SN OR BX	C.100
1034550000	SCDV 3.81/16/180G 3.2SN OR BX	C.100
1034560000	SCDV 3.81/18/180G 3.2SN OR BX	C.100
1034570000	SCDV 3.81/20/180G 3.2SN OR BX	C.100
1034580000	SCDV 3.81/22/180G 3.2SN OR BX	C.100
1034590000	SCDV 3.81/24/180G 3.2SN OR BX	C.100
1034610000	SCDV 3.81/26/180G 3.2SN OR BX	C.100
1034620000	SCDV 3.81/28/180G 3.2SN OR BX	C.100
1034630000	SCDV 3.81/30/180G 3.2SN OR BX	C.100
1034640000	SCDV 3.81/32/180G 3.2SN OR BX	C.100
1034820000	SCDV 3.81/04/180G 3.2SN BK BX	C.100
1034830000	SCDV 3.81/06/180G 3.2SN BK BX	C.100
1034840000	SCDV 3.81/08/180G 3.2SN BK BX	C.100
1034850000	SCDV 3.81/10/180G 3.2SN BK BX	C.100
1034860000	SCDV 3.81/12/180G 3.2SN BK BX	C.100
1034870000	SCDV 3.81/14/180G 3.2SN BK BX	C.100
1034880000	SCDV 3.81/16/180G 3.2SN BK BX	C.100
1034890000	SCDV 3.81/18/180G 3.2SN BK BX	C.100
1034910000	SCDV 3.81/20/180G 3.2SN BK BX	C.100
1034920000	SCDV 3.81/22/180G 3.2SN BK BX	C.100
1034930000	SCDV 3.81/24/180G 3.2SN BK BX	C.100
1034940000	SCDV 3.81/26/180G 3.2SN BK BX	C.100
1034950000	SCDV 3.81/28/180G 3.2SN BK BX	C.100
1034960000	SCDV 3.81/30/180G 3.2SN BK BX	C.100
1034970000	SCDV 3.81/32/180G 3.2SN BK BX	C.100
1034980000	SCDV 3.81/04/180F 3.2SN OR BX	C.101
1034990000	SCDV 3.81/06/180F 3.2SN OR BX	C.101
1035010000	SCDV 3.81/08/180F 3.2SN OR BX	C.101
1035020000	SCDV 3.81/10/180F 3.2SN OR BX	C.101
1035030000	SCDV 3.81/12/180F 3.2SN OR BX	C.101
1035040000	SCDV 3.81/14/180F 3.2SN OR BX	C.101
1035050000	SCDV 3.81/16/180F 3.2SN OR BX	C.101
1035060000	SCDV 3.81/18/180F 3.2SN OR BX	C.101
1035070000	SCDV 3.81/20/180F 3.2SN OR BX	C.101
1035080000	SCDV 3.81/22/180F 3.2SN OR BX	C.101
1035090000	SCDV 3.81/24/180F 3.2SN OR BX	C.101
1035110000	SCDV 3.81/26/180F 3.2SN OR BX	C.101
1035120000	SCDV 3.81/28/180F 3.2SN OR BX	C.101
1035130000	SCDV 3.81/30/180F 3.2SN OR BX	C.101
1035140000	SCDV 3.81/32/180F 3.2SN OR BX	C.101
1035310000	SCDV 3.81/04/180F 3.2SN BK BX	C.101
1035320000	SCDV 3.81/06/180F 3.2SN BK BX	C.101
1035330000	SCDV 3.81/08/180F 3.2SN BK BX	C.101
1035340000	SCDV 3.81/10/180F 3.2SN BK BX	C.101
1035350000	SCDV 3.81/12/180F 3.2SN BK BX	C.101
1035360000	SCDV 3.81/14/180F 3.2SN BK BX	C.101
1035370000	SCDV 3.81/16/180F 3.2SN BK BX	C.101
1035380000	SCDV 3.81/18/180F 3.2SN BK BX	C.101
1035390000	SCDV 3.81/20/180F 3.2SN BK BX	C.101
1035410000	SCDV 3.81/22/180F 3.2SN BK BX	C.101
1035420000	SCDV 3.81/24/180F 3.2SN BK BX	C.101
1035430000	SCDV 3.81/26/180F 3.2SN BK BX	C.101
1035440000	SCDV 3.81/28/180F 3.2SN BK BX	C.101
1035450000	SCDV 3.81/30/180F 3.2SN BK BX	C.101
1035460000	SCDV 3.81/32/180F 3.2SN BK BX	C.101
1035470000	SCDV-THR 3.81/04/180G 3.2SN BK BX	C.82
1035480000	SCDV-THR 3.81/06/180G 3.2SN BK BX	C.82
1035490000	SCDV-THR 3.81/08/180G 3.2SN BK BX	C.82
1035510000	SCDV-THR 3.81/10/180G 3.2SN BK BX	C.82
1035520000	SCDV-THR 3.81/12/180G 3.2SN BK BX	C.82
1035530000	SCDV-THR 3.81/14/180G 3.2SN BK BX	C.82
1035540000	SCDV-THR 3.81/16/180G 3.2SN BK BX	C.82
1035550000	SCDV-THR 3.81/18/180G 3.2SN BK BX	C.82
1035560000	SCDV-THR 3.81/20/180G 3.2SN BK BX	C.82
1035570000	SCDV-THR 3.81/22/180G 3.2SN BK BX	C.82
1035580000	SCDV-THR 3.81/24/180G 3.2SN BK BX	C.82
1035590000	SCDV-THR 3.81/26/180G 3.2SN BK BX	C.82
1035610000	SCDV-THR 3.81/28/180G 3.2SN BK BX	C.82
1035620000	SCDV-THR 3.81/30/180G 3.2SN BK BX	C.82
1035630000	SCDV-THR 3.81/32/180G 3.2SN BK BX	C.82
1035790000	SCDV-THR 3.81/04/180G 1.5SN BK BX	C.82
1035800000	SCDV-THR 3.81/06/180G 1.5SN BK BX	C.82
1035810000	SCDV-THR 3.81/08/180G 1.5SN BK BX	C.82
1035820000	SCDV-THR 3.81/10/180G 1.5SN BK BX	C.82
1035830000	SCDV-THR 3.81/12/180G 1.5SN BK BX	C.82
1035840000	SCDV-THR 3.81/14/180G 1.5SN BK BX	C.82
1035850000	SCDV-THR 3.81/16/180G 1.5SN BK BX	C.82
1035860000	SCDV-THR 3.81/18/180G 1.5SN BK BX	C.82
1035870000	SCDV-THR 3.81/20/180G 1.5SN BK BX	C.82
1035880000	SCDV-THR 3.81/22/180G 1.5SN BK BX	C.82
1035890000	SCDV-THR 3.81/24/180G 1.5SN BK BX	C.82
1035910000	SCDV-THR 3.81/26/180G 1.5SN BK BX	C.82
1035920000	SCDV-THR 3.81/28/180G 1.5SN BK BX	C.82
1035930000	SCDV-THR 3.81/30/180G 1.5SN BK BX	C.82
1035940000	SCDV-THR 3.81/32/180G 1.5SN BK BX	C.82
1035950000	SCDV-THR 3.81/04/180F 3.2SN BK BX	C.83
1035960000	SCDV-THR 3.81/06/180F 3.2SN BK BX	C.83
1035970000	SCDV-THR 3.81/08/180F 3.2SN BK BX	C.83
1035980000	SCDV-THR 3.81/10/180F 3.2SN BK BX	C.83
1035990000	SCDV-THR 3.81/12/180F 3.2SN BK BX	C.83
1036010000	SCDV-THR 3.81/14/180F 3.2SN BK BX	C.83
1036020000	SCDV-THR 3.81/16/180F 3.2SN BK BX	C.83
1036030000	SCDV-THR 3.81/18/180F 3.2SN BK BX	C.83
1036040000	SCDV-THR 3.81/20/180F 3.2SN BK BX	C.83
1036050000	SCDV-THR 3.81/22/180F 3.2SN BK BX	C.83
1036060000	SCDV-THR 3.81/24/180F 3.2SN BK BX	C.83
1036070000	SCDV-THR 3.81/26/180F 3.2SN BK BX	C.83
1036080000	SCDV-THR 3.81/28/180F 3.2SN BK BX	C.83
1036090000	SCDV-THR 3.81/30/180F 3.2SN BK BX	C.83

Order No.	Type	Page
1036110000	SCDV-THR 3.81/32/180F 3.2SN BK BX	C.83
1036320000	SCDV-THR 3.81/04/180F 1.5SN BK BX	C.83
1036330000	SCDV-THR 3.81/06/180F 1.5SN BK BX	C.83
1036340000	SCDV-THR 3.81/08/180F 1.5SN BK BX	C.83
1036350000	SCDV-THR 3.81/10/180F 1.5SN BK BX	C.83
1036360000	SCDV-THR 3.81/12/180F 1.5SN BK BX	C.83
1036370000	SCDV-THR 3.81/14/180F 1.5SN BK BX	C.83
1036380000	SCDV-THR 3.81/16/180F 1.5SN BK BX	C.83
1036390000	SCDV-THR 3.81/18/180F 1.5SN BK BX	C.83
1036410000	SCDV-THR 3.81/20/180F 1.5SN BK BX	C.83
1036420000	SCDV-THR 3.81/22/180F 1.5SN BK BX	C.83
1036430000	SCDV-THR 3.81/24/180F 1.5SN BK BX	C.83
1036440000	SCDV-THR 3.81/26/180F 1.5SN BK BX	C.83
1036450000	SCDV-THR 3.81/28/180F 1.5SN BK BX	C.83
1036460000	SCDV-THR 3.81/30/180F 1.5SN BK BX	C.83
1036470000	SCDV-THR 3.81/32/180F 1.5SN BK BX	C.83
1036480000	SC-SMT 3.81/02/270G 3.2SN BK BX	C.72
1036490000	SC-SMT 3.81/03/270G 3.2SN BK BX	C.72
1036510000	SC-SMT 3.81/04/270G 3.2SN BK BX	C.72
1036520000	SC-SMT 3.81/05/270G 3.2SN BK BX	C.72
1036530000	SC-SMT 3.81/06/270G 3.2SN BK BX	C.72
1036540000	SC-SMT 3.81/07/270G 3.2SN BK BX	C.72
1036550000	SC-SMT 3.81/08/270G 3.2SN BK BX	C.72
1036560000	SC-SMT 3.81/09/270G 3.2SN BK BX	C.72
1036570000	SC-SMT 3.81/10/270G 3.2SN BK BX	C.72
1036580000	SC-SMT 3.81/11/270G 3.2SN BK BX	C.72
1036590000	SC-SMT 3.81/12/270G 3.2SN BK BX	C.72
1036610000	SC-SMT 3.81/13/270G 3.2SN BK BX	C.72
1036620000	SC-SMT 3.81/14/270G 3.2SN BK BX	C.72
1036630000	SC-SMT 3.81/15/270G 3.2SN BK BX	C.72
1036640000	SC-SMT 3.81/16/270G 3.2SN BK BX	C.72
1036830000	SC-SMT 3.81/02/270G 1.5SN BK BX	C.72
1036840000	SC-SMT 3.81/03/270G 1.5SN BK BX	C.72
1036850000	SC-SMT 3.81/04/270G 1.5SN BK BX	C.72
1036860000	SC-SMT 3.81/05/270G 1.5SN BK BX	C.72
1036870000	SC-SMT 3.81/06/270G 1.5SN BK BX	C.72
1036880000	SC-SMT 3.81/07/270G 1.5SN BK BX	C.72
1036890000	SC-SMT 3.81/08/270G 1.5SN BK BX	C.72
1036910000	SC-SMT 3.81/09/270G 1.5SN BK BX	C.72
1036920000	SC-SMT 3.81/10/270G 1.5SN BK BX	C.72
1036930000	SC-SMT 3.81/11/270G 1.5SN BK BX	C.72
1036940000	SC-SMT 3.81/12/270G 1.5SN BK BX	C.72
1036950000	SC-SMT 3.81/13/270G 1.5SN BK BX	C.72
1036960000	SC-SMT 3.81/14/270G 1.5SN BK BX	C.72
1036970000	SC-SMT 3.81/15/270G 1.5SN BK BX	C.72
1036980000	SC-SMT 3.81/16/270G 1.5SN BK BX	C.72
1036990000	SC-SMT 3.81/02/270F 3.2SN BK BX	C.73
1037010000	SC-SMT 3.81/03/270F 3.2SN BK BX	C.73
1037020000	SC-SMT 3.81/04/270F 3.2SN BK BX	C.73
1037030000	SC-SMT 3.81/05/270F 3.2SN BK BX	C.73
1037040000	SC-SMT 3.81/06/270F 3.2SN BK BX	C.73
1037050000	SC-SMT 3.81/07/270F 3.2SN BK BX	C.73
1037060000	SC-SMT 3.81/08/270F 3.2SN BK BX	C.73
1037070000	SC-SMT 3.81/09/270F 3.2SN BK BX	C.73
1037080000	SC-SMT 3.81/10/270F 3.2SN BK BX	C.73
1037090000	SC-SMT 3.81/11/270F 3.2SN BK BX	C.73
1037110000	SC-SMT 3.81/12/270F 3.2SN BK BX	C.73
1037120000	SC-SMT 3.81/13/270F 3.2SN BK BX	C.73
1037130000	SC-SMT 3.81/14/270F 3.2SN BK BX	C.73
1037140000	SC-SMT 3.81/15/270F 3.2SN BK BX	C.73
1037150000	SC-SMT 3.81/16/270F 3.2SN BK BX	C.73
1037330000	SC-SMT 3.81/02/270F 1.5SN BK BX	C.73
1037340000	SC-SMT 3.81/03/270F 1.5SN BK BX	C.73
1037350000	SC-SMT 3.81/04/270F 1.5SN BK BX	C.73
1037360000	SC-SMT 3.81/05/270F 1.5SN BK BX	C.73
1037370000	SC-SMT 3.81/06/270F 1.5SN BK BX	C.73
1037380000	SC-SMT 3.81/07/270F 1.5SN BK BX	C.73
1037390000	SC-SMT 3.81/08/270F 1.5SN BK BX	C.73
1037400000	SC-SMT 3.81/09/270F 1.5SN BK BX	C.73
1037410000	SC-SMT 3.81/10/270F 1.5SN BK BX	C.73
1037420000	SC-SMT 3.81/11/270F 1.5SN BK BX	C.73
1037440000	SC-SMT 3.81/12/270F 1.5SN BK BX	C.73
1037450000	SC-SMT 3.81/13/270F 1.5SN BK BX	C.73
1037460000	SC-SMT 3.81/14/270F 1.5SN BK BX	C.73
1037470000	SC-SMT 3.81/15/270F 1.5SN BK BX	C.73
1037480000	SC-SMT 3.81/16/270F 1.5SN BK BX	C.73
1037490000	SC 3.81/02/270G 3.2SN OR BX	C.90
1037510000	SC 3.81/03/270G 3.2SN OR BX	C.90
1037520000	SC 3.81/04/270G 3.2SN OR BX	C.90
1037530000	SC 3.81/05/270G 3.2SN OR BX	C.90
1037540000	SC 3.81/06/270G 3.2SN OR BX	C.90
1037550000	SC 3.81/07/270G 3.2SN OR BX	C.90
1037560000	SC 3.81/08/270G 3.2SN OR BX	C.90
1037570000	SC 3.81/09/270G 3.2SN OR BX	C.90
1037580000	SC 3.81/10/270G 3.2SN OR BX	C.90
1037590000	SC 3.81/11/270G 3.2SN OR BX	C.90
1037610000	SC 3.81/12/270G 3.2SN OR BX	C.90
1037620000	SC 3.81/13/270G 3.2SN OR BX	C.90
1037630000	SC 3.81/14/270G 3.2SN OR BX	C.90
1037640000	SC 3.81/15/270G 3.2SN OR BX	C.90
1037650000	SC 3.81/16/270G 3.2SN OR BX	C.90
1037870000	SC 3.81/02/270G 3.2SN BK BX	C.90
1037880000	SC 3.81/03/270G 3.2SN BK BX	C.90
1037890000	SC 3.81/04/270G 3.2SN BK BX	C.90
1037910000	SC 3.81/05/270G 3.2SN BK BX	C.90
1037920000	SC 3.81/06/270G 3.2SN BK BX	C.90
1037930000	SC 3.81/07/270G 3.2SN BK BX	C.90
1037940000	SC 3.81/08/270G 3.2SN BK BX	C.90
1037950000	SC 3.81/09/270G 3.2SN BK BX	C.90

X

Order No.	Type	Page
1037960000	SC 3.81/10/270G 3.2SN BK BX	C.90
1037970000	SC 3.81/11/270G 3.2SN BK BX	C.90
1037980000	SC 3.81/12/270G 3.2SN BK BX	C.90
1037990000	SC 3.81/13/270G 3.2SN BK BX	C.90
1038010000	SC 3.81/14/270G 3.2SN BK BX	C.90
1038020000	SC 3.81/15/270G 3.2SN BK BX	C.90
1038040000	SC 3.81/02/270F 3.2SN OR BX	C.91
1038050000	SC 3.81/03/270F 3.2SN OR BX	C.91
1038060000	SC 3.81/04/270F 3.2SN OR BX	C.91
1038070000	SC 3.81/05/270F 3.2SN OR BX	C.91
1038080000	SC 3.81/06/270F 3.2SN OR BX	C.91
1038090000	SC 3.81/07/270F 3.2SN OR BX	C.91
1038110000	SC 3.81/08/270F 3.2SN OR BX	C.91
1038130000	SC 3.81/09/270F 3.2SN OR BX	C.91
1038140000	SC 3.81/10/270F 3.2SN OR BX	C.91
1038150000	SC 3.81/11/270F 3.2SN OR BX	C.91
1038160000	SC 3.81/12/270F 3.2SN OR BX	C.91
1038170000	SC 3.81/13/270F 3.2SN OR BX	C.91
1038180000	SC 3.81/14/270F 3.2SN OR BX	C.91
1038190000	SC 3.81/15/270F 3.2SN OR BX	C.91
1038210000	SC 3.81/16/270F 3.2SN OR BX	C.91
1038410000	SC 3.81/02/270F 3.2SN BK BX	C.91
1038420000	SC 3.81/03/270F 3.2SN BK BX	C.91
1038430000	SC 3.81/04/270F 3.2SN BK BX	C.91
1038440000	SC 3.81/05/270F 3.2SN BK BX	C.91
1038450000	SC 3.81/06/270F 3.2SN BK BX	C.91
1038460000	SC 3.81/07/270F 3.2SN BK BX	C.91
1038470000	SC 3.81/08/270F 3.2SN BK BX	C.91
1038480000	SC 3.81/09/270F 3.2SN BK BX	C.91
1038490000	SC 3.81/10/270F 3.2SN BK BX	C.91
1038510000	SC 3.81/11/270F 3.2SN BK BX	C.91
1038520000	SC 3.81/12/270F 3.2SN BK BX	C.91
1038530000	SC 3.81/13/270F 3.2SN BK BX	C.91
1038540000	SC 3.81/14/270F 3.2SN BK BX	C.91
1038550000	SC 3.81/15/270F 3.2SN BK BX	C.91
1038560000	SC 3.81/16/270F 3.2SN BK BX	C.91
1038950000	SCDN-THR 3.81/04/90G 3.2SN BK BX	C.78
1038960000	SCDN-THR 3.81/06/90G 3.2SN BK BX	C.78
1038970000	SCDN-THR 3.81/08/90G 3.2SN BK BX	C.78
1038980000	SCDN-THR 3.81/10/90G 3.2SN BK BX	C.78
1038990000	SCDN-THR 3.81/12/90G 3.2SN BK BX	C.78
1039010000	SCDN-THR 3.81/14/90G 3.2SN BK BX	C.78
1039020000	SCDN-THR 3.81/16/90G 3.2SN BK BX	C.78
1039030000	SCDN-THR 3.81/18/90G 3.2SN BK BX	C.78
1039040000	SCDN-THR 3.81/20/90G 3.2SN BK BX	C.78
1039050000	SCDN-THR 3.81/22/90G 3.2SN BK BX	C.78
1039060000	SCDN-THR 3.81/24/90G 3.2SN BK BX	C.78
1039070000	SCDN-THR 3.81/26/90G 3.2SN BK BX	C.78
1039080000	SCDN-THR 3.81/28/90G 3.2SN BK BX	C.78
1039090000	SCDN-THR 3.81/30/90G 3.2SN BK BX	C.78
1039100000	SCDN-THR 3.81/32/90G 3.2SN BK BX	C.78
1039270000	SCDN-THR 3.81/04/90G 1.5SN BK BX	C.78
1039280000	SCDN-THR 3.81/06/90G 1.5SN BK BX	C.78
1039290000	SCDN-THR 3.81/08/90G 1.5SN BK BX	C.78
1039300000	SCDN-THR 3.81/10/90G 1.5SN BK BX	C.78
1039310000	SCDN-THR 3.81/12/90G 1.5SN BK BX	C.78
1039320000	SCDN-THR 3.81/14/90G 1.5SN BK BX	C.78
1039330000	SCDN-THR 3.81/16/90G 1.5SN BK BX	C.78
1039340000	SCDN-THR 3.81/18/90G 1.5SN BK BX	C.78
1039350000	SCDN-THR 3.81/20/90G 1.5SN BK BX	C.78
1039370000	SCDN-THR 3.81/22/90G 1.5SN BK BX	C.78
1039380000	SCDN-THR 3.81/24/90G 1.5SN BK BX	C.78
1039390000	SCDN-THR 3.81/26/90G 1.5SN BK BX	C.78
1039410000	SCDN-THR 3.81/28/90G 1.5SN BK BX	C.78
1039420000	SCDN-THR 3.81/30/90G 1.5SN BK BX	C.78
1039430000	SCDN-THR 3.81/32/90G 1.5SN BK BX	C.78
1039440000	SCDN-THR 3.81/04/90F 3.2SN BK BX	C.79
1039450000	SCDN-THR 3.81/06/90F 3.2SN BK BX	C.79
1039460000	SCDN-THR 3.81/08/90F 3.2SN BK BX	C.79
1039520000	SCDN-THR 3.81/10/90F 3.2SN BK BX	C.79
1039530000	SCDN-THR 3.81/12/90F 3.2SN BK BX	C.79
1039540000	SCDN-THR 3.81/14/90F 3.2SN BK BX	C.79
1039550000	SCDN-THR 3.81/16/90F 3.2SN BK BX	C.79
1039560000	SCDN-THR 3.81/18/90F 3.2SN BK BX	C.79
1039570000	SCDN-THR 3.81/20/90F 3.2SN BK BX	C.79
1039580000	SCDN-THR 3.81/22/90F 3.2SN BK BX	C.79
1039590000	SCDN-THR 3.81/24/90F 3.2SN BK BX	C.79
1039610000	SCDN-THR 3.81/26/90F 3.2SN BK BX	C.79
1039720000	SCDN-THR 3.81/28/90F 3.2SN BK BX	C.79
1039730000	SCDN-THR 3.81/30/90F 3.2SN BK BX	C.79
1039740000	SCDN-THR 3.81/32/90F 3.2SN BK BX	C.79

1040000000

1040070000	SCDN-THR 3.81/04/90F 1.5SN BK BX	C.79
1040090000	SCDN-THR 3.81/06/90F 1.5SN BK BX	C.79
1040140000	SCDN-THR 3.81/08/90F 1.5SN BK BX	C.79
1040150000	SCDN-THR 3.81/10/90F 1.5SN BK BX	C.79
1040170000	SCDN-THR 3.81/12/90F 1.5SN BK BX	C.79
1040190000	SCDN-THR 3.81/14/90F 1.5SN BK BX	C.79
1040230000	SCDN-THR 3.81/16/90F 1.5SN BK BX	C.79
1040250000	SCDN-THR 3.81/18/90F 1.5SN BK BX	C.79
1040260000	SCDN-THR 3.81/20/90F 1.5SN BK BX	C.79
1040270000	SCDN-THR 3.81/22/90F 1.5SN BK BX	C.79
1040280000	SCDN-THR 3.81/24/90F 1.5SN BK BX	C.79
1040290000	SCDN-THR 3.81/26/90F 1.5SN BK BX	C.79
1040300000	SCDN-THR 3.81/28/90F 1.5SN BK BX	C.79
1040380000	SCDN-THR 3.81/30/90F 1.5SN BK BX	C.79
1040390000	SCDN-THR 3.81/32/90F 1.5SN BK BX	C.79

Order No.	Type	Page
1040410000	SCDN 3.81/04/90G 3.2SN OR BX	C.96
1040420000	SCDN 3.81/06/90G 3.2SN OR BX	C.96
1040430000	SCDN 3.81/08/90G 3.2SN OR BX	C.96
1040440000	SCDN 3.81/10/90G 3.2SN OR BX	C.96
1040450000	SCDN 3.81/12/90G 3.2SN OR BX	C.96
1040460000	SCDN 3.81/14/90G 3.2SN OR BX	C.96
1040470000	SCDN 3.81/16/90G 3.2SN OR BX	C.96
1040490000	SCDN 3.81/18/90G 3.2SN OR BX	C.96
1040510000	SCDN 3.81/20/90G 3.2SN OR BX	C.96
1040520000	SCDN 3.81/22/90G 3.2SN OR BX	C.96
1040530000	SCDN 3.81/24/90G 3.2SN OR BX	C.96
1040540000	SCDN 3.81/26/90G 3.2SN OR BX	C.96
1040550000	SCDN 3.81/28/90G 3.2SN OR BX	C.96
1040560000	SCDN 3.81/30/90G 3.2SN OR BX	C.96
1040570000	SCDN 3.81/32/90G 3.2SN OR BX	C.96
1040790000	SCDN 3.81/04/90G 3.2SN BK BX	C.96
1040810000	SCDN 3.81/06/90G 3.2SN BK BX	C.96
1040820000	SCDN 3.81/08/90G 3.2SN BK BX	C.96
1040830000	SCDN 3.81/10/90G 3.2SN BK BX	C.96
1040840000	SCDN 3.81/12/90G 3.2SN BK BX	C.96
1040850000	SCDN 3.81/14/90G 3.2SN BK BX	C.96
1040860000	SCDN 3.81/16/90G 3.2SN BK BX	C.96
1040870000	SCDN 3.81/18/90G 3.2SN BK BX	C.96
1040890000	SCDN 3.81/20/90G 3.2SN BK BX	C.96
1040900000	SCDN 3.81/22/90G 3.2SN BK BX	C.96
1040910000	SCDN 3.81/24/90G 3.2SN BK BX	C.96
1040920000	SCDN 3.81/26/90G 3.2SN BK BX	C.96
1040930000	SCDN 3.81/28/90G 3.2SN BK BX	C.96
1040940000	SCDN 3.81/30/90G 3.2SN BK BX	C.96
1040950000	SCDN 3.81/32/90G 3.2SN BK BX	C.96
1040960000	SCDN 3.81/04/90F 3.2 SN OR BX	C.97
1040970000	SCDN 3.81/06/90F 3.2SN OR BX	C.97
1040980000	SCDN 3.81/08/90F 3.2SN OR BX	C.97
1040990000	SCDN 3.81/10/90F 3.2SN OR BX	C.97
1041000000	SCDN 3.81/12/90F 3.2SN OR BX	C.97
1041010000	SCDN 3.81/14/90F 3.2SN OR BX	C.97
1041020000	SCDN 3.81/16/90F 3.2SN OR BX	C.97
1041030000	SCDN 3.81/18/90F 3.2SN OR BX	C.97
1041040000	SCDN 3.81/20/90F 3.2SN OR BX	C.97
1041050000	SCDN 3.81/22/90F 3.2SN OR BX	C.97
1041060000	SCDN 3.81/24/90F 3.2SN OR BX	C.97
1041070000	SCDN 3.81/26/90F 3.2SN OR BX	C.97
1041080000	SCDN 3.81/28/90F 3.2SN OR BX	C.97
1041090000	SCDN 3.81/30/90F 3.2SN OR BX	C.97
1041110000	SCDN 3.81/32/90F 3.2SN OR BX	C.97
1041290000	SCDN 3.81/04/90F 3.2SN BK BX	C.97
1041310000	SCDN 3.81/06/90F 3.2SN BK BX	C.97
1041320000	SCDN 3.81/08/90F 3.2SN BK BX	C.97
1041330000	SCDN 3.81/10/90F 3.2SN BK BX	C.97
1041340000	SCDN 3.81/12/90F 3.2SN BK BX	C.97
1041350000	SCDN 3.81/14/90F 3.2SN BK BX	C.97
1041360000	SCDN 3.81/16/90F 3.2SN BK BX	C.97
1041370000	SCDN 3.81/18/90F 3.2SN BK BX	C.97
1041380000	SCDN 3.81/20/90F 3.2SN BK BX	C.97
1041390000	SCDN 3.81/22/90F 3.2SN BK BX	C.97
1041430000	SCDN 3.81/24/90F 3.2SN BK BX	C.97
1041450000	SCDN 3.81/26/90F 3.2SN BK BX	C.97
1041460000	SCDN 3.81/28/90F 3.2SN BK BX	C.97
1041470000	SCDN 3.81/30/90F 3.2SN BK BX	C.97
1041480000	SCDN 3.81/32/90F 3.2SN BK BX	C.97
1043230000	BLL 7.62HP/02/90 3.2SN BK BX	F.20
1043240000	BLL 7.62HP/03/90 3.2SN BK BX	F.20
1043250000	BLL 7.62HP/04/90 3.2SN BK BX	F.20
1043260000	BLL 7.62HP/05/90 3.2SN BK BX	F.20
1043270000	BLL 7.62HP/02/90F 3.2SN BK BX	F.21
1043280000	BLL 7.62HP/03/90F 3.2SN BK BX	F.21
1043290000	BLL 7.62HP/04/90F 3.2SN BK BX	F.21
1043300000	BLL 7.62HP/05/90F 3.2SN BK BX	F.21
1043350000	SLZ 7.62HP/02/180G SN BK BX	F.12
1043360000	SLZ 7.62HP/03/180G SN BK BX	F.12
1043370000	SLZ 7.62HP/04/180G SN BK BX	F.12
1043380000	SLZ 7.62HP/05/180G SN BK BX	F.12
1043430000	SLZ 7.62HP/02/180F SN BK BX	F.13
1043440000	SLZ 7.62HP/03/180F SN BK BX	F.13
1043450000	SLZ 7.62HP/04/180F SN BK BX	F.13
1043460000	SLZ 7.62HP/05/180F SN BK BX	F.13
1043510000	SLZ 7.62HP/02/180LR SN BK BX	F.13
1043520000	SLZ 7.62HP/03/180LR SN BK BX	F.13
1043530000	SLZ 7.62HP/04/180LR SN BK BX	F.13
1043540000	SLZ 7.62HP/05/180LR SN BK BX	F.13
1043590000	SLF 7.62HP/02/180G SN BK BX	F.14
1043600000	SLF 7.62HP/03/180G SN BK BX	F.14
1043610000	SLF 7.62HP/04/180G SN BK BX	F.14
1043620000	SLF 7.62HP/05/180G SN BK BX	F.14
1043670000	SLF 7.62HP/02/180F SN BK BX	F.15
1043680000	SLF 7.62HP/03/180F SN BK BX	F.15
1043690000	SLF 7.62HP/04/180F SN BK BX	F.15
1043700000	SLF 7.62HP/05/180F SN BK BX	F.15
1043750000	SLF 7.62HP/02/180LR SN BK BX	F.15
1043760000	SLF 7.62HP/03/180LR SN BK BX	F.15
1043770000	SLF 7.62HP/04/180LR SN BK BX	F.15
1043780000	SLF 7.62HP/05/180LR SN BK BX	F.15
1043830000	BLF 7.62HP/02/180 SN BK BX	F.18
1043840000	BLF 7.62HP/03/180 SN BK BX	F.18
1043850000	BLF 7.62HP/04/180 SN BK BX	F.18
1043860000	BLF 7.62HP/05/180 SN BK BX	F.18
1043910000	BLF 7.62HP/02/180F SN BK BX	F.19
1043920000	BLF 7.62HP/03/180F SN BK BX	F.19
1043930000	BLF 7.62HP/04/180F SN BK BX	F.19

Order No.	Type	Page
1043940000	BLF 7.62HP/05/180F SN BK BX	F.19
1043990000	BLF 7.62HP/02/180LR SN BK BX	F.19
1044000000	BLF 7.62HP/03/180LR SN BK BX	F.19
1044010000	BLF 7.62HP/04/180LR SN BK BX	F.19
1044020000	BLF 7.62HP/05/180LR SN BK BX	F.19
1047120000	LXXX 15.00/01/90 4.5SN BK BX	E.12
1047130000	LXXX 15.00/02/90 4.5SN BK BX	E.12
1047140000	LXXX 15.00/03/90 4.5SN BK BX	E.12
1047150000	LXXX 15.00/04/90 4.5SN BK BX	E.12
1047280000	LXXX 15.00/01/90F 4.5SN BK BX	E.13
1047290000	LXXX 15.00/02/90F 4.5SN BK BX	E.13
1047300000	LXXX 15.00/03/90F 4.5SN BK BX	E.13
1047310000	LXXX 15.00/04/90F 4.5SN BK BX	E.13
1047440000	LXXX 15.00/01/90FL 4.5SN BK BX	E.13
1047450000	LXXX 15.00/02/90FL 4.5SN BK BX	E.13
1047460000	LXXX 15.00/03/90FL 4.5SN BK BX	E.13
1047470000	LXXX 15.00/04/90FL 4.5SN BK BX	E.13
1047600000	LXXX 15.00/01/90FR 4.5SN BK BX	E.13
1047610000	LXXX 15.00/02/90FR 4.5SN BK BX	E.13
1047620000	LXXX 15.00/03/90FR 4.5SN BK BX	E.13
1047630000	LXXX 15.00/04/90FR 4.5SN BK BX	E.13
1048350000	SV 7.62HP/02/180MF 3.5SN BK BX	F.32
1048370000	SV 7.62HP/02/270MF 3.5SN BK BX	F.36
1048390000	SV 7.62HP/02/90MF 3.5SN BK BX	F.29
1048410000	SV 7.62HP/03/180MF2 3.5SN BK BX	F.32
1048420000	SV 7.62HP/03/180MF3 3.5SN BK BX	F.33
1048450000	SV 7.62HP/03/270MF2 3.5SN BK BX	F.36
1048460000	SV 7.62HP/03/270MF3 3.5SN BK BX	F.37
1048490000	SV 7.62HP/03/90MF2 3.5SN BK BX	F.29
1048500000	SV 7.62HP/03/90MF3 3.5SN BK BX	F.29
1048530000	SV 7.62HP/04/180MF 3.5SN BK BX	F.33
1048550000	SV 7.62HP/04/270MF 3.5SN BK BX	F.37
1048570000	SV 7.62HP/04/90MF 3.5SN BK BX	F.29
1048590000	SV 7.62HP/05/180MF3 3.5SN BK BX	F.33
1048600000	SV 7.62HP/05/180MF4 3.5SN BK BX	F.33
1048640000	SV 7.62HP/05/270MF3 3.5SN BK BX	F.37
1048650000	SV 7.62HP/05/270MF4 3.5SN BK BX	F.37
1048680000	SV 7.62HP/05/90MF3 3.5SN BK BX	F.29
1048690000	SV 7.62HP/05/90MF4 3.5SN BK BX	F.29
1048720000	SV 7.62HP/06/180MF 3.5SN BK BX	F.33
1048740000	SV 7.62HP/06/270MF 3.5SN BK BX	F.37
1048760000	SV 7.62HP/06/90MF 3.5SN BK BX	F.29
1048980000	SL 7.62HP/05/180G 3.2SN BK BX	F.10
1048990000	SL 7.62HP/06/180G 3.2SN BK BX	F.10
1049000000	SL 7.62HP/08/180G 3.2SN BK BX	F.10
1049010000	BLZ 7.62HP/05/180 SN BK BX	F.16
1049020000	BLZ 7.62HP/06/180 SN BK BX	F.16
1049030000	BLZ 7.62HP/08/180 SN BK BX	F.16

1050000000

1059420000	BLDF 5.08/04/180F SN OR BX	C.247
1059490000	SL 7.62HP/06/90G 3.2SN BK BX	F.8
1059500000	SL 7.62HP/07/90G 3.2SN BK BX	F.8
1059510000	SL 7.62HP/08/90G 3.2SN BK BX	F.8
1059520000	SL 7.62HP/09/90G 3.2SN BK BX	F.8
1059530000	SL 7.62HP/10/90G 3.2SN BK BX	F.8
1059550000	SL 7.62HP/11/90G 3.2SN BK BX	F.8
1059570000	SL 7.62HP/12/90G 3.2SN BK BX	F.8
1059580000	BLZ 7.62HP/02/180 SN BK BX	F.16
1059590000	BLZ 7.62HP/03/180 SN BK BX	F.16
1059600000	BLZ 7.62HP/04/180 SN BK BX	F.16
1059610000	BLZ 7.62HP/07/180 SN BK BX	F.16
1059620000	BLZ 7.62HP/09/180 SN BK BX	F.16
1059630000	BLZ 7.62HP/10/180 SN BK BX	F.16
1059640000	BLZ 7.62HP/11/180 SN BK BX	F.16
1059670000	BLZ 7.62HP/12/180 SN BK BX	F.16

1060000000

1060390000	BVF 7.62HP/02/180 SN BK BX	F.64
1060400000	BVF 7.62HP/03/180 SN BK BX	F.64
1060410000	BVF 7.62HP/04/180 SN BK BX	F.64
1060420000	BVF 7.62HP/05/180 SN BK BX	F.64
1060440000	BVF 7.62HP/02/180F SN BK BX	F.65
1060450000	BVF 7.62HP/03/180F SN BK BX	F.65
1060470000	BVF 7.62HP/04/180F SN BK BX	F.65
1060480000	BVF 7.62HP/05/180F SN BK BX	F.65
1060490000	BVF 7.62HP/06/180F SN BK BX	F.65
1060500000	BVF 7.62HP/02/180SF SN BK BX	F.65
1060510000	BVF 7.62HP/03/180SF SN BK BX	F.65
1060520000	BVF 7.62HP/04/180SF SN BK BX	F.65
1060530000	BVF 7.62HP/05/180SF SN BK BX	F.65
1060540000	BVF 7.62HP/06/180SF SN BK BX	F.65
1060550000	BVF 7.62HP/02/180MF SN BK BX	F.66
1060570000	BVF 7.62HP/03/180MF2 SN BK BX	F.66
1060580000	BVF 7.62HP/03/180MF3 SN BK BX	F.67
1060590000	BVF 7.62HP/04/180MF SN BK BX	F.67
1060600000	BVF 7.62HP/05/180MF3 SN BK BX	F.67
1060610000	BVF 7.62HP/05/180MF4 SN BK BX	F.67
1060630000	BVF 7.62HP/02/180MSF SN BK BX	F.68
1060640000	BVF 7.62HP/03/180MSF2 SN BK BX	F.68
1060650000	BVF 7.62HP/03/180MSF3 SN BK BX	F.69
1060670000	BVF 7.62HP/04/180MSF SN BK BX	F.69
1060680000	BVF 7.62HP/05/180MSF3 SN BK BX	F.69
1060690000	BVF 7.62HP/05/180MSF4 SN BK BX	F.69
1060780000	SL-SMT 3.50/10/90RF 1.5SN BK BX	C.29
1060810000	SL-SMT 3.50/03/90RF 1.5SN BK BX	C.29
1060820000	SL-SMT 3.50/16/90RF 1.5SN BK BX	C.29

Order No.	Type	Page
1060830000	SVF 7.62HP/02/180G SN BK BX	F.50
1060840000	SVF 7.62HP/03/180G SN BK BX	F.50
1060850000	SVF 7.62HP/04/180G SN BK BX	F.50
1060870000	SVF 7.62HP/05/180G SN BK BX	F.50
1060880000	SVF 7.62HP/06/180G SN BK BX	F.50
1060900000	SVF 7.62HP/02/180F SN BK BX	F.51
1060910000	SVF 7.62HP/03/180F SN BK BX	F.51
1060920000	SVF 7.62HP/04/180F SN BK BX	F.51
1060930000	SVF 7.62HP/05/180F SN BK BX	F.51
1060950000	SVF 7.62HP/02/180SF SN BK BX	F.51
1060970000	SVF 7.62HP/03/180SF SN BK BX	F.51
1060980000	SVF 7.62HP/04/180SF SN BK BX	F.51
1061000000	SVF 7.62HP/05/180SF SN BK BX	F.51
1061020000	SVF 7.62HP/02/180MF SN BK BX	F.54
1061030000	SVF 7.62HP/03/180MF2 SN BK BX	F.54
1061040000	SVF 7.62HP/03/180MF3 SN BK BX	F.55
1061050000	SVF 7.62HP/04/180MF SN BK BX	F.55
1061070000	SVF 7.62HP/05/180MF3 SN BK BX	F.55
1061080000	SVF 7.62HP/05/180MF4 SN BK BX	F.55
1061110000	SVF 7.62HP/02/180MSF SN BK BX	F.56
1061120000	SVF 7.62HP/03/180MSF2 SN BK BX	F.56
1061130000	SVF 7.62HP/03/180MSF3 SN BK BX	F.57
1061140000	SVF 7.62HP/04/180MSF SN BK BX	F.57
1061150000	SVF 7.62HP/05/180MSF3 SN BK BX	F.57
1061170000	SVF 7.62HP/05/180MSF4 SN BK BX	F.57
1063140000	SHL-SMT 5.00/03GR 1.5BX	I.21
1063150000	SHL-SMT 5.00/04GR 1.5BX	I.23
1063170000	SHL-SMT 5.00/03GR 1.5RL	I.21
1063180000	SHL-SMT 5.00/04GR 1.5RL	I.23
1063210000	SHL-SMT 5.00/03GL 1.5BX	I.21
1063220000	SHL-SMT 5.00/04GL 1.5BX	I.23
1063240000	SHL-SMT 5.00/03GL 1.5RL	I.21
1063250000	SHL-SMT 5.00/04GL 1.5RL	I.23
1063260000	BHZ 5.00/02/90LH BK/OR	I.19
1063270000	BHZ 5.00/03/90LH BK/OR	I.21
1063280000	BHZ 5.00/04/90LH BK/OR	I.23
1065080000	BLDF 5.08/05/180F SN OR BX	C.247
1065090000	BLDF 5.08/06/180F SN OR BX	C.247
1065110000	BLDF 5.08/07/180F SN OR BX	C.247
1065120000	BLDF 5.08/08/180F SN OR BX	C.247
1065130000	BLDF 5.08/02/180LR SN OR BX	C.247
1065140000	BLDF 5.08/03/180LR SN OR BX	C.247
1065150000	BLDF 5.08/04/180LR SN OR BX	C.247
1065160000	BLDF 5.08/05/180LR SN OR BX	C.247
1065170000	BLDF 5.08/06/180LR SN OR BX	C.247
1065180000	BLDF 5.08/07/180LR SN OR BX	C.247
1065190000	BLDF 5.08/08/180LR SN OR BX	C.247
1068510000	BLZP 5.08/16/90LR SN BK BX	C.221
1069330000	BHZ 5.00/02/90LH BK/BK	I.19
1069340000	BHZ 5.00/03/90LH BK/BK	I.21
1069350000	BHZ 5.00/04/90LH BK/BK	I.23
1069360000	BHZ 5.00/02/90LH BK/BL	I.19
1069370000	BHZ 5.00/03/90LH BK/BL	I.21
1069380000	BHZ 5.00/04/90LH BK/BL	I.23
1069550000	SHL-SMT 5.00/02GR 1.5BX	I.19
1069560000	SHL-SMT 5.00/03GR 4.2BX	I.21
1069570000	SHL-SMT 5.00/04GR 4.2BX	I.23
1069580000	SHL-SMT 5.00/02GR 4.2RL	I.19
1069590000	SHL-SMT 5.00/03GR 4.2RL	I.21
1069610000	SHL-SMT 5.00/04GR 4.2RL	I.23
1069620000	SHL-SMT 5.00/02GL 1.5BX	I.19
1069630000	SHL-SMT 5.00/03GL 4.2BX	I.21
1069640000	SHL-SMT 5.00/04GL 4.2BX	I.23
1069650000	SHL-SMT 5.00/02GL 4.2RL	I.19
1069660000	SHL-SMT 5.00/03GL 4.2RL	I.21
1069670000	SHL-SMT 5.00/04GL 4.2RL	I.23
1069680000	SHL-SMT 5.00/02GR 3.2BX	I.19
1069690000	SHL-SMT 5.00/03GR 5.9BX	I.21
1069710000	SHL-SMT 5.00/04GR 5.9BX	I.23
1069720000	SHL-SMT 5.00/02GR 5.9RL	I.19
1069730000	SHL-SMT 5.00/03GR 5.9RL	I.21
1069740000	SHL-SMT 5.00/04GR 5.9RL	I.23
1069750000	SHL-SMT 5.00/02GL 3.2BX	I.19
1069760000	SHL-SMT 5.00/03GL 5.9BX	I.21
1069770000	SHL-SMT 5.00/04GL 5.9BX	I.23
1069780000	SHL-SMT 5.00/02GL 5.9RL	I.19
1069790000	SHL-SMT 5.00/03GL 5.9RL	I.21
1069810000	SHL-SMT 5.00/04GL 5.9RL	I.23

1070000000

1071710000	SCZ 3.81/05/180GZE SN BK BX	C.104
1071720000	SCZ 3.81/06/180GZE SN BK BX	C.104
1071730000	SCZ 3.81/07/180GZE SN BK BX	C.104
1071740000	SCZ 3.81/08/180GZE SN BK BX	C.104
1071750000	SCZ 3.81/09/180GZE SN BK BX	C.104
1071760000	SCZ 3.81/10/180GZE SN BK BX	C.104
1071770000	SCZ 3.81/11/180GZE SN BK BX	C.104
1071780000	SCZ 3.81/12/180GZE SN BK BX	C.104
1071790000	SCZ 3.81/05/180FZE SN BK BX	C.105
1071810000	SCZ 3.81/06/180FZE SN BK BX	C.105
1071820000	SCZ 3.81/07/180FZE SN BK BX	C.105
1071830000	SCZ 3.81/08/180FZE SN BK BX	C.105
1071840000	SCZ 3.81/09/180FZE SN BK BX	C.105
1071850000	SCZ 3.81/10/180FZE SN BK BX	C.105
1071860000	SCZ 3.81/11/180FZE SN BK BX	C.105
1071870000	SCZ 3.81/12/180FZE SN BK BX	C.105
1071950000	BCZ 3.81/05/180ZE SN BK BX	C.108
1071960000	BCZ 3.81/06/180ZE SN BK BX	C.108
1071970000	BCZ 3.81/07/180ZE SN BK BX	C.108
1071980000	BCZ 3.81/09/180ZE SN BK BX	C.108
1072010000	BCZ 3.81/10/180ZE SN BK BX	C.108
1072020000	BCZ 3.81/11/180ZE SN BK BX	C.108
1072030000	BCZ 3.81/12/180ZE SN BK BX	C.108
1072040000	BCZ 3.81/13/180ZE SN BK BX	C.108
1072050000	BCZ 3.81/14/180ZE SN BK BX	C.108
1072060000	BCZ 3.81/15/180ZE SN BK BX	C.108
1072070000	BCZ 3.81/16/180ZE SN BK BX	C.108
1072080000	BCZ 3.81/17/180ZE SN BK BX	C.108
1072090000	BCZ 3.81/18/180ZE SN BK BX	C.108
1072110000	BCZ 3.81/19/180ZE SN BK BX	C.108
1072120000	BCZ 3.81/20/180ZE SN BK BX	C.108
1072130000	BCZ 3.81/05/180FZE SN BK BX	C.109
1072140000	BCZ 3.81/06/180FZE SN BK BX	C.109
1072150000	BCZ 3.81/07/180FZE SN BK BX	C.109
1072160000	BCZ 3.81/09/180FZE SN BK BX	C.109
1072170000	BCZ 3.81/10/180FZE SN BK BX	C.109
1072180000	BCZ 3.81/11/180FZE SN BK BX	C.109
1072190000	BCZ 3.81/12/180FZE SN BK BX	C.109
1072220000	BCZ 3.81/13/180FZE SN BK BX	C.109
1072230000	BCZ 3.81/14/180FZE SN BK BX	C.109
1072240000	BCZ 3.81/15/180FZE SN BK BX	C.109
1072250000	BCZ 3.81/16/180FZE SN BK BX	C.109
1072260000	BCZ 3.81/17/180FZE SN BK BX	C.109
1072270000	BCZ 3.81/18/180FZE SN BK BX	C.109
1072280000	BCZ 3.81/19/180FZE SN BK BX	C.109
1072290000	BCZ 3.81/20/180FZE SN BK BX	C.109
1072310000	BCZ 3.81/05/180LRZE SN BK BX	C.109
1072320000	BCZ 3.81/06/180LRZE SN BK BX	C.109
1072330000	BCZ 3.81/07/180LRZE SN BK BX	C.109
1072340000	BCZ 3.81/09/180LRZE SN BK BX	C.109
1072350000	BCZ 3.81/10/180LRZE SN BK BX	C.109
1072360000	BCZ 3.81/11/180LRZE SN BK BX	C.109
1072370000	BCZ 3.81/12/180LRZE SN BK BX	C.109
1072380000	BCZ 3.81/13/180LRZE SN BK BX	C.109
1072390000	BCZ 3.81/14/180LRZE SN BK BX	C.109
1072450000	BCZ 3.81/15/180LRZE SN BK BX	C.109
1072460000	BCZ 3.81/16/180LRZE SN BK BX	C.109
1072470000	BCZ 3.81/17/180LRZE SN BK BX	C.109
1072480000	BCZ 3.81/18/180LRZE SN BK BX	C.109
1072490000	BCZ 3.81/19/180LRZE SN BK BX	C.109
1072510000	BCZ 3.81/20/180LRZE SN BK BX	C.109
1073410000	CH20M6 C TP	I.17
1073420000	CH20M22 C TP	I.23

1080000000

1080320000	BVF 7.62HP/02/180 BCF/06R SN BK BX	F.120
1080440000	BVF 7.62HP/04/180 BCF/06R SN BK BX	F.120
1080490000	BVF 7.62HP/03/180 BCF/04R SN BK BX	F.120
1080510000	BVF 7.62HP/04/180 BCF/04R SN BK BX	F.120
1080550000	BVF 7.62HP/02/180 BCF/04R SN BK BX	F.120
1080570000	BVF 7.62HP/03/180 BCF/06R SN BK BX	F.120
1080630000	CH20M22 S PSCSC BK	I.22
1081030000	BVF 7.62HP/02/180MF BCF/06R SN BK BX	F.121
1081150000	BVF 7.62HP/04/180MF4 BCF/04R SN BK BX	F.121
1081610000	BVF 7.62HP/02/180MF BCF/04R SN BK BX	F.121
1081630000	BVF 7.62HP/03/180MF3 BCF/04R SN BK BX	F.121
1081660000	BVF 7.62HP/04/180MSF4 BCF/04R SN BK BX	F.122
1081720000	BVF 7.62HP/03/180MF3 BCF/06R SN BK BX	F.121
1081730000	BVF 7.62HP/03/180MSF3 BCF/06R SN BK BX	F.122
1081750000	BVF 7.62HP/04/180MSF4 BCF/06R SN BK BX	F.122
1081760000	BVF 7.62HP/05/180MF4 BCF/06R SN BK BX	F.121
1081930000	BVF 7.62HP/02/180MSF BCF/04R SN BK BX	F.122
1082020000	BVF 7.62HP/04/180MF4 BCF/06R SN BK BX	F.121
1082080000	BVF 7.62HP/02/180MSF BCF/06R SN BK BX	F.122
1082110000	BVF 7.62HP/03/180MSF3 BCF/04R SN BK BX	F.122
1082140000	BVF 7.62HP/05/180MF4 BCF/04R SN BK BX	F.121
1082490000	ESG 6.6/11 BHZ 5.00/02	I.19
1082520000	ESG 6.6/15 BHZ 5.00/03	I.21
1082540000	ESG 6.6/20 BHZ 5.00/04	I.23
1087020000	BLZP 5.08/02/90LR SN BK BX	C.221
1087030000	BLZP 5.08/03/90LR SN BK BX	C.221
1087040000	BLZP 5.08/04/90LR SN BK BX	C.221
1087050000	BLZP 5.08/05/90LR SN BK BX	C.221
1087060000	BLZP 5.08/06/90LR SN BK BX	C.221
1087070000	BLZP 5.08/07/90LR SN BK BX	C.221
1087080000	BLZP 5.08/08/90LR SN BK BX	C.221
1087100000	BLZP 5.08/09/90LR SN BK BX	C.221
1087110000	BLZP 5.08/10/90LR SN BK BX	C.221
1087120000	BLZP 5.08/11/90LR SN BK BX	C.221
1087130000	BLZP 5.08/12/90LR SN BK BX	C.221
1087140000	BLZP 5.08/13/90LR SN BK BX	C.221
1087150000	BLZP 5.08/14/90LR SN BK BX	C.221
1087160000	BLZP 5.08/15/90LR SN BK BX	C.221
1087170000	BLZP 5.08/17/90LR SN BK BX	C.221
1087180000	BLZP 5.08/18/90LR SN BK BX	C.221
1087190000	BLZP 5.08/19/90LR SN BK BX	C.221
1087200000	BLZP 5.08/20/90LR SN BK BX	C.221
1087210000	BLZP 5.08/21/90LR SN BK BX	C.221
1087220000	BLZP 5.08/22/90LR SN BK BX	C.221
1087230000	BLZP 5.08/23/90LR SN BK BX	C.221
1087240000	BLZP 5.08/24/90LR SN BK BX	C.221
1087250000	BLZP 5.08/02/90LR SN OR BX	C.221
1087260000	BLZP 5.08/03/90LR SN OR BX	C.221
1087270000	BLZP 5.08/04/90LR SN OR BX	C.221
1087280000	BLZP 5.08/05/90LR SN OR BX	C.221
1087290000	BLZP 5.08/06/90LR SN OR BX	C.221
1087300000	BLZP 5.08/07/90LR SN OR BX	C.221
1087310000	BLZP 5.08/08/90LR SN OR BX	C.221
1087320000	BLZP 5.08/09/90LR SN OR BX	C.221
1087330000	BLZP 5.08/10/90LR SN OR BX	C.221
1087340000	BLZP 5.08/11/90LR SN OR BX	C.221
1087350000	BLZP 5.08/12/90LR SN OR BX	C.221
1087360000	BLZP 5.08/13/90LR SN OR BX	C.221
1087370000	BLZP 5.08/14/90LR SN OR BX	C.221
1087380000	BLZP 5.08/15/90LR SN OR BX	C.221
1087390000	BLZP 5.08/16/90LR SN OR BX	C.221
1087400000	BLZP 5.08/17/90LR SN OR BX	C.221
1087410000	BLZP 5.08/18/90LR SN OR BX	C.221
1087420000	BLZP 5.08/19/90LR SN OR BX	C.221
1087430000	BLZP 5.08/20/90LR SN OR BX	C.221
1087440000	BLZP 5.08/21/90LR SN OR BX	C.221
1087450000	BLZP 5.08/22/90LR SN OR BX	C.221
1087460000	BLZP 5.08/23/90LR SN OR BX	C.221
1087470000	BLZP 5.08/24/90LR SN OR BX	C.221
1089260000	SV 7.62HP/02/270MF SC/04R SN BK BX	F.119
1089280000	SV 7.62HP/02/270MF SC/06R SN BK BX	F.119
1089340000	SV 7.62HP/02/270MSF SC/04R SN BK BX	F.119
1089370000	SV 7.62HP/02/90MF SC/04R SN BK BX	F.117
1089380000	SV 7.62HP/02/270MSF SC/06R SN BK BX	F.119
1089410000	SV 7.62HP/02/90MF SC/06R SN BK BX	F.117
1089440000	SV 7.62HP/03/270MF3 SC/04R SN BK BX	F.119
1089490000	SV 7.62HP/03/270MF3 SC/06R SN BK BX	F.119
1089510000	SV 7.62HP/02/90MSF SC/04R SN BK BX	F.117
1089570000	SV 7.62HP/02/90MSF SC/06R SN BK BX	F.117
1089610000	SV 7.62HP/03/270MSF3 SC/04R SN BK BX	F.119
1089660000	SV 7.62HP/03/90MF3 SC/04R SN BK BX	F.117
1089670000	SV 7.62HP/03/270MSF3 SC/06R SN BK BX	F.119
1089730000	SV 7.62HP/03/90MF3 SC/06R SN BK BX	F.117
1089820000	SV 7.62HP/04/270MF4 SC/04R SN BK BX	F.119
1089840000	SV 7.62HP/02/90G SC/04R SN BK BX	F.116
1089890000	SV 7.62HP/03/90MSF3 SC/04R SN BK BX	F.117
1089910000	SV 7.62HP/04/270MF4 SC/06R SN BK BX	F.119
1089920000	SV 7.62HP/02/90G SC/06R SN BK BX	F.116
1089970000	SV 7.62HP/03/90MSF3 SC/06R SN BK BX	F.117

1090000000

1090040000	SV 7.62HP/03/90G SC/04R SN BK BX	F.116
1090060000	SV 7.62HP/04/270MSF4 SC/04R SN BK BX	F.119
1090120000	SV 7.62HP/03/90G SC/06R SN BK BX	F.116
1090130000	SV 7.62HP/04/90MF4 SC/04R SN BK BX	F.117
1090140000	SV 7.62HP/04/270MSF4 SC/06R SN BK BX	F.119
1090210000	SV 7.62HP/04/90MF4 SC/06R SN BK BX	F.117
1090280000	SV 7.62HP/04/90G SC/04R SN BK BX	F.116
1090300000	SV 7.62HP/05/270MF4 SC/04R SN BK BX	F.119
1090360000	SV 7.62HP/04/90G SC/06R SN BK BX	F.116
1090370000	SV 7.62HP/04/90MSF4 SC/04R SN BK BX	F.117
1090380000	SV 7.62HP/05/270MF4 SC/06R SN BK BX	F.119
1090450000	SV 7.62HP/04/90MSF4 SC/06R SN BK BX	F.117
1090520000	SV 7.62HP/05/90G SC/04R SN BK BX	F.116
1090540000	SV 7.62HP/05/270MSF4 SC/04R SN BK BX	F.119
1090590000	SV 7.62HP/05/90G SC/06R SN BK BX	F.116
1090600000	SV 7.62HP/05/90MF4 SC/04R SN BK BX	F.117
1090610000	SV 7.62HP/05/270MSF4 SC/06R SN BK BX	F.119
1090670000	SV 7.62HP/05/90MF4 SC/06R SN BK BX	F.117
1090770000	SV 7.62HP/02/270G SC/04R SN BK BX	F.118
1090830000	SV 7.62HP/05/90MSF4 SC/04R SN BK BX	F.117
1090850000	SV 7.62HP/02/270G SC/06R SN BK BX	F.118
1090900000	SV 7.62HP/05/90MSF4 SC/06R SN BK BX	F.117
1090950000	SV 7.62HP/03/270G SC/04R SN BK BX	F.118
1091010000	SV 7.62HP/03/270G SC/06R SN BK BX	F.118
1091120000	SV 7.62HP/04/270G SC/04R SN BK BX	F.118
1091160000	SV 7.62HP/04/270G SC/06R SN BK BX	F.118
1091240000	SV 7.62HP/05/270G SC/04R SN BK BX	F.118
1091260000	SV 7.62HP/05/270G SC/06R SN BK BX	F.118
1093430000	BLZ 7.62HP/02/180LR SN BK BX	F.17
1093440000	BLZ 7.62HP/03/180LR SN BK BX	F.17
1093450000	BLZ 7.62HP/04/180LR SN BK BX	F.17
1093460000	BLZ 7.62HP/05/180LR SN BK BX	F.17
1095640000	BLL 7.62HP/02/90LF SN BK BX	F.21
1095650000	BLL 7.62HP/03/90LF SN BK BX	F.21
1095660000	BLL 7.62HP/04/90LF SN BK BX	F.21
1095670000	BLL 7.62HP/05/90LF SN BK BX	F.21
1095920000	SL 7.62HP/02/90LF 3.2 SN BK BX	F.9
1095930000	SL 7.62HP/03/90LF 3.2 SN BK BX	F.9
1095940000	SL 7.62HP/04/90LF 3.2 SN BK BX	F.9
1095950000	SL 7.62HP/05/90LF 3.2 SN BK BX	F.9
1095960000	SL 7.62HP/06/90LF 3.2 SN BK BX	F.9
1095970000	SL 7.62HP/07/90LF 3.2 SN BK BX	F.9
1095980000	SL 7.62HP/08/90LF 3.2 SN BK BX	F.9
1095990000	SL 7.62HP/09/90LF 3.2 SN BK BX	F.9
1096000000	SL 7.62HP/10/90LF 3.2 SN BK BX	F.9
1096010000	SL 7.62HP/11/90LF 3.2 SN BK BX	F.9
1096020000	SL 7.62HP/12/90LF 3.2 SN BK BX	F.9

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1104170000	CH20M12 B BK/BK	I.18
1104180000	CH20M12 B BK/OR	I.18
1104190000	CH20M12 F BK	I.19
1104200000	CH20M12 S PPSC BK	I.18
1104210000	CH20M12 S PSCSC BK	I.18
1104240000	CH20M12 C BK	I.19
1104250000	CH20M12 C TP	I.19
1104400000	CH20M45 B BK/BK	I.24

Order No.	Type	Page
1104410000	CH20M45 B BK/OR	I.24
1104420000	CH20M45 F BK	I.25
1104430000	CH20M45 C BK	I.25
1104440000	CH20M45 C TP	I.25
1104450000	CH20M22 B BK/OR	I.22
1105600000	SK DEMO CH20M22	I.22

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1111630000	SK DEMO CH20M12	I.18
1111640000	SK DEMO CH20M45	I.24
1111720000	CH20M45 S 2PSC/2PSC BK	I.24
1118470000	BVF 7.62HP SH180 4-6 KIT	H.3
1118480000	BVF 7.62HP SH150 4-6 KIT	H.3
1118490000	BVF 7.62HP SH210 4-6 KIT	H.3

1120000000

1122070000	BLL 7.62HP/02/180 3.2SN BK BX	F.22
1122080000	BLL 7.62HP/03/180 3.2SN BK BX	F.22
1122090000	BLL 7.62HP/04/180 3.2SN BK BX	F.22
1122100000	BLL 7.62HP/05/180 3.2SN BK BX	F.22
1122110000	BLL 7.62HP/02/180F 3.2SN BK BX	F.23
1122120000	BLL 7.62HP/03/180F 3.2SN BK BX	F.23
1122130000	BLL 7.62HP/04/180F 3.2SN BK BX	F.23
1122140000	BLL 7.62HP/05/180F 3.2SN BK BX	F.23
1122550000	SL 7.62HP/02/180G 3.2SN BK BX	F.10
1122570000	SL 7.62HP/03/180G 3.2SN BK BX	F.10
1122580000	SL 7.62HP/04/180G 3.2SN BK BX	F.10
1122590000	SL 7.62HP/07/180G 3.2SN BK BX	F.10
1122600000	SL 7.62HP/09/180G 3.2SN BK BX	F.10
1122610000	SL 7.62HP/10/180G 3.2SN BK BX	F.10
1122640000	SL 7.62HP/11/180G 3.2SN BK BX	F.10
1122650000	SL 7.62HP/12/180G 3.2SN BK BX	F.10
1124250000	SL 7.62HP/06/90F 3.2 SN BK BX	F.9
1124270000	SL 7.62HP/07/90F 3.2 SN BK BX	F.9
1124280000	SL 7.62HP/08/90F 3.2 SN BK BX	F.9
1124290000	SL 7.62HP/09/90F 3.2 SN BK BX	F.9
1124300000	SL 7.62HP/10/90F 3.2 SN BK BX	F.9
1124310000	SL 7.62HP/11/90F 3.2 SN BK BX	F.9
1124320000	SL 7.62HP/12/90F 3.2 SN BK BX	F.9
1124750000	SVF 7.62HP/02/180FI SN BK BX	F.52
1124760000	SVF 7.62HP/03/180FI SN BK BX	F.52
1124770000	SVF 7.62HP/04/180FI SN BK BX	F.52
1124780000	SVF 7.62HP/05/180FI SN BK BX	F.52
1124810000	SVF 7.62HP/02/180SFI SN BK BX	F.53
1124820000	SVF 7.62HP/03/180SFI SN BK BX	F.53
1124830000	SVF 7.62HP/04/180SFI SN BK BX	F.53
1124840000	SVF 7.62HP/05/180SFI SN BK BX	F.53

1130000000

1134080000	BLL 7.62HP/02/180LF SN BK BX	F.23
1134090000	BLL 7.62HP/03/180LF SN BK BX	F.23
1134110000	BLL 7.62HP/04/180LF SN BK BX	F.23
1134120000	BLL 7.62HP/05/180LF SN BK BX	F.23
1134310000	BL 3.50/03/180LR SN OR BX	C.45
1134320000	BL 3.50/04/180LR SN OR BX	C.45
1134330000	BL 3.50/05/180LR SN OR BX	C.45
1134340000	BL 3.50/06/180LR SN OR BX	C.45
1134350000	BL 3.50/07/180LR SN OR BX	C.45
1134360000	BL 3.50/08/180LR SN OR BX	C.45
1134370000	BL 3.50/09/180LR SN OR BX	C.45
1134380000	BL 3.50/10/180LR SN OR BX	C.45
1134390000	BL 3.50/11/180LR SN OR BX	C.45
1134400000	BL 3.50/12/180LR SN OR BX	C.45
1134410000	BL 3.50/13/180LR SN OR BX	C.45
1134420000	BL 3.50/14/180LR SN OR BX	C.45
1134430000	BL 3.50/15/180LR SN OR BX	C.45
1134440000	BL 3.50/16/180LR SN OR BX	C.45
1134450000	BLZF 3.50/03/180LR SN OR BX	C.49
1134460000	BLZF 3.50/04/180LR SN OR BX	C.49
1134470000	BLZF 3.50/05/180LR SN OR BX	C.49
1134480000	BLZF 3.50/06/180LR SN OR BX	C.49
1134490000	BLZF 3.50/07/180LR SN OR BX	C.49
1134510000	BLZF 3.50/08/180LR SN OR BX	C.49
1134520000	BLZF 3.50/09/180LR SN OR BX	C.49
1134530000	BLZF 3.50/10/180LR SN OR BX	C.49
1134540000	BLZF 3.50/11/180LR SN OR BX	C.49
1134550000	BLZF 3.50/12/180LR SN OR BX	C.49
1134560000	BLZF 3.50/13/180LR SN OR BX	C.49
1134570000	BLZF 3.50/14/180LR SN OR BX	C.49
1134580000	BLZF 3.50/15/180LR SN OR BX	C.49
1134590000	BLZF 3.50/16/180LR SN OR BX	C.49
1137730000	CH20M45 S 3P/3P BK	I.24
1137740000	CH20M45 S 2PSC/3SC BK	I.25
1137750000	CH20M45 S 3SC/2PSC BK	I.25
1137870000	LHZ-SMT L 1.5SN BK BX	I.17
1137880000	LHZ-SMT R 1.5SN BK BX	I.17
1139790000	CH20M22 S PPP BK	I.22

1140000000

1140870000	SL 7.62HP/02/180F 3.2 SN BK BX	F.11
1140880000	SL 7.62HP/03/180F 3.2 SN BK BX	F.11
1140890000	SL 7.62HP/04/180F 3.2 SN BK BX	F.11
1140900000	SL 7.62HP/05/180F 3.2 SN BK BX	F.11
1140910000	SL 7.62HP/06/180F 3.2 SN BK BX	F.11
1140920000	SL 7.62HP/07/180F 3.2 SN BK BX	F.11
1140930000	SL 7.62HP/08/180F 3.2 SN BK BX	F.11
1140940000	SL 7.62HP/09/180F 3.2 SN BK BX	F.11
1140950000	SL 7.62HP/10/180F 3.2 SN BK BX	F.11
1140960000	SL 7.62HP/11/180F 3.2 SN BK BX	F.11
1140970000	SL 7.62HP/12/180F 3.2 SN BK BX	F.11
1141090000	SL 7.62HP/02/180LF 3.2 SN BK BX	F.11
1141100000	SL 7.62HP/03/180LF 3.2 SN BK BX	F.11
1141110000	SL 7.62HP/04/180LF 3.2 SN BK BX	F.11
1141120000	SL 7.62HP/05/180LF 3.2 SN BK BX	F.11
1141130000	SL 7.62HP/06/180LF 3.2 SN BK BX	F.11
1141140000	SL 7.62HP/07/180LF 3.2 SN BK BX	F.11
1141150000	SL 7.62HP/08/180LF 3.2 SN BK BX	F.11
1141160000	SL 7.62HP/09/180LF 3.2 SN BK BX	F.11
1141170000	SL 7.62HP/10/180LF 3.2 SN BK BX	F.11
1141180000	SL 7.62HP/11/180LF 3.2 SN BK BX	F.11
1141190000	SL 7.62HP/12/180LF 3.2 SN BK BX	F.11
1146320000	SL 5.08HC/02/180 3.2SN OR BX	C.194
1146340000	SL 5.08HC/03/180 3.2SN OR BX	C.194
1146380000	SL 5.08HC/04/180 3.2SN OR BX	C.194
1146410000	SL 5.08HC/05/180 3.2SN OR BX	C.194
1146450000	SL 5.08HC/06/180 3.2SN OR BX	C.194
1146470000	SL 5.08HC/07/180 3.2SN OR BX	C.194
1146490000	SL 5.08HC/08/180 3.2SN OR BX	C.194
1146510000	SL 5.08HC/09/180 3.2SN OR BX	C.194
1146530000	SL 5.08HC/10/180 3.2SN OR BX	C.194
1146550000	SL 5.08HC/11/180 3.2SN OR BX	C.194
1146570000	SL 5.08HC/12/180 3.2SN OR BX	C.194
1146580000	SL 5.08HC/13/180 3.2SN OR BX	C.194
1146590000	SL 5.08HC/14/180 3.2SN OR BX	C.194
1146600000	SL 5.08HC/15/180 3.2SN OR BX	C.194
1146610000	SL 5.08HC/16/180 3.2SN OR BX	C.194
1146620000	SL 5.08HC/17/180 3.2SN OR BX	C.194
1146630000	SL 5.08HC/18/180 3.2SN OR BX	C.194
1146640000	SL 5.08HC/19/180 3.2SN OR BX	C.194
1146650000	SL 5.08HC/20/180 3.2SN OR BX	C.194
1146680000	SL 5.08HC/21/180 3.2SN OR BX	C.194
1146690000	SL 5.08HC/22/180 3.2SN OR BX	C.194
1146700000	SL 5.08HC/23/180 3.2SN OR BX	C.194
1146710000	SL 5.08HC/24/180 3.2SN OR BX	C.194
1146720000	SL 5.08HC/02/90 3.2SN OR BX	C.190
1146730000	SL 5.08HC/02/180G 3.2SN OR BX	C.195
1146740000	SL 5.08HC/03/90 3.2SN OR BX	C.190
1146750000	SL 5.08HC/03/180G 3.2SN OR BX	C.195
1146770000	SL 5.08HC/04/90 3.2SN OR BX	C.190
1146780000	SL 5.08HC/04/180G 3.2SN OR BX	C.195
1146790000	SL 5.08HC/05/90 3.2SN OR BX	C.190
1146800000	SL 5.08HC/05/180G 3.2SN OR BX	C.195
1146810000	SL 5.08HC/06/90 3.2SN OR BX	C.190
1146820000	SL 5.08HC/06/180G 3.2SN OR BX	C.195
1146830000	SL 5.08HC/07/90 3.2SN OR BX	C.190
1146840000	SL 5.08HC/07/180G 3.2SN OR BX	C.195
1146850000	SL 5.08HC/08/90 3.2SN OR BX	C.190
1146870000	SL 5.08HC/08/180G 3.2SN OR BX	C.195
1146880000	SL 5.08HC/09/90 3.2SN OR BX	C.190
1146890000	SL 5.08HC/09/180G 3.2SN OR BX	C.195
1146900000	SL 5.08HC/10/90 3.2SN OR BX	C.190
1146910000	SL 5.08HC/10/180G 3.2SN OR BX	C.195
1146920000	SL 5.08HC/11/90 3.2SN OR BX	C.190
1146930000	SL 5.08HC/11/180G 3.2SN OR BX	C.195
1146940000	SL 5.08HC/12/90 3.2SN OR BX	C.190
1146950000	SL 5.08HC/12/180G 3.2SN OR BX	C.195
1146970000	SL 5.08HC/13/90 3.2SN OR BX	C.190
1146980000	SL 5.08HC/13/180G 3.2SN OR BX	C.195
1146990000	SL 5.08HC/14/90 3.2SN OR BX	C.190
1147000000	SL 5.08HC/14/180G 3.2SN OR BX	C.195
1147010000	SL 5.08HC/15/90 3.2SN OR BX	C.190
1147020000	SL 5.08HC/15/180G 3.2SN OR BX	C.195
1147030000	SL 5.08HC/16/90 3.2SN OR BX	C.190
1147040000	SL 5.08HC/16/180G 3.2SN OR BX	C.195
1147050000	SL 5.08HC/17/90 3.2SN OR BX	C.190
1147070000	SL 5.08HC/17/180G 3.2SN OR BX	C.195
1147080000	SL 5.08HC/18/90 3.2SN OR BX	C.190
1147090000	SL 5.08HC/18/180G 3.2SN OR BX	C.195
1147100000	SL 5.08HC/19/90 3.2SN OR BX	C.190
1147110000	SL 5.08HC/19/180G 3.2SN OR BX	C.195
1147120000	SL 5.08HC/20/90 3.2SN OR BX	C.190
1147130000	SL 5.08HC/02/180F 3.2SN OR BX	C.196
1147140000	SL 5.08HC/20/180G 3.2SN OR BX	C.195
1147150000	SL 5.08HC/21/90 3.2SN OR BX	C.190
1147170000	SL 5.08HC/03/180F 3.2SN OR BX	C.196
1147180000	SL 5.08HC/21/180G 3.2SN OR BX	C.195
1147190000	SL 5.08HC/22/90 3.2SN OR BX	C.190
1147200000	SL 5.08HC/04/180F 3.2SN OR BX	C.196
1147210000	SL 5.08HC/22/180G 3.2SN OR BX	C.195
1147220000	SL 5.08HC/23/90 3.2SN OR BX	C.190
1147230000	SL 5.08HC/05/180F 3.2SN OR BX	C.196
1147240000	SL 5.08HC/23/180G 3.2SN OR BX	C.195
1147250000	SL 5.08HC/24/90 3.2SN OR BX	C.190
1147260000	SL 5.08HC/06/180F 3.2SN OR BX	C.196
1147270000	SL 5.08HC/24/180G 3.2SN OR BX	C.195
1147280000	SL 5.08HC/02/90G 3.2SN OR BX	C.191
1147290000	SL 5.08HC/07/180F 3.2SN OR BX	C.196
1147300000	SL 5.08HC/02/180B 3.2SN OR BX	C.195
1147310000	SL 5.08HC/03/90G 3.2SN OR BX	C.191
1147320000	SL 5.08HC/08/180F 3.2SN OR BX	C.196
1147330000	SL 5.08HC/03/180B 3.2SN OR BX	C.195
1147340000	SL 5.08HC/04/90G 3.2SN OR BX	C.191
1147350000	SL 5.08HC/09/180F 3.2SN OR BX	C.196
1147360000	SL 5.08HC/04/180B 3.2SN OR BX	C.195
1147370000	SL 5.08HC/05/90G 3.2SN OR BX	C.191
1147380000	SL 5.08HC/10/180F 3.2SN OR BX	C.196
1147390000	SL 5.08HC/05/180B 3.2SN OR BX	C.195
1147400000	SL 5.08HC/06/90G 3.2SN OR BX	C.191
1147410000	SL 5.08HC/11/180F 3.2SN OR BX	C.196
1147420000	SL 5.08HC/07/90G 3.2SN OR BX	C.191
1147430000	SL 5.08HC/06/180B 3.2SN OR BX	C.195
1147440000	SL 5.08HC/12/180F 3.2SN OR BX	C.196
1147450000	SL 5.08HC/08/90G 3.2SN OR BX	C.191
1147470000	SL 5.08HC/07/180B 3.2SN OR BX	C.195
1147480000	SL 5.08HC/13/180F 3.2SN OR BX	C.196
1147490000	SL 5.08HC/09/90G 3.2SN OR BX	C.191
1147510000	SL 5.08HC/08/180B 3.2SN OR BX	C.195
1147520000	SL 5.08HC/14/180F 3.2SN OR BX	C.196
1147530000	SL 5.08HC/10/90G 3.2SN OR BX	C.191
1147540000	SL 5.08HC/09/180B 3.2SN OR BX	C.195
1147550000	SL 5.08HC/15/180F 3.2SN OR BX	C.196
1147570000	SL 5.08HC/11/90G 3.2SN OR BX	C.191
1147580000	SL 5.08HC/10/180B 3.2SN OR BX	C.195
1147590000	SL 5.08HC/16/180F 3.2SN OR BX	C.196
1147600000	SL 5.08HC/12/90G 3.2SN OR BX	C.191
1147610000	SL 5.08HC/11/180B 3.2SN OR BX	C.195
1147620000	SL 5.08HC/17/180F 3.2SN OR BX	C.196
1147630000	SL 5.08HC/13/90G 3.2SN OR BX	C.191
1147640000	SL 5.08HC/12/180B 3.2SN OR BX	C.195
1147650000	SL 5.08HC/18/180F 3.2SN OR BX	C.196
1147670000	SL 5.08HC/13/180B 3.2SN OR BX	C.195
1147680000	SL 5.08HC/14/90G 3.2SN OR BX	C.191
1147690000	SL 5.08HC/19/180F 3.2SN OR BX	C.196
1147700000	SL 5.08HC/15/90G 3.2SN OR BX	C.191
1147710000	SL 5.08HC/14/180B 3.2SN OR BX	C.195
1147720000	SL 5.08HC/20/180F 3.2SN OR BX	C.196
1147730000	SL 5.08HC/15/180B 3.2SN OR BX	C.195
1147740000	SL 5.08HC/16/90G 3.2SN OR BX	C.191
1147750000	SL 5.08HC/21/180F 3.2SN OR BX	C.196
1147770000	SL 5.08HC/16/180B 3.2SN OR BX	C.195
1147780000	SL 5.08HC/17/90G 3.2SN OR BX	C.191
1147790000	SL 5.08HC/22/180F 3.2SN OR BX	C.196
1147800000	SL 5.08HC/17/180B 3.2SN OR BX	C.195
1147810000	SL 5.08HC/18/90G 3.2SN OR BX	C.191
1147820000	SL 5.08HC/23/180F 3.2SN OR BX	C.196
1147830000	SL 5.08HC/18/180B 3.2SN OR BX	C.195
1147840000	SL 5.08HC/19/90G 3.2SN OR BX	C.191
1147850000	SL 5.08HC/24/180F 3.2SN OR BX	C.196
1147870000	SL 5.08HC/19/180B 3.2SN OR BX	C.195
1147880000	SL 5.08HC/20/90G 3.2SN OR BX	C.191
1147890000	SL 5.08HC/02/180LF 3.2SN OR BX	C.197
1147900000	SL 5.08HC/20/180B 3.2SN OR BX	C.195
1147910000	SL 5.08HC/21/90G 3.2SN OR BX	C.191
1147920000	SL 5.08HC/03/180LF 3.2SN OR BX	C.197
1147930000	SL 5.08HC/21/180B 3.2SN OR BX	C.195
1147940000	SL 5.08HC/22/90G 3.2SN OR BX	C.191
1147950000	SL 5.08HC/04/180LF 3.2SN OR BX	C.197
1147970000	SL 5.08HC/22/180B 3.2SN OR BX	C.195
1147980000	SL 5.08HC/23/90G 3.2SN OR BX	C.191
1147990000	SL 5.08HC/05/180LF 3.2SN OR BX	C.197
1148000000	SL 5.08HC/24/90G 3.2SN OR BX	C.191
1148010000	SL 5.08HC/23/180B 3.2SN OR BX	C.195
1148020000	SL 5.08HC/06/180LF 3.2SN OR BX	C.197
1148030000	SL 5.08HC/02/90B 3.2SN OR BX	C.191
1148040000	SL 5.08HC/24/180B 3.2SN OR BX	C.195
1148050000	SL 5.08HC/07/180LF 3.2SN OR BX	C.197
1148070000	SL 5.08HC/03/90B 3.2SN OR BX	C.191
1148080000	SL 5.08HC/02/180 3.2SN BK BX	C.194
1148090000	SL 5.08HC/08/180LF 3.2SN OR BX	C.197
1148100000	SL 5.08HC/04/90B 3.2SN OR BX	C.191
1148110000	SL 5.08HC/03/180 3.2SN BK BX	C.194
1148120000	SL 5.08HC/09/180LF 3.2SN OR BX	C.197
1148130000	SL 5.08HC/05/90B 3.2SN OR BX	C.191
1148140000	SL 5.08HC/04/180 3.2SN BK BX	C.194
1148150000	SL 5.08HC/10/180LF 3.2SN OR BX	C.197
1148170000	SL 5.08HC/06/90B 3.2SN OR BX	C.191
1148180000	SL 5.08HC/05/180 3.2SN BK BX	C.194
1148190000	SL 5.08HC/11/180LF 3.2SN OR BX	C.197
1148200000	SL 5.08HC/07/90B 3.2SN OR BX	C.191
1148210000	SL 5.08HC/06/180 3.2SN BK BX	C.194
1148220000	SL 5.08HC/12/180LF 3.2SN OR BX	C.197
1148230000	SL 5.08HC/07/180 3.2SN BK BX	C.194
1148240000	SL 5.08HC/13/180LF 3.2SN OR BX	C.197
1148250000	SL 5.08HC/08/180 3.2SN BK BX	C.194
1148260000	SL 5.08HC/14/180LF 3.2SN OR BX	C.197
1148270000	SL 5.08HC/09/180 3.2SN BK BX	C.194
1148280000	SL 5.08HC/15/180LF 3.2SN OR BX	C.197
1148290000	SL 5.08HC/10/180 3.2SN BK BX	C.194
1148300000	SL 5.08HC/16/180LF 3.2SN OR BX	C.197
1148310000	SL 5.08HC/11/180 3.2SN BK BX	C.194
1148320000	SL 5.08HC/17/180LF 3.2SN OR BX	C.197
1148330000	SL 5.08HC/12/180 3.2SN BK BX	C.194
1148340000	SL 5.08HC/18/180LF 3.2SN OR BX	C.197
1148350000	SL 5.08HC/13/180 3.2SN BK BX	C.194
1148360000	SL 5.08HC/19/180LF 3.2SN OR BX	C.197
1148370000	SL 5.08HC/14/180 3.2SN BK BX	C.194
1148380000	SL 5.08HC/20/180LF 3.2SN OR BX	C.197
1148390000	SL 5.08HC/15/180 3.2SN BK BX	C.194
1148400000	SL 5.08HC/21/180LF 3.2SN OR BX	C.197
1148410000	SL 5.08HC/16/180 3.2SN BK BX	C.194
1148420000	SL 5.08HC/22/180LF 3.2SN OR BX	C.197
1148430000	SL 5.08HC/17/180 3.2SN BK BX	C.194
1148440000	SL 5.08HC/23/180LF 3.2SN OR BX	C.197

Order No.	Type	Page
1148450000	SL 5.08HC/18/180 3.2SN BK BX	C.194
1148470000	SL 5.08HC/24/180LF 3.2SN OR BX	C.197
1148480000	SL 5.08HC/19/180 3.2SN BK BX	C.194
1148490000	SL 5.08HC/02/180F 3.2SN BK BX	C.196
1148510000	SL 5.08HC/20/180 3.2SN BK BX	C.194
1148520000	SL 5.08HC/03/180F 3.2SN BK BX	C.196
1148530000	SL 5.08HC/21/180 3.2SN BK BX	C.194
1148540000	SL 5.08HC/04/180F 3.2SN BK BX	C.196
1148550000	SL 5.08HC/22/180 3.2SN BK BX	C.194
1148570000	SL 5.08HC/05/180F 3.2SN BK BX	C.196
1148580000	SL 5.08HC/23/180 3.2SN BK BX	C.194
1148590000	SL 5.08HC/06/180F 3.2SN BK BX	C.196
1148600000	SL 5.08HC/24/180 3.2SN BK BX	C.194
1148610000	SL 5.08HC/02/90F 3.2SN OR BX	C.192
1148620000	SL 5.08HC/07/180F 3.2SN BK BX	C.196
1148630000	SL 5.08HC/02/180G 3.2SN BK BX	C.195
1148640000	SL 5.08HC/03/90F 3.2SN OR BX	C.192
1148650000	SL 5.08HC/08/180F 3.2SN BK BX	C.196
1148670000	SL 5.08HC/03/180G 3.2SN BK BX	C.195
1148680000	SL 5.08HC/04/90F 3.2SN OR BX	C.192
1148690000	SL 5.08HC/09/180F 3.2SN BK BX	C.196
1148700000	SL 5.08HC/04/180G 3.2SN BK BX	C.195
1148710000	SL 5.08HC/05/90F 3.2SN OR BX	C.192
1148720000	SL 5.08HC/10/180F 3.2SN BK BX	C.196
1148730000	SL 5.08HC/05/180G 3.2SN BK BX	C.195
1148740000	SL 5.08HC/06/90F 3.2SN OR BX	C.192
1148750000	SL 5.08HC/11/180F 3.2SN BK BX	C.196
1148770000	SL 5.08HC/06/180G 3.2SN BK BX	C.195
1148780000	SL 5.08HC/07/90F 3.2SN OR BX	C.192
1148790000	SL 5.08HC/12/180F 3.2SN BK BX	C.196
1148800000	SL 5.08HC/07/180G 3.2SN BK BX	C.195
1148810000	SL 5.08HC/08/90F 3.2SN OR BX	C.192
1148820000	SL 5.08HC/13/180F 3.2SN BK BX	C.196
1148830000	SL 5.08HC/08/180G 3.2SN BK BX	C.195
1148840000	SL 5.08HC/09/90F 3.2SN OR BX	C.192
1148850000	SL 5.08HC/14/180F 3.2SN BK BX	C.196
1148870000	SL 5.08HC/09/180G 3.2SN BK BX	C.195
1148880000	SL 5.08HC/10/90F 3.2SN OR BX	C.192
1148890000	SL 5.08HC/15/180F 3.2SN BK BX	C.196
1148900000	SL 5.08HC/10/180G 3.2SN BK BX	C.195
1148910000	SL 5.08HC/11/90F 3.2SN OR BX	C.192
1148920000	SL 5.08HC/16/180F 3.2SN BK BX	C.196
1148930000	SL 5.08HC/11/180G 3.2SN BK BX	C.195
1148940000	SL 5.08HC/12/90F 3.2SN OR BX	C.192
1148950000	SL 5.08HC/17/180F 3.2SN BK BX	C.196
1148970000	SL 5.08HC/12/180G 3.2SN BK BX	C.195
1148980000	SL 5.08HC/13/90F 3.2SN OR BX	C.192
1148990000	SL 5.08HC/18/180F 3.2SN BK BX	C.196
1149000000	SL 5.08HC/13/180G 3.2SN BK BX	C.195
1149010000	SL 5.08HC/14/90F 3.2SN OR BX	C.192
1149020000	SL 5.08HC/19/180F 3.2SN BK BX	C.196
1149030000	SL 5.08HC/14/180G 3.2SN BK BX	C.195
1149040000	SL 5.08HC/15/90F 3.2SN OR BX	C.192
1149050000	SL 5.08HC/20/180F 3.2SN BK BX	C.196
1149070000	SL 5.08HC/15/180G 3.2SN BK BX	C.195
1149080000	SL 5.08HC/16/90F 3.2SN OR BX	C.192
1149090000	SL 5.08HC/21/180F 3.2SN BK BX	C.196
1149100000	SL 5.08HC/16/180G 3.2SN BK BX	C.195
1149110000	SL 5.08HC/17/90F 3.2SN OR BX	C.192
1149120000	SL 5.08HC/22/180F 3.2SN BK BX	C.196
1149130000	SL 5.08HC/17/180G 3.2SN BK BX	C.195
1149140000	SL 5.08HC/18/90F 3.2SN OR BX	C.192
1149150000	SL 5.08HC/23/180F 3.2SN BK BX	C.196
1149170000	SL 5.08HC/18/180G 3.2SN BK BX	C.195
1149180000	SL 5.08HC/19/90F 3.2SN OR BX	C.192
1149190000	SL 5.08HC/24/180F 3.2SN BK BX	C.196
1149200000	SL 5.08HC/19/180G 3.2SN BK BX	C.195
1149210000	SL 5.08HC/20/90F 3.2SN OR BX	C.192
1149220000	SL 5.08HC/02/180LF 3.2SN BK BX	C.197
1149230000	SL 5.08HC/20/180G 3.2SN BK BX	C.195
1149240000	SL 5.08HC/21/90F 3.2SN OR BX	C.192
1149250000	SL 5.08HC/03/180LF 3.2SN BK BX	C.197
1149270000	SL 5.08HC/21/180G 3.2SN BK BX	C.195
1149280000	SL 5.08HC/22/90F 3.2SN OR BX	C.192
1149290000	SL 5.08HC/04/180LF 3.2SN BK BX	C.197
1149300000	SL 5.08HC/22/180G 3.2SN BK BX	C.195
1149310000	SL 5.08HC/23/90F 3.2SN OR BX	C.192
1149320000	SL 5.08HC/05/180LF 3.2SN BK BX	C.197
1149330000	SL 5.08HC/23/180G 3.2SN BK BX	C.195
1149340000	SL 5.08HC/24/90F 3.2SN OR BX	C.192
1149350000	SL 5.08HC/06/180LF 3.2SN BK BX	C.197
1149370000	SL 5.08HC/24/180G 3.2SN BK BX	C.195
1149380000	SL 5.08HC/02/90LF 3.2SN OR BX	C.193
1149390000	SL 5.08HC/07/180LF 3.2SN BK BX	C.197
1149400000	SL 5.08HC/02/180B 3.2SN BK BX	C.195
1149410000	SL 5.08HC/03/90LF 3.2SN OR BX	C.193
1149420000	SL 5.08HC/08/180LF 3.2SN BK BX	C.197
1149430000	SL 5.08HC/03/180B 3.2SN BK BX	C.195
1149440000	SL 5.08HC/04/90LF 3.2SN OR BX	C.193
1149450000	SL 5.08HC/09/180LF 3.2SN BK BX	C.197
1149470000	SL 5.08HC/04/180B 3.2SN BK BX	C.195
1149480000	SL 5.08HC/05/90LF 3.2SN OR BX	C.193
1149490000	SL 5.08HC/10/180LF 3.2SN BK BX	C.197
1149500000	SL 5.08HC/05/180B 3.2SN BK BX	C.195
1149510000	SL 5.08HC/06/90LF 3.2SN OR BX	C.193
1149520000	SL 5.08HC/11/180LF 3.2SN BK BX	C.197
1149530000	SL 5.08HC/06/180B 3.2SN BK BX	C.195
1149540000	SL 5.08HC/07/90LF 3.2SN OR BX	C.193
1149550000	SL 5.08HC/12/180LF 3.2SN BK BX	C.197
1149570000	SL 5.08HC/07/180B 3.2SN BK BX	C.195
1149580000	SL 5.08HC/08/90LF 3.2SN OR BX	C.193
1149590000	SL 5.08HC/13/180LF 3.2SN BK BX	C.197
1149600000	SL 5.08HC/08/180B 3.2SN BK BX	C.195
1149610000	SL 5.08HC/09/90LF 3.2SN OR BX	C.193
1149620000	SL 5.08HC/14/180LF 3.2SN BK BX	C.197
1149630000	SL 5.08HC/09/180B 3.2SN BK BX	C.195
1149640000	SL 5.08HC/10/90LF 3.2SN OR BX	C.193
1149650000	SL 5.08HC/15/180LF 3.2SN BK BX	C.197
1149670000	SL 5.08HC/10/180B 3.2SN BK BX	C.195
1149680000	SL 5.08HC/11/90LF 3.2SN OR BX	C.193
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1149700000	SL 5.08HC/11/180B 3.2SN BK BX	C.195
1149710000	SL 5.08HC/12/90LF 3.2SN OR BX	C.193
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1149730000	SL 5.08HC/12/180B 3.2SN BK BX	C.195
1149740000	SL 5.08HC/13/90LF 3.2SN OR BX	C.193
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1149770000	SL 5.08HC/13/180B 3.2SN BK BX	C.195
1149780000	SL 5.08HC/14/90LF 3.2SN OR BX	C.193
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1149800000	SL 5.08HC/14/180B 3.2SN BK BX	C.195
1149810000	SL 5.08HC/15/90LF 3.2SN OR BX	C.193
1149820000	SL 5.08HC/20/180LF 3.2SN BK BX	C.197
1149830000	SL 5.08HC/15/180B 3.2SN BK BX	C.195
1149840000	SL 5.08HC/16/90LF 3.2SN OR BX	C.193
1149850000	SL 5.08HC/21/180LF 3.2SN BK BX	C.197
1149870000	SL 5.08HC/16/180B 3.2SN BK BX	C.195
1149880000	SL 5.08HC/17/90LF 3.2SN OR BX	C.193
1149890000	SL 5.08HC/22/180LF 3.2SN BK BX	C.197
1149900000	SL 5.08HC/17/180B 3.2SN BK BX	C.195
1149910000	SL 5.08HC/18/90LF 3.2SN OR BX	C.193
1149920000	SL 5.08HC/23/180LF 3.2SN BK BX	C.197
1149930000	SL 5.08HC/18/180B 3.2SN BK BX	C.195
1149940000	SL 5.08HC/19/90LF 3.2SN OR BX	C.193
1149950000	SL 5.08HC/24/180LF 3.2SN BK BX	C.197
1149970000	SL 5.08HC/19/180B 3.2SN BK BX	C.195
1149980000	SL 5.08HC/20/90LF 3.2SN OR BX	C.193
1149990000	SL 5.08HC/20/180B 3.2SN BK BX	C.195

1150000000

1150000000	SL 5.08HC/21/90LF 3.2SN OR BX	C.193
1150010000	SL 5.08HC/21/180B 3.2SN BK BX	C.195
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1150030000	SL 5.08HC/22/180B 3.2SN BK BX	C.195
1150040000	SL 5.08HC/23/90LF 3.2SN OR BX	C.193
1150050000	SL 5.08HC/23/180B 3.2SN BK BX	C.195
1150070000	SL 5.08HC/24/90LF 3.2SN OR BX	C.193
1150080000	SL 5.08HC/24/180B 3.2SN BK BX	C.195
1150090000	SL 5.08HC/02/90F 3.2SN BK BX	C.192
1150100000	SL 5.08HC/03/90F 3.2SN BK BX	C.192
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1150120000	SL 5.08HC/05/90F 3.2SN BK BX	C.192
1150130000	SL 5.08HC/06/90F 3.2SN BK BX	C.192
1150140000	SL 5.08HC/07/90F 3.2SN BK BX	C.192
1150150000	SL 5.08HC/08/90F 3.2SN BK BX	C.192
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1150180000	SL 5.08HC/10/90F 3.2SN BK BX	C.192
1150190000	SL 5.08HC/11/90F 3.2SN BK BX	C.192
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1150220000	SL 5.08HC/14/90F 3.2SN BK BX	C.192
1150230000	SL 5.08HC/15/90F 3.2SN BK BX	C.192
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1150280000	SL 5.08HC/19/90F 3.2SN BK BX	C.192
1150290000	SL 5.08HC/20/90F 3.2SN BK BX	C.192
1150300000	SL 5.08HC/21/90F 3.2SN BK BX	C.192
1150310000	SL 5.08HC/22/90F 3.2SN BK BX	C.192
1150320000	SL 5.08HC/23/90F 3.2SN BK BX	C.192
1150330000	SL 5.08HC/24/90F 3.2SN BK BX	C.192
1150340000	SL 5.08HC/02/90LF 3.2SN BK BX	C.193
1150350000	SL 5.08HC/03/90LF 3.2SN BK BX	C.193
1150370000	SL 5.08HC/04/90LF 3.2SN BK BX	C.193
1150380000	SL 5.08HC/05/90LF 3.2SN BK BX	C.193
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1150400000	SL 5.08HC/07/90LF 3.2SN BK BX	C.193
1150410000	SL 5.08HC/08/90LF 3.2SN BK BX	C.193
1150420000	SL 5.08HC/09/90LF 3.2SN BK BX	C.193
1150430000	SL 5.08HC/10/90LF 3.2SN BK BX	C.193
1150440000	SL 5.08HC/11/90LF 3.2SN BK BX	C.193
1150450000	SL 5.08HC/12/90LF 3.2SN BK BX	C.193
1150470000	SL 5.08HC/13/90LF 3.2SN BK BX	C.193
1150480000	SL 5.08HC/14/90LF 3.2SN BK BX	C.193
1150490000	SL 5.08HC/15/90LF 3.2SN BK BX	C.193
1150500000	SL 5.08HC/16/90LF 3.2SN BK BX	C.193
1150510000	SL 5.08HC/17/90LF 3.2SN BK BX	C.193
1150520000	SL 5.08HC/18/90LF 3.2SN BK BX	C.193
1150530000	SL 5.08HC/19/90LF 3.2SN BK BX	C.193
1150540000	SL 5.08HC/20/90LF 3.2SN BK BX	C.193
1150550000	SL 5.08HC/21/90LF 3.2SN BK BX	C.193
1150570000	SL 5.08HC/22/90LF 3.2SN BK BX	C.193
1150580000	SL 5.08HC/23/90LF 3.2SN BK BX	C.193
1150590000	SL 5.08HC/24/90LF 3.2SN BK BX	C.193
1154830000	SL 5.08HC/08/90B 3.2SN OR BX	C.191
1154840000	SL 5.08HC/09/90B 3.2SN OR BX	C.191
1154850000	SL 5.08HC/10/90B 3.2SN OR BX	C.191
1154870000	SL 5.08HC/11/90B 3.2SN OR BX	C.191
1154880000	SL 5.08HC/12/90B 3.2SN OR BX	C.191
1154890000	SL 5.08HC/13/90B 3.2SN OR BX	C.191
1154900000	SL 5.08HC/14/90B 3.2SN OR BX	C.191
1154910000	SL 5.08HC/15/90B 3.2SN OR BX	C.191
1154920000	SL 5.08HC/16/90B 3.2SN OR BX	C.191
1154930000	SL 5.08HC/17/90B 3.2SN OR BX	C.191
1154940000	SL 5.08HC/18/90B 3.2SN OR BX	C.191
1154950000	SL 5.08HC/19/90B 3.2SN OR BX	C.191
1154970000	SL 5.08HC/20/90B 3.2SN OR BX	C.191
1154980000	SL 5.08HC/21/90B 3.2SN OR BX	C.191
1154990000	SL 5.08HC/22/90B 3.2SN OR BX	C.191
1155010000	SL 5.08HC/23/90B 3.2SN OR BX	C.191
1155020000	SL 5.08HC/24/90B 3.2SN OR BX	C.191
1155030000	SL 5.08HC/02/90 3.2SN BK BX	C.190
1155040000	SL 5.08HC/03/90 3.2SN BK BX	C.190
1155050000	SL 5.08HC/04/90 3.2SN BK BX	C.190
1155060000	SL 5.08HC/05/90 3.2SN BK BX	C.190
1155070000	SL 5.08HC/06/90 3.2SN BK BX	C.190
1155080000	SL 5.08HC/07/90 3.2SN BK BX	C.190
1155090000	SL 5.08HC/08/90 3.2SN BK BX	C.190
1155100000	SL 5.08HC/09/90 3.2SN BK BX	C.190
1155130000	SL 5.08HC/10/90 3.2SN BK BX	C.190
1155140000	SL 5.08HC/11/90 3.2SN BK BX	C.190
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1155170000	SL 5.08HC/13/90 3.2SN BK BX	C.190
1155180000	SL 5.08HC/14/90 3.2SN BK BX	C.190
1155190000	SL 5.08HC/15/90 3.2SN BK BX	C.190
1155200000	SL 5.08HC/16/90 3.2SN BK BX	C.190
1155230000	SL 5.08HC/17/90 3.2SN BK BX	C.190
1155240000	SL 5.08HC/18/90 3.2SN BK BX	C.190
1155250000	SL 5.08HC/19/90 3.2SN BK BX	C.190
1155270000	SL 5.08HC/20/90 3.2SN BK BX	C.190
1155280000	SL 5.08HC/21/90 3.2SN BK BX	C.190
1155290000	SL 5.08HC/22/90 3.2SN BK BX	C.190
1155300000	SL 5.08HC/23/90 3.2SN BK BX	C.190
1155310000	SL 5.08HC/24/90 3.2SN BK BX	C.190
1155320000	SL 5.08HC/02/90G 3.2SN BK BX	C.191
1155330000	SL 5.08HC/03/90G 3.2SN BK BX	C.191
1155340000	SL 5.08HC/04/90G 3.2SN BK BX	C.191
1155350000	SL 5.08HC/05/90G 3.2SN BK BX	C.191
1155370000	SL 5.08HC/06/90G 3.2SN BK BX	C.191
1155380000	SL 5.08HC/07/90G 3.2SN BK BX	C.191
1155390000	SL 5.08HC/08/90G 3.2SN BK BX	C.191
1155400000	SL 5.08HC/09/90G 3.2SN BK BX	C.191
1155410000	SL 5.08HC/10/90G 3.2SN BK BX	C.191
1155420000	SL 5.08HC/11/90G 3.2SN BK BX	C.191
1155430000	SL 5.08HC/12/90G 3.2SN BK BX	C.191
1155440000	SL 5.08HC/13/90G 3.2SN BK BX	C.191
1155450000	SL 5.08HC/14/90G 3.2SN BK BX	C.191
1155470000	SL 5.08HC/15/90G 3.2SN BK BX	C.191
1155480000	SL 5.08HC/16/90G 3.2SN BK BX	C.191
1155490000	SL 5.08HC/17/90G 3.2SN BK BX	C.191
1155500000	SL 5.08HC/18/90G 3.2SN BK BX	C.191
1155510000	SL 5.08HC/19/90G 3.2SN BK BX	C.191
1155520000	SL 5.08HC/20/90G 3.2SN BK BX	C.191
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1155540000	SL 5.08HC/22/90G 3.2SN BK BX	C.191
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1155570000	SL 5.08HC/24/90G 3.2SN BK BX	C.191
1155580000	SL 5.08HC/02/90B 3.2SN BK BX	C.191
1155590000	SL 5.08HC/03/90B 3.2SN BK BX	C.191
1155600000	SL 5.08HC/04/90B 3.2SN BK BX	C.191
1155610000	SL 5.08HC/05/90B 3.2SN BK BX	C.191
1155620000	SL 5.08HC/06/90B 3.2SN BK BX	C.191
1155630000	SL 5.08HC/07/90B 3.2SN BK BX	C.191
1155640000	SL 5.08HC/08/90B 3.2SN BK BX	C.191
1155650000	SL 5.08HC/09/90B 3.2SN BK BX	C.191
1155670000	SL 5.08HC/10/90B 3.2SN BK BX	C.191
1155680000	SL 5.08HC/11/90B 3.2SN BK BX	C.191
1155690000	SL 5.08HC/12/90B 3.2SN BK BX	C.191
1155700000	SL 5.08HC/13/90B 3.2SN BK BX	C.191
1155710000	SL 5.08HC/14/90B 3.2SN BK BX	C.191
1155720000	SL 5.08HC/15/90B 3.2SN BK BX	C.191
1155730000	SL 5.08HC/16/90B 3.2SN BK BX	C.191
1155740000	SL 5.08HC/17/90B 3.2SN BK BX	C.191
1155750000	SL 5.08HC/18/90B 3.2SN BK BX	C.191
1155770000	SL 5.08HC/19/90B 3.2SN BK BX	C.191
1155780000	SL 5.08HC/20/90B 3.2SN BK BX	C.191
1155790000	SL 5.08HC/21/90B 3.2SN BK BX	C.191
1155800000	SL 5.08HC/22/90B 3.2SN BK BX	C.191
1155810000	SL 5.08HC/23/90B 3.2SN BK BX	C.191
1155820000	SL 5.08HC/24/90B 3.2SN BK BX	C.191
1155840000	SR-SMD 4.50/05/90 AU BK BX	I.34
1155870000	SR-SMD 4.50/05/90LFM 3.2AU BK BX	I.35
1155890000	SR-SMD 4.50/05/90LF 1.5AU BK BX	I.35
1155940000	PF RS 122 OR 2000MM	I.49
1156120000	SV 7.62HP/02/270MF SC/08R SN BK BX	F.119
1156130000	SV 7.62HP/02/270MSF SC/08R SN BK BX	F.119
1156140000	SV 7.62HP/03/270MF2 SC/04R SN BK BX	F.119
1156150000	SV 7.62HP/03/270MF2 SC/06R SN BK BX	F.119
1156170000	SV 7.62HP/03/270MF2 SC/08R SN BK BX	F.119
1156180000	SV 7.62HP/03/270MF3 SC/08R SN BK BX	F.119
1156190000	SV 7.62HP/03/270MSF2 SC/04R SN BK BX	F.119
1156200000	SV 7.62HP/03/270MSF2 SC/06R SN BK BX	F.119
1156210000	SV 7.62HP/03/270MSF2 SC/08R SN BK BX	F.119
1156220000	SV 7.62HP/03/270MSF3 SC/08R SN BK BX	F.119
1156230000	SV 7.62HP/03/90MF2 SC/04R SN BK BX	F.117
1156240000	SV 7.62HP/03/90MF2 SC/06R SN BK BX	F.117

Order No.	Type	Page
1156250000	SV 7.62HP/03/90MSF2 SC/04R SN BK BX	F.117
1156270000	SV 7.62HP/03/90MSF2 SC/06R SN BK BX	F.117
1156280000	SV 7.62HP/04/270MF4 SC/08R SN BK BX	F.119
1156290000	SV 7.62HP/04/270MSF4 SC/08R SN BK BX	F.119
1156300000	SV 7.62HP/05/270MF3 SC/04R SN BK BX	F.119
1156310000	SV 7.62HP/05/270MF3 SC/06R SN BK BX	F.119
1156320000	SV 7.62HP/05/270MF3 SC/08R SN BK BX	F.119
1156340000	SV 7.62HP/05/270MF4 SC/08R SN BK BX	F.119
1156370000	SV 7.62HP/05/270MSF3 SC/04R SN BK BX	F.119
1156390000	SV 7.62HP/05/270MSF3 SC/06R SN BK BX	F.119
1156410000	SV 7.62HP/05/270MSF3 SC/08R SN BK BX	F.119
1156430000	SV 7.62HP/05/270MSF4 SC/08R SN BK BX	F.119
1156440000	BVF 7.62HP/02/180 BCF/08R SN BK BX	F.120
1156450000	BVF 7.62HP/03/180 BCF/08R SN BK BX	F.120
1156470000	BVF 7.62HP/04/180 BCF/08R SN BK BX	F.120
1156480000	BVF 7.62HP/05/180 BCF/08R SN BK BX	F.120
1156490000	SV 7.62IT/02/270MF2 3.2SN BK BX SO	F.102
1156500000	SV 7.62IT/03/270MF2 3.2SN BK BX	F.102
1156510000	SV 7.62IT/03/270MF3 3.2SN BK BX	F.103
1156520000	SV 7.62IT/04/270MF2 3.2SN BK BX	F.102
1156530000	SV 7.62IT/04/270MF4 3.2SN BK BX	F.103
1156540000	SV 7.62IT/02/90MF2 3.2SN BK BX SO	F.100
1156550000	SV 7.62IT/03/90MF2 3.2SN BK BX	F.100
1156570000	SV 7.62IT/03/90MF3 3.2SN BK BX	F.101
1156580000	SV 7.62IT/04/90MF2 3.2SN BK BX	F.100
1156590000	SV 7.62IT/04/90MF4 3.2SN BK BX	F.101
1156600000	BUZ 10.16IT/02/180MF AG BK BX	F.110
1156610000	BUZ 10.16IT/03/180MF2 AG BK BX	F.110
1156620000	BUZ 10.16IT/03/180MF3 AG BK BX	F.111
1156630000	BUZ 10.16IT/04/180MF2 AG BK BX	F.110
1156640000	BUZ 10.16IT/04/180MF4 AG BK BX	F.111
1156650000	SU 10.16IT/02/90MF2 3.5AG BK BX SO	F.106
1156670000	SU 10.16IT/03/90MF2 3.5AG BK BX	F.106
1156680000	SU 10.16IT/03/90MF3 3.5AG BK BX	F.107
1156690000	SU 10.16IT/04/90MF2 3.5AG BK BX	F.106
1156700000	SU 10.16IT/04/90MF4 3.5AG BK BX	F.107
1156710000	BVZ 7.62IT/02/180MF SN BK BX	F.104
1156720000	BVZ 7.62IT/03/180MF2 SN BK BX	F.104
1156730000	BVZ 7.62IT/03/180MF3 SN BK BX	F.105
1156740000	BVZ 7.62IT/04/180MF2 SN BK BX	F.104
1156750000	BVZ 7.62IT/04/180MF4 SN BK BX	F.105
1156820000	SV 7.62HP/02/90MF SC/08R SN BK BX	F.117
1156830000	SV 7.62HP/02/90MSF SC/08R SN BK BX	F.117
1156840000	SV 7.62HP/03/90MF2 SC/08R SN BK BX	F.117
1156850000	SV 7.62HP/03/90MF3 SC/08R SN BK BX	F.117
1156870000	SV 7.62HP/03/90MSF2 SC/08R SN BK BX	F.117
1156880000	SV 7.62HP/03/90MSF3 SC/08R SN BK BX	F.117
1156890000	SV 7.62HP/04/90MF4 SC/08R SN BK BX	F.117
1156900000	SV 7.62HP/04/90MSF4 SC/08R SN BK BX	F.117
1156910000	SV 7.62HP/05/90MF3 SC/04R SN BK BX	F.117
1156920000	SV 7.62HP/02/270G SC/08R SN BK BX	F.118
1156930000	SV 7.62HP/05/90MF3 SC/06R SN BK BX	F.117
1156940000	SV 7.62HP/03/270G SC/08R SN BK BX	F.118
1156950000	SV 7.62HP/05/90MF3 SC/08R SN BK BX	F.117
1156970000	SV 7.62HP/04/270G SC/08R SN BK BX	F.118
1156980000	SV 7.62HP/05/90MF4 SC/08R SN BK BX	F.117
1156990000	SV 7.62HP/05/270G SC/08R SN BK BX	F.118
1157000000	SV 7.62HP/05/90MSF3 SC/04R SN BK BX	F.117
1157010000	SV 7.62HP/05/90MSF3 SC/06R SN BK BX	F.117
1157020000	SV 7.62HP/05/90MSF3 SC/08R SN BK BX	F.117
1157030000	SV 7.62HP/05/90MSF4 SC/08R SN BK BX	F.117
1157040000	SV 7.62HP/02/90G SC/08R SN BK BX	F.116
1157050000	SV 7.62HP/03/90G SC/08R SN BK BX	F.116
1157080000	SV 7.62HP/05/90G SC/08R SN BK BX	F.116
1157090000	BVF 7.62HP/02/180MF BCF/08R SN BK BX	F.121
1157100000	BVF 7.62HP/02/180MSF BCF/08R SN BK BX	F.122
1157110000	BVF 7.62HP/03/180MF2 BCF/04R SN BK BX	F.121
1157120000	BVF 7.62HP/03/180MF2 BCF/06R SN BK BX	F.121
1157130000	BVF 7.62HP/03/180MF2 BCF/08R SN BK BX	F.121
1157170000	BVF 7.62HP/03/180MF3 BCF/08R SN BK BX	F.121
1157190000	BVF 7.62HP/03/180MSF3 BCF/08R SN BK BX	F.122
1157200000	BVF 7.62HP/04/180MF4 BCF/08R SN BK BX	F.121
1157210000	BVF 7.62HP/04/180MSF4 BCF/08R SN BK BX	F.122
1157220000	BVF 7.62HP/05/180MF3 BCF/04R SN BK BX	F.121
1157230000	BVF 7.62HP/05/180MF3 BCF/06R SN BK BX	F.121
1157240000	BVF 7.62HP/05/180MF3 BCF/08R SN BK BX	F.121
1157250000	BVF 7.62HP/05/180MF4 BCF/08R SN BK BX	F.121
1157270000	BVF 7.62HP/05/180MSF3 BCF/04R SN BK BX	F.122
1157280000	BVF 7.62HP/05/180MSF3 BCF/06R SN BK BX	F.122
1157290000	BVF 7.62HP/05/180MSF3 BCF/08R SN BK BX	F.122
1157300000	BVF 7.62HP/05/180MSF4 BCF/08R SN BK BX	F.122
1157310000	SU 10.16IT/02/270MF2 3.5AG BK BX SO	F.108
1157320000	SU 10.16IT/03/270MF2 3.5AG BK BX	F.108
1157330000	SU 10.16IT/03/270MF3 3.5AG BK BX	F.109
1157340000	SU 10.16IT/04/270MF2 3.5AG BK BX	F.108
1157350000	SU 10.16IT/04/270MF4 3.5AG BK BX	F.109
1157380000	SV 7.62HP/04/90G SC/08R SN BK BX	F.116
1157440000	BVF 7.62HP/03/180MSF2 BCF/04R SN BK BX	F.122
1157450000	BVF 7.62HP/03/180MSF2 BCF/06R SN BK BX	F.122
1157470000	BVF 7.62HP/03/180MSF2 BCF/08R SN BK BX	F.122

1160000000

1164630000	CH20M6 BP 4P-4P BUS BK	I.16
1164640000	CH20M6 BC 4P-4P BUS BK	I.16
1164650000	CH20M6 BP 4P-4P FE BK	I.16
1164800000	CH20M45 FC BK	I.25
1164960000	BLZ 7.62HP/06/180LR SN BK BX	F.17
1164970000	BLZ 7.62HP/07/180LR SN BK BX	F.17
1164980000	BLZ 7.62HP/08/180LR SN BK BX	F.17
1164990000	BLZ 7.62HP/09/180LR SN BK BX	F.17
1165000000	BLZ 7.62HP/10/180LR SN BK BX	F.17
1165010000	BLZ 7.62HP/11/180LR SN BK BX	F.17
1165020000	BLZ 7.62HP/12/180LR SN BK BX	F.17
1166180000	CH20M45 S P2SC/P2SC BK	I.24
1168970000	MTA 30 BK	J.2

1170000000

1173490000	BLZ 7.62IT/02/180MF2 SN BK BX	F.98
1173500000	BLZ 7.62IT/03/180MF2 SN BK BX	F.98
1173510000	BLZ 7.62IT/03/180MF3 SN BK BX	F.99
1173520000	BLZ 7.62IT/04/180MF2 SN BK BX	F.98
1173530000	BLZ 7.62IT/04/180MF4 SN BK BX	F.99
1173610000	SL 7.62IT/02/90MF2 3.2SN BK BX SO	F.96
1173640000	SL 7.62IT/03/90MF2 3.2SN BK BX	F.96
1173690000	SL 7.62IT/03/90MF3 3.2SN BK BX	F.97
1173730000	SL 7.62IT/04/90MF2 3.2SN BK BX	F.96
1173770000	SL 7.62IT/04/90MF4 3.2SN BK BX	F.97
1174280000	CH20M12 S PPP BK	I.18
1174720000	LX 15.00/03/90 4.5SN BK BX	E.10
1176980000	CH20M12 B BUS BK/OR	I.18
1176990000	CH20M12 B FE BK/OR	I.18
1177000000	CH20M22 B BUS BK/OR	I.22
1177010000	CH20M22 B FE BK/OR	I.22
1177020000	CH20M45 B BUS BK/OR	I.24
1177030000	CH20M45 B FE BK/OR	I.24

1180000000

1185060000	AP 100	I.48
1185160000	AP 100 D	I.48
1185260000	AP 110	I.48
1185360000	AP 110 D	I.48
1185460000	AP 111	I.48
1185560000	AP 111 D	I.48

1190000000

1190600000	SLH-THR5.08/16/180F 3.2SN BK BX	C.188
1192980000	LUP 10.16/02/90V 3.2SN BK BX	E.8
1192990000	LUP 10.16/03/90V 3.2SN BK BX	E.8
1193000000	LUP 10.16/04/90V 3.2SN BK BX	E.8
1193010000	LUP 10.16/05/90V 3.2SN BK BX	E.8
1193020000	LUP 10.16/06/90V 3.2SN BK BX	E.8
1193030000	LUP 10.16/07/90V 3.2SN BK BX	E.8
1193040000	LUP 10.16/08/90V 3.2SN BK BX	E.8
1193050000	LUP 10.16/09/90V 3.2SN BK BX	E.8
1193160000	CH20M BUS-AP LI TS 35X7.5 & 15	I.35
1193170000	CH20M BUS-AP RE TS 35X7.5 & 15	I.35

1200000000

1203310000	SK Demo CH20M6	I.16
1209350000	CH20M22 FC BK	I.23

1220000000

1221310000	CH20M AD SHL 5.00/04 BK	I.23
1226220000	LU 10.16/04/90 4.5SN BK BX	E.6
1226230000	LU 10.16/05/90 4.5SN BK BX	E.6
1226240000	LU 10.16/06/90 4.5SN BK BX	E.6
1226250000	LU 10.16/07/90 4.5SN BK BX	E.6
1226260000	LU 10.16/08/90 4.5SN BK BX	E.6
1226270000	LU 10.16/09/90 4.5SN BK BX	E.6
1226280000	LU 10.16/10/90 4.5SN BK BX	E.6
1226290000	LUP 10.16/02/90 3.2SN BK BX	E.7
1226300000	LUP 10.16/03/90 3.2SN BK BX	E.7
1226310000	LUP 10.16/04/90 3.2SN BK BX	E.7
1226320000	LUP 10.16/05/90 3.2SN BK BX	E.7
1226330000	LUP 10.16/06/90 3.2SN BK BX	E.7
1226340000	LUP 10.16/07/90 3.2SN BK BX	E.7
1226350000	LUP 10.16/08/90 3.2SN BK BX	E.7
1226360000	LUP 10.16/09/90 3.2SN BK BX	E.7
1226370000	LUP 12.70/02/90 3.2SN BK BX	E.9
1226380000	LUP 12.70/03/90 3.2SN BK BX	E.9
1226390000	LUP 12.70/04/90 3.2SN BK BX	E.9
1226410000	LUP 12.70/05/90 3.2SN BK BX	E.9
1226420000	LUP 12.70/06/90 3.2SN BK BX	E.9
1226430000	LUP 12.70/07/90 3.2SN BK BX	E.9
1226440000	LUP 12.70/08/90 3.2SN BK BX	E.9
1226450000	LUP 12.70/09/90 3.2SN BK BX	E.9
1226460000	LX 15.00/01/90 4.5SN BK BX	E.10
1226470000	LX 15.00/02/90 4.5SN BK BX	E.10
1226480000	LX 15.00/04/90 4.5SN BK BX	E.10
1226490000	LX 15.00/05/90 4.5SN BK BX	E.10
1226500000	LX 15.00/06/90 4.5SN BK BX	E.10
1226510000	LX 15.00/07/90 4.5SN BK BX	E.10
1226520000	LXB 15.00/02/90 4.5SN BK BX	E.11
1226530000	LXB 15.00/03/90 4.5SN BK BX	E.11
1226540000	LXB 15.00/04/90 4.5SN BK BX	E.11
1226550000	LXB 15.00/05/90 4.5SN BK BX	E.11
1226560000	LXB 15.00/06/90 4.5SN BK BX	E.11
1226570000	LXB 15.00/07/90 4.5SN BK BX	E.11
1226580000	LXB 15.00/08/90 4.5SN BK BX	E.11
1226590000	LXBL 15.00/01/90 4.5SN BK BX	E.11
1227340000	BLF 7.62HP/06/180 SN BK BX	F.18
1227350000	BLF 7.62HP/07/180 SN BK BX	F.18
1227360000	BLF 7.62HP/08/180 SN BK BX	F.18
1227370000	BLF 7.62HP/09/180 SN BK BX	F.18
1227380000	BLF 7.62HP/10/180 SN BK BX	F.18
1227390000	BLF 7.62HP/11/180 SN BK BX	F.18
1227410000	BLF 7.62HP/12/180 SN BK BX	F.18
1227420000	BLF 7.62HP/06/180LR SN BK BX	F.19
1227430000	BLF 7.62HP/07/180LR SN BK BX	F.19
1227440000	BLF 7.62HP/08/180LR SN BK BX	F.19
1227450000	BLF 7.62HP/09/180LR SN BK BX	F.19
1227460000	BLF 7.62HP/10/180LR SN BK BX	F.19
1227490000	BLF 7.62HP/06/180F SN BK BX	F.19
1227510000	BLF 7.62HP/07/180F SN BK BX	F.19
1227520000	BLF 7.62HP/08/180F SN BK BX	F.19
1227530000	BLF 7.62HP/09/180F SN BK BX	F.19
1227540000	BLF 7.62HP/10/180F SN BK BX	F.19

1230000000

1231350000	BCF 3.81/05/180FZE SN BK BX	C.115
1231360000	BCF 3.81/06/180FZE SN BK BX	C.115
1231370000	BCF 3.81/07/180FZE SN BK BX	C.115
1231380000	BCF 3.81/08/180FZE SN BK BX	C.115
1231390000	BCF 3.81/09/180FZE SN BK BX	C.115
1231410000	BCF 3.81/10/180FZE SN BK BX	C.115
1231420000	BCF 3.81/11/180FZE SN BK BX	C.115
1231430000	BCF 3.81/12/180FZE SN BK BX	C.115
1231440000	BCF 3.81/13/180FZE SN BK BX	C.115
1231450000	BCF 3.81/14/180FZE SN BK BX	C.115
1231460000	BCF 3.81/15/180FZE SN BK BX	C.115
1231470000	BCF 3.81/16/180FZE SN BK BX	C.115
1231480000	BCF 3.81/17/180FZE SN BK BX	C.115
1231490000	BCF 3.81/18/180FZE SN BK BX	C.115
1231520000	BCF 3.81/05/180LRZE SN BK BX	C.115
1231530000	BCF 3.81/06/180LRZE SN BK BX	C.115
1231540000	BCF 3.81/07/180LRZE SN BK BX	C.115
1231550000	BCF 3.81/08/180LRZE SN BK BX	C.115
1231560000	BCF 3.81/09/180LRZE SN BK BX	C.115
1231570000	BCF 3.81/10/180LRZE SN BK BX	C.115
1231580000	BCF 3.81/11/180LRZE SN BK BX	C.115
1231590000	BCF 3.81/12/180LRZE SN BK BX	C.115
1231610000	BCF 3.81/13/180LRZE SN BK BX	C.115
1231620000	BCF 3.81/14/180LRZE SN BK BX	C.115
1231630000	BCF 3.81/15/180LRZE SN BK BX	C.115
1231640000	BCF 3.81/16/180LRZE SN BK BX	C.115
1231650000	BCF 3.81/17/180LRZE SN BK BX	C.115
1231660000	BCF 3.81/18/180LRZE SN BK BX	C.115
1231680000	BCF 3.81/05/180ZE SN BK BX	C.114
1231690000	BCF 3.81/06/180ZE SN BK BX	C.114
1231710000	BCF 3.81/07/180ZE SN BK BX	C.114
1231720000	BCF 3.81/08/180ZE SN BK BX	C.114
1231730000	BCF 3.81/09/180ZE SN BK BX	C.114
1231740000	BCF 3.81/10/180ZE SN BK BX	C.114
1231750000	BCF 3.81/11/180ZE SN BK BX	C.114
1231760000	BCF 3.81/12/180ZE SN BK BX	C.114
1231770000	BCF 3.81/13/180ZE SN BK BX	C.114
1231780000	BCF 3.81/14/180ZE SN BK BX	C.114
1231790000	BCF 3.81/15/180ZE SN BK BX	C.114
1231810000	BCF 3.81/16/180ZE SN BK BX	C.114
1231820000	BCF 3.81/17/180ZE SN BK BX	C.114
1231830000	BCF 3.81/18/180ZE SN BK BX	C.114
1234550000	PM 5.08/04/90 3.5SN OR BX	B.57
1234570000	PM 5.08/05/90 3.5SN OR BX	B.57
1234580000	PM 5.08/06/90 3.5SN OR BX	B.57
1234590000	PM 5.08/07/90 3.5SN OR BX	B.57
1234600000	PM 5.08/08/90 3.5SN OR BX	B.57
1234610000	PM 5.08/09/90 3.5SN OR BX	B.57
1234620000	PM 5.08/10/90 3.5SN OR BX	B.57
1234630000	PM 5.08/11/90 3.5SN OR BX	B.57
1234640000	PM 5.08/12/90 3.5SN OR BX	B.57
1234650000	PM 5.00/04/90 3.5SN OR BX	B.56
1234670000	PM 5.00/05/90 3.5SN OR BX	B.56
1234680000	PM 5.00/06/90 3.5SN OR BX	B.56
1234690000	PM 5.00/07/90 3.5SN OR BX	B.56
1234700000	PM 5.00/08/90 3.5SN OR BX	B.56
1234710000	PM 5.00/09/90 3.5SN OR BX	B.56
1234720000	PM 5.00/10/90 3.5SN OR BX	B.56
1234730000	PM 5.00/11/90 3.5SN OR BX	B.56
1234740000	PM 5.00/12/90 3.5SN OR BX	B.56
1235250000	CH20M67 B BK/OR	I.26
1235270000	CH20M67 B BK/BK	I.26
1235310000	CH20M67 FC BK	I.27
1235320000	CH20M67 S 2PSC/2PSC/2PSC BK	I.26
1235790000	BCF 3.81/05/180ZE SN OR BX	C.114
1235800000	BCF 3.81/06/180ZE SN OR BX	C.114
1235810000	BCF 3.81/07/180ZE SN OR BX	C.114
1235820000	BCF 3.81/08/180ZE SN OR BX	C.114
1235830000	BCF 3.81/09/180ZE SN OR BX	C.114
1235840000	BCF 3.81/10/180ZE SN OR BX	C.114
1235870000	BCF 3.81/11/180ZE SN OR BX	C.114
1235880000	BCF 3.81/12/180ZE SN OR BX	C.114
1235890000	BCF 3.81/13/180ZE SN OR BX	C.114
1235900000	BCF 3.81/14/180ZE SN OR BX	C.114
1235910000	BCF 3.81/15/180ZE SN OR BX	C.114
1235920000	BCF 3.81/16/180ZE SN OR BX	C.114
1235930000	BCF 3.81/17/180ZE SN OR BX	C.114
1235940000	BCF 3.81/18/180ZE SN OR BX	C.114
1235970000	BCF 3.81/05/180FZE SN OR BX	C.115
1235980000	BCF 3.81/06/180FZE SN OR BX	C.115
1235990000	BCF 3.81/07/180FZE SN OR BX	C.115

Order No.	Type	Page
1236000000	BCF 3.81/08/180FZE SN OR BX	C.115
1236010000	BCF 3.81/09/180FZE SN OR BX	C.115
1236020000	BCF 3.81/10/180FZE SN OR BX	C.115
1236030000	BCF 3.81/11/180FZE SN OR BX	C.115
1236040000	BCF 3.81/12/180FZE SN OR BX	C.115
1236050000	BCF 3.81/13/180FZE SN OR BX	C.115
1236070000	BCF 3.81/14/180FZE SN OR BX	C.115
1236080000	BCF 3.81/15/180FZE SN OR BX	C.115
1236090000	BCF 3.81/16/180FZE SN OR BX	C.115
1236100000	BCF 3.81/17/180FZE SN OR BX	C.115
1236110000	BCF 3.81/18/180FZE SN OR BX	C.115
1236120000	BCF 3.81/05/180LRZE SN OR BX	C.115
1236130000	BCF 3.81/06/180LRZE SN OR BX	C.115
1236140000	BCF 3.81/07/180LRZE SN OR BX	C.115
1236150000	BCF 3.81/08/180LRZE SN OR BX	C.115
1236160000	BCF 3.81/09/180LRZE SN OR BX	C.115
1236170000	BCF 3.81/10/180LRZE SN OR BX	C.115
1236180000	BCF 3.81/11/180LRZE SN OR BX	C.115
1236190000	BCF 3.81/12/180LRZE SN OR BX	C.115
1236200000	BCF 3.81/13/180LRZE SN OR BX	C.115
1236210000	BCF 3.81/14/180LRZE SN OR BX	C.115
1236220000	BCF 3.81/15/180LRZE SN OR BX	C.115
1236230000	BCF 3.81/16/180LRZE SN OR BX	C.115
1236240000	BCF 3.81/17/180LRZE SN OR BX	C.115
1236250000	BCF 3.81/18/180LRZE SN OR BX	C.115
1236270000	BCZ 3.81/05/180ZE SN OR BX	C.108
1236280000	BCZ 3.81/06/180ZE SN OR BX	C.108
1236290000	BCZ 3.81/07/180ZE SN OR BX	C.108
1236300000	BCZ 3.81/08/180ZE SN OR BX	C.108
1236320000	BCZ 3.81/09/180ZE SN OR BX	C.108
1236330000	BCZ 3.81/10/180ZE SN OR BX	C.108
1236340000	BCZ 3.81/11/180ZE SN OR BX	C.108
1236370000	BCZ 3.81/12/180ZE SN OR BX	C.108
1236380000	BCZ 3.81/13/180ZE SN OR BX	C.108
1236390000	BCZ 3.81/14/180ZE SN OR BX	C.108
1236400000	BCZ 3.81/15/180ZE SN OR BX	C.108
1236410000	BCZ 3.81/16/180ZE SN OR BX	C.108
1236420000	BCZ 3.81/17/180ZE SN OR BX	C.108
1236430000	BCZ 3.81/18/180ZE SN OR BX	C.108
1236440000	BCZ 3.81/19/180ZE SN OR BX	C.108
1236470000	BCZ 3.81/20/180ZE SN OR BX	C.108
1236530000	BCZ 3.81/05/180FZE SN OR BX	C.109
1236540000	BCZ 3.81/06/180FZE SN OR BX	C.109
1236570000	BCZ 3.81/07/180FZE SN OR BX	C.109
1236590000	BCZ 3.81/08/180FZE SN OR BX	C.109
1236600000	BCZ 3.81/09/180FZE SN OR BX	C.109
1236610000	BCZ 3.81/10/180FZE SN OR BX	C.109
1236620000	BCZ 3.81/11/180FZE SN OR BX	C.109
1236630000	BCZ 3.81/12/180FZE SN OR BX	C.109
1236640000	BCZ 3.81/13/180FZE SN OR BX	C.109
1236670000	BCZ 3.81/14/180FZE SN OR BX	C.109
1236680000	BCZ 3.81/15/180FZE SN OR BX	C.109
1236690000	BCZ 3.81/16/180FZE SN OR BX	C.109
1236700000	BCZ 3.81/17/180FZE SN OR BX	C.109
1236720000	BCZ 3.81/18/180FZE SN OR BX	C.109
1236730000	BCZ 3.81/19/180FZE SN OR BX	C.109
1236740000	BCZ 3.81/20/180FZE SN OR BX	C.109
1236790000	BCZ 3.81/05/180LRZE SN OR BX	C.109
1236800000	BCZ 3.81/06/180LRZE SN OR BX	C.109
1236810000	BCZ 3.81/07/180LRZE SN OR BX	C.109
1236820000	BCZ 3.81/08/180LRZE SN OR BX	C.109
1236830000	BCZ 3.81/09/180LRZE SN OR BX	C.109
1236840000	BCZ 3.81/10/180LRZE SN OR BX	C.109
1236850000	BCZ 3.81/11/180LRZE SN OR BX	C.109
1236870000	BCZ 3.81/12/180LRZE SN OR BX	C.109
1236880000	BCZ 3.81/13/180LRZE SN OR BX	C.109
1236890000	BCZ 3.81/14/180LRZE SN OR BX	C.109
1236900000	BCZ 3.81/15/180LRZE SN OR BX	C.109
1236910000	BCZ 3.81/16/180LRZE SN OR BX	C.109
1236920000	BCZ 3.81/17/180LRZE SN OR BX	C.109
1236930000	BCZ 3.81/18/180LRZE SN OR BX	C.109
1236940000	BCZ 3.81/19/180LRZE SN OR BX	C.109
1236970000	BCZ 3.81/20/180LRZE SN OR BX	C.109
1236990000	SCZ 3.81/04/180GZE SN BK BX	C.104
1237000000	SCZ 3.81/04/180GZE SN OR BX	C.104
1237010000	SCZ 3.81/05/180GZE SN OR BX	C.104
1237020000	SCZ 3.81/06/180GZE SN OR BX	C.104
1237030000	SCZ 3.81/07/180GZE SN OR BX	C.104
1237040000	SCZ 3.81/08/180GZE SN OR BX	C.104
1237070000	SCZ 3.81/09/180GZE SN OR BX	C.104
1237080000	SCZ 3.81/10/180GZE SN OR BX	C.104
1237090000	SCZ 3.81/11/180GZE SN OR BX	C.104
1237100000	SCZ 3.81/12/180GZE SN OR BX	C.104
1237110000	SCZ 3.81/04/180FZE SN BK BX	C.105
1237120000	SCZ 3.81/04/180FZE SN OR BX	C.105
1237130000	SCZ 3.81/05/180FZE SN OR BX	C.105
1237140000	SCZ 3.81/06/180FZE SN OR BX	C.105
1237170000	SCZ 3.81/07/180FZE SN OR BX	C.105
1237180000	SCZ 3.81/08/180FZE SN OR BX	C.105
1237190000	SCZ 3.81/09/180FZE SN OR BX	C.105
1237200000	SCZ 3.81/10/180FZE SN OR BX	C.105
1237210000	SCZ 3.81/11/180FZE SN OR BX	C.105
1237220000	SCZ 3.81/12/180FZE SN OR BX	C.105
1237230000	SCZ 3.81/04/180LRZE SN BK BX	C.105
1237240000	SCZ 3.81/05/180LRZE SN BK BX	C.105
1237270000	SCZ 3.81/06/180LRZE SN BK BX	C.105
1237280000	SCZ 3.81/07/180LRZE SN BK BX	C.105
1237290000	SCZ 3.81/08/180LRZE SN BK BX	C.105
1237300000	SCZ 3.81/09/180LRZE SN BK BX	C.105
1237310000	SCZ 3.81/10/180LRZE SN BK BX	C.105
1237320000	SCZ 3.81/11/180LRZE SN BK BX	C.105
1237330000	SCZ 3.81/12/180LRZE SN BK BX	C.105
1237340000	SCZ 3.81/04/180LRZE SN OR BX	C.105
1237350000	SCZ 3.81/05/180LRZE SN OR BX	C.105
1237370000	SCZ 3.81/06/180LRZE SN OR BX	C.105
1237380000	SCZ 3.81/07/180LRZE SN OR BX	C.105
1237390000	SCZ 3.81/08/180LRZE SN OR BX	C.105
1237400000	SCZ 3.81/09/180LRZE SN OR BX	C.105
1237410000	SCZ 3.81/10/180LRZE SN OR BX	C.105
1237420000	SCZ 3.81/11/180LRZE SN OR BX	C.105
1237430000	SCZ 3.81/12/180LRZE SN OR BX	C.105
1237440000	SCZ 3.81/04/180FIZE SN BK BX	C.105
1237450000	SCZ 3.81/05/180FIZE SN BK BX	C.105
1237470000	SCZ 3.81/06/180FIZE SN BK BX	C.105
1237480000	SCZ 3.81/07/180FIZE SN BK BX	C.105
1237490000	SCZ 3.81/08/180FIZE SN BK BX	C.105
1237510000	SCZ 3.81/09/180FIZE SN BK BX	C.105
1237520000	SCZ 3.81/10/180FIZE SN BK BX	C.105
1237530000	SCZ 3.81/11/180FIZE SN BK BX	C.105
1237540000	SCZ 3.81/12/180FIZE SN BK BX	C.105
1237550000	SCZ 3.81/04/180FIZE SN OR BX	C.105
1237560000	SCZ 3.81/05/180FIZE SN OR BX	C.105
1237570000	SCZ 3.81/06/180FIZE SN OR BX	C.105
1237580000	SCZ 3.81/07/180FIZE SN OR BX	C.105
1237590000	SCZ 3.81/08/180FIZE SN OR BX	C.105
1237610000	SCZ 3.81/09/180FIZE SN OR BX	C.105
1237620000	SCZ 3.81/10/180FIZE SN OR BX	C.105
1237630000	SCZ 3.81/11/180FIZE SN OR BX	C.105
1237640000	SCZ 3.81/12/180FIZE SN OR BX	C.105

1240000000

1247240000	CH20M67 B BUS BK/OR	I.26
1247250000	CH20M67 B FE BK/OR	I.26
1248150000	CH20M BUS-PROFIL TS 35X7.5/250	I.35
1248160000	CH20M BUS-PROFIL TS 35X7.5/500	I.35
1248170000	CH20M BUS-PROFIL TS 35X7.5/750	I.35
1248180000	CH20M BUS-PROFIL TS 35X15/250	I.35
1248190000	CH20M BUS-PROFIL TS 35X15/500	I.35
1248210000	CH20M BUS-PROFIL TS 35X15/750	I.35
1248220000	CH20M BUS 4.50/05 AU/250	I.35
1248230000	CH20M BUS 4.50/05 AU/500	I.35
1248240000	CH20M BUS 4.50/05 AU/750	I.35
1248250000	CH20M BUS-ADP TS 35/250	I.35
1248260000	CH20M BUS-ADP TS 35/500	I.35
1248270000	CH20M BUS-ADP TS 35/750	I.35

1250000000

1250360000	LSF-SMD 3.50/02/180 SN BK RL	B.58
1250370000	LSF-SMD 3.50/03/180 SN BK RL	B.58
1250380000	LSF-SMD 3.50/04/180 SN BK RL	B.58
1250390000	LSF-SMD 3.50/05/180 SN BK RL	B.58
1250410000	LSF-SMD 3.50/06/180 SN BK RL	B.58
1250420000	LSF-SMD 3.50/07/180 SN BK RL	B.58
1250430000	LSF-SMD 3.50/08/180 SN BK RL	B.58
1250440000	LSF-SMD 3.50/09/180 SN BK RL	B.58
1250450000	LSF-SMD 3.50/10/180 SN BK RL	B.58
1250460000	LSF-SMD 3.50/11/180 SN BK RL	B.58
1250470000	LSF-SMD 3.50/12/180 SN BK RL	B.58
1250570000	DP WGK 10 SW	G.9
1250580000	DP WGK 16 SW	G.11
1250590000	DP WGK 25 SW	G.12
1250610000	DP WGK 50 SW	G.13
1250620000	DP WGK 95 SW	G.14
1250630000	DP VWGK 6 SW	G.15
1250640000	VWGK 6 SW	G.15
1250650000	VWGK 4 SW	G.15
1250660000	WGK 95 F VP SW	G.14
1250670000	WGK 95 F VP/Z SW	G.14
1250680000	WGK 95 SW	G.13
1250690000	WGK 95/Z SW	G.13
1250710000	WGK 50 VP SW	G.13
1250720000	WGK 50 VP/Z SW	G.13
1250730000	WGK 50 SW	G.13
1250740000	WGK 50/Z SW	G.13
1250750000	WGK 25 VP SW	G.12
1250760000	WGK 25 VP/Z SW	G.12
1250770000	WGKV 25 SW	G.12
1250780000	WGKV 25/Z SW	G.12
1250790000	WGK 25 SW	G.11
1250810000	WGK 25/Z SW	G.11
1250820000	WGK 16 VP SW	G.11
1250830000	WGK 16 VP/Z SW	G.11
1250840000	WGKV 16 SW	G.11
1250850000	WGKV 16/Z SW	G.11
1250860000	WGK 16 SW	G.10
1250870000	WGK 16/Z SW	G.10
1250880000	WGK 10 SW	G.9
1250890000	WGK 10/Z SW	G.9
1250910000	WGKV 10 SW	G.9
1250920000	WGKV 10/Z SW	G.9
1250930000	WGK 4 SW	G.8
1250940000	WGK 4/Z SW	G.8
1250950000	WGKV 4 SW	G.8
1250960000	WGKV 4/Z SW	G.8
1251030000	DP VWGK 4 SW	G.15
1251330000	LL 5.00/13/90 3.2SN OR BX	B.38
1251340000	LL 5.00/15/90 3.2SN OR BX	B.38
1251350000	LL 5.00/17/90 3.2SN OR BX	B.38
1251360000	LL 5.00/18/90 3.2SN OR BX	B.38
1251370000	LL 5.00/19/90 3.2SN OR BX	B.38
1251380000	LL 5.00/20/90 3.2SN OR BX	B.38
1251390000	LL 5.00/21/90 3.2SN OR BX	B.38
1251410000	LL 5.00/22/90 3.2SN OR BX	B.38
1251420000	LL 5.00/23/90 3.2SN OR BX	B.38
1254110000	CH20M AD SHL 5.00/03 BK	I.21
1254120000	CH20M17 B BK/BK	I.20
1254130000	CH20M17 B BK/OR	I.20
1254140000	CH20M17 F BK	I.21
1254150000	CH20M17 C BK	I.21
1254160000	CH20M17 C TP	I.21
1254170000	CH20M17 S PPP BK	I.20
1254180000	CH20M17 B BUS BK/OR	I.20
1254190000	CH20M17 B FE BK/OR	I.20

1270000000

1277270000	B2CF 3.50/04/180 SN OR BX	C.12
1277280000	B2CF 3.50/06/180 SN OR BX	C.12
1277290000	B2CF 3.50/08/180 SN OR BX	C.12
1277310000	B2CF 3.50/10/180 SN OR BX	C.12
1277320000	B2CF 3.50/12/180 SN OR BX	C.12
1277330000	B2CF 3.50/14/180 SN OR BX	C.12
1277340000	B2CF 3.50/16/180 SN OR BX	C.12
1277350000	B2CF 3.50/18/180 SN OR BX	C.12
1277360000	B2CF 3.50/20/180 SN OR BX	C.12
1277370000	B2CF 3.50/22/180 SN OR BX	C.12
1277380000	B2CF 3.50/24/180 SN OR BX	C.12
1277390000	B2CF 3.50/26/180 SN OR BX	C.12
1277410000	B2CF 3.50/28/180 SN OR BX	C.12
1277420000	B2CF 3.50/30/180 SN OR BX	C.12
1277430000	B2CF 3.50/32/180 SN OR BX	C.12
1277440000	B2CF 3.50/34/180 SN OR BX	C.12
1277450000	B2CF 3.50/36/180 SN OR BX	C.12
1277460000	B2CF 3.50/04/180 SN BK BX	C.12
1277470000	B2CF 3.50/06/180 SN BK BX	C.12
1277480000	B2CF 3.50/08/180 SN BK BX	C.12
1277490000	B2CF 3.50/10/180 SN BK BX	C.12
1277510000	B2CF 3.50/12/180 SN BK BX	C.12
1277520000	B2CF 3.50/14/180 SN BK BX	C.12
1277530000	B2CF 3.50/16/180 SN BK BX	C.12
1277540000	B2CF 3.50/18/180 SN BK BX	C.12
1277550000	B2CF 3.50/20/180 SN BK BX	C.12
1277560000	B2CF 3.50/22/180 SN BK BX	C.12
1277570000	B2CF 3.50/24/180 SN BK BX	C.12
1277580000	B2CF 3.50/26/180 SN BK BX	C.12
1277590000	B2CF 3.50/28/180 SN BK BX	C.12
1277610000	B2CF 3.50/30/180 SN BK BX	C.12
1277620000	B2CF 3.50/32/180 SN BK BX	C.12
1277630000	B2CF 3.50/34/180 SN BK BX	C.12
1277640000	B2CF 3.50/36/180 SN BK BX	C.12
1277650000	B2CF 3.50/04/180F SN OR BX	C.13
1277670000	B2CF 3.50/06/180F SN OR BX	C.13
1277680000	B2CF 3.50/08/180F SN OR BX	C.13
1277690000	B2CF 3.50/10/180F SN OR BX	C.13
1277720000	B2CF 3.50/12/180F SN OR BX	C.13
1277730000	B2CF 3.50/14/180F SN OR BX	C.13
1277740000	B2CF 3.50/16/180F SN OR BX	C.13
1277750000	B2CF 3.50/18/180F SN OR BX	C.13
1277760000	B2CF 3.50/20/180F SN OR BX	C.13
1277770000	B2CF 3.50/22/180F SN OR BX	C.13
1277780000	B2CF 3.50/24/180F SN OR BX	C.13
1277790000	B2CF 3.50/26/180F SN OR BX	C.13
1277810000	B2CF 3.50/28/180F SN OR BX	C.13
1277820000	B2CF 3.50/30/180F SN OR BX	C.13
1277830000	B2CF 3.50/32/180F SN OR BX	C.13
1277840000	B2CF 3.50/34/180F SN OR BX	C.13
1277850000	B2CF 3.50/36/180F SN OR BX	C.13
1277860000	B2CF 3.50/04/180F SN BK BX	C.13
1277870000	B2CF 3.50/06/180F SN BK BX	C.13
1277880000	B2CF 3.50/08/180F SN BK BX	C.13
1277890000	B2CF 3.50/10/180F SN BK BX	C.13
1277900000	B2CF 3.50/12/180F SN BK BX	C.13
1277910000	B2CF 3.50/14/180F SN BK BX	C.13
1277920000	B2CF 3.50/16/180F SN BK BX	C.13
1277930000	B2CF 3.50/18/180F SN BK BX	C.13
1277940000	B2CF 3.50/20/180F SN BK BX	C.13
1277950000	B2CF 3.50/22/180F SN BK BX	C.13
1277970000	B2CF 3.50/24/180F SN BK BX	C.13
1277980000	B2CF 3.50/26/180F SN BK BX	C.13
1277990000	B2CF 3.50/28/180F SN BK BX	C.13
1278000000	B2CF 3.50/30/180F SN BK BX	C.13
1278010000	B2CF 3.50/32/180F SN BK BX	C.13
1278020000	B2CF 3.50/34/180F SN BK BX	C.13
1278030000	B2CF 3.50/36/180F SN BK BX	C.13
1278040000	B2CF 3.50/04/180LR SN OR BX	C.13
1278050000	B2CF 3.50/06/180LR SN OR BX	C.13
1278060000	B2CF 3.50/08/180LR SN OR BX	C.13
1278070000	B2CF 3.50/10/180LR SN OR BX	C.13
1278080000	B2CF 3.50/12/180LR SN OR BX	C.13
1278090000	B2CF 3.50/14/180LR SN OR BX	C.13
1278100000	B2CF 3.50/16/180LR SN OR BX	C.13
1278110000	B2CF 3.50/18/180LR SN OR BX	C.13
1278120000	B2CF 3.50/20/180LR SN OR BX	C.13
1278130000	B2CF 3.50/22/180LR SN OR BX	C.13
1278140000	B2CF 3.50/24/180LR SN OR BX	C.13

X

Order No.	Type	Page
1278150000	B2CF 3.50/26/180LR SN OR BX	C.13
1278170000	B2CF 3.50/28/180LR SN OR BX	C.13
1278180000	B2CF 3.50/30/180LR SN OR BX	C.13
1278190000	B2CF 3.50/32/180LR SN OR BX	C.13
1278200000	B2CF 3.50/34/180LR SN OR BX	C.13
1278210000	B2CF 3.50/36/180LR SN OR BX	C.13
1278230000	B2CF 3.50/04/180LR SN BK BX	C.13
1278240000	B2CF 3.50/06/180LR SN BK BX	C.13
1278250000	B2CF 3.50/08/180LR SN BK BX	C.13
1278260000	B2CF 3.50/10/180LR SN BK BX	C.13
1278270000	B2CF 3.50/12/180LR SN BK BX	C.13
1278280000	B2CF 3.50/14/180LR SN BK BX	C.13
1278290000	B2CF 3.50/16/180LR SN BK BX	C.13
1278300000	B2CF 3.50/18/180LR SN BK BX	C.13
1278310000	B2CF 3.50/20/180LR SN BK BX	C.13
1278320000	B2CF 3.50/22/180LR SN BK BX	C.13
1278340000	B2CF 3.50/24/180LR SN BK BX	C.13
1278350000	B2CF 3.50/26/180LR SN BK BX	C.13
1278370000	B2CF 3.50/28/180LR SN BK BX	C.13
1278380000	B2CF 3.50/30/180LR SN BK BX	C.13
1278390000	B2CF 3.50/32/180LR SN BK BX	C.13
1278400000	B2CF 3.50/34/180LR SN BK BX	C.13
1278410000	B2CF 3.50/36/180LR SN BK BX	C.13

1280000000

1288980000	S2C-SMT 3.50/04/90G 3.2SN BK BX	C.6
1289000000	BUL 10.16HP/02/180 4.5AG BK BX SO	F.90
1289010000	BUL 10.16HP/04/180 4.5AG BK BX SO	F.90
1289270000	S2C-SMT 3.50/06/90G 3.2SN BK BX	C.6
1289280000	S2C-SMT 3.50/08/90G 3.2SN BK BX	C.6
1289290000	S2C-SMT 3.50/10/90G 3.2SN BK BX	C.6
1289300000	S2C-SMT 3.50/12/90G 3.2SN BK BX	C.6
1289310000	S2C-SMT 3.50/14/90G 3.2SN BK BX	C.6
1289320000	S2C-SMT 3.50/16/90G 3.2SN BK BX	C.6
1289330000	S2C-SMT 3.50/18/90G 3.2SN BK BX	C.6
1289340000	S2C-SMT 3.50/20/90G 3.2SN BK BX	C.6
1289350000	S2C-SMT 3.50/22/90G 3.2SN BK BX	C.6
1289370000	S2C-SMT 3.50/24/90G 3.2SN BK BX	C.6
1289380000	S2C-SMT 3.50/26/90G 3.2SN BK BX	C.6
1289390000	S2C-SMT 3.50/28/90G 3.2SN BK BX	C.6
1289410000	S2C-SMT 3.50/30/90G 3.2SN BK BX	C.6
1289420000	S2C-SMT 3.50/32/90G 3.2SN BK BX	C.6
1289430000	S2C-SMT 3.50/34/90G 3.2SN BK BX	C.6
1289440000	S2C-SMT 3.50/36/90G 3.2SN BK BX	C.6
1289450000	S2C-SMT 3.50/04/90LF 3.2SN BK BX	C.7
1289460000	S2C-SMT 3.50/06/90LF 3.2SN BK BX	C.7
1289470000	S2C-SMT 3.50/08/90LF 3.2SN BK BX	C.7
1289480000	S2C-SMT 3.50/10/90LF 3.2SN BK BX	C.7
1289490000	S2C-SMT 3.50/12/90LF 3.2SN BK BX	C.7
1289500000	S2C-SMT 3.50/14/90LF 3.2SN BK BX	C.7
1289510000	S2C-SMT 3.50/16/90LF 3.2SN BK BX	C.7
1289520000	S2C-SMT 3.50/18/90LF 3.2SN BK BX	C.7
1289530000	S2C-SMT 3.50/20/90LF 3.2SN BK BX	C.7
1289540000	S2C-SMT 3.50/22/90LF 3.2SN BK BX	C.7
1289550000	S2C-SMT 3.50/24/90LF 3.2SN BK BX	C.7
1289570000	S2C-SMT 3.50/26/90LF 3.2SN BK BX	C.7
1289580000	S2C-SMT 3.50/28/90LF 3.2SN BK BX	C.7
1289590000	S2C-SMT 3.50/30/90LF 3.2SN BK BX	C.7
1289600000	S2C-SMT 3.50/32/90LF 3.2SN BK BX	C.7
1289610000	S2C-SMT 3.50/34/90LF 3.2SN BK BX	C.7
1289620000	S2C-SMT 3.50/36/90LF 3.2SN BK BX	C.7
1289630000	S2C-SMT 3.50/04/90G 1.5SN BK BX	C.6
1289640000	S2C-SMT 3.50/06/90G 1.5SN BK BX	C.6
1289650000	S2C-SMT 3.50/08/90G 1.5SN BK BX	C.6
1289670000	S2C-SMT 3.50/10/90G 1.5SN BK BX	C.6
1289680000	S2C-SMT 3.50/12/90G 1.5SN BK BX	C.6
1289700000	S2C-SMT 3.50/14/90G 1.5SN BK BX	C.6
1289710000	S2C-SMT 3.50/16/90G 1.5SN BK BX	C.6
1289720000	S2C-SMT 3.50/18/90G 1.5SN BK BX	C.6
1289730000	S2C-SMT 3.50/20/90G 1.5SN BK BX	C.6
1289740000	S2C-SMT 3.50/22/90G 1.5SN BK BX	C.6
1289750000	S2C-SMT 3.50/24/90G 1.5SN BK BX	C.6
1289770000	S2C-SMT 3.50/26/90G 1.5SN BK BX	C.6
1289780000	S2C-SMT 3.50/28/90G 1.5SN BK BX	C.6
1289790000	S2C-SMT 3.50/30/90G 1.5SN BK BX	C.6
1289800000	S2C-SMT 3.50/32/90G 1.5SN BK BX	C.6
1289810000	S2C-SMT 3.50/34/90G 1.5SN BK BX	C.6
1289820000	S2C-SMT 3.50/36/90G 1.5SN BK BX	C.6
1289830000	S2C-SMT 3.50/04/90LF 1.5SN BK BX	C.7
1289840000	S2C-SMT 3.50/06/90LF 1.5SN BK BX	C.7
1289850000	S2C-SMT 3.50/08/90LF 1.5SN BK BX	C.7
1289870000	S2C-SMT 3.50/10/90LF 1.5SN BK BX	C.7
1289880000	S2C-SMT 3.50/12/90LF 1.5SN BK BX	C.7
1289890000	S2C-SMT 3.50/14/90LF 1.5SN BK BX	C.7
1289910000	S2C-SMT 3.50/16/90LF 1.5SN BK BX	C.7
1289930000	S2C-SMT 3.50/18/90LF 1.5SN BK BX	C.7
1289940000	S2C-SMT 3.50/20/90LF 1.5SN BK BX	C.7
1289950000	S2C-SMT 3.50/22/90LF 1.5SN BK BX	C.7
1289960000	S2C-SMT 3.50/24/90LF 1.5SN BK BX	C.7
1289970000	S2C-SMT 3.50/26/90LF 1.5SN BK BX	C.7
1289980000	S2C-SMT 3.50/28/90LF 1.5SN BK BX	C.7
1289990000	S2C-SMT 3.50/30/90LF 1.5SN BK BX	C.7

1290000000

1290000000	S2C-SMT 3.50/32/90LF 1.5SN BK BX	C.7
1290010000	S2C-SMT 3.50/34/90LF 1.5SN BK BX	C.7
1290020000	S2C-SMT 3.50/36/90LF 1.5SN BK BX	C.7
1290030000	S2C-SMT 3.50/04/180G 3.5SN BK BX	C.8
1290040000	S2C-SMT 3.50/06/180G 3.5SN BK BX	C.8
1290050000	S2C-SMT 3.50/08/180G 3.5SN BK BX	C.8
1290060000	S2C-SMT 3.50/10/180G 3.5SN BK BX	C.8
1290070000	S2C-SMT 3.50/12/180G 3.5SN BK BX	C.8
1290080000	S2C-SMT 3.50/14/180G 3.5SN BK BX	C.8
1290090000	S2C-SMT 3.50/16/180G 3.5SN BK BX	C.8
1290110000	S2C-SMT 3.50/18/180G 3.5SN BK BX	C.8
1290120000	S2C-SMT 3.50/20/180G 3.5SN BK BX	C.8
1290130000	S2C-SMT 3.50/22/180G 3.5SN BK BX	C.8
1290140000	S2C-SMT 3.50/24/180G 3.5SN BK BX	C.8
1290150000	S2C-SMT 3.50/26/180G 3.5SN BK BX	C.8
1290160000	S2C-SMT 3.50/28/180G 3.5SN BK BX	C.8
1290170000	S2C-SMT 3.50/30/180G 3.5SN BK BX	C.8
1290180000	S2C-SMT 3.50/32/180G 3.5SN BK BX	C.8
1290190000	S2C-SMT 3.50/34/180G 3.5SN BK BX	C.8
1290210000	S2C-SMT 3.50/36/180G 3.5SN BK BX	C.8
1290220000	S2C-SMT 3.50/04/180LF 3.5SN BK BX	C.9
1290230000	S2C-SMT 3.50/06/180LF 3.5SN BK BX	C.9
1290240000	S2C-SMT 3.50/08/180LF 3.5SN BK BX	C.9
1290250000	S2C-SMT 3.50/10/180LF 3.5SN BK BX	C.9
1290260000	S2C-SMT 3.50/12/180LF 3.5SN BK BX	C.9
1290270000	S2C-SMT 3.50/14/180LF 3.5SN BK BX	C.9
1290280000	S2C-SMT 3.50/16/180LF 3.5SN BK BX	C.9
1290290000	S2C-SMT 3.50/18/180LF 3.5SN BK BX	C.9
1290310000	S2C-SMT 3.50/20/180LF 3.5SN BK BX	C.9
1290320000	S2C-SMT 3.50/22/180LF 3.5SN BK BX	C.9
1290330000	S2C-SMT 3.50/24/180LF 3.5SN BK BX	C.9
1290340000	S2C-SMT 3.50/26/180LF 3.5SN BK BX	C.9
1290350000	S2C-SMT 3.50/28/180LF 3.5SN BK BX	C.9
1290360000	S2C-SMT 3.50/30/180LF 3.5SN BK BX	C.9
1290370000	S2C-SMT 3.50/32/180LF 3.5SN BK BX	C.9
1290380000	S2C-SMT 3.50/34/180LF 3.5SN BK BX	C.9
1290410000	S2C-SMT 3.50/04/180G 1.5SN BK BX	C.8
1290420000	S2C-SMT 3.50/06/180G 1.5SN BK BX	C.8
1290430000	S2C-SMT 3.50/08/180G 1.5SN BK BX	C.8
1290440000	S2C-SMT 3.50/10/180G 1.5SN BK BX	C.8
1290450000	S2C-SMT 3.50/12/180G 1.5SN BK BX	C.8
1290460000	S2C-SMT 3.50/14/180G 1.5SN BK BX	C.8
1290470000	S2C-SMT 3.50/16/180G 1.5SN BK BX	C.8
1290480000	S2C-SMT 3.50/18/180G 1.5SN BK BX	C.8
1290490000	S2C-SMT 3.50/20/180G 1.5SN BK BX	C.8
1290510000	S2C-SMT 3.50/22/180G 1.5SN BK BX	C.8
1290520000	S2C-SMT 3.50/24/180G 1.5SN BK BX	C.8
1290530000	S2C-SMT 3.50/26/180G 1.5SN BK BX	C.8
1290540000	S2C-SMT 3.50/28/180G 1.5SN BK BX	C.8
1290550000	S2C-SMT 3.50/30/180G 1.5SN BK BX	C.8
1290560000	S2C-SMT 3.50/32/180G 1.5SN BK BX	C.8
1290570000	S2C-SMT 3.50/34/180G 1.5SN BK BX	C.8
1290580000	S2C-SMT 3.50/36/180G 1.5SN BK BX	C.8
1290590000	S2C-SMT 3.50/04/180LF 1.5SN BK BX	C.9
1290610000	S2C-SMT 3.50/06/180LF 1.5SN BK BX	C.9
1290640000	S2C-SMT 3.50/10/180LF 1.5SN BK BX	C.9
1290650000	S2C-SMT 3.50/12/180LF 1.5SN BK BX	C.9
1290660000	S2C-SMT 3.50/14/180LF 1.5SN BK BX	C.9
1290670000	S2C-SMT 3.50/16/180LF 1.5SN BK BX	C.9
1290680000	S2C-SMT 3.50/18/180LF 1.5SN BK BX	C.9
1290690000	S2C-SMT 3.50/20/180LF 1.5SN BK BX	C.9
1290710000	S2C-SMT 3.50/22/180LF 1.5SN BK BX	C.9
1290720000	S2C-SMT 3.50/24/180LF 1.5SN BK BX	C.9
1290730000	S2C-SMT 3.50/26/180LF 1.5SN BK BX	C.9
1290740000	S2C-SMT 3.50/28/180LF 1.5SN BK BX	C.9
1290750000	S2C-SMT 3.50/30/180LF 1.5SN BK BX	C.9
1290760000	S2C-SMT 3.50/32/180LF 1.5SN BK BX	C.9
1290770000	S2C-SMT 3.50/34/180LF 1.5SN BK BX	C.9
1290780000	S2C-SMT 3.50/36/180LF 1.5SN BK BX	C.9
1297840000	DP WGK 4 SW	G.8

1300000000

1307570000	BBDF OR	D.5
1307580000	BBDF BK	D.5

1320000000

1324260000	AP 80	I.46
1324360000	AP 80 D	I.46
1324460000	RF 180	I.46

1330000000

1333100000	H2,5/14S BL	C.158
1335330000	SLF 5.08/02/180 SN OR BX	C.216
1335340000	SLF 5.08/03/180 SN OR BX	C.216
1335350000	SLF 5.08/04/180 SN OR BX	C.216
1335360000	SLF 5.08/05/180 SN OR BX	C.216
1335370000	SLF 5.08/06/180 SN OR BX	C.216
1335380000	SLF 5.08/07/180 SN OR BX	C.216
1335390000	SLF 5.08/08/180 SN OR BX	C.216
1335400000	SLF 5.08/09/180 SN OR BX	C.216
1335410000	SLF 5.08/10/180 SN OR BX	C.216
1335420000	SLF 5.08/11/180 SN OR BX	C.216
1335430000	SLF 5.08/12/180 SN OR BX	C.216
1335440000	SLF 5.08/02/180B SN OR BX	C.217
1335450000	SLF 5.08/03/180B SN OR BX	C.217
1335460000	SLF 5.08/04/180B SN OR BX	C.217
1335470000	SLF 5.08/05/180B SN OR BX	C.217
1335480000	SLF 5.08/06/180B SN OR BX	C.217
1335490000	SLF 5.08/07/180B SN OR BX	C.217
1335510000	SLF 5.08/08/180B SN OR BX	C.217
1335520000	SLF 5.08/09/180B SN OR BX	C.217
1335530000	SLF 5.08/10/180B SN OR BX	C.217
1335540000	SLF 5.08/11/180B SN OR BX	C.217
1335550000	SLF 5.08/12/180B SN OR BX	C.217
1335560000	SLF 5.08/02/180 SN BK BX	C.216
1335570000	SLF 5.08/03/180 SN BK BX	C.216
1335580000	SLF 5.08/04/180 SN BK BX	C.216
1335590000	SLF 5.08/02/180F SN OR BX	C.217
1335610000	SLF 5.08/05/180 SN BK BX	C.216
1335620000	SLF 5.08/03/180F SN OR BX	C.217
1335630000	SLF 5.08/06/180 SN BK BX	C.216
1335640000	SLF 5.08/04/180F SN OR BX	C.217
1335650000	SLF 5.08/07/180 SN BK BX	C.216
1335660000	SLF 5.08/05/180F SN OR BX	C.217
1335670000	SLF 5.08/08/180 SN BK BX	C.216
1335680000	SLF 5.08/06/180F SN OR BX	C.217
1335690000	SLF 5.08/09/180 SN BK BX	C.216
1335700000	SLF 5.08/07/180F SN OR BX	C.217
1335710000	SLF 5.08/10/180 SN BK BX	C.216
1335720000	SLF 5.08/08/180F SN OR BX	C.217
1335730000	SLF 5.08/11/180 SN BK BX	C.216
1335740000	SLF 5.08/09/180F SN OR BX	C.217
1335750000	SLF 5.08/12/180 SN BK BX	C.216
1335760000	SLF 5.08/10/180F SN OR BX	C.217
1335770000	SLF 5.08/02/180B SN BK BX	C.217
1335780000	SLF 5.08/11/180F SN OR BX	C.217
1335790000	SLF 5.08/03/180B SN BK BX	C.217
1335800000	SLF 5.08/12/180F SN OR BX	C.217
1335810000	SLF 5.08/04/180B SN BK BX	C.217
1335830000	SLF 5.08/05/180B SN BK BX	C.217
1335850000	SLF 5.08/06/180B SN BK BX	C.217
1335880000	SLF 5.08/07/180B SN BK BX	C.217
1335900000	SLF 5.08/08/180B SN BK BX	C.217
1335920000	SLF 5.08/09/180B SN BK BX	C.217
1335940000	SLF 5.08/10/180B SN BK BX	C.217
1335970000	SLF 5.08/11/180B SN BK BX	C.217
1335990000	SLF 5.08/12/180B SN BK BX	C.217
1336040000	SLF 5.08/02/180FI SN BK BX	C.217
1336050000	SLF 5.08/03/180FI SN BK BX	C.217
1336070000	SLF 5.08/04/180FI SN BK BX	C.217
1336080000	SLF 5.08/05/180FI SN BK BX	C.217
1336090000	SLF 5.08/06/180FI SN BK BX	C.217
1336100000	SLF 5.08/07/180FI SN BK BX	C.217
1336110000	SLF 5.08/08/180FI SN BK BX	C.217
1336120000	SLF 5.08/09/180FI SN BK BX	C.217
1336130000	SLF 5.08/10/180FI SN BK BX	C.217
1336140000	SLF 5.08/11/180FI SN BK BX	C.217
1336150000	SLF 5.08/12/180FI SN BK BX	C.217
1336170000	SLF 5.08/02/180F SN BK BX	C.217
1336180000	SLF 5.08/03/180F SN BK BX	C.217
1336190000	SLF 5.08/04/180F SN BK BX	C.217
1336200000	SLF 5.08/05/180F SN BK BX	C.217
1336210000	SLF 5.08/06/180F SN BK BX	C.217
1336220000	SLF 5.08/07/180F SN BK BX	C.217
1336230000	SLF 5.08/08/180F SN BK BX	C.217
1336240000	SLF 5.08/09/180F SN BK BX	C.217
1336250000	SLF 5.08/10/180F SN BK BX	C.217
1336270000	SLF 5.08/11/180F SN BK BX	C.217
1336280000	SLF 5.08/12/180F SN BK BX	C.217
1336400000	SLF 5.08/02/180FI SN OR BX	C.217
1336410000	SLF 5.08/03/180FI SN OR BX	C.217
1336420000	SLF 5.08/04/180FI SN OR BX	C.217
1336430000	SLF 5.08/05/180FI SN OR BX	C.217
1336440000	SLF 5.08/06/180FI SN OR BX	C.217
1336450000	SLF 5.08/07/180FI SN OR BX	C.217
1336470000	SLF 5.08/08/180FI SN OR BX	C.217
1336480000	SLF 5.08/09/180FI SN OR BX	C.217
1336490000	SLF 5.08/10/180FI SN OR BX	C.217
1336500000	SLF 5.08/11/180FI SN OR BX	C.217
1336510000	SLF 5.08/12/180FI SN OR BX	C.217
1339790000	WGK 4 VP BK	G.9
1339810000	WGK 4 VP/Z BK	G.9

1340000000

1341270000	BUL 10.16HP/03/180 4.5AG BK BX SO	F.90

1350000000

1353350000	SLT 5.08/02/180DF SN OR BX	C.206
1353370000	SLT 5.08/03/180DF SN OR BX	C.206
1353380000	SLT 5.08/04/180DF SN OR BX	C.206
1353390000	SLT 5.08/05/180DF SN OR BX	C.206
1353400000	SLT 5.08/06/180DF SN OR BX	C.206
1353420000	SLT 5.08/07/180DF SN OR BX	C.206
1353430000	SLT 5.08/08/180DF SN OR BX	C.206
1353440000	SLT 5.08/09/180DF SN OR BX	C.206
1353450000	SLT 5.08/10/180DF SN OR BX	C.206
1353470000	SLS 5.08/02/180DF SN OR BX	C.204
1353480000	SLS 5.08/03/180DF SN OR BX	C.204
1353490000	SLS 5.08/04/180DF SN OR BX	C.204
1353500000	SLS 5.08/05/180DF SN OR BX	C.204
1353520000	SLS 5.08/06/180DF SN OR BX	C.204
1353530000	SLS 5.08/07/180DF SN OR BX	C.204
1353540000	SLS 5.08/08/180DF SN OR BX	C.204
1353550000	SLS 5.08/09/180DF SN OR BX	C.204
1353570000	SLS 5.08/10/180DF SN OR BX	C.204
1353580000	SLF 5.08/02/180DF SN OR BX	C.208

Order No.	Type	Page
1353590000	SLF 5.08/03/180DF SN OR BX	C.208
1353600000	SLF 5.08/04/180DF SN OR BX	C.208
1353620000	SLF 5.08/05/180DF SN OR BX	C.208
1353630000	SLF 5.08/06/180DF SN OR BX	C.208
1353640000	SLF 5.08/07/180DF SN OR BX	C.208
1353650000	SLF 5.08/08/180DF SN OR BX	C.208
1353670000	SLF 5.08/09/180DF SN OR BX	C.208
1353680000	SLF 5.08/10/180DF SN OR BX	C.208
1357790000	S2CD-THR 3.50/08/90G 3.2SN BK BX	C.10
1357800000	S2CD-THR 3.50/12/90G 3.2SN BK BX	C.10
1357820000	S2CD-THR 3.50/16/90G 3.2SN BK BX	C.10
1357830000	S2CD-THR 3.50/20/90G 3.2SN BK BX	C.10
1357840000	S2CD-THR 3.50/24/90G 3.2SN BK BX	C.10
1357850000	S2CD-THR 3.50/28/90G 3.2SN BK BX	C.10
1357870000	S2CD-THR 3.50/32/90G 3.2SN BK BX	C.10
1357880000	S2CD-THR 3.50/36/90G 3.2SN BK BX	C.10
1357890000	S2CD-THR 3.50/08/90LF 3.2SN BK BX	C.11
1357900000	S2CD-THR 3.50/12/90LF 3.2SN BK BX	C.11
1357920000	S2CD-THR 3.50/16/90LF 3.2SN BK BX	C.11
1357930000	S2CD-THR 3.50/20/90LF 3.2SN BK BX	C.11
1357940000	S2CD-THR 3.50/24/90LF 3.2SN BK BX	C.11
1357950000	S2CD-THR 3.50/28/90LF 3.2SN BK BX	C.11
1357970000	S2CD-THR 3.50/32/90LF 3.2SN BK BX	C.11
1357990000	S2CD-THR 3.50/36/90LF 3.2SN BK BX	C.11
1358530000	S2C-SMT 3.50/04/180LF 3.5SN BK RL	C.9
1358540000	S2C-SMT 3.50/06/180LF 3.5SN BK RL	C.9
1358550000	S2C-SMT 3.50/08/180LF 3.5SN BK RL	C.9
1358570000	S2C-SMT 3.50/10/180LF 3.5SN BK RL	C.9
1358580000	S2C-SMT 3.50/12/180LF 3.5SN BK RL	C.9
1358590000	S2C-SMT 3.50/14/180LF 3.5SN BK RL	C.9
1358600000	S2C-SMT 3.50/16/180LF 3.5SN BK RL	C.9
1358610000	S2C-SMT 3.50/18/180LF 3.5SN BK RL	C.9
1358620000	S2C-SMT 3.50/20/180LF 3.5SN BK RL	C.9
1358630000	S2C-SMT 3.50/04/180LF 1.5SN BK RL	C.9
1358640000	S2C-SMT 3.50/06/180LF 1.5SN BK RL	C.9
1358650000	S2C-SMT 3.50/08/180LF 1.5SN BK RL	C.9
1358670000	S2C-SMT 3.50/10/180LF 1.5SN BK RL	C.9
1358680000	S2C-SMT 3.50/12/180LF 1.5SN BK RL	C.9
1358690000	S2C-SMT 3.50/14/180LF 1.5SN BK RL	C.9
1358700000	S2C-SMT 3.50/16/180LF 1.5SN BK RL	C.9
1358710000	S2C-SMT 3.50/18/180LF 1.5SN BK RL	C.9
1358720000	S2C-SMT 3.50/20/180LF 1.5SN BK RL	C.9
1358730000	S2C-SMT 3.50/04/180G 3.5SN BK RL	C.9
1358750000	S2C-SMT 3.50/08/180G 3.5SN BK RL	C.9
1358770000	S2C-SMT 3.50/10/180G 3.5SN BK RL	C.9
1358780000	S2C-SMT 3.50/12/180G 3.5SN BK RL	C.9
1358790000	S2C-SMT 3.50/14/180G 3.5SN BK RL	C.9
1358810000	S2C-SMT 3.50/16/180G 3.5SN BK RL	C.9
1358820000	S2C-SMT 3.50/18/180G 3.5SN BK RL	C.9
1358830000	S2C-SMT 3.50/20/180G 3.5SN BK RL	C.9
1358840000	S2C-SMT 3.50/22/180G 3.5SN BK RL	C.9
1358850000	S2C-SMT 3.50/24/180G 3.5SN BK RL	C.9
1358860000	S2C-SMT 3.50/04/180G 1.5SN BK RL	C.9
1358870000	S2C-SMT 3.50/06/180G 1.5SN BK RL	C.9
1358880000	S2C-SMT 3.50/08/180G 1.5SN BK RL	C.9
1358890000	S2C-SMT 3.50/04/90LF 3.2SN BK RL	C.7
1358900000	S2C-SMT 3.50/10/180G 1.5SN BK RL	C.9
1358910000	S2C-SMT 3.50/06/90LF 3.2SN BK RL	C.7
1358920000	S2C-SMT 3.50/12/180G 1.5SN BK RL	C.9
1358930000	S2C-SMT 3.50/08/90LF 3.2SN BK RL	C.7
1358940000	S2C-SMT 3.50/14/180G 1.5SN BK RL	C.9
1358950000	S2C-SMT 3.50/10/90LF 3.2SN BK RL	C.7
1358970000	S2C-SMT 3.50/16/180G 1.5SN BK RL	C.9
1358980000	S2C-SMT 3.50/12/90LF 3.2SN BK RL	C.7
1358990000	S2C-SMT 3.50/18/180G 1.5SN BK RL	C.9
1359010000	S2C-SMT 3.50/14/90LF 3.2SN BK RL	C.7
1359020000	S2C-SMT 3.50/20/180G 1.5SN BK RL	C.9
1359030000	S2C-SMT 3.50/16/90LF 3.2SN BK RL	C.7
1359040000	S2C-SMT 3.50/22/180G 1.5SN BK RL	C.9
1359050000	S2C-SMT 3.50/18/90LF 3.2SN BK RL	C.7
1359060000	S2C-SMT 3.50/24/180G 1.5SN BK RL	C.9
1359070000	S2C-SMT 3.50/20/90LF 3.2SN BK RL	C.7
1359080000	S2C-SMT 3.50/04/90LF 1.5SN BK RL	C.7
1359090000	S2C-SMT 3.50/06/90LF 1.5SN BK RL	C.7
1359110000	S2C-SMT 3.50/08/90LF 1.5SN BK RL	C.7
1359120000	S2C-SMT 3.50/10/90LF 1.5SN BK RL	C.7
1359130000	S2C-SMT 3.50/12/90LF 1.5SN BK RL	C.7
1359140000	S2C-SMT 3.50/14/90LF 1.5SN BK RL	C.7
1359150000	S2C-SMT 3.50/16/90LF 1.5SN BK RL	C.7
1359160000	S2C-SMT 3.50/18/90LF 1.5SN BK RL	C.7
1359170000	S2C-SMT 3.50/20/90LF 1.5SN BK RL	C.7
1359460000	S2C-SMT 3.50/04/90G 3.2SN BK RL	C.7
1359470000	S2C-SMT 3.50/06/90G 3.2SN BK RL	C.7
1359480000	S2C-SMT 3.50/08/90G 3.2SN BK RL	C.7
1359490000	S2C-SMT 3.50/10/90G 3.2SN BK RL	C.7
1359510000	S2C-SMT 3.50/12/90G 3.2SN BK RL	C.7
1359520000	S2C-SMT 3.50/14/90G 3.2SN BK RL	C.7
1359530000	S2C-SMT 3.50/16/90G 3.2SN BK RL	C.7
1359540000	S2C-SMT 3.50/18/90G 3.2SN BK RL	C.7
1359550000	S2C-SMT 3.50/20/90G 3.2SN BK RL	C.7
1359560000	S2C-SMT 3.50/22/90G 3.2SN BK RL	C.7
1359570000	S2C-SMT 3.50/24/90G 3.2SN BK RL	C.7
1359580000	S2C-SMT 3.50/04/90G 1.5SN BK RL	C.7
1359590000	S2C-SMT 3.50/06/90G 1.5SN BK RL	C.7
1359600000	S2C-SMT 3.50/08/90G 1.5SN BK RL	C.7
1359610000	S2C-SMT 3.50/10/90G 1.5SN BK RL	C.7
1359620000	S2C-SMT 3.50/12/90G 1.5SN BK RL	C.7
1359630000	S2C-SMT 3.50/14/90G 1.5SN BK RL	C.7
1359640000	S2C-SMT 3.50/16/90G 1.5SN BK RL	C.7
1359650000	S2C-SMT 3.50/18/90G 1.5SN BK RL	C.7
1359670000	S2C-SMT 3.50/20/90G 1.5SN BK RL	C.7
1359680000	S2C-SMT 3.50/22/90G 1.5SN BK RL	C.7
1359690000	S2C-SMT 3.50/24/90G 1.5SN BK RL	C.7

1370000000

1379590000	BLZF 3.50/02/180LR SN OR BX	C.49
1379600000	BL 3.50/02/180LR SN OR BX	C.45
1379610000	SL-SMT 3.50/02/90RF 1.5SN BK BX	C.29

1400000000

1401760000	TOP4GS2/90 6.35 OR	B.50

1410000000

1410860000	AP 85	I.46
1410960000	AP 86	I.46
1411060000	AP 85 D	I.46
1411160000	AP 86 D	I.46
1413000000	RSV1,6 B4 GR	C.265
1413100000	RSV1,6 S4 GR	C.264
1414000000	RSV1,6 B6 GR	C.265
1414100000	RSV1,6 S6 GR	C.264
1415000000	RSV1,6 B9 GR	C.265
1415100000	RSV1,6 S9 GR	C.264
1416000000	RSV1,6 B12 GR	C.265
1416100000	RSV1,6 S12 GR	C.264
1417000000	RSV1,6 B18 GR	C.265
1417100000	RSV1,6 S18 GR	C.264
1418000000	RSV1,6 B24 GR	C.265
1418100000	RSV1,6 S24 GR	C.264
1419000000	RSV1,6 B36 GR BX	C.265
1419100000	RSV1,6 S36 GR BX	C.264

1420000000

1420500000	CS1,6R26-24 AU,75 I1,4	C.254
1420600000	CS1,6E26-24 AU,75 I1,4	C.254
1420700000	CSL1,6E26-24 AU,75 I1,4	C.254
1420800000	CB1,6R26-24 AU,75 I1,4	C.254
1420900000	CB1,6E26-24 AU,75 I1,4	C.254
1421500000	CS1,6R26-24 SN I1,4	C.254
1421600000	CS1,6E26-24 SN I1,4	C.254
1421700000	CSL1,6E26-24 SN I1,4	C.254
1421800000	CB1,6R26-24 SN I1,4	C.254
1421900000	CB1,6E26-24 SN I1,4	C.254
1422500000	CS1,6R22-20 AU,75 I1,8	C.254
1422600000	CS1,6E22-20 AU,75 I1,8	C.254
1422700000	CSL1,6E22-20 AU,75 I1,8	C.254
1422800000	CB1,6R22-20 AU,75 I1,8	C.254
1422900000	CB1,6E22-20 AU,75 I1,8	C.254
1423500000	CS1,6R22-20 SN I1,8	C.254
1423600000	CS1,6E22-20 SN I1,8	C.254
1423700000	CSL1,6E22-20 SN I1,8	C.254
1423800000	CB1,6R22-20 SN I1,8	C.254
1423900000	CB1,6E22-20 SN I1,8	C.254
1424500000	CS1,6R22-20 AU,75 I2,5	C.254
1424600000	CS1,6E22-20 AU,75 I2,5	C.254
1424700000	CSL1,6E22-20 AU,75 I2,5	C.254
1424800000	CB1,6R22-20 AU,75 I2,5	C.254
1424900000	CB1,6E22-20 AU,75 I2,5	C.254
1425500000	CS1,6R22-20 SN I2,5	C.254
1425600000	CS1,6E22-20 SN I2,5	C.254
1425700000	CSL1,6E22-20 SN I2,5	C.254
1425800000	CB1,6R22-20 SN I2,5	C.254
1425900000	CB1,6E22-20 SN I2,5	C.254
1426500000	CS1,6R18-16 AU,75 I2,5	C.254
1426600000	CS1,6E18-16 AU,75 I2,5	C.254
1426700000	CSL1,6E18-16 AU,75 I2,5	C.254
1426800000	CB1,6R18-16 AU,75 I2,5	C.254
1426900000	CB1,6E18-16 AU,75 I2,5	C.254
1427500000	CS1,6R18-16 SN I2,5	C.254
1427600000	CS1,6E18-16 SN I2,5	C.254
1427700000	CSL1,6E18-16 SN I2,5	C.254
1427800000	CB1,6R18-16 SN I2,5	C.254
1427900000	CB1,6E18-16 SN I2,5	C.254
1428500000	CS1,6R14-12 AU,75 I3,5	C.254
1428600000	CS1,6E14-12 AU,75 I3,5	C.254
1428700000	CSL1,6E14-12 AU,75 I3,5	C.254
1428800000	CB1,6R14-12 AU,75 I3,5	C.254
1428900000	CB1,6E14-12 AU,75 I3,5	C.254
1429500000	CS1,6R14-12 SN I3,5	C.254
1429600000	CS1,6E14-12 SN I3,5	C.254
1429700000	CSL1,6E14-12 SN I3,5	C.254
1429800000	CB1,6R14-12 SN I3,5	C.254
1429900000	CB1,6E14-12 SN I3,5	C.254

1440000000

1440200000	RSV1,6 LB4 GR 3,2 AU	C.262
1440300000	RSV1,6 LB4 GR 3,2 SN	C.258
1440400000	RSV1,6 LS4 GR 3,2 AU	C.260
1440500000	RSV1,6 LS4 GR 3,2 SN	C.256
1440600000	RSV1,6 LBF4 GR 3,2 AU	C.263
1440700000	RSV1,6 LBF4 GR 3,2 SN	C.259
1440800000	RSV1,6 LSF4 GR 3,2 AU	C.261
1440900000	RSV1,6 LSF4 GR 3,2 SN	C.257
1441200000	RSV1,6 LB6 GR 3,2 AU	C.262
1441300000	RSV1,6 LB6 GR 3,2 SN	C.258
1441400000	RSV1,6 LS6 GR 3,2 AU	C.260
1441500000	RSV1,6 LS6 GR 3,2 SN	C.256
1441600000	RSV1,6 LBF6 GR 3,2 AU	C.263
1441700000	RSV1,6 LBF6 GR 3,2 SN	C.259
1441800000	RSV1,6 LSF6 GR 3,2 AU	C.261
1441900000	RSV1,6 LSF6 GR 3,2 SN	C.257
1442200000	RSV1,6 LB9 GR 3,2 AU	C.262
1442300000	RSV1,6 LB9 GR 3,2 SN	C.258
1442400000	RSV1,6 LS9 GR 3,2 AU	C.260
1442500000	RSV1,6 LS9 GR 3,2 SN	C.256
1442600000	RSV1,6 LBF9 GR 3,2 AU	C.263
1442700000	RSV1,6 LBF9 GR 3,2 SN	C.259
1442800000	RSV1,6 LSF9 GR 3,2 AU	C.261
1442900000	RSV1,6 LSF9 GR 3,2 SN	C.257
1443200000	RSV1,6 LB12 GR 3,2 AU	C.262
1443300000	RSV1,6 LB12 GR 3,2 SN	C.258
1443400000	RSV1,6 LS12 GR 3,2 AU	C.260
1443500000	RSV1,6 LS12 GR 3,2 SN	C.256
1443600000	RSV1,6 LBF12 GR 3,2 AU	C.263
1443700000	RSV1,6 LBF12 GR 3,2 SN	C.259
1443800000	RSV1,6 LSF12 GR 3,2 AU	C.261
1443900000	RSV1,6 LSF12 GR 3,2 SN	C.257
1444200000	RSV1,6 LB18 GR 3,2 AU	C.262
1444300000	RSV1,6 LB18 GR 3,2 SN	C.258
1444400000	RSV1,6 LS18 GR 3,2 AU	C.260
1444500000	RSV1,6 LS18 GR 3,2 SN	C.256
1444600000	RSV1,6 LBF18 GR 3,2 AU	C.263
1444700000	RSV1,6 LBF18 GR 3,2 SN	C.259
1444800000	RSV1,6 LSF18 GR 3,2 AU	C.261
1444900000	RSV1,6 LSF18 GR 3,2 SN	C.257
1445200000	RSV1,6 LB24 GR 3,2 AU	C.262
1445300000	RSV1,6 LB24 GR 3,2 SN	C.258
1445400000	RSV1,6 LS24 GR 3,2 AU	C.260
1445500000	RSV1,6 LS24 GR 3,2 SN	C.256
1445600000	RSV1,6 LBF24 GR 3,2 AU	C.263
1445700000	RSV1,6 LBF24 GR 3,2 SN	C.259
1445800000	RSV1,6 LSF24 GR 3,2 AU	C.261
1445900000	RSV1,6 LSF24 GR 3,2 SN	C.257
1446060000	SLA BB8 RH OR	C.212
1446200000	RSV1,6 LB36 GR 3,2 AU	C.262
1446300000	RSV1,6 LB36 GR 3,2 SN	C.258
1446400000	RSV1,6 LS36 GR 3,2 AU	C.260
1446500000	RSV1,6 LS36 GR 3,2 SN	C.256
1446600000	RSV1,6 LBF36 GR 3,2 AU	C.263
1446700000	RSV1,6 LBF36 GR 3,2 SN	C.259
1446800000	RSV1,6 LSF36 GR 3,2 AU	C.261
1446900000	RSV1,6 LSF36 GR 3,2 SN	C.257

1470000000

1472200000	LPA QB 2	D.15
1472300000	LPA QB 3	D.15
1472400000	LPA QB 4	D.15
1472500000	LPA QB 10	D.15
1472600000	LPA QB 24	D.15
1474660000	TOP1.5GS9/180 5 2STI OR	B.47
1474760000	TOP1.5GS11/180 5 2ST OR	B.47

1480000000

1480000000	DFFC 0.5-1.0 SN 3000	C.248
1480100000	DFFC 1.5-2.5 SN 2500	C.248

1490000000

1490460000	TOP1.5GS5/180 7 2STI OR	B.49
1494560000	TOP4GS6/180 7.62 OR	B.53
1495060000	LPA SI STI3.2 OR	D.13
1495460000	LPA TR STI3.2 OR	D.13
1495960000	LPA FA2	D.14
1496060000	LPA FA3	D.14
1496160000	LPA FA2 BZ	D.14
1496260000	LPA FA3 BZ	D.14
1497260000	LPA BZ2	D.14
1497360000	LPA BZ3	D.14
1499510000	BLT 5.08/02/180 SN BK BX	C.226
1499560000	BLT 5.08/02/180 SN OR BX	C.226
1499610000	BLT 5.08/03/180 SN BK BX	C.226
1499660000	BLT 5.08/03/180 SN OR BX	C.226
1499710000	BLT 5.08/04/180 SN BK BX	C.226
1499760000	BLT 5.08/04/180 SN OR BX	C.226
1499810000	BLT 5.08/05/180 SN BK BX	C.226
1499860000	BLT 5.08/05/180 SN OR BX	C.226
1499910000	BLT 5.08/06/180 SN BK BX	C.226
1499960000	BLT 5.08/06/180 SN OR BX	C.226

1500000000

1500010000	BLT 5.08/07/180 SN BK BX	C.226
1500060000	BLT 5.08/07/180 SN OR BX	C.226
1500110000	BLT 5.08/08/180 SN BK BX	C.226
1500160000	BLT 5.08/08/180 SN OR BX	C.226
1500210000	BLT 5.08/09/180 SN BK BX	C.226
1500260000	BLT 5.08/09/180 SN OR BX	C.226
1500310000	BLT 5.08/10/180 SN BK BX	C.226
1500360000	BLT 5.08/10/180 SN OR BX	C.226
1500410000	BLT 5.08/11/180 SN BK BX	C.226

Order No.	Type	Page
1500460000	BLT 5.08/11/180 SN OR BX	C.226
1500510000	BLT 5.08/12/180 SN BK BX	C.226
1500560000	BLT 5.08/12/180 SN OR BX	C.226
1500610000	BLT 5.08/13/180 SN BK BX	C.226
1500660000	BLT 5.08/13/180 SN OR BX	C.226
1500710000	BLT 5.08/14/180 SN BK BX	C.226
1500760000	BLT 5.08/14/180 SN OR BX	C.226
1500810000	BLT 5.08/15/180 SN BK BX	C.226
1500860000	BLT 5.08/15/180 SN OR BX	C.226
1500910000	BLT 5.08/16/180 SN BK BX	C.226
1500960000	BLT 5.08/16/180 SN OR BX	C.226
1501010000	BLT 5.08/17/180 SN BK BX	C.226
1501060000	BLT 5.08/17/180 SN OR BX	C.226
1501110000	BLT 5.08/18/180 SN BK BX	C.226
1501160000	BLT 5.08/18/180 SN OR BX	C.226
1501210000	BLT 5.08/19/180 SN BK BX	C.226
1501260000	BLT 5.08/19/180 SN OR BX	C.226
1501310000	BLT 5.08/20/180 SN BK BX	C.226
1501360000	BLT 5.08/20/180 SN OR BX	C.226
1501410000	BLT 5.08/21/180 SN BK BX	C.226
1501460000	BLT 5.08/21/180 SN OR BX	C.226
1501510000	BLT 5.08/22/180 SN BK BX	C.226
1501560000	BLT 5.08/22/180 SN OR BX	C.226
1501610000	BLT 5.08/23/180 SN BK BX	C.226
1501660000	BLT 5.08/23/180 SN OR BX	C.226
1501710000	BLT 5.08/24/180 SN BK BX	C.226
1501760000	BLT 5.08/24/180 SN OR BX	C.226

1530000000

1539860000	TOP1.5GS BB OR	D.7

1540000000

1545710000	BLZ/SL KO SW	D.11

1560000000

1563000000	RSV1,6 ZE 36 SW	D.3
1563100000	RSV1,6 ZE 24 SW	D.3
1563200000	RSV1,6 ZE 18 SW	D.3
1563300000	RSV1,6 ZE 12 SW	D.3
1563400000	RSV1,6 ZE 9 SW	D.3
1563500000	RSV1,6 ZE 6 SW	D.3
1563600000	RSV1,6 ZE 4 SW	D.3
1565760000	CSL1,6R14-12 AU,75 I3,5	C.254
1565780000	CSL1,6R14-12 SN I3,5	C.254
1565790000	CSL1,6R18-16 AU,75 I2,5	C.254
1565810000	CSL1,6R18-16 SN I2,5	C.254
1565820000	CSL1,6R22-20 AU,75 I2,5	C.254
1565840000	CSL1,6R22-20 SN I2,5	C.254
1565850000	CSL1,6R22-20 AU,75 I1,8	C.254
1565870000	CSL1,6R22-20 SN I1,8	C.254
1565880000	CSL1,6R26-24 AU,75 I1,4	C.254
1565900000	CSL1,6R26-24 SN I1,4	C.254
1567060000	DFFC 0.5-1.0 SN E	C.248
1567070000	DFFC 1.5-2.5 SN E	C.248
1567430000	RSV1,6 KO	D.11

1570000000

1571110000	SL 5.00/12/90 3.2SN OR BX	C.144
1571130000	SL 5.00/02/90 3.2SN OR BX	C.144
1571140000	SL 5.00/03/90 3.2SN OR BX	C.144
1571150000	SL 5.00/04/90 3.2SN OR BX	C.144
1571160000	SL 5.00/05/90 3.2SN OR BX	C.144
1571170000	SL 5.00/06/90 3.2SN OR BX	C.144
1571180000	SL 5.00/07/90 3.2SN OR BX	C.144
1571190000	SL 5.00/08/90 3.2SN OR BX	C.144
1571200000	SL 5.00/09/90 3.2SN OR BX	C.144
1571210000	SL 5.00/10/90 3.2SN OR BX	C.144
1571220000	SL 5.00/11/90 3.2SN OR BX	C.144
1571230000	SL 5.00/13/90 3.2SN OR BX	C.144
1571240000	SL 5.00/14/90 3.2SN OR BX	C.144
1571250000	SL 5.00/15/90 3.2SN OR BX	C.144
1571260000	SL 5.00/16/90 3.2SN OR BX	C.144
1571270000	SL 5.00/17/90 3.2SN OR BX	C.144
1571280000	SL 5.00/18/90 3.2SN OR BX	C.144
1571290000	SL 5.00/19/90 3.2SN OR BX	C.144
1571300000	SL 5.00/20/90 3.2SN OR BX	C.144
1571310000	SL 5.00/21/90 3.2SN OR BX	C.144
1571320000	SL 5.00/22/90 3.2SN OR BX	C.144
1571330000	SL 5.00/23/90 3.2SN OR BX	C.144
1571340000	SL 5.00/24/90 3.2SN OR BX	C.144
1571700000	TOP4GS9/180 7.62 OR	B.53
1571720000	SLA BB4 OR	C.212
1573010000	BLZ/SL KO OR	D.11
1577980000	BLAT ZE4 OR	D.2
1578010000	BLAT ZE8 OR	D.2
1578820000	TOP1.5GS5/90 5 2STI OR	B.46

1580000000

1580100000	SL FLA 1.5/1	D.9
1580110000	SL FLA 3.8/1	D.9
1580120000	SL FLA 9.0/1	D.9
1580860000	SL 5.00/02/90B 3.2SN OR BX	C.145
1580870000	SL 5.00/03/90B 3.2SN OR BX	C.145
1580880000	SL 5.00/04/90B 3.2SN OR BX	C.145
1580890000	SL 5.00/05/90B 3.2SN OR BX	C.145
1580900000	SL 5.00/06/90B 3.2SN OR BX	C.145
1580910000	SL 5.00/07/90B 3.2SN OR BX	C.145
1580920000	SL 5.00/08/90B 3.2SN OR BX	C.145
1580930000	SL 5.00/09/90B 3.2SN OR BX	C.145
1580940000	SL 5.00/10/90B 3.2SN OR BX	C.145
1580950000	SL 5.00/11/90B 3.2SN OR BX	C.145
1580960000	SL 5.00/12/90B 3.2SN OR BX	C.145
1580970000	SL 5.00/13/90B 3.2SN OR BX	C.145
1580980000	SL 5.00/14/90B 3.2SN OR BX	C.145
1580990000	SL 5.00/15/90B 3.2SN OR BX	C.145
1581000000	SL 5.00/16/90B 3.2SN OR BX	C.145
1581010000	SL 5.00/17/90B 3.2SN OR BX	C.145
1581020000	SL 5.00/18/90B 3.2SN OR BX	C.145
1581030000	SL 5.00/19/90B 3.2SN OR BX	C.145
1581040000	SL 5.00/20/90B 3.2SN OR BX	C.145
1581050000	SL 5.00/21/90B 3.2SN OR BX	C.145
1581060000	SL 5.00/22/90B 3.2SN OR BX	C.145
1581070000	SL 5.00/23/90B 3.2SN OR BX	C.145
1581080000	SL 5.00/24/90B 3.2SN OR BX	C.145
1581320000	SL 5.00/02/180 3.2SN OR BX	C.146
1581330000	SL 5.00/03/180 3.2SN OR BX	C.146
1581340000	SL 5.00/04/180 3.2SN OR BX	C.146
1581350000	SL 5.00/05/180 3.2SN OR BX	C.146
1581360000	SL 5.00/06/180 3.2SN OR BX	C.146
1581370000	SL 5.00/07/180 3.2SN OR BX	C.146
1581380000	SL 5.00/08/180 3.2SN OR BX	C.146
1581390000	SL 5.00/09/180 3.2SN OR BX	C.146
1581400000	SL 5.00/10/180 3.2SN OR BX	C.146
1581410000	SL 5.00/11/180 3.2SN OR BX	C.146
1581420000	SL 5.00/12/180 3.2SN OR BX	C.146
1581430000	SL 5.00/13/180 3.2SN OR BX	C.146
1581440000	SL 5.00/14/180 3.2SN OR BX	C.146
1581450000	SL 5.00/15/180 3.2SN OR BX	C.146
1581460000	SL 5.00/16/180 3.2SN OR BX	C.146
1581470000	SL 5.00/17/180 3.2SN OR BX	C.146
1581480000	SL 5.00/18/180 3.2SN OR BX	C.146
1581490000	SL 5.00/19/180 3.2SN OR BX	C.146
1581500000	SL 5.00/20/180 3.2SN OR BX	C.146
1581510000	SL 5.00/21/180 3.2SN OR BX	C.146
1581520000	SL 5.00/22/180 3.2SN OR BX	C.146
1581530000	SL 5.00/23/180 3.2SN OR BX	C.146
1581540000	SL 5.00/24/180 3.2SN OR BX	C.146
1581780000	SL 5.00/02/180B 3.2SN OR BX	C.147
1581790000	SL 5.00/03/180B 3.2SN OR BX	C.147
1581800000	SL 5.00/04/180B 3.2SN OR BX	C.147
1581810000	SL 5.00/05/180B 3.2SN OR BX	C.147
1581820000	SL 5.00/06/180B 3.2SN OR BX	C.147
1581830000	SL 5.00/07/180B 3.2SN OR BX	C.147
1581840000	SL 5.00/08/180B 3.2SN OR BX	C.147
1581850000	SL 5.00/09/180B 3.2SN OR BX	C.147
1581860000	SL 5.00/10/180B 3.2SN OR BX	C.147
1581870000	SL 5.00/11/180B 3.2SN OR BX	C.147
1581880000	SL 5.00/12/180B 3.2SN OR BX	C.147
1581890000	SL 5.00/13/180B 3.2SN OR BX	C.147
1581900000	SL 5.00/14/180B 3.2SN OR BX	C.147
1581910000	SL 5.00/15/180B 3.2SN OR BX	C.147
1581920000	SL 5.00/16/180B 3.2SN OR BX	C.147
1581930000	SL 5.00/17/180B 3.2SN OR BX	C.147
1581940000	SL 5.00/18/180B 3.2SN OR BX	C.147
1581950000	SL 5.00/19/180B 3.2SN OR BX	C.147
1581960000	SL 5.00/20/180B 3.2SN OR BX	C.147
1581970000	SL 5.00/21/180B 3.2SN OR BX	C.147
1581980000	SL 5.00/22/180B 3.2SN OR BX	C.147
1581990000	SL 5.00/23/180B 3.2SN OR BX	C.147
1582000000	SL 5.00/24/180B 3.2SN OR BX	C.147
1582250000	CS1,6E18-16 AU,75 I3,5	C.254
1582260000	CS1,6R18-16 AU,75 I3,5	C.254
1582270000	CS1,6E18-16 SN I3,5	C.254
1582280000	CS1,6R18-16 SN I3,5	C.254
1582290000	CS1,6E14-12 AU,75 I4,2	C.254
1582300000	CS1,6R14-12 AU,75 I4,2	C.254
1582310000	CS1,6E14-12 SN I4,2	C.254
1582320000	CS1,6R14-12 SN I4,2	C.254
1582330000	CSL1,6E18-16 AU,75 I3,5	C.254
1582340000	CSL1,6R18-16 AU,75 I3,5	C.254
1582350000	CSL1,6E18-16 SN I3,5	C.254
1582360000	CSL1,6R18-16 SN I3,5	C.254
1582370000	CSL1,6E14-12 AU,75 I4,2	C.254
1582380000	CSL1,6R14-12 AU,75 I4,2	C.254
1582390000	CSL1,6E14-12 SN I4,2	C.254
1582400000	CSL1,6R14-12 SN I4,2	C.254
1582410000	CB1,6E18-16 AU,75 I3,5	C.254
1582420000	CB1,6R18-16 AU,75 I3,5	C.254
1582430000	CB1,6E18-16 SN I3,5	C.254
1582440000	CB1,6R18-16 SN I3,5	C.254
1582450000	CB1,6E14-12 AU,75 I4,2	C.254
1582460000	CB1,6R14-12 AU,75 I4,2	C.254
1582470000	CB1,6E14-12 SN I4,2	C.254
1582480000	CB1,6R14-12 SN I4,2	C.254
1582910000	RSV1,6 RF4/35x7.5 SW	D.3
1582920000	RSV1,6 RF6/35x7.5 SW	D.3
1582930000	RSV1,6 RF9/35x7.5 SW	D.3
1582940000	RSV1,6 RF12/35x7.5 SW	D.3
1582950000	RSV1,6 RF18/35x7.5 SW	D.3
1582960000	RSV1,6 RF24/35x7.5 SW	D.3
1582970000	RSV1,6 RF36/35x7.5 SW	D.3
1584770000	LPA QB 17	D.15

1590000000

1593450000	SLA BB12R OR	D.6
1594200000	SLA BB14 OR	D.7
1594340000	LPP 5.00/02/90 3.2SN OR BX	B.24
1594350000	LPP 5.00/03/90 3.2SN OR BX	B.24
1594400000	LPP 5.08/02/90 3.2SN OR BX	B.26
1594410000	LPP 5.08/03/90 3.2SN OR BX	B.26
1594420000	LP 7.50/02/90 3.2SN OR BX	B.34
1594430000	LP 7.50/03/90 3.2SN OR BX	B.34
1594440000	LPP 7.50/02/90 3.2SN OR BX	B.35
1594450000	LPP 7.50/03/90 3.2SN OR BX	B.35
1594460000	LP 7.62/02/90 3.2SN OR BX	B.36
1594470000	LP 7.62/03/90 3.2SN OR BX	B.36
1594480000	LPP 7.62/02/90 3.2SN OR BX	B.37
1594490000	LPP 7.62/03/90 3.2SN OR BX	B.37
1595690000	LP 5.08/03/135 3.2 OR	B.27
1595710000	LP5.00/3/135 3.2 OR	B.25
1595730000	LP 5.08/02/135 3.2 OR	B.27
1595750000	LP5.00/2/135 3.2 OR	B.25
1595770000	LP7.50/2/135 3.2 OR	B.35
1595790000	LP7.62/2/135 3.2 OR	B.37
1595810000	LP7.50/3/135 3.2 OR	B.35
1595830000	LP7.62/3/135 3.2 OR	B.37
1595850000	SL FLA 1.5/24	D.9
1595860000	SL FLA 3.8/24	D.9
1595870000	SL FLA 9.0/24	D.9
1596320000	LP3R 5.08/09/90 3.2SN OR BX	B.32
1596340000	LP3R 5.08/12/90 3.2SN OR BX	B.32
1596360000	LP3R 5.08/15/90 3.2SN OR BX	B.32
1596380000	LP3R 5.08/18/90 3.2SN OR BX	B.32
1596400000	LP3R 5.08/24/90 3.2SN OR BX	B.32
1596420000	LP3R 5.08/30/90 3.2SN OR BX	B.32
1596450000	LP2N 5.00/08/90 3.2SN OR BX	B.29
1596460000	LP2N 5.08/08/90 3.2SN OR BX	B.31
1596490000	LP2N 5.00/10/90 3.2SN OR BX	B.29
1596510000	LP2N 5.08/10/90 3.2SN OR BX	B.31
1596530000	LP2N 5.08/16/90 3.2SN OR BX	B.31
1596550000	LP2N 5.00/16/90 3.2SN OR BX	B.29
1596570000	LP2N 5.08/20/90 3.2SN OR BX	B.31
1596590000	LP2N 5.00/20/90 3.2SN OR BX	B.29
1596610000	LP2N 5.08/24/90 3.2SN OR BX	B.31
1596630000	LP2N 5.00/24/90 3.2SN OR BX	B.29
1596650000	LP2N 5.08/30/90 3.2SN OR BX	B.31
1596670000	LP2N 5.00/30/90 3.2SN OR BX	B.29
1597060000	TOP1.5GS6/180 7 2STI OR	B.49
1597070000	TOP1.5GS7/180 7 2STI OR	B.49
1597080000	TOP1.5GS9/180 7 2STI OR	B.49
1597090000	TOP1.5GS11/180 7 2ST OR	B.49
1597210000	SL 3.50/02/90 3.2SN OR BX	C.32
1597220000	SL 3.50/03/90 3.2SN OR BX	C.32
1597230000	SL 3.50/04/90 3.2SN OR BX	C.32
1597240000	SL 3.50/05/90 3.2SN OR BX	C.32
1597250000	SL 3.50/06/90 3.2SN OR BX	C.32
1597260000	SL 3.50/07/90 3.2SN OR BX	C.32
1597270000	SL 3.50/08/90 3.2SN OR BX	C.32
1597280000	SL 3.50/09/90 3.2SN OR BX	C.32
1597290000	SL 3.50/10/90 3.2SN OR BX	C.32
1597300000	SL 3.50/11/90 3.2SN OR BX	C.32
1597310000	SL 3.50/12/90 3.2SN OR BX	C.32
1597320000	SL 3.50/13/90 3.2SN OR BX	C.32
1597330000	SL 3.50/14/90 3.2SN OR BX	C.32
1597340000	SL 3.50/15/90 3.2SN OR BX	C.32
1597350000	SL 3.50/16/90 3.2SN OR BX	C.32
1597360000	BL 3.50/02/180 SN OR BX	C.44
1597370000	BL 3.50/03/180 SN OR BX	C.44
1597380000	BL 3.50/04/180 SN OR BX	C.44
1597390000	BL 3.50/05/180 SN OR BX	C.44
1597400000	BL 3.50/06/180 SN OR BX	C.44
1597410000	BL 3.50/07/180 SN OR BX	C.44
1597420000	BL 3.50/08/180 SN OR BX	C.44
1597430000	BL 3.50/09/180 SN OR BX	C.44
1597440000	BL 3.50/10/180 SN OR BX	C.44
1597450000	BL 3.50/11/180 SN OR BX	C.44
1597460000	BL 3.50/12/180 SN OR BX	C.44
1597470000	BL 3.50/13/180 SN OR BX	C.44
1597480000	BL 3.50/14/180 SN OR BX	C.44
1597490000	BL 3.50/15/180 SN OR BX	C.44
1597500000	BL 3.50/16/180 SN OR BX	C.44
1597510000	SL 3.5 FLA 1.5/8	D.8
1597520000	SL 3.5 FLA 2.3/8	D.8
1597530000	SL 3.5 FLA 4.0/8	D.8
1597630000	SL 3.5 FLA 1.5/1.75/8	D.8
1597640000	SL 3.5 FLA 2.3/1.75/8	D.8
1597650000	SL 3.5 FLA 4.0/1.75/8	D.8
1598300000	SL AT OR	D.11
1599120000	SLDF VR	D.5
1599130000	SLDF 5.08 L/F 2 SN OR BX	C.202
1599140000	SLDF 5.08 L/F 3 SN OR BX	C.202
1599150000	SLDF 5.08 L/F 4 SN OR BX	C.202
1599160000	SLDF 5.08 L/F 5 SN OR BX	C.202
1599170000	SLDF 5.08 L/F 6 SN OR BX	C.202
1599180000	SLDF 5.08 L/F 7 SN OR BX	C.202
1599190000	SLDF 5.08 L/F 8 SN OR BX	C.202
1599200000	SLDF 5.08 L/F 9 SN OR BX	C.202
1599210000	SLDF 5.08 L/F 10 SN OR BX	C.202
1599220000	SLDF 5.08 L/F 11 SN OR BX	C.202
1599230000	SLDF 5.08 L/F 12 SN OR BX	C.202
1599240000	SLDF 5.08 L/F 13 SN OR BX	C.202

Order No.	Type	Page
1599250000	SLDF 5.08 L/F 14 SN OR BX	C.202
1599260000	SLDF 5.08 L/F 15 SN OR BX	C.202
1599270000	SLDF 5.08 L/F 16 SN OR BX	C.202

1600000000

1601790000	SLD 5.08/04/90G 3.2SN OR BX	C.200
1601800000	SLD 5.08/06/90G 3.2SN OR BX	C.200
1601810000	SLD 5.08/08/90G 3.2SN OR BX	C.200
1601820000	SLD 5.08/10/90G 3.2SN OR BX	C.200
1601830000	SLD 5.08/12/90G 3.2SN OR BX	C.200
1601840000	SLD 5.08/14/90G 3.2SN OR BX	C.200
1601850000	SLD 5.08/16/90G 3.2SN OR BX	C.200
1601860000	SLD 5.08/18/90G 3.2SN OR BX	C.200
1601870000	SLD 5.08/20/90G 3.2SN OR BX	C.200
1601880000	SLD 5.08/22/90G 3.2SN OR BX	C.200
1601890000	SLD 5.08/24/90G 3.2SN OR BX	C.200
1601900000	SLD 5.08/26/90G 3.2SN OR BX	C.200
1601910000	SLD 5.08/28/90G 3.2SN OR BX	C.200
1601920000	SLD 5.08/30/90G 3.2SN OR BX	C.200
1601930000	SLD 5.08/32/90G 3.2SN OR BX	C.200
1601940000	SLD 5.08/34/90G 3.2SN OR BX	C.200
1601950000	SLD 5.08/36/90G 3.2SN OR BX	C.200
1601960000	SLD 5.08/38/90G 3.2SN OR BX	C.200
1601970000	SLD 5.08/40/90G 3.2SN OR BX	C.200
1601980000	SLD 5.08/42/90G 3.2SN OR BX	C.200
1601990000	SLD 5.08/44/90G 3.2SN OR BX	C.200
1602000000	SLD 5.08/46/90G 3.2SN OR BX	C.200
1602010000	SLD 5.08/48/90G 3.2SN OR BX	C.200
1602390000	SLD 5.08/04/180G 3.2SN OR BX	C.201
1602400000	SLD 5.08/06/180G 3.2SN OR BX	C.201
1602410000	SLD 5.08/08/180G 3.2SN OR BX	C.201
1602420000	SLD 5.08/10/180G 3.2SN OR BX	C.201
1602430000	SLD 5.08/12/180G 3.2SN OR BX	C.201
1602440000	SLD 5.08/14/180G 3.2SN OR BX	C.201
1602450000	SLD 5.08/16/180G 3.2SN OR BX	C.201
1602460000	SLD 5.08/18/180G 3.2SN OR BX	C.201
1602470000	SLD 5.08/20/180G 3.2SN OR BX	C.201
1602480000	SLD 5.08/22/180G 3.2SN OR BX	C.201
1602490000	SLD 5.08/24/180G 3.2SN OR BX	C.201
1602500000	SLD 5.08/26/180G 3.2SN OR BX	C.201
1602510000	SLD 5.08/28/180G 3.2SN OR BX	C.201
1602520000	SLD 5.08/30/180G 3.2SN OR BX	C.201
1602530000	SLD 5.08/32/180G 3.2SN OR BX	C.201
1602540000	SLD 5.08/34/180G 3.2SN OR BX	C.201
1602550000	SLD 5.08/36/180G 3.2SN OR BX	C.201
1602560000	SLD 5.08/38/180G 3.2SN OR BX	C.201
1602570000	SLD 5.08/40/180G 3.2SN OR BX	C.201
1602580000	SLD 5.08/42/180G 3.2SN OR BX	C.201
1602590000	SLD 5.08/44/180G 3.2SN OR BX	C.201
1602600000	SLD 5.08/46/180G 3.2SN OR BX	C.201
1602610000	SLD 5.08/48/180G 3.2SN OR BX	C.201
1604120000	SLA BB11R OR	D.6
1604230000	DFFC 0.22-0.35 SN 3000	C.248
1604250000	DFFC 0.22-0.35 SN E	C.248
1604470000	SL 3.50/02/180G 3.2SN OR BX	C.35
1604480000	SL 3.50/03/180G 3.2SN OR BX	C.35
1604490000	SL 3.50/04/180G 3.2SN OR BX	C.35
1604500000	SL 3.50/05/180G 3.2SN OR BX	C.35
1604510000	SL 3.50/06/180G 3.2SN OR BX	C.35
1604520000	SL 3.50/07/180G 3.2SN OR BX	C.35
1604530000	SL 3.50/08/180G 3.2SN OR BX	C.35
1604540000	SL 3.50/09/180G 3.2SN OR BX	C.35
1604550000	SL 3.50/10/180G 3.2SN OR BX	C.35
1604560000	SL 3.50/11/180G 3.2SN OR BX	C.35
1604570000	SL 3.50/12/180G 3.2SN OR BX	C.35
1604580000	SL 3.50/13/180G 3.2SN OR BX	C.35
1604590000	SL 3.50/14/180G 3.2SN OR BX	C.35
1604600000	SL 3.50/15/180G 3.2SN OR BX	C.35
1604610000	SL 3.50/16/180G 3.2SN OR BX	C.35
1604770000	SL 3.50/02/180 3.2SN OR BX	C.34
1604780000	SL 3.50/03/180 3.2SN OR BX	C.34
1604790000	SL 3.50/04/180 3.2SN OR BX	C.34
1604800000	SL 3.50/05/180 3.2SN OR BX	C.34
1604810000	SL 3.50/06/180 3.2SN OR BX	C.34
1604820000	SL 3.50/07/180 3.2SN OR BX	C.34
1604830000	SL 3.50/08/180 3.2SN OR BX	C.34
1604840000	SL 3.50/09/180 3.2SN OR BX	C.34
1604850000	SL 3.50/10/180 3.2SN OR BX	C.34
1604860000	SL 3.50/11/180 3.2SN OR BX	C.34
1604870000	SL 3.50/12/180 3.2SN OR BX	C.34
1604880000	SL 3.50/13/180 3.2SN OR BX	C.34
1604890000	SL 3.50/14/180 3.2SN OR BX	C.34
1604900000	SL 3.50/15/180 3.2SN OR BX	C.34
1604910000	SL 3.50/16/180 3.2SN OR BX	C.34
1605070000	SL 3.50/02/90G 3.2SN OR BX	C.33
1605080000	SL 3.50/03/90G 3.2SN OR BX	C.33
1605090000	SL 3.50/04/90G 3.2SN OR BX	C.33
1605100000	SL 3.50/05/90G 3.2SN OR BX	C.33
1605110000	SL 3.50/06/90G 3.2SN OR BX	C.33
1605120000	SL 3.50/07/90G 3.2SN OR BX	C.33
1605130000	SL 3.50/08/90G 3.2SN OR BX	C.33
1605140000	SL 3.50/09/90G 3.2SN OR BX	C.33
1605150000	SL 3.50/10/90G 3.2SN OR BX	C.33
1605160000	SL 3.50/11/90G 3.2SN OR BX	C.33
1605170000	SL 3.50/12/90G 3.2SN OR BX	C.33
1605180000	SL 3.50/13/90G 3.2SN OR BX	C.33
1605190000	SL 3.50/14/90G 3.2SN OR BX	C.33
1605200000	SL 3.50/15/90G 3.2SN OR BX	C.33

Order No.	Type	Page
1605210000	SL 3.50/16/90G 3.2SN OR BX	C.33
1606450000	SL 135 BB15R OR	D.6
1606640000	BL 3.50/02/180F SN OR BX	C.45
1606650000	BL 3.50/03/180F SN OR BX	C.45
1606660000	BL 3.50/04/180F SN OR BX	C.45
1606670000	BL 3.50/05/180F SN OR BX	C.45
1606680000	BL 3.50/06/180F SN OR BX	C.45
1606690000	BL 3.50/07/180F SN OR BX	C.45
1606700000	BL 3.50/08/180F SN OR BX	C.45
1606710000	BL 3.50/09/180F SN OR BX	C.45
1606720000	BL 3.50/10/180F SN OR BX	C.45
1606730000	BL 3.50/11/180F SN OR BX	C.45
1606740000	BL 3.50/12/180F SN OR BX	C.45
1606750000	BL 3.50/13/180F SN OR BX	C.45
1606760000	BL 3.50/14/180F SN OR BX	C.45
1606770000	BL 3.50/15/180F SN OR BX	C.45
1606780000	BL 3.50/16/180F SN OR BX	C.45
1607040000	SL 3.50/02/90F 3.2SN OR BX	C.33
1607050000	SL 3.50/03/90F 3.2SN OR BX	C.33
1607060000	SL 3.50/04/90F 3.2SN OR BX	C.33
1607070000	SL 3.50/05/90F 3.2SN OR BX	C.33
1607080000	SL 3.50/06/90F 3.2SN OR BX	C.33
1607090000	SL 3.50/07/90F 3.2SN OR BX	C.33
1607100000	SL 3.50/08/90F 3.2SN OR BX	C.33
1607110000	SL 3.50/09/90F 3.2SN OR BX	C.33
1607120000	SL 3.50/10/90F 3.2SN OR BX	C.33
1607130000	SL 3.50/11/90F 3.2SN OR BX	C.33
1607140000	SL 3.50/12/90F 3.2SN OR BX	C.33
1607150000	SL 3.50/13/90F 3.2SN OR BX	C.33
1607160000	SL 3.50/14/90F 3.2SN OR BX	C.33
1607170000	SL 3.50/15/90F 3.2SN OR BX	C.33
1607180000	SL 3.50/16/90F 3.2SN OR BX	C.33
1607500000	SL 3.50/02/180F 3.2SN OR BX	C.35
1607510000	SL 3.50/03/180F 3.2SN OR BX	C.35
1607520000	SL 3.50/04/180F 3.2SN OR BX	C.35
1607530000	SL 3.50/05/180F 3.2SN OR BX	C.35
1607540000	SL 3.50/06/180F 3.2SN OR BX	C.35
1607550000	SL 3.50/07/180F 3.2SN OR BX	C.35
1607560000	SL 3.50/08/180F 3.2SN OR BX	C.35
1607570000	SL 3.50/09/180F 3.2SN OR BX	C.35
1607580000	SL 3.50/10/180F 3.2SN OR BX	C.35
1607590000	SL 3.50/11/180F 3.2SN OR BX	C.35
1607600000	SL 3.50/12/180F 3.2SN OR BX	C.35
1607610000	SL 3.50/13/180F 3.2SN OR BX	C.35
1607620000	SL 3.50/14/180F 3.2SN OR BX	C.35
1607630000	SL 3.50/15/180F 3.2SN OR BX	C.35
1607640000	SL 3.50/16/180F 3.2SN OR BX	C.35
1609860000	WS 12/5 MC NEUTRAL	D.18

1610000000

1610100000	BL SL 3.5 KO SW	D.10
1610180000	BL 3.50/06/180 SN BK BX	C.44
1610190000	BL 3.50/07/180 SN BK BX	C.44
1610200000	BL 3.50/10/180 SN BK BX	C.44
1610490000	BLC 5.08/02/180R OR BX	C.248
1610500000	BLC 5.08/03/180R OR BX	C.248
1610510000	BLC 5.08/04/180R OR BX	C.248
1610520000	BLC 5.08/05/180R OR BX	C.248
1610530000	BLC 5.08/06/180R OR BX	C.248
1610540000	BLC 5.08/07/180R OR BX	C.248
1610550000	BLC 5.08/08/180R OR BX	C.248
1610560000	BLC 5.08/09/180R OR BX	C.248
1610570000	BLC 5.08/10/180R OR BX	C.248
1610580000	BLC 5.08/11/180R OR BX	C.248
1610590000	BLC 5.08/12/180R OR BX	C.248
1610600000	BLC 5.08/13/180R OR BX	C.248
1610610000	BLC 5.08/14/180R OR BX	C.248
1610620000	BLC 5.08/15/180R OR BX	C.248
1610630000	BLC 5.08/16/180R OR BX	C.248
1610740000	PTSC KA 2.2X4.5 WN1412	C.94
1611710000	SLT 5.08/02/180B SN OR BX	C.214
1611720000	SLT 5.08/03/180B SN OR BX	C.214
1611730000	SLT 5.08/04/180B SN OR BX	C.214
1611740000	SLT 5.08/05/180B SN OR BX	C.214
1611750000	SLT 5.08/06/180B SN OR BX	C.214
1611760000	SLT 5.08/07/180B SN OR BX	C.214
1611770000	SLT 5.08/08/180B SN OR BX	C.214
1611780000	SLT 5.08/09/180B SN OR BX	C.214
1611790000	SLT 5.08/10/180B SN OR BX	C.214
1611800000	SLT 5.08/11/180B SN OR BX	C.214
1611810000	SLT 5.08/12/180B SN OR BX	C.214
1611820000	SLT 5.08/13/180B SN OR BX	C.214
1611830000	SLT 5.08/14/180B SN OR BX	C.214
1611840000	SLT 5.08/15/180B SN OR BX	C.214
1611850000	SLT 5.08/16/180B SN OR BX	C.214
1614090000	BL 3.50/05/180 SN BK BX	C.44
1614350000	SLD 5.00/04/90G 3.2 SN OR BX	C.150
1614360000	SLD 5.00/06/90G 3.2 SN OR BX	C.150
1614370000	SLD 5.00/08/90G 3.2 SN OR BX	C.150
1614380000	SLD 5.00/10/90G 3.2 SN OR BX	C.150
1614390000	SLD 5.00/12/90G 3.2 SN OR BX	C.150
1614400000	SLD 5.00/14/90G 3.2 SN OR BX	C.150
1614410000	SLD 5.00/16/90G 3.2 SN OR BX	C.150
1614420000	SLD 5.00/18/90G 3.2 SN OR BX	C.150
1614430000	SLD 5.00/20/90G 3.2 SN OR BX	C.150
1614440000	SLD 5.00/22/90G 3.2 SN OR BX	C.150
1614450000	SLD 5.00/24/90G 3.2 SN OR BX	C.150
1614460000	SLD 5.00/26/90G 3.2 SN OR BX	C.150

Order No.	Type	Page
1614470000	SLD 5.00/28/90G 3.2 SN OR BX	C.150
1614480000	SLD 5.00/30/90G 3.2 SN OR BX	C.150
1614490000	SLD 5.00/32/90G 3.2 SN OR BX	C.150
1614500000	SLD 5.00/34/90G 3.2 SN OR BX	C.150
1614510000	SLD 5.00/36/90G 3.2 SN OR BX	C.150
1614520000	SLD 5.00/38/90G 3.2 SN OR BX	C.150
1614530000	SLD 5.00/40/90G 3.2 SN OR BX	C.150
1614540000	SLD 5.00/42/90G 3.2 SN OR BX	C.150
1614550000	SLD 5.00/44/90G 3.2 SN OR BX	C.150
1614560000	SLD 5.00/46/90G 3.2 SN OR BX	C.150
1614570000	SLD 5.00/48/90G 3.2 SN OR BX	C.150
1614810000	SLD 5.00/04/180G 3.2SN OR BX	C.151
1614820000	SLD 5.00/06/180G 3.2SN OR BX	C.151
1614830000	SLD 5.00/08/180G 3.2SN OR BX	C.151
1614840000	SLD 5.00/10/180G 3.2SN OR BX	C.151
1614850000	SLD 5.00/12/180G 3.2SN OR BX	C.151
1614860000	SLD 5.00/14/180G 3.2SN OR BX	C.151
1614870000	SLD 5.00/16/180G 3.2SN OR BX	C.151
1614880000	SLD 5.00/18/180G 3.2SN OR BX	C.151
1614890000	SLD 5.00/20/180G 3.2SN OR BX	C.151
1614900000	SLD 5.00/22/180G 3.2SN OR BX	C.151
1614910000	SLD 5.00/24/180G 3.2SN OR BX	C.151
1614920000	SLD 5.00/26/180G 3.2SN OR BX	C.151
1614930000	SLD 5.00/28/180G 3.2SN OR BX	C.151
1614940000	SLD 5.00/30/180G 3.2SN OR BX	C.151
1614950000	SLD 5.00/32/180G 3.2SN OR BX	C.151
1614960000	SLD 5.00/34/180G 3.2SN OR BX	C.151
1614970000	SLD 5.00/36/180G 3.2SN OR BX	C.151
1614980000	SLD 5.00/38/180G 3.2SN OR BX	C.151
1614990000	SLD 5.00/40/180G 3.2SN OR BX	C.151
1615000000	SLD 5.00/42/180G 3.2SN OR BX	C.151
1615010000	SLD 5.00/44/180G 3.2SN OR BX	C.151
1615020000	SLD 5.00/46/180G 3.2SN OR BX	C.151
1615030000	SLD 5.00/48/180G 3.2SN OR BX	C.151
1615670000	BL 3.50/02/180 SN BK BX	C.44
1615680000	BL 3.50/03/180 SN BK BX	C.44
1615690000	BL 3.50/04/180 SN BK BX	C.44
1615700000	BL 3.50/08/180 SN BK BX	C.44
1615710000	BL 3.50/09/180 SN BK BX	C.44
1615720000	BL 3.50/11/180 SN BK BX	C.44
1615730000	BL 3.50/12/180 SN BK BX	C.44
1615740000	BL 3.50/13/180 SN BK BX	C.44
1615750000	BL 3.50/14/180 SN BK BX	C.44
1615760000	BL 3.50/15/180 SN BK BX	C.44
1615770000	BL 3.50/16/180 SN BK BX	C.44
1615780000	BL 3.50/02/180F SN BK BX	C.45
1615790000	BL 3.50/03/180F SN BK BX	C.45
1615800000	BL 3.50/04/180F SN BK BX	C.45
1615810000	BL 3.50/05/180F SN BK BX	C.45
1615820000	BL 3.50/06/180F SN BK BX	C.45
1615830000	BL 3.50/07/180F SN BK BX	C.45
1615840000	BL 3.50/08/180F SN BK BX	C.45
1615850000	BL 3.50/09/180F SN BK BX	C.45
1615860000	BL 3.50/10/180F SN BK BX	C.45
1615870000	BL 3.50/11/180F SN BK BX	C.45
1615880000	BL 3.50/12/180F SN BK BX	C.45
1615890000	BL 3.50/13/180F SN BK BX	C.45
1615900000	BL 3.50/14/180F SN BK BX	C.45
1615910000	BL 3.50/15/180F SN BK BX	C.45
1615920000	BL 3.50/16/180F SN BK BX	C.45
1618990000	SL 3.50/17/90 3.2SN OR BX	C.32
1619000000	SL 3.50/18/90 3.2SN OR BX	C.32
1619010000	SL 3.50/19/90 3.2SN OR BX	C.32
1619020000	SL 3.50/20/90 3.2SN OR BX	C.32
1619030000	SL 3.50/21/90 3.2SN OR BX	C.32
1619040000	SL 3.50/22/90 3.2SN OR BX	C.32
1619050000	SL 3.50/23/90 3.2SN OR BX	C.32
1619060000	SL 3.50/24/90 3.2SN OR BX	C.32
1619380000	SL 3.50/17/90G 3.2SN OR BX	C.33
1619390000	SL 3.50/18/90G 3.2SN OR BX	C.33
1619400000	SL 3.50/19/90G 3.2SN OR BX	C.33
1619410000	SL 3.50/20/90G 3.2SN OR BX	C.33
1619420000	SL 3.50/21/90G 3.2SN OR BX	C.33
1619430000	SL 3.50/22/90G 3.2SN OR BX	C.33
1619440000	SL 3.50/23/90G 3.2SN OR BX	C.33
1619450000	SL 3.50/24/90G 3.2SN OR BX	C.33
1619770000	SL 3.50/17/90F 3.2SN OR BX	C.33
1619780000	SL 3.50/18/90F 3.2SN OR BX	C.33
1619790000	SL 3.50/19/90F 3.2SN OR BX	C.33
1619800000	SL 3.50/20/90F 3.2SN OR BX	C.33
1619810000	SL 3.50/21/90F 3.2SN OR BX	C.33
1619820000	SL 3.50/22/90F 3.2SN OR BX	C.33
1619830000	SL 3.50/23/90F 3.2SN OR BX	C.33
1619840000	SL 3.50/24/90F 3.2SN OR BX	C.33

1620000000

1620290000	BL 3.50/17/180 SN OR BX	C.44
1620300000	BL 3.50/18/180 SN OR BX	C.44
1620310000	BL 3.50/19/180 SN OR BX	C.44
1620320000	BL 3.50/20/180 SN OR BX	C.44
1620330000	BL 3.50/21/180 SN OR BX	C.44
1620340000	BL 3.50/22/180 SN OR BX	C.44
1620350000	BL 3.50/23/180 SN OR BX	C.44
1620360000	BL 3.50/24/180 SN OR BX	C.44
1620370000	BL 3.50/17/180 SN BK BX	C.44
1620380000	BL 3.50/18/180 SN BK BX	C.44
1620390000	BL 3.50/19/180 SN BK BX	C.44
1620400000	BL 3.50/20/180 SN BK BX	C.44

Order No.	Type	Page
1620410000	BL 3.50/21/180 SN BK BX	C.44
1620420000	BL 3.50/22/180 SN BK BX	C.44
1620430000	BL 3.50/23/180 SN BK BX	C.44
1620440000	BL 3.50/24/180 SN BK BX	C.44
1620760000	BL 3.50/17/180F SN OR BX	C.45
1620770000	BL 3.50/18/180F SN OR BX	C.45
1620780000	BL 3.50/19/180F SN OR BX	C.45
1620790000	BL 3.50/20/180F SN OR BX	C.45
1620800000	BL 3.50/21/180F SN OR BX	C.45
1620810000	BL 3.50/22/180F SN OR BX	C.45
1620820000	BL 3.50/23/180F SN OR BX	C.45
1620830000	BL 3.50/24/180F SN OR BX	C.45
1620840000	BL 3.50/17/180F SN BK BX	C.45
1620850000	BL 3.50/18/180F SN BK BX	C.45
1620860000	BL 3.50/19/180F SN BK BX	C.45
1620870000	BL 3.50/20/180F SN BK BX	C.45
1620880000	BL 3.50/21/180F SN BK BX	C.45
1620890000	BL 3.50/22/180F SN BK BX	C.45
1620900000	BL 3.50/23/180F SN BK BX	C.45
1620910000	BL 3.50/24/180F SN BK BX	C.45
1621400000	SL 3.50/17/180 3.2SN OR BX	C.34
1621410000	SL 3.50/18/180 3.2SN OR BX	C.34
1621420000	SL 3.50/19/180 3.2SN OR BX	C.34
1621430000	SL 3.50/20/180 3.2SN OR BX	C.34
1621440000	SL 3.50/21/180 3.2SN OR BX	C.34
1621450000	SL 3.50/22/180 3.2SN OR BX	C.34
1621460000	SL 3.50/23/180 3.2SN OR BX	C.34
1621470000	SL 3.50/24/180 3.2SN OR BX	C.34
1621790000	SL 3.50/17/180G 3.2SN OR BX	C.35
1621800000	SL 3.50/18/180G 3.2SN OR BX	C.35
1621810000	SL 3.50/19/180G 3.2SN OR BX	C.35
1621820000	SL 3.50/20/180G 3.2SN OR BX	C.35
1621830000	SL 3.50/21/180G 3.2SN OR BX	C.35
1621840000	SL 3.50/22/180G 3.2SN OR BX	C.35
1621850000	SL 3.50/23/180G 3.2SN OR BX	C.35
1621860000	SL 3.50/24/180G 3.2SN OR BX	C.35
1622180000	SL 3.50/17/180F 3.2SN OR BX	C.35
1622190000	SL 3.50/18/180F 3.2SN OR BX	C.35
1622200000	SL 3.50/19/180F 3.2SN OR BX	C.35
1622210000	SL 3.50/20/180F 3.2SN OR BX	C.35
1622220000	SL 3.50/21/180F 3.2SN OR BX	C.35
1622230000	SL 3.50/22/180F 3.2SN OR BX	C.35
1622240000	SL 3.50/23/180F 3.2SN OR BX	C.35
1622250000	SL 3.50/24/180F 3.2SN OR BX	C.35
1622940000	BLL 5.08/02/90 3.2 SN OR BX	C.250
1622950000	BLL 5.08/03/90 3.2 SN OR BX	C.250
1622960000	BLL 5.08/04/90 3.2 SN OR BX	C.250
1622970000	BLL 5.08/05/90 3.2 SN OR BX	C.250
1622980000	BLL 5.08/06/90 3.2 SN OR BX	C.250
1622990000	BLL 5.08/07/90 3.2 SN OR BX	C.250
1623000000	BLL 5.08/08/90 3.2 SN OR BX	C.250
1623010000	BLL 5.08/09/90 3.2 SN OR BX	C.250
1623020000	BLL 5.08/10/90 3.2 SN OR BX	C.250
1623030000	BLL 5.08/11/90 3.2 SN OR BX	C.250
1623040000	BLL 5.08/12/90 3.2 SN OR BX	C.250
1625540000	LP2N 5.08/06/90 3.2SN OR BX	B.31
1625560000	LP2N 5.00/06/90 3.2SN OR BX	B.29
1626880000	SLA BB12R SW	D.6
1627240000	SLS 5.08/02/180B SN OR BX	C.210
1627250000	SLS 5.08/03/180B SN OR BX	C.210
1627260000	SLS 5.08/04/180B SN OR BX	C.210
1627270000	SLS 5.08/05/180B SN OR BX	C.210
1627280000	SLS 5.08/06/180B SN OR BX	C.210
1627290000	SLS 5.08/07/180B SN OR BX	C.210
1627300000	SLS 5.08/08/180B SN OR BX	C.210
1627310000	SLS 5.08/09/180B SN OR BX	C.210
1627320000	SLS 5.08/10/180B SN OR BX	C.210
1627330000	SLS 5.08/11/180B SN OR BX	C.210
1627340000	SLS 5.08/12/180B SN OR BX	C.210
1627350000	SLS 5.08/13/180B SN OR BX	C.210
1627360000	SLS 5.08/14/180B SN OR BX	C.210
1627370000	SLS 5.08/15/180B SN OR BX	C.210
1627380000	SLS 5.08/16/180B SN OR BX	C.210
1627820000	BL 3.5 ZE 3 SW	D.2
1627830000	BL 3.5 ZE 8 SW	D.2
1629680000	BL 3.5 ZE 3 OR	D.2
1629690000	BL 3.5 ZE 8 OR	D.2
1629900000	KSW 2.5 < 50MM SDR	D.16
1629910000	KSW 4 < 50MM SDR	D.16
1629920000	KSW 2,5 < 100MM SONDDR.	D.16
1629930000	KSW 4 < 100MM SDR	D.16
1629940000	KSW 2,5 < 150MM SONDDR.	D.16
1629950000	KSW 4 < 150MM SONDDR.	D.16
1629960000	KSW 2,5 <50MM NEUTRAL	D.16
1629970000	KSW 4 <50MM NEUTRAL	D.16
1629980000	KSW 2,5 <100MM NEUTRAL	D.16
1629990000	KSW 4 <100MM NEUTRAL	D.16

1630000000

1630000000	KSW 2,5 <150MM NEUTRAL	D.16
1630010000	KSW 4 <150MM NEUTRAL	D.16
1630070001	KSW 2,5 16/5 1-16	D.16
1630100001	KSW 2,5 8/5,08 1-8	D.16
1630150001	KSW 4 16/3,5 1-16	D.16
1630160001	KSW 4 16/5,08 1-16	D.16
1630180001	KSW 4 24/5,08 1-24	D.16
1630190001	KSW 4 8/3,5 1-8	D.16
1630200001	KSW 4 8/5,08 1-8	D.16

Order No.	Type	Page
1630250000	SL 5.00/02/135 3.2SN OR BX	C.148
1630260000	SL 5.00/03/135 3.2SN OR BX	C.148
1630270000	SL 5.00/04/135 3.2SN OR BX	C.148
1630280000	SL 5.00/05/135 3.2SN OR BX	C.148
1630290000	SL 5.00/06/135 3.2SN OR BX	C.148
1630300000	SL 5.00/07/135 3.2SN OR BX	C.148
1630310000	SL 5.00/08/135 3.2SN OR BX	C.148
1630320000	SL 5.00/09/135 3.2SN OR BX	C.148
1630330000	SL 5.00/10/135 3.2SN OR BX	C.148
1630340000	SL 5.00/11/135 3.2SN OR BX	C.148
1630350000	SL 5.00/12/135 3.2SN OR BX	C.148
1630360000	SL 5.00/13/135 3.2SN OR BX	C.148
1630370000	SL 5.00/14/135 3.2SN OR BX	C.148
1630380000	SL 5.00/15/135 3.2SN OR BX	C.148
1630390000	SL 5.00/16/135 3.2SN OR BX	C.148
1630400000	SL 5.00/17/135 3.2SN OR BX	C.148
1630410000	SL 5.00/18/135 3.2SN OR BX	C.148
1630420000	SL 5.00/19/135 3.2SN OR BX	C.148
1630430000	SL 5.00/20/135 3.2SN OR BX	C.148
1630440000	SL 5.00/21/135 3.2SN OR BX	C.148
1630450000	SL 5.00/22/135 3.2SN OR BX	C.148
1630460000	SL 5.00/23/135 3.2SN OR BX	C.148
1630470000	SL 5.00/24/135 3.2SN OR BX	C.148
1630480000	SL 5.00/02/135B 3.2SN OR BX	C.149
1630490000	SL 5.00/03/135B 3.2SN OR BX	C.149
1630500000	SL 5.00/04/135B 3.2SN OR BX	C.149
1630510000	SL 5.00/05/135B 3.2SN OR BX	C.149
1630520000	SL 5.00/06/135B 3.2SN OR BX	C.149
1630530000	SL 5.00/07/135B 3.2SN OR BX	C.149
1630540000	SL 5.00/08/135B 3.2SN OR BX	C.149
1630550000	SL 5.00/09/135B 3.2SN OR BX	C.149
1630560000	SL 5.00/10/135B 3.2SN OR BX	C.149
1630570000	SL 5.00/11/135B 3.2SN OR BX	C.149
1630580000	SL 5.00/12/135B 3.2SN OR BX	C.149
1630590000	SL 5.00/13/135B 3.2SN OR BX	C.149
1630600000	SL 5.00/14/135B 3.2SN OR BX	C.149
1630610000	SL 5.00/15/135B 3.2SN OR BX	C.149
1630620000	SL 5.00/16/135B 3.2SN OR BX	C.149
1630630000	SL 5.00/17/135B 3.2SN OR BX	C.149
1630640000	SL 5.00/18/135B 3.2SN OR BX	C.149
1630650000	SL 5.00/19/135B 3.2SN OR BX	C.149
1630660000	SL 5.00/20/135B 3.2SN OR BX	C.149
1630670000	SL 5.00/21/135B 3.2SN OR BX	C.149
1630680000	SL 5.00/22/135B 3.2SN OR BX	C.149
1630690000	SL 5.00/23/135B 3.2SN OR BX	C.149
1630700000	SL 5.00/24/135B 3.2SN OR BX	C.149
1630710000	BLL 5.08/02/180 3.2 SN OR BX	C.252
1630720000	BLL 5.08/03/180 3.2 SN OR BX	C.252
1630730000	BLL 5.08/04/180 3.2 SN OR BX	C.252
1630740000	BLL 5.08/05/180 3.2 SN OR BX	C.252
1630750000	BLL 5.08/06/180 3.2 SN OR BX	C.252
1630760000	BLL 5.08/07/180 3.2 SN OR BX	C.252
1630770000	BLL 5.08/08/180 3.2 SN OR BX	C.252
1630780000	BLL 5.08/09/180 3.2 SN OR BX	C.252
1630790000	BLL 5.08/10/180 3.2 SN OR BX	C.252
1630800000	BLL 5.08/11/180 3.2 SN OR BX	C.252
1630810000	BLL 5.08/12/180 3.2 SN OR BX	C.252
1633580000	SLD 3.50/04/90G 3.2SN OR BX	C.38
1633590000	SLD 3.50/06/90G 3.2SN OR BX	C.38
1633600000	SLD 3.50/08/90G 3.2SN OR BX	C.38
1633610000	SLD 3.50/10/90G 3.2SN OR BX	C.38
1633620000	SLD 3.50/12/90G 3.2SN OR BX	C.38
1633630000	SLD 3.50/14/90G 3.2SN OR BX	C.38
1633640000	SLD 3.50/16/90G 3.2SN OR BX	C.38
1633650000	SLD 3.50/18/90G 3.2SN OR BX	C.38
1633660000	SLD 3.50/20/90G 3.2SN OR BX	C.38
1633670000	SLD 3.50/22/90G 3.2SN OR BX	C.38
1633680000	SLD 3.50/24/90G 3.2SN OR BX	C.38
1633690000	SLD 3.50/26/90G 3.2SN OR BX	C.38
1633700000	SLD 3.50/28/90G 3.2SN OR BX	C.38
1633710000	SLD 3.50/30/90G 3.2SN OR BX	C.38
1633720000	SLD 3.50/32/90G 3.2SN OR BX	C.38
1633730000	SLD 3.50/34/90G 3.2SN OR BX	C.38
1633740000	SLD 3.50/36/90G 3.2SN OR BX	C.38
1633750000	SLD 3.50/38/90G 3.2SN OR BX	C.38
1633760000	SLD 3.50/40/90G 3.2SN OR BX	C.38
1633770000	SLD 3.50/42/90G 3.2SN OR BX	C.38
1633780000	SLD 3.50/44/90G 3.2SN OR BX	C.38
1633790000	SLD 3.50/46/90G 3.2SN OR BX	C.38
1633800000	SLD 3.50/48/90G 3.2SN OR BX	C.38
1633810000	SLD 3.50/04/90F 3.2SN OR BX	C.39
1633820000	SLD 3.50/06/90F 3.2SN OR BX	C.39
1633830000	SLD 3.50/08/90F 3.2SN OR BX	C.39
1633840000	SLD 3.50/10/90F 3.2SN OR BX	C.39
1633850000	SLD 3.50/12/90F 3.2SN OR BX	C.39
1633860000	SLD 3.50/14/90F 3.2SN OR BX	C.39
1633870000	SLD 3.50/16/90F 3.2SN OR BX	C.39
1633880000	SLD 3.50/18/90F 3.2SN OR BX	C.39
1633890000	SLD 3.50/20/90F 3.2SN OR BX	C.39
1633900000	SLD 3.50/22/90F 3.2SN OR BX	C.39
1633910000	SLD 3.50/24/90F 3.2SN OR BX	C.39
1633920000	SLD 3.50/26/90F 3.2SN OR BX	C.39
1633930000	SLD 3.50/28/90F 3.2SN OR BX	C.39
1633940000	SLD 3.50/30/90F 3.2SN OR BX	C.39
1633950000	SLD 3.50/32/90F 3.2SN OR BX	C.39
1633960000	SLD 3.50/34/90F 3.2SN OR BX	C.39
1633970000	SLD 3.50/36/90F 3.2SN OR BX	C.39
1633980000	SLD 3.50/38/90F 3.2SN OR BX	C.39
1633990000	SLD 3.50/40/90F 3.2SN OR BX	C.39

Order No.	Type	Page
1634000000	SLD 3.50/42/90F 3.2SN OR BX	C.39
1634010000	SLD 3.50/44/90F 3.2SN OR BX	C.39
1634020000	SLD 3.50/46/90F 3.2SN OR BX	C.39
1634030000	SLD 3.50/48/90F 3.2SN OR BX	C.39
1635000000	WS 10/5 MC NEUTRAL	D.18
1635140000	LP2N 5.08/04/90 3.2SN OR BX	B.31
1635160000	LP2N 5.00/04/90 3.2SN OR BX	B.29
1636210000	LP2HR 5.08/04/90 3.2SN OR BX	B.31
1636220000	LP2HR 5.08/06/90 3.2SN OR BX	B.31
1636230000	LP2HR 5.08/08/90 3.2SN OR BX	B.31
1636240000	LP2HR 5.08/10/90 3.2SN OR BX	B.31
1636250000	LP2HR 5.08/16/90 3.2SN OR BX	B.31
1636260000	LP2HR 5.08/20/90 3.2SN OR BX	B.31
1636270000	LP2HR 5.08/24/90 3.2SN OR BX	B.31
1636280000	LP2HR 5.08/30/90 3.2SN OR BX	B.31
1636370000	SL 135 BB15R SW	D.6
1636670000	SL FLA 2,3/1	D.9
1636680000	SL FLA 2,3/24	D.9
1638550000	BL 3.50/02/90 SN OR BX	C.46
1638560000	BL 3.50/03/90 SN OR BX	C.46
1638570000	BL 3.50/04/90 SN OR BX	C.46
1638580000	BL 3.50/05/90 SN OR BX	C.46
1638590000	BL 3.50/06/90 SN OR BX	C.46
1638600000	BL 3.50/07/90 SN OR BX	C.46
1638610000	BL 3.50/08/90 SN OR BX	C.46
1638620000	BL 3.50/09/90 SN OR BX	C.46
1638630000	BL 3.50/10/90 SN OR BX	C.46
1638640000	BL 3.50/11/90 SN OR BX	C.46
1638650000	BL 3.50/12/90 SN OR BX	C.46
1638660000	BL 3.50/13/90 SN OR BX	C.46
1638670000	BL 3.50/14/90 SN OR BX	C.46
1638680000	BL 3.50/15/90 SN OR BX	C.46
1638690000	BL 3.50/16/90 SN OR BX	C.46
1638700000	BL 3.50/17/90 SN OR BX	C.46
1638710000	BL 3.50/18/90 SN OR BX	C.46
1638720000	BL 3.50/19/90 SN OR BX	C.46
1638730000	BL 3.50/20/90 SN OR BX	C.46
1638740000	BL 3.50/21/90 SN OR BX	C.46
1638750000	BL 3.50/22/90 SN OR BX	C.46
1638760000	BL 3.50/23/90 SN OR BX	C.46
1638770000	BL 3.50/24/90 SN OR BX	C.46
1638780000	BL 3.50/02/90 SN BK BX	C.46
1638790000	BL 3.50/03/90 SN BK BX	C.46
1638800000	BL 3.50/04/90 SN BK BX	C.46
1638810000	BL 3.50/05/90 SN BK BX	C.46
1638820000	BL 3.50/06/90 SN BK BX	C.46
1638830000	BL 3.50/07/90 SN BK BX	C.46
1638840000	BL 3.50/08/90 SN BK BX	C.46
1638850000	BL 3.50/09/90 SN BK BX	C.46
1638860000	BL 3.50/10/90 SN BK BX	C.46
1638870000	BL 3.50/11/90 SN BK BX	C.46
1638880000	BL 3.50/12/90 SN BK BX	C.46
1638890000	BL 3.50/13/90 SN BK BX	C.46
1638900000	BL 3.50/14/90 SN BK BX	C.46
1638910000	BL 3.50/15/90 SN BK BX	C.46
1638920000	BL 3.50/16/90 SN BK BX	C.46
1638930000	BL 3.50/17/90 SN BK BX	C.46
1638940000	BL 3.50/18/90 SN BK BX	C.46
1638950000	BL 3.50/19/90 SN BK BX	C.46
1638960000	BL 3.50/20/90 SN BK BX	C.46
1638970000	BL 3.50/21/90 SN BK BX	C.46
1638980000	BL 3.50/22/90 SN BK BX	C.46
1638990000	BL 3.50/23/90 SN BK BX	C.46
1639000000	BL 3.50/24/90 SN BK BX	C.46
1639010000	BL 3.50/02/90F SN OR BX	C.47
1639020000	BL 3.50/03/90F SN OR BX	C.47
1639030000	BL 3.50/04/90F SN OR BX	C.47
1639040000	BL 3.50/05/90F SN OR BX	C.47
1639050000	BL 3.50/06/90F SN OR BX	C.47
1639060000	BL 3.50/07/90F SN OR BX	C.47
1639070000	BL 3.50/08/90F SN OR BX	C.47
1639080000	BL 3.50/09/90F SN OR BX	C.47
1639090000	BL 3.50/10/90F SN OR BX	C.47
1639100000	BL 3.50/11/90F SN OR BX	C.47
1639110000	BL 3.50/12/90F SN OR BX	C.47
1639120000	BL 3.50/13/90F SN OR BX	C.47
1639130000	BL 3.50/14/90F SN OR BX	C.47
1639140000	BL 3.50/15/90F SN OR BX	C.47
1639150000	BL 3.50/16/90F SN OR BX	C.47
1639160000	BL 3.50/17/90F SN OR BX	C.47
1639170000	BL 3.50/18/90F SN OR BX	C.47
1639180000	BL 3.50/19/90F SN OR BX	C.47
1639190000	BL 3.50/20/90F SN OR BX	C.47
1639200000	BL 3.50/21/90F SN OR BX	C.47
1639210000	BL 3.50/22/90F SN OR BX	C.47
1639220000	BL 3.50/23/90F SN OR BX	C.47
1639230000	BL 3.50/24/90F SN OR BX	C.47
1639240000	BL 3.50/02/90F SN BK BX	C.47
1639250000	BL 3.50/03/90F SN BK BX	C.47
1639260000	BL 3.50/04/90F SN BK BX	C.47
1639270000	BL 3.50/05/90F SN BK BX	C.47
1639280000	BL 3.50/06/90F SN BK BX	C.47
1639290000	BL 3.50/07/90F SN BK BX	C.47
1639300000	BL 3.50/08/90F SN BK BX	C.47
1639310000	BL 3.50/09/90F SN BK BX	C.47
1639320000	BL 3.50/10/90F SN BK BX	C.47
1639330000	BL 3.50/11/90F SN BK BX	C.47
1639340000	BL 3.50/12/90F SN BK BX	C.47
1639350000	BL 3.50/13/90F SN BK BX	C.47

Order No.	Type	Page
1639360000	BL 3.50/14/90F SN BK BX	C.47
1639370000	BL 3.50/15/90F SN BK BX	C.47
1639380000	BL 3.50/16/90F SN BK BX	C.47
1639390000	BL 3.50/17/90F SN BK BX	C.47
1639400000	BL 3.50/18/90F SN BK BX	C.47
1639410000	BL 3.50/19/90F SN BK BX	C.47
1639420000	BL 3.50/20/90F SN BK BX	C.47
1639430000	BL 3.50/21/90F SN BK BX	C.47
1639440000	BL 3.50/22/90F SN BK BX	C.47
1639450000	BL 3.50/23/90F SN BK BX	C.47
1639460000	BL 3.50/24/90F SN BK BX	C.47
1639470000	BL 3.50/02/270 SN OR BX	C.47
1639480000	BL 3.50/03/270 SN OR BX	C.47
1639490000	BL 3.50/04/270 SN OR BX	C.47
1639500000	BL 3.50/05/270 SN OR BX	C.47
1639510000	BL 3.50/06/270 SN OR BX	C.47
1639520000	BL 3.50/07/270 SN OR BX	C.47
1639530000	BL 3.50/08/270 SN OR BX	C.47
1639540000	BL 3.50/09/270 SN OR BX	C.47
1639550000	BL 3.50/10/270 SN OR BX	C.47
1639560000	BL 3.50/11/270 SN OR BX	C.47
1639570000	BL 3.50/12/270 SN OR BX	C.47
1639580000	BL 3.50/13/270 SN OR BX	C.47
1639590000	BL 3.50/14/270 SN OR BX	C.47
1639600000	BL 3.50/15/270 SN OR BX	C.47
1639610000	BL 3.50/16/270 SN OR BX	C.47
1639620000	BL 3.50/17/270 SN OR BX	C.47
1639630000	BL 3.50/18/270 SN OR BX	C.47
1639640000	BL 3.50/19/270 SN OR BX	C.47
1639650000	BL 3.50/20/270 SN OR BX	C.47
1639660000	BL 3.50/21/270 SN OR BX	C.47
1639670000	BL 3.50/22/270 SN OR BX	C.47
1639680000	BL 3.50/23/270 SN OR BX	C.47
1639690000	BL 3.50/24/270 SN OR BX	C.47
1639700000	BL 3.50/02/270 SN BK BX	C.47
1639710000	BL 3.50/03/270 SN BK BX	C.47
1639720000	BL 3.50/04/270 SN BK BX	C.47
1639730000	BL 3.50/05/270 SN BK BX	C.47
1639740000	BL 3.50/06/270 SN BK BX	C.47
1639750000	BL 3.50/07/270 SN BK BX	C.47
1639760000	BL 3.50/08/270 SN BK BX	C.47
1639770000	BL 3.50/09/270 SN BK BX	C.47
1639780000	BL 3.50/10/270 SN BK BX	C.47
1639790000	BL 3.50/11/270 SN BK BX	C.47
1639800000	BL 3.50/12/270 SN BK BX	C.47
1639810000	BL 3.50/13/270 SN BK BX	C.47
1639820000	BL 3.50/14/270 SN BK BX	C.47
1639830000	BL 3.50/15/270 SN BK BX	C.47
1639840000	BL 3.50/16/270 SN BK BX	C.47
1639850000	BL 3.50/17/270 SN BK BX	C.47
1639860000	BL 3.50/18/270 SN BK BX	C.47
1639870000	BL 3.50/19/270 SN BK BX	C.47
1639880000	BL 3.50/20/270 SN BK BX	C.47
1639890000	BL 3.50/21/270 SN BK BX	C.47
1639900000	BL 3.50/22/270 SN BK BX	C.47
1639910000	BL 3.50/23/270 SN BK BX	C.47
1639920000	BL 3.50/24/270 SN BK BX	C.47
1639930000	BL 3.50/02/270F SN OR BX	C.47
1639940000	BL 3.50/03/270F SN OR BX	C.47
1639950000	BL 3.50/04/270F SN OR BX	C.47
1639960000	BL 3.50/05/270F SN OR BX	C.47
1639970000	BL 3.50/06/270F SN OR BX	C.47
1639980000	BL 3.50/07/270F SN OR BX	C.47
1639990000	BL 3.50/08/270F SN OR BX	C.47

1640000000

1640000000	BL 3.50/09/270F SN OR BX	C.47
1640010000	BL 3.50/10/270F SN OR BX	C.47
1640020000	BL 3.50/11/270F SN OR BX	C.47
1640030000	BL 3.50/12/270F SN OR BX	C.47
1640040000	BL 3.50/13/270F SN OR BX	C.47
1640050000	BL 3.50/14/270F SN OR BX	C.47
1640060000	BL 3.50/15/270F SN OR BX	C.47
1640070000	BL 3.50/16/270F SN OR BX	C.47
1640080000	BL 3.50/17/270F SN OR BX	C.47
1640090000	BL 3.50/18/270F SN OR BX	C.47
1640100000	BL 3.50/19/270F SN OR BX	C.47
1640110000	BL 3.50/20/270F SN OR BX	C.47
1640120000	BL 3.50/21/270F SN OR BX	C.47
1640130000	BL 3.50/22/270F SN OR BX	C.47
1640140000	BL 3.50/23/270F SN OR BX	C.47
1640150000	BL 3.50/24/270F SN OR BX	C.47
1640160000	BL 3.50/02/270F SN BK BX	C.47
1640170000	BL 3.50/03/270F SN BK BX	C.47
1640180000	BL 3.50/04/270F SN BK BX	C.47
1640190000	BL 3.50/05/270F SN BK BX	C.47
1640200000	BL 3.50/06/270F SN BK BX	C.47
1640210000	BL 3.50/07/270F SN BK BX	C.47
1640220000	BL 3.50/08/270F SN BK BX	C.47
1640230000	BL 3.50/09/270F SN BK BX	C.47
1640240000	BL 3.50/10/270F SN BK BX	C.47
1640250000	BL 3.50/11/270F SN BK BX	C.47
1640260000	BL 3.50/12/270F SN BK BX	C.47
1640270000	BL 3.50/13/270F SN BK BX	C.47
1640280000	BL 3.50/14/270F SN BK BX	C.47
1640290000	BL 3.50/15/270F SN BK BX	C.47
1640300000	BL 3.50/16/270F SN BK BX	C.47
1640310000	BL 3.50/17/270F SN BK BX	C.47

Order No.	Type	Page
1640320000	BL 3.50/18/270F SN BK BX	C.47
1640330000	BL 3.50/19/270F SN BK BX	C.47
1640340000	BL 3.50/20/270F SN BK BX	C.47
1640350000	BL 3.50/21/270F SN BK BX	C.47
1640360000	BL 3.50/22/270F SN BK BX	C.47
1640370000	BL 3.50/23/270F SN BK BX	C.47
1640380000	BL 3.50/24/270F SN BK BX	C.47
1640410001	KSW 4 24/3,5 W 1-24	D.16
1640830000	LP1N 5.08/02/90 3.2SN OR BX	B.30
1640840000	LP1N 5.08/03/90 3.2SN OR BX	B.30
1640870000	LP1N 5.00/02/90 3.2SN OR BX	B.28
1640880000	LP1N 5.00/03/90 3.2SN OR BX	B.28
1640910000	LP1H 5.08/02/90 3.2SN OR BX	B.31
1640920000	LP1H 5.08/03/90 3.2SN OR BX	B.31
1641110000	SLD 3.5 V/4/180G 3.20R	C.42
1641120000	SLD 3.5 V/8/180G 3.20R	C.42
1641130000	SLD 3.5 V/12/180G 3.20R	C.42
1641140000	SLD 3.5 V/16/180G 3.20R	C.42
1641150000	SLD 3.5 V/20/180G 3.20R	C.42
1641160000	SLD 3.5 V/24/180G 3.20R	C.42
1641170000	SLD 3.5 V/28/180G 3.20R	C.42
1641180000	SLD 3.5 V/32/180G 3.20R	C.42
1641190000	SLD 3.5 V/36/180G 3.20R	C.42
1641200000	SLD 3.5 V/40/180G 3.20R	C.42
1641210000	SLD 3.5 V/44/180G 3.20R	C.42
1641220000	SLD 3.5 V/48/180G 3.20R	C.42
1641240000	SLD 3.50 V/04/180F 3.2 SN OR BX	C.43
1641250000	SLD 3.50 V/08/180F 3.2 SN OR BX	C.43
1641260000	SLD 3.50 V/12/180F 3.2 SN OR BX	C.43
1641270000	SLD 3.50 V/16/180F 3.2 SN OR BX	C.43
1641280000	SLD 3.50 V/20/180F 3.2 SN OR BX	C.43
1641290000	SLD 3.50 V/24/180F 3.2 SN OR BX	C.43
1641300000	SLD 3.50 V/28/180F 3.2 SN OR BX	C.43
1641310000	SLD 3.50 V/32/180F 3.2 SN OR BX	C.43
1641320000	SLD 3.50 V/36/180F 3.2 SN OR BX	C.43
1641330000	SLD 3.50 V/40/180F 3.2 SN OR BX	C.43
1641340000	SLD 3.50 V/44/180F 3.2 SN OR BX	C.43
1641350000	SLD 3.50 V/48/180F 3.2 SN OR BX	C.43
1642240000	SLD 3.50 V/04/90G 3.2 SN OR BX	C.40
1642250000	SLD 3.50 V/08/90G 3.2 SN OR BX	C.40
1642260000	SLD 3.50 V/12/90G 3.2 SN OR BX	C.40
1642270000	SLD 3.50 V/16/90G 3.2 SN OR BX	C.40
1642280000	SLD 3.50 V/20/90G 3.2 SN OR BX	C.40
1642290000	SLD 3.50 V/24/90G 3.2 SN OR BX	C.40
1642300000	SLD 3.50 V/28/90G 3.2 SN OR BX	C.40
1642310000	SLD 3.50 V/32/90G 3.2 SN OR BX	C.40
1642320000	SLD 3.50 V/36/90G 3.2 SN OR BX	C.40
1642330000	SLD 3.50 V/40/90G 3.2 SN OR BX	C.40
1642340000	SLD 3.50 V/44/90G 3.2 SN OR BX	C.40
1642350000	SLD 3.50 V/48/90G 3.2 SN OR BX	C.40
1642370000	SLD 3.50 V/04/90F 3.2 SN OR BX	C.41
1642380000	SLD 3.50 V/08/90F 3.2 SN OR BX	C.41
1642390000	SLD 3.50 V/12/90F 3.2 SN OR BX	C.41
1642400000	SLD 3.50 V/16/90F 3.2 SN OR BX	C.41
1642410000	SLD 3.50 V/20/90F 3.2 SN OR BX	C.41
1642420000	SLD 3.50 V/24/90F 3.2 SN OR BX	C.41
1642430000	SLD 3.50 V/28/90F 3.2 SN OR BX	C.41
1642440000	SLD 3.50 V/32/90F 3.2 SN OR BX	C.41
1642450000	SLD 3.50 V/36/90F 3.2 SN OR BX	C.41
1642460000	SLD 3.50 V/40/90F 3.2 SN OR BX	C.41
1642470000	SLD 3.50 V/44/90F 3.2 SN OR BX	C.41
1642480000	SLD 3.50 V/48/90F 3.2 SN OR BX	C.41
1643330000	SL 3.50/02/135F 3.2SN OR BX	C.36
1643340000	SL 3.50/03/135F 3.2SN OR BX	C.36
1643350000	SL 3.50/04/135F 3.2SN OR BX	C.36
1643360000	SL 3.50/05/135F 3.2SN OR BX	C.36
1643370000	SL 3.50/06/135F 3.2SN OR BX	C.36
1643380000	SL 3.50/07/135F 3.2SN OR BX	C.36
1643390000	SL 3.50/08/135F 3.2SN OR BX	C.36
1643400000	SL 3.50/09/135F 3.2SN OR BX	C.36
1643410000	SL 3.50/10/135F 3.2SN OR BX	C.36
1643420000	SL 3.50/11/135F 3.2SN OR BX	C.36
1643430000	SL 3.50/12/135F 3.2SN OR BX	C.36
1643440000	SL 3.50/13/135F 3.2SN OR BX	C.36
1643450000	SL 3.50/14/135F 3.2SN OR BX	C.36
1643460000	SL 3.50/15/135F 3.2SN OR BX	C.36
1643470000	SL 3.50/16/135F 3.2SN OR BX	C.36
1643480000	SL 3.50/17/135F 3.2SN OR BX	C.36
1643490000	SL 3.50/18/135F 3.2SN OR BX	C.36
1643500000	SL 3.50/19/135F 3.2SN OR BX	C.36
1643510000	SL 3.50/20/135F 3.2SN OR BX	C.36
1643520000	SL 3.50/21/135F 3.2SN OR BX	C.36
1643530000	SL 3.50/22/135F 3.2SN OR BX	C.36
1643540000	SL 3.50/23/135F 3.2SN OR BX	C.36
1643550000	SL 3.50/24/135F 3.2SN OR BX	C.36
1644730000	BLDT 5.08/02/- SN OR BX	C.234
1644740000	BLDT 5.08/03/- SN OR BX	C.234
1644750000	BLDT 5.08/04/- SN OR BX	C.234
1644760000	BLDT 5.08/05/- SN OR BX	C.234
1644770000	BLDT 5.08/06/- SN OR BX	C.234
1644780000	BLDT 5.08/07/- SN OR BX	C.234
1644790000	BLDT 5.08/08/- SN OR BX	C.234
1644800000	BLDT 5.08/09/- SN OR BX	C.234
1644810000	BLDT 5.08/10/- SN OR BX	C.234
1644820000	BLDT 5.08/11/- SN OR BX	C.234
1644830000	BLDT 5.08/12/- SN OR BX	C.234
1645150000	SLS 5.08/17/180B SN OR BX	C.210
1645160000	SLS 5.08/18/180B SN OR BX	C.210
1645170000	SLS 5.08/19/180B SN OR BX	C.210

Order No.	Type	Page
1645180000	SLS 5.08/20/180B SN OR BX	C.210
1645190000	SLS 5.08/21/180B SN OR BX	C.210
1645200000	SLS 5.08/22/180B SN OR BX	C.210
1645210000	SLS 5.08/23/180B SN OR BX	C.210
1645220000	SLS 5.08/24/180B SN OR BX	C.210
1646480000	LP2HR 5.08/48/90 3.2SN OR BX	B.31
1647300000	TOP4GS7/90 7.62 OR	B.52
1647310000	TOP1.5GS7/90 7 2STI OR	B.48
1648420000	BLL 5.08/13/90 3.2 SN OR BX	C.250
1648430000	BLL 5.08/14/90 3.2 SN OR BX	C.250
1648440000	BLL 5.08/15/90 3.2 SN OR BX	C.250
1648450000	BLL 5.08/16/90 3.2 SN OR BX	C.250
1648460000	BLL 5.08/17/90 3.2 SN OR BX	C.250
1648470000	BLL 5.08/18/90 3.2 SN OR BX	C.250
1648480000	BLL 5.08/19/90 3.2 SN OR BX	C.250
1648490000	BLL 5.08/20/90 3.2 SN OR BX	C.250
1648500000	BLL 5.08/21/90 3.2 SN OR BX	C.250
1648510000	BLL 5.08/22/90 3.2 SN OR BX	C.250
1648520000	BLL 5.08/23/90 3.2 SN OR BX	C.250
1648530000	BLL 5.08/24/90 3.2 SN OR BX	C.250
1648900000	BLL 5.08/13/180 3.2 SN OR BX	C.252
1648910000	BLL 5.08/14/180 3.2 SN OR BX	C.252
1648920000	BLL 5.08/15/180 3.2 SN OR BX	C.252
1648930000	BLL 5.08/16/180 3.2 SN OR BX	C.252
1648940000	BLL 5.08/17/180 3.2 SN OR BX	C.252
1648950000	BLL 5.08/18/180 3.2 SN OR BX	C.252
1648960000	BLL 5.08/19/180 3.2 SN OR BX	C.252
1648970000	BLL 5.08/20/180 3.2 SN OR BX	C.252
1648980000	BLL 5.08/21/180 3.2 SN OR BX	C.252
1648990000	BLL 5.08/22/180 3.2 SN OR BX	C.252
1649000000	BLL 5.08/23/180 3.2 SN OR BX	C.252
1649010000	BLL 5.08/24/180 3.2 SN OR BX	C.252
1649370000	BLC 5.08/02/180BR OR BX	C.249
1649380000	BLC 5.08/03/180BR OR BX	C.249
1649390000	BLC 5.08/04/180BR OR BX	C.249
1649400000	BLC 5.08/05/180BR OR BX	C.249
1649410000	BLC 5.08/06/180BR OR BX	C.249
1649420000	BLC 5.08/07/180BR OR BX	C.249
1649430000	BLC 5.08/08/180BR OR BX	C.249
1649440000	BLC 5.08/09/180BR OR BX	C.249
1649450000	BLC 5.08/10/180BR OR BX	C.249
1649460000	BLC 5.08/11/180BR OR BX	C.249
1649470000	BLC 5.08/12/180BR OR BX	C.249
1649480000	BLC 5.08/13/180BR OR BX	C.249
1649490000	BLC 5.08/14/180BR OR BX	C.249
1649500000	BLC 5.08/15/180BR OR BX	C.249
1649510000	BLC 5.08/16/180BR OR BX	C.249

1650000000

1650300000	TOP4GS3/90 6.35 OR	B.50
1651740000	BLDT 5.08/02/-B SN OR BX	C.235
1651750000	BLDT 5.08/03/-B SN OR BX	C.235
1651760000	BLDT 5.08/04/-B SN OR BX	C.235
1651770000	BLDT 5.08/05/-B SN OR BX	C.235
1651780000	BLDT 5.08/06/-B SN OR BX	C.235
1651790000	BLDT 5.08/07/-B SN OR BX	C.235
1651800000	BLDT 5.08/08/-B SN OR BX	C.235
1651810000	BLDT 5.08/09/-B SN OR BX	C.235
1651820000	BLDT 5.08/10/-B SN OR BX	C.235
1651830000	BLDT 5.08/11/-B SN OR BX	C.235
1651840000	BLDT 5.08/12/-B SN OR BX	C.235
1652040000	BLZ 5.00 ZE8 OR	D.2
1652050000	BLZ 5.08 ZE8 OR	D.2
1652060000	BLZ 5.00 ZE8 SW	D.2
1652070000	BLZ 5.08 ZE8 SW	D.2
1652100000	BLZ 5.00 ZE4 OR	D.2
1652110000	BLZ 5.08 ZE4 OR	D.2
1652120000	BLZ 5.00 ZE4 SW	D.2
1652130000	BLZ 5.08 ZE4 SW	D.2
1652250001	KSW 2,5 24/3,5 1-24	D.16
1652260001	KSW 2,5 16/3,5 1-16	D.16
1652270001	KSW 4 12/7,62 1-12	D.16
1653930000	LP3R 5.08/06/90 3.2SN OR BX	B.32

1660000000

1660710000	BLDT 5.08/02/- SN BK BX	C.234
1660720000	BLDT 5.08/03/- SN BK BX	C.234
1660730000	BLDT 5.08/04/- SN BK BX	C.234
1660740000	BLDT 5.08/05/- SN BK BX	C.234
1660750000	BLDT 5.08/06/- SN BK BX	C.234
1660760000	BLDT 5.08/07/- SN BK BX	C.234
1660770000	BLDT 5.08/08/- SN BK BX	C.234
1660780000	BLDT 5.08/09/- SN BK BX	C.234
1660790000	BLDT 5.08/10/- SN BK BX	C.234
1660800000	BLDT 5.08/11/- SN BK BX	C.234
1660810000	BLDT 5.08/12/- SN BK BX	C.234
1667750000	LM 3.50/02/90 3.2SN OR BX	B.10
1667770000	LM 3.50/03/90 3.2SN OR BX	B.10
1667910000	TOP4GS8/90 6.35 OR	B.50
1669300000	BL/SL 3.5 VR SW	D.5
1669310000	BL/SL 3.5 VR OR	D.5
1669650000	SLD 3.50V/22/90G 3.2SN OR BX	C.40
1669660000	SLD 3.50V/22/90F 3.2SN OR BX	C.41

1670000000

1673780000	BLDT 5.08/02/-B SN BK BX	C.235

Order No.	Type	Page
1673790000	BLDT 5.08/03/-B SN BK BX	C.235
1673800000	BLDT 5.08/04/-B SN BK BX	C.235
1673810000	BLDT 5.08/05/-B SN BK BX	C.235
1673820000	BLDT 5.08/06/-B SN BK BX	C.235
1673830000	BLDT 5.08/07/-B SN BK BX	C.235
1673840000	BLDT 5.08/08/-B SN BK BX	C.235
1673850000	BLDT 5.08/09/-B SN BK BX	C.235
1673860000	BLDT 5.08/10/-B SN BK BX	C.235
1673870000	BLDT 5.08/11/-B SN BK BX	C.235
1673880000	BLDT 5.08/12/-B SN BK BX	C.235

1680000000

1682730000	BLL 5.08/02/180B 3.2SN OR BX	C.253
1682740000	BLL 5.08/03/180B 3.2SN OR BX	C.253
1682750000	BLL 5.08/04/180B 3.2SN OR BX	C.253
1682760000	BLL 5.08/05/180B 3.2SN OR BX	C.253
1682770000	BLL 5.08/06/180B 3.2SN OR BX	C.253
1682780000	BLL 5.08/07/180B 3.2SN OR BX	C.253
1682790000	BLL 5.08/08/180B 3.2SN OR BX	C.253
1682800000	BLL 5.08/09/180B 3.2SN OR BX	C.253
1682810000	BLL 5.08/10/180B 3.2SN OR BX	C.253
1682820000	BLL 5.08/11/180B 3.2SN OR BX	C.253
1682830000	BLL 5.08/12/180B 3.2SN OR BX	C.253
1682840000	BLL 5.08/13/180B 3.2SN OR BX	C.253
1682850000	BLL 5.08/14/180B 3.2SN OR BX	C.253
1682860000	BLL 5.08/15/180B 3.2SN OR BX	C.253
1682870000	BLL 5.08/16/180B 3.2SN OR BX	C.253
1682880000	BLL 5.08/17/180B 3.2SN OR BX	C.253
1682890000	BLL 5.08/18/180B 3.2SN OR BX	C.253
1682900000	BLL 5.08/19/180B 3.2SN OR BX	C.253
1682910000	BLL 5.08/20/180B 3.2SN OR BX	C.253
1682920000	BLL 5.08/21/180B 3.2SN OR BX	C.253
1682930000	BLL 5.08/22/180B 3.2SN OR BX	C.253
1682940000	BLL 5.08/23/180B 3.2SN OR BX	C.253
1682950000	BLL 5.08/24/180B 3.2SN OR BX	C.253
1683990000	TOP1.5GS6/90 7 2STI OR	B.48
1687650000	BL 3.50/02/180LH SN OR BX	C.45
1687660000	BL 3.50/03/180LH SN OR BX	C.45
1687670000	BL 3.50/04/180LH SN OR BX	C.45
1687680000	BL 3.50/05/180LH SN OR BX	C.45
1687690000	BL 3.50/06/180LH SN OR BX	C.45
1687700000	BL 3.50/07/180LH SN OR BX	C.45
1687710000	BL 3.50/08/180LH SN OR BX	C.45
1687720000	BL 3.50/09/180LH SN OR BX	C.45
1687730000	BL 3.50/10/180LH SN OR BX	C.45
1687740000	BL 3.50/11/180LH SN OR BX	C.45
1687750000	BL 3.50/12/180LH SN OR BX	C.45
1687760000	BL 3.50/13/180LH SN OR BX	C.45
1687770000	BL 3.50/14/180LH SN OR BX	C.45
1687780000	BL 3.50/15/180LH SN OR BX	C.45
1687790000	BL 3.50/16/180LH SN OR BX	C.45
1687800000	BL 3.50/17/180LH SN OR BX	C.45
1687810000	BL 3.50/18/180LH SN OR BX	C.45
1687820000	BL 3.50/19/180LH SN OR BX	C.45
1687830000	BL 3.50/20/180LH SN OR BX	C.45
1687840000	BL 3.50/21/180LH SN OR BX	C.45
1687850000	BL 3.50/22/180LH SN OR BX	C.45
1687860000	BL 3.50/23/180LH SN OR BX	C.45
1687870000	BL 3.50/24/180LH SN OR BX	C.45
1687880000	BL 3.50/02/180LH SN BK BX	C.45
1687890000	BL 3.50/03/180LH SN BK BX	C.45
1687900000	BL 3.50/04/180LH SN BK BX	C.45
1687910000	BL 3.50/05/180LH SN BK BX	C.45
1687920000	BL 3.50/06/180LH SN BK BX	C.45
1687930000	BL 3.50/07/180LH SN BK BX	C.45
1687940000	BL 3.50/08/180LH SN BK BX	C.45
1687950000	BL 3.50/09/180LH SN BK BX	C.45
1687960000	BL 3.50/10/180LH SN BK BX	C.45
1687970000	BL 3.50/11/180LH SN BK BX	C.45
1687980000	BL 3.50/12/180LH SN BK BX	C.45
1687990000	BL 3.50/13/180LH SN BK BX	C.45
1688000000	BL 3.50/14/180LH SN BK BX	C.45
1688010000	BL 3.50/15/180LH SN BK BX	C.45
1688020000	BL 3.50/16/180LH SN BK BX	C.45
1688030000	BL 3.50/17/180LH SN BK BX	C.45
1688040000	BL 3.50/18/180LH SN BK BX	C.45
1688050000	BL 3.50/19/180LH SN BK BX	C.45
1688060000	BL 3.50/20/180LH SN BK BX	C.45
1688070000	BL 3.50/21/180LH SN BK BX	C.45
1688080000	BL 3.50/22/180LH SN BK BX	C.45
1688090000	BL 3.50/23/180LH SN BK BX	C.45
1688100000	BL 3.50/24/180LH SN BK BX	C.45

1690000000

1690110000	RSV1,6 RF4/35x15 SW	D.3
1690120000	RSV1,6 RF6/35x15 SW	D.3
1690130000	RSV1,6 RF9/35x15 SW	D.3
1690140000	RSV1,6 RF12/35x15 SW	D.3
1690150000	RSV1,6 RF18/35x15 SW	D.3
1690160000	RSV1,6 RF24/35x15 SW	D.3
1690170000	RSV1,6 RF36/35x15 SW	D.3
1690190000	BLZF 3.50/02/180 SN OR BX	C.48
1690200000	BLZF 3.50/03/180 SN OR BX	C.48
1690210000	BLZF 3.50/04/180 SN OR BX	C.48
1690220000	BLZF 3.50/05/180 SN OR BX	C.48
1690230000	BLZF 3.50/06/180 SN OR BX	C.48
1690240000	BLZF 3.50/07/180 SN OR BX	C.48
1690250000	BLZF 3.50/08/180 SN OR BX	C.48
1690260000	BLZF 3.50/09/180 SN OR BX	C.48
1690270000	BLZF 3.50/10/180 SN OR BX	C.48
1690280000	BLZF 3.50/11/180 SN OR BX	C.48
1690290000	BLZF 3.50/12/180 SN OR BX	C.48
1690300000	BLZF 3.50/13/180 SN OR BX	C.48
1690310000	BLZF 3.50/14/180 SN OR BX	C.48
1690320000	BLZF 3.50/15/180 SN OR BX	C.48
1690330000	BLZF 3.50/16/180 SN OR BX	C.48
1690340000	BLZF 3.50/17/180 SN OR BX	C.48
1690350000	BLZF 3.50/18/180 SN OR BX	C.48
1690360000	BLZF 3.50/19/180 SN OR BX	C.48
1690370000	BLZF 3.50/20/180 SN OR BX	C.48
1690380000	BLZF 3.50/21/180 SN OR BX	C.48
1690390000	BLZF 3.50/22/180 SN OR BX	C.48
1690400000	BLZF 3.50/23/180 SN OR BX	C.48
1690410000	BLZF 3.50/24/180 SN OR BX	C.48
1690420000	BLZF 3.50/02/180 SN BK BX	C.48
1690430000	BLZF 3.50/03/180 SN BK BX	C.48
1690440000	BLZF 3.50/04/180 SN BK BX	C.48
1690450000	BLZF 3.50/05/180 SN BK BX	C.48
1690460000	BLZF 3.50/06/180 SN BK BX	C.48
1690470000	BLZF 3.50/07/180 SN BK BX	C.48
1690480000	BLZF 3.50/08/180 SN BK BX	C.48
1690490000	BLZF 3.50/09/180 SN BK BX	C.48
1690500000	BLZF 3.50/10/180 SN BK BX	C.48
1690510000	BLZF 3.50/11/180 SN BK BX	C.48
1690520000	BLZF 3.50/12/180 SN BK BX	C.48
1690530000	BLZF 3.50/13/180 SN BK BX	C.48
1690540000	BLZF 3.50/14/180 SN BK BX	C.48
1690550000	BLZF 3.50/15/180 SN BK BX	C.48
1690560000	BLZF 3.50/16/180 SN BK BX	C.48
1690570000	BLZF 3.50/17/180 SN BK BX	C.48
1690580000	BLZF 3.50/18/180 SN BK BX	C.48
1690590000	BLZF 3.50/19/180 SN BK BX	C.48
1690600000	BLZF 3.50/20/180 SN BK BX	C.48
1690610000	BLZF 3.50/21/180 SN BK BX	C.48
1690620000	BLZF 3.50/22/180 SN BK BX	C.48
1690630000	BLZF 3.50/23/180 SN BK BX	C.48
1690640000	BLZF 3.50/24/180 SN BK BX	C.48
1690880000	BLZF 3.50/02/180F SN OR BX	C.49
1690890000	BLZF 3.50/03/180F SN OR BX	C.49
1690900000	BLZF 3.50/04/180F SN OR BX	C.49
1690910000	BLZF 3.50/05/180F SN OR BX	C.49
1690920000	BLZF 3.50/06/180F SN OR BX	C.49
1690930000	BLZF 3.50/07/180F SN OR BX	C.49
1690940000	BLZF 3.50/08/180F SN OR BX	C.49
1690950000	BLZF 3.50/09/180F SN OR BX	C.49
1690960000	BLZF 3.50/10/180F SN OR BX	C.49
1690970000	BLZF 3.50/11/180F SN OR BX	C.49
1690980000	BLZF 3.50/12/180F SN OR BX	C.49
1690990000	BLZF 3.50/13/180F SN OR BX	C.49
1691000000	BLZF 3.50/14/180F SN OR BX	C.49
1691010000	BLZF 3.50/15/180F SN OR BX	C.49
1691020000	BLZF 3.50/16/180F SN OR BX	C.49
1691030000	BLZF 3.50/17/180F SN OR BX	C.49
1691040000	BLZF 3.50/18/180F SN OR BX	C.49
1691050000	BLZF 3.50/19/180F SN OR BX	C.49
1691060000	BLZF 3.50/20/180F SN OR BX	C.49
1691070000	BLZF 3.50/21/180F SN OR BX	C.49
1691080000	BLZF 3.50/22/180F SN OR BX	C.49
1691090000	BLZF 3.50/23/180F SN OR BX	C.49
1691100000	BLZF 3.50/24/180F SN OR BX	C.49
1691110000	BLZF 3.50/02/180F SN BK BX	C.49
1691120000	BLZF 3.50/03/180F SN BK BX	C.49
1691130000	BLZF 3.50/04/180F SN BK BX	C.49
1691140000	BLZF 3.50/05/180F SN BK BX	C.49
1691150000	BLZF 3.50/06/180F SN BK BX	C.49
1691160000	BLZF 3.50/07/180F SN BK BX	C.49
1691170000	BLZF 3.50/08/180F SN BK BX	C.49
1691180000	BLZF 3.50/09/180F SN BK BX	C.49
1691190000	BLZF 3.50/10/180F SN BK BX	C.49
1691200000	BLZF 3.50/11/180F SN BK BX	C.49
1691210000	BLZF 3.50/12/180F SN BK BX	C.49
1691220000	BLZF 3.50/13/180F SN BK BX	C.49
1691230000	BLZF 3.50/14/180F SN BK BX	C.49
1691240000	BLZF 3.50/15/180F SN BK BX	C.49
1691250000	BLZF 3.50/16/180F SN BK BX	C.49
1691260000	BLZF 3.50/17/180F SN BK BX	C.49
1691270000	BLZF 3.50/18/180F SN BK BX	C.49
1691280000	BLZF 3.50/19/180F SN BK BX	C.49
1691290000	BLZF 3.50/20/180F SN BK BX	C.49
1691300000	BLZF 3.50/21/180F SN BK BX	C.49
1691310000	BLZF 3.50/22/180F SN BK BX	C.49
1691320000	BLZF 3.50/23/180F SN BK BX	C.49
1691330000	BLZF 3.50/24/180F SN BK BX	C.49
1691570000	BLZF 3.50/02/180LH SN OR BX	C.49
1691580000	BLZF 3.50/03/180LH SN OR BX	C.49
1691590000	BLZF 3.50/04/180LH SN OR BX	C.49
1691600000	BLZF 3.50/05/180LH SN OR BX	C.49
1691610000	BLZF 3.50/06/180LH SN OR BX	C.49
1691620000	BLZF 3.50/07/180LH SN OR BX	C.49
1691630000	BLZF 3.50/08/180LH SN OR BX	C.49
1691640000	BLZF 3.50/09/180LH SN OR BX	C.49
1691650000	BLZF 3.50/10/180LH SN OR BX	C.49
1691660000	BLZF 3.50/11/180LH SN OR BX	C.49
1691670000	BLZF 3.50/12/180LH SN OR BX	C.49
1691680000	BLZF 3.50/13/180LH SN OR BX	C.49
1691690000	BLZF 3.50/14/180LH SN OR BX	C.49
1691700000	BLZF 3.50/15/180LH SN OR BX	C.49
1691710000	BLZF 3.50/16/180LH SN OR BX	C.49
1691720000	BLZF 3.50/17/180LH SN OR BX	C.49
1691730000	BLZF 3.50/18/180LH SN OR BX	C.49
1691740000	BLZF 3.50/19/180LH SN OR BX	C.49
1691750000	BLZF 3.50/20/180LH SN OR BX	C.49
1691760000	BLZF 3.50/21/180LH SN OR BX	C.49
1691770000	BLZF 3.50/22/180LH SN OR BX	C.49
1691780000	BLZF 3.50/23/180LH SN OR BX	C.49
1691790000	BLZF 3.50/24/180LH SN OR BX	C.49
1691800000	BLZF 3.50/02/180LH SN BK BX	C.49
1691810000	BLZF 3.50/03/180LH SN BK BX	C.49
1691820000	BLZF 3.50/04/180LH SN BK BX	C.49
1691830000	BLZF 3.50/05/180LH SN BK BX	C.49
1691840000	BLZF 3.50/06/180LH SN BK BX	C.49
1691850000	BLZF 3.50/07/180LH SN BK BX	C.49
1691860000	BLZF 3.50/08/180LH SN BK BX	C.49
1691870000	BLZF 3.50/09/180LH SN BK BX	C.49
1691880000	BLZF 3.50/10/180LH SN BK BX	C.49
1691890000	BLZF 3.50/11/180LH SN BK BX	C.49
1691900000	BLZF 3.50/12/180LH SN BK BX	C.49
1691910000	BLZF 3.50/13/180LH SN BK BX	C.49
1691920000	BLZF 3.50/14/180LH SN BK BX	C.49
1691930000	BLZF 3.50/15/180LH SN BK BX	C.49
1691940000	BLZF 3.50/16/180LH SN BK BX	C.49
1691950000	BLZF 3.50/17/180LH SN BK BX	C.49
1691960000	BLZF 3.50/18/180LH SN BK BX	C.49
1691970000	BLZF 3.50/19/180LH SN BK BX	C.49
1691980000	BLZF 3.50/20/180LH SN BK BX	C.49
1691990000	BLZF 3.50/21/180LH SN BK BX	C.49
1692000000	BLZF 3.50/22/180LH SN BK BX	C.49
1692010000	BLZF 3.50/23/180LH SN BK BX	C.49
1692020000	BLZF 3.50/24/180LH SN BK BX	C.49
1692340000	SLA BB11R SW	D.6
1693430000	BL SL 3.5 KO OR	D.10
1695700000	TOP1.5GS7/180 5 2STI OR	B.47
1698740000	TOP4GS5/90 7.62 OR	B.52
1699580000	S2L 3.5 FLA 20/10	D.8

1700000000

1700660001	KSW 2,5 8/5,00 W 1-8	D.16
1700670001	KSW 4 8/5,00 W 1-8	D.16
1700680001	KSW 4 8/7,62 W 1-8	D.16
1700700001	KSW 4 16/5,00 W 1-16	D.16
1700710001	KSW 4 24/5,00 W 1-24	D.16
1703700000	LM2N 3.50/04/90 3.2SN OR BX	B.13
1703710000	LM2N 3.50/06/90 3.2SN OR BX	B.13
1703720000	LM2N 3.50/08/90 3.2SN OR BX	B.13
1703730000	LM2N 3.50/10/90 3.2SN OR BX	B.13
1703740000	LM2N 3.50/12/90 3.2SN OR BX	B.13
1703750000	LM2N 3.50/14/90 3.2SN OR BX	B.13
1703760000	LM2N 3.50/16/90 3.2SN OR BX	B.13
1703770000	LM2N 3.50/18/90 3.2SN OR BX	B.13
1703780000	LM2N 3.50/20/90 3.2SN OR BX	B.13
1703790000	LM2N 3.50/22/90 3.2SN OR BX	B.13
1703800000	LM2N 3.50/24/90 3.2SN OR BX	B.13
1703810000	LM2N 3.50/26/90 3.2SN OR BX	B.13
1703820000	LM2N 3.50/28/90 3.2SN OR BX	B.13
1703830000	LM2N 3.50/30/90 3.2SN OR BX	B.13
1703840000	LM2N 3.50/32/90 3.2SN OR BX	B.13
1703850000	LM2N 3.50/34/90 3.2SN OR BX	B.13
1703860000	LM2N 3.50/36/90 3.2SN OR BX	B.13
1703870000	LM2N 3.50/38/90 3.2SN OR BX	B.13
1703880000	LM2N 3.50/40/90 3.2SN OR BX	B.13
1703890000	LM2N 3.50/42/90 3.2SN OR BX	B.13
1703900000	LM2N 3.50/44/90 3.2SN OR BX	B.13
1703910000	LM2N 3.50/46/90 3.2SN OR BX	B.13
1703920000	LM2N 3.50/48/90 3.2SN OR BX	B.13
1707040000	TOP1.5GS18/90 5 2STI OR	B.46

1710000000

1711960000	BLC 5.08/02/180R BK BX	C.248
1711970000	BLC 5.08/03/180R BK BX	C.248
1711980000	BLC 5.08/04/180R BK BX	C.248
1711990000	BLC 5.08/05/180R BK BX	C.248
1712000000	BLC 5.08/06/180R BK BX	C.248
1712010000	BLC 5.08/07/180R BK BX	C.248
1712020000	BLC 5.08/08/180R BK BX	C.248
1712030000	BLC 5.08/09/180R BK BX	C.248
1712040000	BLC 5.08/10/180R BK BX	C.248
1712050000	BLC 5.08/11/180R BK BX	C.248
1712060000	BLC 5.08/12/180R BK BX	C.248
1712070000	BLC 5.08/13/180R BK BX	C.248
1712080000	BLC 5.08/14/180R BK BX	C.248
1712090000	BLC 5.08/15/180R BK BX	C.248
1712100000	BLC 5.08/16/180R BK BX	C.248
1712110000	BLC 5.08/02/180BR BK BX	C.249
1712120000	BLC 5.08/03/180BR BK BX	C.249
1712130000	BLC 5.08/04/180BR BK BX	C.249
1712140000	BLC 5.08/05/180BR BK BX	C.249
1712150000	BLC 5.08/06/180BR BK BX	C.249
1712160000	BLC 5.08/07/180BR BK BX	C.249
1712170000	BLC 5.08/08/180BR BK BX	C.249
1712180000	BLC 5.08/09/180BR BK BX	C.249
1712190000	BLC 5.08/10/180BR BK BX	C.249
1712200000	BLC 5.08/11/180BR BK BX	C.249
1712210000	BLC 5.08/12/180BR BK BX	C.249

Order No.	Type	Page
1712220000	BLC 5.08/13/180BR BK BX	C.249
1712230000	BLC 5.08/14/180BR BK BX	C.249
1712240000	BLC 5.08/15/180BR BK BX	C.249
1712250000	BLC 5.08/16/180BR BK BX	C.249
1713970001	KSW 2,5 16/5,08 W 1-16	D.16
1713980001	KSW 2,5 24/5,00 W 1-24	D.16
1713990001	KSW 2,5 24/5,08 W 1-24	D.16
1714980000	LM 3.50/02/135 3.2SN OR BX	B.11
1715020000	LM 3.50/03/135 3.2SN OR BX	B.11
1715310000	LM 5.00/02/90 3.5SN OR BX	B.16
1715320000	LM 5.00/03/90 3.5SN OR BX	B.16
1715330000	LM 5.00/02/180 3.5SN OR BX	B.17
1715340000	LM 5.00/03/180 3.5SN OR BX	B.17
1715350000	LM 5.00/02/135 3.5SN OR BX	B.17
1715360000	LM 5.00/03/135 3.5SN OR BX	B.17
1716080000	LM 5.08/02/90 3.5SN OR BX	B.18
1716090000	LM 5.08/03/90 3.5SN OR BX	B.18
1716100000	LM 5.08/02/180 3.5SN OR BX	B.19
1716110000	LM 5.08/03/180 3.5SN OR BX	B.19
1716120000	LM 5.08/02/135 3.5SN OR BX	B.19
1716130000	LM 5.08/03/135 3.5SN OR BX	B.19
1716710000	LM1N 3.50/02/90 3.2SN OR BX	B.12
1716720000	LM1N 3.50/03/90 3.2SN OR BX	B.12

1720000000

1720250000	LM 3.50/05/90 3.2SN OR BX	B.10
1723430000	SLA BB1R OR	D.6
1723440000	SLA BB2R OR	D.6
1723480000	SLA BB1R SW	D.6
1723490000	SLA BB2R SW	D.6
1724680000	LL 9.52/02/90 5.0SN OR BX	B.44
1724690000	LL 9.52/03/90 5.0SN OR BX	B.44
1724740000	TOP1.5GS13/180 5 2ST OR	B.47
1725170000	SLD 5.08V/04/90 3.2 SN OR BX	C.198
1725180000	SLD 5.08V/06/90 3.2 SN OR BX	C.198
1725190000	SLD 5.08V/08/90 3.2 SN OR BX	C.198
1725200000	SLD 5.08V/10/90 3.2 SN OR BX	C.198
1725210000	SLD 5.08V/12/90 3.2 SN OR BX	C.198
1725220000	SLD 5.08V/14/90 3.2 SN OR BX	C.198
1725230000	SLD 5.08V/16/90 3.2 SN OR BX	C.198
1725240000	SLD 5.08V/18/90 3.2 SN OR BX	C.198
1725250000	SLD 5.08V/20/90 3.2 SN OR BX	C.198
1725260000	SLD 5.08V/22/90 3.2 SN OR BX	C.198
1725270000	SLD 5.08V/24/90 3.2 SN OR BX	C.198
1725280000	SLD 5.08V/26/90 3.2 SN OR BX	C.198
1725290000	SLD 5.08V/28/90 3.2 SN OR BX	C.198
1725300000	SLD 5.08V/30/90 3.2 SN OR BX	C.198
1725310000	SLD 5.08V/32/90 3.2 SN OR BX	C.198
1725320000	SLD 5.08V/34/90 3.2 SN OR BX	C.198
1725330000	SLD 5.08V/36/90 3.2 SN OR BX	C.198
1725340000	SLD 5.08V/38/90 3.2 SN OR BX	C.198
1725350000	SLD 5.08V/40/90 3.2 SN OR BX	C.198
1725360000	SLD 5.08V/42/90 3.2 SN OR BX	C.198
1725370000	SLD 5.08V/44/90 3.2 SN OR BX	C.198
1725380000	SLD 5.08V/46/90 3.2 SN OR BX	C.198
1725390000	SLD 5.08V/48/90 3.2 SN OR BX	C.198
1725650000	SLD 5.08V/04/180 3.2SN OR BX	C.199
1725660000	SLD 5.08V/06/180 3.2SN OR BX	C.199
1725670000	SLD 5.08V/08/180 3.2SN OR BX	C.199
1725680000	SLD 5.08V/10/180 3.2SN OR BX	C.199
1725690000	SLD 5.08V/12/180 3.2SN OR BX	C.199
1725700000	SLD 5.08V/14/180 3.2SN OR BX	C.199
1725710000	SLD 5.08V/16/180 3.2SN OR BX	C.199
1725720000	SLD 5.08V/18/180 3.2SN OR BX	C.199
1725730000	SLD 5.08V/20/180 3.2SN OR BX	C.199
1725740000	SLD 5.08V/22/180 3.2SN OR BX	C.199
1725750000	SLD 5.08V/24/180 3.2SN OR BX	C.199
1725760000	SLD 5.08V/26/180 3.2SN OR BX	C.199
1725770000	SLD 5.08V/28/180 3.2SN OR BX	C.199
1725780000	SLD 5.08V/30/180 3.2SN OR BX	C.199
1725790000	SLD 5.08V/32/180 3.2SN OR BX	C.199
1725800000	SLD 5.08V/34/180 3.2SN OR BX	C.199
1725810000	SLD 5.08V/36/180 3.2SN OR BX	C.199
1725820000	SLD 5.08V/38/180 3.2SN OR BX	C.199
1725830000	SLD 5.08V/40/180 3.2SN OR BX	C.199
1725840000	SLD 5.08V/42/180 3.2SN OR BX	C.199
1725850000	SLD 5.08V/44/180 3.2SN OR BX	C.199
1725860000	SLD 5.08V/46/180 3.2SN OR BX	C.199
1725870000	SLD 5.08V/48/180 3.2SN OR BX	C.199
1727830000	S2L 3.50/06/90G 3.5SN OR BX	C.14
1727840000	S2L 3.50/08/90G 3.5SN OR BX	C.14
1727850000	S2L 3.50/10/90G 3.5SN OR BX	C.14
1727860000	S2L 3.50/12/90G 3.5SN OR BX	C.14
1727870000	S2L 3.50/14/90G 3.5SN OR BX	C.14
1727880000	S2L 3.50/16/90G 3.5SN OR BX	C.14
1727890000	S2L 3.50/18/90G 3.5SN OR BX	C.14
1727900000	S2L 3.50/20/90G 3.5SN OR BX	C.14
1727910000	S2L 3.50/22/90G 3.5SN OR BX	C.14
1727920000	S2L 3.50/24/90G 3.5SN OR BX	C.14
1727930000	S2L 3.50/26/90G 3.5SN OR BX	C.14
1727940000	S2L 3.50/28/90G 3.5SN OR BX	C.14
1727950000	S2L 3.50/30/90G 3.5SN OR BX	C.14
1727960000	S2L 3.50/32/90G 3.5SN OR BX	C.14
1727970000	S2L 3.50/34/90G 3.5SN OR BX	C.14
1727980000	S2L 3.50/36/90G 3.5SN OR BX	C.14
1727990000	S2L 3.50/06/90G 3.5SN BK BX	C.14
1728000000	S2L 3.50/08/90G 3.5SN BK BX	C.14
1728010000	S2L 3.50/10/90G 3.5SN BK BX	C.14

Order No.	Type	Page
1728020000	S2L 3.50/12/90G 3.5SN BK BX	C.14
1728030000	S2L 3.50/14/90G 3.5SN BK BX	C.14
1728040000	S2L 3.50/16/90G 3.5SN BK BX	C.14
1728050000	S2L 3.50/18/90G 3.5SN BK BX	C.14
1728060000	S2L 3.50/20/90G 3.5SN BK BX	C.14
1728070000	S2L 3.50/22/90G 3.5SN BK BX	C.14
1728080000	S2L 3.50/24/90G 3.5SN BK BX	C.14
1728090000	S2L 3.50/26/90G 3.5SN BK BX	C.14
1728100000	S2L 3.50/28/90G 3.5SN BK BX	C.14
1728110000	S2L 3.50/30/90G 3.5SN BK BX	C.14
1728120000	S2L 3.50/32/90G 3.5SN BK BX	C.14
1728130000	S2L 3.50/34/90G 3.5SN BK BX	C.14
1728140000	S2L 3.50/36/90G 3.5SN BK BX	C.14
1728470000	S2L 3.50/06/90F 3.5SN OR BX	C.15
1728480000	S2L 3.50/08/90F 3.5SN OR BX	C.15
1728490000	S2L 3.50/10/90F 3.5SN OR BX	C.15
1728500000	S2L 3.50/12/90F 3.5SN OR BX	C.15
1728510000	S2L 3.50/14/90F 3.5SN OR BX	C.15
1728520000	S2L 3.50/16/90F 3.5SN OR BX	C.15
1728530000	S2L 3.50/18/90F 3.5SN OR BX	C.15
1728540000	S2L 3.50/20/90F 3.5SN OR BX	C.15
1728550000	S2L 3.50/22/90F 3.5SN OR BX	C.15
1728560000	S2L 3.50/24/90F 3.5SN OR BX	C.15
1728570000	S2L 3.50/26/90F 3.5SN OR BX	C.15
1728580000	S2L 3.50/28/90F 3.5SN OR BX	C.15
1728590000	S2L 3.50/30/90F 3.5SN OR BX	C.15
1728600000	S2L 3.50/32/90F 3.5SN OR BX	C.15
1728610000	S2L 3.50/34/90F 3.5SN OR BX	C.15
1728620000	S2L 3.50/36/90F 3.5SN OR BX	C.15
1728630000	S2L 3.50/06/90F 3.5SN BK BX	C.15
1728640000	S2L 3.50/08/90F 3.5SN BK BX	C.15
1728650000	S2L 3.50/10/90F 3.5SN BK BX	C.15
1728660000	S2L 3.50/12/90F 3.5SN BK BX	C.15
1728670000	S2L 3.50/14/90F 3.5SN BK BX	C.15
1728680000	S2L 3.50/16/90F 3.5SN BK BX	C.15
1728690000	S2L 3.50/18/90F 3.5SN BK BX	C.15
1728700000	S2L 3.50/20/90F 3.5SN BK BX	C.15
1728710000	S2L 3.50/22/90F 3.5SN BK BX	C.15
1728720000	S2L 3.50/24/90F 3.5SN BK BX	C.15
1728730000	S2L 3.50/26/90F 3.5SN BK BX	C.15
1728740000	S2L 3.50/28/90F 3.5SN BK BX	C.15
1728750000	S2L 3.50/30/90F 3.5SN BK BX	C.15
1728760000	S2L 3.50/32/90F 3.5SN BK BX	C.15
1728770000	S2L 3.50/34/90F 3.5SN BK BX	C.15
1728780000	S2L 3.50/36/90F 3.5SN BK BX	C.15
1728790000	S2L 3.50/06/180G 3.5SN OR BX	C.16
1728800000	S2L 3.50/08/180G 3.5SN OR BX	C.16
1728810000	S2L 3.50/10/180G 3.5SN OR BX	C.16
1728820000	S2L 3.50/12/180G 3.5SN OR BX	C.16
1728830000	S2L 3.50/14/180G 3.5SN OR BX	C.16
1728840000	S2L 3.50/16/180G 3.5SN OR BX	C.16
1728850000	S2L 3.50/18/180G 3.5SN OR BX	C.16
1728860000	S2L 3.50/20/180G 3.5SN OR BX	C.16
1728870000	S2L 3.50/22/180G 3.5SN OR BX	C.16
1728880000	S2L 3.50/24/180G 3.5SN OR BX	C.16
1728890000	S2L 3.50/26/180G 3.5SN OR BX	C.16
1728900000	S2L 3.50/28/180G 3.5SN OR BX	C.16
1728910000	S2L 3.50/30/180G 3.5SN OR BX	C.16
1728920000	S2L 3.50/32/180G 3.5SN OR BX	C.16
1728950000	S2L 3.50/06/180G 3.5SN BK BX	C.16
1728960000	S2L 3.50/08/180G 3.5SN BK BX	C.16
1728970000	S2L 3.50/10/180G 3.5SN BK BX	C.16
1728980000	S2L 3.50/12/180G 3.5SN BK BX	C.16
1728990000	S2L 3.50/14/180G 3.5SN BK BX	C.16
1729000000	S2L 3.50/16/180G 3.5SN BK BX	C.16
1729010000	S2L 3.50/18/180G 3.5SN BK BX	C.16
1729020000	S2L 3.50/20/180G 3.5SN BK BX	C.16
1729030000	S2L 3.50/22/180G 3.5SN BK BX	C.16
1729040000	S2L 3.50/24/180G 3.5SN BK BX	C.16
1729050000	S2L 3.50/26/180G 3.5SN BK BX	C.16
1729060000	S2L 3.50/28/180G 3.5SN BK BX	C.16
1729070000	S2L 3.50/30/180G 3.5SN BK BX	C.16
1729080000	S2L 3.50/32/180G 3.5SN BK BX	C.16
1729430000	S2L 3.50/06/180F 3.5SN OR BX	C.17
1729440000	S2L 3.50/08/180F 3.5SN OR BX	C.17
1729450000	S2L 3.50/10/180F 3.5SN OR BX	C.17
1729460000	S2L 3.50/12/180F 3.5SN OR BX	C.17
1729470000	S2L 3.50/14/180F 3.5SN OR BX	C.17
1729480000	S2L 3.50/16/180F 3.5SN OR BX	C.17
1729490000	S2L 3.50/18/180F 3.5SN OR BX	C.17
1729500000	S2L 3.50/20/180F 3.5SN OR BX	C.17
1729510000	S2L 3.50/22/180F 3.5SN OR BX	C.17
1729520000	S2L 3.50/24/180F 3.5SN OR BX	C.17
1729530000	S2L 3.50/26/180F 3.5SN OR BX	C.17
1729540000	S2L 3.50/28/180F 3.5SN OR BX	C.17
1729550000	S2L 3.50/30/180F 3.5SN OR BX	C.17
1729560000	S2L 3.50/32/180F 3.5SN OR BX	C.17
1729570000	S2L 3.50/34/180F 3.5SN OR BX	C.17
1729580000	S2L 3.50/36/180F 3.5SN OR BX	C.17
1729590000	S2L 3.50/06/180F 3.5SN BK BX	C.17
1729600000	S2L 3.50/08/180F 3.5SN BK BX	C.17
1729610000	S2L 3.50/10/180F 3.5SN BK BX	C.17
1729620000	S2L 3.50/12/180F 3.5SN BK BX	C.17
1729630000	S2L 3.50/14/180F 3.5SN BK BX	C.17
1729640000	S2L 3.50/16/180F 3.5SN BK BX	C.17
1729650000	S2L 3.50/18/180F 3.5SN BK BX	C.17
1729660000	S2L 3.50/20/180F 3.5SN BK BX	C.17
1729670000	S2L 3.50/22/180F 3.5SN BK BX	C.17
1729680000	S2L 3.50/24/180F 3.5SN BK BX	C.17

Order No.	Type	Page
1729690000	S2L 3.50/26/180F 3.5SN BK BX	C.17
1729700000	S2L 3.50/28/180F 3.5SN BK BX	C.17
1729710000	S2L 3.50/30/180F 3.5SN BK BX	C.17
1729720000	S2L 3.50/32/180F 3.5SN BK BX	C.17
1729730000	S2L 3.50/34/180F 3.5SN BK BX	C.17
1729740000	S2L 3.50/36/180F 3.5SN BK BX	C.17

1740000000

1745580000	BL 3.5 AH 3 SW	D.4
1745590000	BL 3.5 AH 4 SW	D.4
1745600000	BL 3.5 AH 5 SW	D.4
1745610000	BL 3.5 AH 6 SW	D.4
1745620000	BL 3.5 AH 7 SW	D.4
1745630000	BL 3.5 AH 8 SW	D.4
1745640000	BL 3.5 AH 9 SW	D.4
1745650000	BL 3.5 AH 10 SW	D.4
1745660000	BL 3.5 AH 11 SW	D.4
1745670000	BL 3.5 AH 12 SW	D.4
1745680000	BL 3.5 AH 13 SW	D.4
1745690000	BL 3.5 AH 14 SW	D.4
1745700000	BL 3.5 AH 15 SW	D.4
1745710000	BL 3.5 AH 16 SW	D.4
1747470000	LPZP1N 2.54 OR	D.13
1747480000	LPZP 2.54/90 OR	D.12
1747490000	LPZP 1.27/90 OR	D.12
1747500000	LPZP 2.54/90 SW	D.12
1747510000	LPZP 1.27/90 SW	D.12
1747520000	LPZP1N 2.54 SW	D.13
1747530000	LPBB MU OR	D.7
1747540000	LPBB OR	D.7
1747550000	LPBB MU SW	D.7
1747560000	LPBB SW	D.7
1749170000	TOP4GS12/180 7.62 OR	B.53

1750000000

1751380000	BLIDCB 3.50/02/- SN OR BX	C.50
1751390000	BLIDCB 3.50/03/- SN OR BX	C.50
1751400000	BLIDCB 3.50/04/- SN OR BX	C.50
1751410000	BLIDCB 3.50/05/- SN OR BX	C.50
1751420000	BLIDCB 3.50/06/- SN OR BX	C.50
1751430000	BLIDCB 3.50/07/- SN OR BX	C.50
1751440000	BLIDCB 3.50/08/- SN OR BX	C.50
1751450000	BLIDCB 3.50/02/F SN OR BX	C.51
1751460000	BLIDCB 3.50/03/F SN OR BX	C.51
1751470000	BLIDCB 3.50/04/F SN OR BX	C.51
1751480000	BLIDCB 3.50/05/F SN OR BX	C.51
1751490000	BLIDCB 3.50/06/F SN OR BX	C.51
1751500000	BLIDCB 3.50/07/F SN OR BX	C.51
1751510000	BLIDCB 3.50/08/F SN OR BX	C.51
1752940000	LP 5.08/08/135 3.2 OR	B.27
1752982001	SL-SMT 3.50/02/180G 1.5SN BK BX	C.30
1752984002	SL-SMT 3.50/02/180G 1.5SN BK RL	C.31
1752992001	SL-SMT 3.50/03/180G 1.5SN BK BX	C.30
1752994002	SL-SMT 3.50/03/180G 1.5SN BK RL	C.31
1753002001	SL-SMT 3.50/04/180G 1.5SN BK BX	C.30
1753004002	SL-SMT 3.50/04/180G 1.5SN BK RL	C.31
1753012001	SL-SMT 3.50/05/180G 1.5SN BK BX	C.30
1753014002	SL-SMT 3.50/05/180G 1.5SN BK RL	C.31
1753022001	SL-SMT 3.50/06/180G 1.5SN BK BX	C.30
1753024001	SL-SMT 3.50/06/180G 1.5SN BK RL	C.31
1753032001	SL-SMT 3.50/07/180G 1.5SN BK BX	C.30
1753034001	SL-SMT 3.50/07/180G 1.5SN BK RL	C.31
1753042001	SL-SMT 3.50/08/180G 1.5SN BK BX	C.30
1753044001	SL-SMT 3.50/08/180G 1.5SN BK RL	C.31
1753052001	SL-SMT 3.50/09/180G 1.5SN BK BX	C.30
1753054001	SL-SMT 3.50/09/180G 1.5SN BK RL	C.31
1753062001	SL-SMT 3.50/10/180G 1.5SN BK BX	C.30
1753064001	SL-SMT 3.50/10/180G 1.5SN BK RL	C.31
1753072001	SL-SMT 3.50/11/180G 1.5SN BK BX	C.30
1753074001	SL-SMT 3.50/11/180G 1.5SN BK RL	C.31
1753082001	SL-SMT 3.50/12/180G 1.5SN BK BX	C.30
1753092001	SL-SMT 3.50/13/180G 1.5SN BK BX	C.30
1753102001	SL-SMT 3.50/14/180G 1.5SN BK BX	C.30
1753112001	SL-SMT 3.50/15/180G 1.5SN BK BX	C.30
1753122001	SL-SMT 3.50/16/180G 1.5SN BK BX	C.30
1753132001	SL-SMT 3.50/17/180G 1.5SN BK BX	C.30
1753142001	SL-SMT 3.50/18/180G 1.5SN BK BX	C.30
1753152001	SL-SMT 3.50/19/180G 1.5SN BK BX	C.30
1753162001	SL-SMT 3.50/20/180G 1.5SN BK BX	C.30
1753172001	SL-SMT 3.50/21/180G 1.5SN BK BX	C.30
1753182001	SL-SMT 3.50/22/180G 1.5SN BK BX	C.30
1753192001	SL-SMT 3.50/23/180G 1.5SN BK BX	C.30
1753202001	SL-SMT 3.50/24/180G 1.5SN BK BX	C.30
1753440000	LPHP 7.XX OR	B.24
1753740000	LPZP 2.54/135 OR	D.12
1753750000	LPZP 2.54/135 SW	D.12
1753810000	LP 5.08/02/180 3.2SN OR BX	B.27
1753820000	LP 5.08/03/180 3.2SN OR BX	B.27
1753890000	LP 7.62/02/180 3.2SN OR BX	B.37
1753900000	LP 7.62/03/180 3.2SN OR BX	B.37
1755180000	LPTR 5.08/01/90 3.2SN OR BX	B.33
1758020000	LM2NZF 5.08/20/135 3.5SN OR BX	B.102
1758030000	LM3RZF 5.08/30/135 3.5SN OR BX	B.103
1758040000	LM3RZF 5.08/21/135 3.5SN OR BX	B.103
1758050000	LM3RZF 5.08/48/135 3.5SN OR BX	B.103
1758250000	ZQV 4N/2 GE	I.38
1759360000	LP 5.08/06/135 3.2 OR	B.27

Order No.	Type	Page
1759860000	TOP4GS11/90 7.62 OR	B.52

1760000000

1760490000	PM 5.08/02/90 3.5SN OR BX	B.57
1760500000	PM 5.08/03/90 3.5SN OR BX	B.57
1761330000	LP 5.00/02/180 3.2SN OR BX	B.25
1761340000	LP 5.00/03/180 3.2SN OR BX	B.25
1761370000	LP 7.50/02/180 3.2SN OR BX	B.35
1761380000	LP 7.50/03/180 3.2SN OR BX	B.35
1761542001	SL-SMT 3.50/02/90G 1.5SN BK BX	C.26
1761544002	SL-SMT 3.50/02/90G 1.5SN BK RL	C.27
1761552001	SL-SMT 3.50/03/90G 1.5SN BK BX	C.26
1761554002	SL-SMT 3.50/03/90G 1.5SN BK RL	C.27
1761562001	SL-SMT 3.50/04/90G 1.5SN BK BX	C.26
1761564002	SL-SMT 3.50/04/90G 1.5SN BK RL	C.27
1761572001	SL-SMT 3.50/05/90G 1.5SN BK BX	C.26
1761574002	SL-SMT 3.50/05/90G 1.5SN BK RL	C.27
1761582001	SL-SMT 3.50/06/90G 1.5SN BK BX	C.26
1761584001	SL-SMT 3.50/06/90G 1.5SN BK RL	C.27
1761592001	SL-SMT 3.50/07/90G 1.5SN BK BX	C.26
1761594001	SL-SMT 3.50/07/90G 1.5SN BK RL	C.27
1761602001	SL-SMT 3.50/08/90G 1.5SN BK BX	C.26
1761604001	SL-SMT 3.50/08/90G 1.5SN BK RL	C.27
1761612001	SL-SMT 3.50/09/90G 1.5SN BK BX	C.26
1761614001	SL-SMT 3.50/09/90G 1.5SN BK RL	C.27
1761622001	SL-SMT 3.50/10/90G 1.5SN BK BX	C.26
1761624001	SL-SMT 3.50/10/90G 1.5SN BK RL	C.27
1761632001	SL-SMT 3.50/11/90G 1.5SN BK BX	C.26
1761634001	SL-SMT 3.50/11/90G 1.5SN BK RL	C.27
1761642001	SL-SMT 3.50/12/90G 1.5SN BK BX	C.26
1761652001	SL-SMT 3.50/13/90G 1.5SN BK BX	C.26
1761662001	SL-SMT 3.50/14/90G 1.5SN BK BX	C.26
1761672001	SL-SMT 3.50/15/90G 1.5SN BK BX	C.26
1761682001	SL-SMT 3.50/16/90G 1.5SN BK BX	C.26
1761692001	SL-SMT 3.50/17/90G 1.5SN BK BX	C.26
1761702001	SL-SMT 3.50/18/90G 1.5SN BK BX	C.26
1761712001	SL-SMT 3.50/19/90G 1.5SN BK BX	C.26
1761722001	SL-SMT 3.50/20/90G 1.5SN BK BX	C.26
1761732001	SL-SMT 3.50/21/90G 1.5SN BK BX	C.26
1761742001	SL-SMT 3.50/22/90G 1.5SN BK BX	C.26
1761752001	SL-SMT 3.50/23/90G 1.5SN BK BX	C.26
1761762001	SL-SMT 3.50/24/90G 1.5SN BK BX	C.26
1764810000	LM2NZF 5.08/04/135 3.5SN OR BX	B.102
1764820000	LM2NZF 5.08/06/135 3.5SN OR BX	B.102
1764830000	LM2NZF 5.08/08/135 3.5SN OR BX	B.102
1764840000	LM2NZF 5.08/10/135 3.5SN OR BX	B.102
1764850000	LM2NZF 5.08/12/135 3.5SN OR BX	B.102
1764860000	LM2NZF 5.08/14/135 3.5SN OR BX	B.102
1764870000	LM2NZF 5.08/16/135 3.5SN OR BX	B.102
1764880000	LM2NZF 5.08/18/135 3.5SN OR BX	B.102
1764890000	LM2NZF 5.08/22/135 3.5SN OR BX	B.102
1764900000	LM2NZF 5.08/24/135 3.5SN OR BX	B.102
1764910000	LM3RZF 5.08/06/135 3.5SN OR BX	B.103
1764920000	LM3RZF 5.08/09/135 3.5SN OR BX	B.103
1764930000	LM3RZF 5.08/12/135 3.5SN OR BX	B.103
1764940000	LM3RZF 5.08/15/135 3.5SN OR BX	B.103
1764950000	LM3RZF 5.08/18/135 3.5SN OR BX	B.103
1764960000	LM3RZF 5.08/24/135 3.5SN OR BX	B.103
1764970000	LM3RZF 5.08/27/135 3.5SN OR BX	B.103
1764980000	LM3RZF 5.08/33/135 3.5SN OR BX	B.103
1764990000	LM3RZF 5.08/36/135 3.5SN OR BX	B.103
1766300000	LM1N 5.08/02/90 3.5SN OR BX	B.20
1766310000	LM1N 5.08/03/90 3.5SN OR BX	B.20
1766360000	LM1H 5.08/02/90 3.5SN OR BX	B.21
1766370000	LM1H 5.08/03/90 3.5SN OR BX	B.21
1768850000	LM2N 5.08/04/90 3.5SN OR BX	B.22
1768860000	LM2N 5.08/06/90 3.5SN OR BX	B.22
1768870000	LM2N 5.08/08/90 3.5SN OR BX	B.22
1768880000	LM2N 5.08/10/90 3.5SN OR BX	B.22
1768890000	LM2N 5.08/12/90 3.5SN OR BX	B.22
1768900000	LM2N 5.08/14/90 3.5SN OR BX	B.22
1768910000	LM2N 5.08/16/90 3.5SN OR BX	B.22
1768920000	LM2N 5.08/18/90 3.5SN OR BX	B.22
1768930000	LM2N 5.08/20/90 3.5SN OR BX	B.22
1768940000	LM2N 5.08/22/90 3.5SN OR BX	B.22
1768950000	LM2N 5.08/24/90 3.5SN OR BX	B.22
1768960000	LM2N 5.08/26/90 3.5SN OR BX	B.22
1768970000	LM2N 5.08/28/90 3.5SN OR BX	B.22
1768980000	LM2N 5.08/30/90 3.5SN OR BX	B.22
1768990000	LM2N 5.08/32/90 3.5SN OR BX	B.22
1769000000	LM2N 5.08/34/90 3.5SN OR BX	B.22
1769010000	LM2N 5.08/36/90 3.5SN OR BX	B.22
1769020000	LM2N 5.08/38/90 3.5SN OR BX	B.22
1769030000	LM2N 5.08/40/90 3.5SN OR BX	B.22
1769040000	LM2N 5.08/42/90 3.5SN OR BX	B.22
1769050000	LM2N 5.08/44/90 3.5SN OR BX	B.22
1769060000	LM2N 5.08/46/90 3.5SN OR BX	B.22
1769070000	LM2N 5.08/48/90 3.5SN OR BX	B.22
1769240000	LM2H 5.08/04/90 3.5SN OR BX	B.23
1769250000	LM2H 5.08/06/90 3.5SN OR BX	B.23
1769260000	LM2H 5.08/08/90 3.5SN OR BX	B.23
1769270000	LM2H 5.08/10/90 3.5SN OR BX	B.23
1769280000	LM2H 5.08/12/90 3.5SN OR BX	B.23
1769290000	LM2H 5.08/14/90 3.5SN OR BX	B.23
1769300000	LM2H 5.08/16/90 3.5SN OR BX	B.23
1769310000	LM2H 5.08/18/90 3.5SN OR BX	B.23
1769320000	LM2H 5.08/20/90 3.5SN OR BX	B.23
1769330000	LM2H 5.08/22/90 3.5SN OR BX	B.23

Order No.	Type	Page
1769340000	LM2H 5.08/24/90 3.5SN OR BX	B.23
1769350000	LM2H 5.08/26/90 3.5SN OR BX	B.23
1769360000	LM2H 5.08/28/90 3.5SN OR BX	B.23
1769370000	LM2H 5.08/30/90 3.5SN OR BX	B.23
1769380000	LM2H 5.08/32/90 3.5SN OR BX	B.23
1769390000	LM2H 5.08/34/90 3.5SN OR BX	B.23
1769400000	LM2H 5.08/36/90 3.5SN OR BX	B.23
1769410000	LM2H 5.08/38/90 3.5SN OR BX	B.23
1769420000	LM2H 5.08/40/90 3.5SN OR BX	B.23
1769430000	LM2H 5.08/42/90 3.5SN OR BX	B.23
1769440000	LM2H 5.08/44/90 3.5SN OR BX	B.23
1769450000	LM2H 5.08/46/90 3.5SN OR BX	B.23
1769460000	LM2H 5.08/48/90 3.5SN OR BX	B.23
1769620000	LM3R 5.08/06/90 3.5SN OR BX	B.23
1769630000	LM3R 5.08/09/90 3.5SN OR BX	B.23
1769640000	LM3R 5.08/12/90 3.5SN OR BX	B.23
1769650000	LM3R 5.08/15/90 3.5SN OR BX	B.23
1769660000	LM3R 5.08/18/90 3.5SN OR BX	B.23
1769670000	LM3R 5.08/21/90 3.5SN OR BX	B.23
1769680000	LM3R 5.08/24/90 3.5SN OR BX	B.23
1769690000	LM3R 5.08/27/90 3.5SN OR BX	B.23
1769700000	LM3R 5.08/30/90 3.5SN OR BX	B.23
1769710000	LM3R 5.08/33/90 3.5SN OR BX	B.23
1769720000	LM3R 5.08/36/90 3.5SN OR BX	B.23
1769730000	LM3R 5.08/39/90 3.5SN OR BX	B.23
1769740000	LM3R 5.08/42/90 3.5SN OR BX	B.23
1769750000	LM3R 5.08/45/90 3.5SN OR BX	B.23
1769760000	LM3R 5.08/48/90 3.5SN OR BX	B.23
1769770000	LM3R 5.08/51/90 3.5SN OR BX	B.23
1769780000	LM3R 5.08/54/90 3.5SN OR BX	B.23
1769790000	LM3R 5.08/57/90 3.5SN OR BX	B.23
1769800000	LM3R 5.08/60/90 3.5SN OR BX	B.23
1769810000	LM3R 5.08/63/90 3.5SN OR BX	B.23
1769820000	LM3R 5.08/66/90 3.5SN OR BX	B.23
1769830000	LM3R 5.08/69/90 3.5SN OR BX	B.23
1769840000	LM3R 5.08/72/90 3.5SN OR BX	B.23

1770000000

1770240000	SL AT SW	D.11
1770310000	BLIDCB 3.5 ASB	D.19
1770670000	BLIDCB 3.50/02/- SN BK BX	C.50
1770680000	BLIDCB 3.50/03/- SN BK BX	C.50
1770690000	BLIDCB 3.50/04/- SN BK BX	C.50
1770700000	BLIDCB 3.50/05/- SN BK BX	C.50
1770710000	BLIDCB 3.50/06/- SN BK BX	C.50
1770720000	BLIDCB 3.50/07/- SN BK BX	C.50
1770730000	BLIDCB 3.50/08/- SN BK BX	C.50
1770740000	BLIDCB 3.50/02/-F SN BK BX	C.51
1770750000	BLIDCB 3.50/03/-F SN BK BX	C.51
1770760000	BLIDCB 3.50/04/-F SN BK BX	C.51
1770770000	BLIDCB 3.50/05/-F SN BK BX	C.51
1770780000	BLIDCB 3.50/06/-F SN BK BX	C.51
1770790000	BLIDCB 3.50/07/-F SN BK BX	C.51
1770800000	BLIDCB 3.50/08/-F SN BK BX	C.51
1773400000	RF 180 GR	I.48
1774460000	SLA BB14 SW	D.7
1774762001	SL-SMT 5.08/02/90 1.5SN BK BX	C.168
1774772001	SL-SMT 5.08/03/90 1.5SN BK BX	C.168
1774782001	SL-SMT 5.08/04/90 1.5SN BK BX	C.168
1774784001	SL-SMT 5.08/04/90 1.5 SN BK RL	C.169
1774792001	SL-SMT 5.08/05/90 1.5SN BK BX	C.168
1774794001	SL-SMT 5.08/05/90 1.5 SN BK RL	C.169
1774802001	SL-SMT 5.08/06/90 1.5SN BK BX	C.168
1774804001	SL-SMT 5.08/06/90 1.5 SN BK RL	C.169
1774812001	SL-SMT 5.08/07/90 1.5SN BK BX	C.168
1774814001	SL-SMT 5.08/07/90 1.5 SN BK RL	C.169
1774822001	SL-SMT 5.08/08/90 1.5SN BK BX	C.168
1774824001	SL-SMT 5.08/08/90 1.5 SN BK RL	C.169
1774832001	SL-SMT 5.08/09/90 1.5SN BK BX	C.168
1774842001	SL-SMT 5.08/10/90 1.5SN BK BX	C.168
1774852001	SL-SMT 5.08/11/90 1.5SN BK BX	C.168
1774862001	SL-SMT 5.08/12/90 1.5SN BK BX	C.168
1774872001	SL-SMT 5.08/13/90 1.5SN BK BX	C.168
1774882001	SL-SMT 5.08/14/90 1.5SN BK BX	C.168
1774892001	SL-SMT 5.08/15/90 1.5SN BK BX	C.168
1774902001	SL-SMT 5.08/16/90 1.5SN BK BX	C.168
1774912001	SL-SMT 5.08/17/90 1.5SN BK BX	C.168
1774922001	SL-SMT 5.08/18/90 1.5SN BK BX	C.168
1774932001	SL-SMT 5.08/19/90 1.5SN BK BX	C.168
1774942001	SL-SMT 5.08/20/90 1.5SN BK BX	C.168
1774952001	SL-SMT 5.08/21/90 1.5SN BK BX	C.168
1774962001	SL-SMT 5.08/22/90 1.5SN BK BX	C.168
1774972001	SL-SMT 5.08/23/90 1.5SN BK BX	C.168
1774982001	SL-SMT 5.08/24/90 1.5SN BK BX	C.168
1775002001	SL-SMT 5.08/02/90G 1.5SN BK BX	C.169
1775012001	SL-SMT 5.08/03/90G 1.5SN BK BX	C.169
1775014001	SL-SMT 5.08/03/90G 1.5 SN BK RL	C.169
1775022001	SL-SMT 5.08/04/90G 1.5SN BK BX	C.169
1775024001	SL-SMT 5.08/04/90G 1.5 SN BK RL	C.169
1775032001	SL-SMT 5.08/05/90G 1.5SN BK BX	C.169
1775034001	SL-SMT 5.08/05/90G 1.5 SN BK RL	C.169
1775042001	SL-SMT 5.08/06/90G 1.5SN BK BX	C.169
1775044001	SL-SMT 5.08/06/90G 1.5 SN BK RL	C.169
1775052001	SL-SMT 5.08/07/90G 1.5SN BK BX	C.169
1775054001	SL-SMT 5.08/07/90G 1.5 SN BK RL	C.169
1775062001	SL-SMT 5.08/08/90G 1.5SN BK BX	C.169
1775072001	SL-SMT 5.08/09/90G 1.5SN BK BX	C.169
1775082001	SL-SMT 5.08/10/90G 1.5SN BK BX	C.169

Order No.	Type	Page
1775092001	SL-SMT 5.08/11/90G 1.5SN BK BX	C.169
1775102001	SL-SMT 5.08/12/90G 1.5SN BK BX	C.169
1775112001	SL-SMT 5.08/13/90G 1.5SN BK BX	C.169
1775122001	SL-SMT 5.08/14/90G 1.5SN BK BX	C.169
1775132001	SL-SMT 5.08/15/90G 1.5SN BK BX	C.169
1775142001	SL-SMT 5.08/16/90G 1.5SN BK BX	C.169
1775152001	SL-SMT 5.08/17/90G 1.5SN BK BX	C.169
1775162001	SL-SMT 5.08/18/90G 1.5SN BK BX	C.169
1775172001	SL-SMT 5.08/19/90G 1.5SN BK BX	C.169
1775182001	SL-SMT 5.08/20/90G 1.5SN BK BX	C.169
1775192001	SL-SMT 5.08/21/90G 1.5SN BK BX	C.169
1775202001	SL-SMT 5.08/22/90G 1.5SN BK BX	C.169
1775212001	SL-SMT 5.08/23/90G 1.5SN BK BX	C.169
1775222001	SL-SMT 5.08/24/90G 1.5SN BK BX	C.169
1775232001	SL-SMT 5.08/02/90LF 1.5SN BK BX	C.172
1775234001	SL-SMT 5.08/02/90LF 1.5 SN BK RL	C.173
1775242001	SL-SMT 5.08/03/90LF 1.5SN BK BX	C.172
1775244001	SL-SMT 5.08/03/90LF 1.5 SN BK RL	C.173
1775252001	SL-SMT 5.08/04/90LF 1.5SN BK BX	C.172
1775254001	SL-SMT 5.08/04/90LF 1.5 SN BK RL	C.173
1775262001	SL-SMT 5.08/05/90LF 1.5SN BK BX	C.172
1775264001	SL-SMT 5.08/05/90LF 1.5 SN BK RL	C.173
1775272001	SL-SMT 5.08/06/90LF 1.5SN BK BX	C.172
1775274001	SL-SMT 5.08/06/90LF 1.5 SN BK RL	C.173
1775282001	SL-SMT 5.08/07/90LF 1.5SN BK BX	C.172
1775292001	SL-SMT 5.08/08/90LF 1.5SN BK BX	C.172
1775302001	SL-SMT 5.08/09/90LF 1.5SN BK BX	C.172
1775312001	SL-SMT 5.08/10/90LF 1.5SN BK BX	C.172
1775322001	SL-SMT 5.08/11/90LF 1.5SN BK BX	C.172
1775332001	SL-SMT 5.08/12/90LF 1.5SN BK BX	C.172
1775342001	SL-SMT 5.08/13/90LF 1.5SN BK BX	C.172
1775352001	SL-SMT 5.08/14/90LF 1.5SN BK BX	C.172
1775362001	SL-SMT 5.08/15/90LF 1.5SN BK BX	C.172
1775372001	SL-SMT 5.08/16/90LF 1.5SN BK BX	C.172
1775382001	SL-SMT 5.08/17/90LF 1.5SN BK BX	C.172
1775392001	SL-SMT 5.08/18/90LF 1.5SN BK BX	C.172
1775402001	SL-SMT 5.08/19/90LF 1.5SN BK BX	C.172
1775412001	SL-SMT 5.08/20/90LF 1.5SN BK BX	C.172
1775422001	SL-SMT 5.08/21/90LF 1.5SN BK BX	C.172
1775432001	SL-SMT 5.08/22/90LF 1.5SN BK BX	C.172
1775442001	SL-SMT 5.08/23/90LF 1.5SN BK BX	C.172
1775452001	SL-SMT 5.08/24/90LF 1.5SN BK BX	C.172
1775522001	SL-SMT 5.08/02/180 1.5SN BK BX	C.174
1775572001	SL-SMT 5.08/03/180 1.5SN BK BX	C.174
1775592001	SL-SMT 5.08/04/180 1.5SN BK BX	C.174
1775594001	SL-SMT 5.08/04/180 1.5 SN BK RL	C.175
1775632001	SL-SMT 5.08/05/180 1.5SN BK BX	C.174
1775634001	SL-SMT 5.08/05/180 1.5 SN BK RL	C.175
1775642001	SL-SMT 5.08/06/180 1.5SN BK BX	C.174
1775644001	SL-SMT 5.08/06/180 1.5 SN BK RL	C.175
1775652001	SL-SMT 5.08/07/180 1.5SN BK BX	C.174
1775654001	SL-SMT 5.08/07/180 1.5 SN BK RL	C.175
1775662001	SL-SMT 5.08/08/180 1.5SN BK BX	C.174
1775664001	SL-SMT 5.08/08/180 1.5 SN BK RL	C.175
1775672001	SL-SMT 5.08/09/180 1.5SN BK BX	C.174
1775682001	SL-SMT 5.08/10/180 1.5SN BK BX	C.174
1775692001	SL-SMT 5.08/11/180 1.5SN BK BX	C.174
1775702001	SL-SMT 5.08/12/180 1.5SN BK BX	C.174
1775712001	SL-SMT 5.08/13/180 1.5SN BK BX	C.174
1775722001	SL-SMT 5.08/14/180 1.5SN BK BX	C.174
1775732001	SL-SMT 5.08/15/180 1.5SN BK BX	C.174
1775742001	SL-SMT 5.08/16/180 1.5SN BK BX	C.174
1775752001	SL-SMT 5.08/17/180 1.5SN BK BX	C.174
1775762001	SL-SMT 5.08/18/180 1.5SN BK BX	C.174
1775772001	SL-SMT 5.08/19/180 1.5SN BK BX	C.174
1775782001	SL-SMT 5.08/20/180 1.5SN BK BX	C.174
1775792001	SL-SMT 5.08/21/180 1.5SN BK BX	C.174
1775802001	SL-SMT 5.08/22/180 1.5SN BK BX	C.174
1775812001	SL-SMT 5.08/23/180 1.5SN BK BX	C.174
1775822001	SL-SMT 5.08/24/180 1.5SN BK BX	C.174
1775922001	SL-SMT 5.08/02/180G 1.5SN BK BX	C.175
1775932001	SL-SMT 5.08/03/180G 1.5SN BK BX	C.175
1775934001	SL-SMT 5.08/03/180G 1.5 SN BK RL	C.175
1775942001	SL-SMT 5.08/04/180G 1.5SN BK BX	C.175
1775944001	SL-SMT 5.08/04/180G 1.5 SN BK RL	C.175
1775952001	SL-SMT 5.08/05/180G 1.5SN BK BX	C.175
1775954001	SL-SMT 5.08/05/180G 1.5 SN BK RL	C.175
1775962001	SL-SMT 5.08/06/180G 1.5SN BK BX	C.175
1775964001	SL-SMT 5.08/06/180G 1.5 SN BK RL	C.175
1775972001	SL-SMT 5.08/07/180G 1.5SN BK BX	C.175
1775974001	SL-SMT 5.08/07/180G 1.5 SN BK RL	C.175
1775982001	SL-SMT 5.08/08/180G 1.5SN BK BX	C.175
1775992001	SL-SMT 5.08/09/180G 1.5SN BK BX	C.175
1776002001	SL-SMT 5.08/10/180G 1.5SN BK BX	C.175
1776012001	SL-SMT 5.08/11/180G 1.5SN BK BX	C.175
1776022001	SL-SMT 5.08/12/180G 1.5SN BK BX	C.175
1776242001	SL-SMT 5.08/13/180G 1.5SN BK BX	C.175
1776252001	SL-SMT 5.08/14/180G 1.5SN BK BX	C.175
1776262001	SL-SMT 5.08/15/180G 1.5SN BK BX	C.175
1776272001	SL-SMT 5.08/16/180G 1.5SN BK BX	C.175
1776282001	SL-SMT 5.08/17/180G 1.5SN BK BX	C.175
1776292001	SL-SMT 5.08/18/180G 1.5SN BK BX	C.175
1776302001	SL-SMT 5.08/19/180G 1.5SN BK BX	C.175
1776312001	SL-SMT 5.08/20/180G 1.5SN BK BX	C.175
1776322001	SL-SMT 5.08/21/180G 1.5SN BK BX	C.175
1776332001	SL-SMT 5.08/22/180G 1.5SN BK BX	C.175
1776342001	SL-SMT 5.08/23/180G 1.5SN BK BX	C.175
1776352001	SL-SMT 5.08/24/180G 1.5SN BK BX	C.175
1776362001	SL-SMT 5.08/02/180LF 1.5SN BK BX	C.178

Order No.	Type	Page
1776364001	SL-SMT 5.08/02/180LF 1.5 SN BK RL	C.179
1776372001	SL-SMT 5.08/03/180LF 1.5SN BK BX	C.178
1776374001	SL-SMT 5.08/03/180LF 1.5 SN BK RL	C.179
1776382001	SL-SMT 5.08/04/180LF 1.5SN BK BX	C.178
1776384001	SL-SMT 5.08/04/180LF 1.5 SN BK RL	C.179
1776392001	SL-SMT 5.08/05/180LF 1.5SN BK BX	C.178
1776394001	SL-SMT 5.08/05/180LF 1.5 SN BK RL	C.179
1776402001	SL-SMT 5.08/06/180LF 1.5SN BK BX	C.178
1776404001	SL-SMT 5.08/06/180LF 1.5 SN BK RL	C.179
1776412001	SL-SMT 5.08/07/180LF 1.5SN BK BX	C.178
1776422001	SL-SMT 5.08/08/180LF 1.5SN BK BX	C.178
1776432001	SL-SMT 5.08/09/180LF 1.5SN BK BX	C.178
1776442001	SL-SMT 5.08/10/180LF 1.5SN BK BX	C.178
1776452001	SL-SMT 5.08/11/180LF 1.5SN BK BX	C.178
1776462001	SL-SMT 5.08/12/180LF 1.5SN BK BX	C.178
1776472001	SL-SMT 5.08/13/180LF 1.5SN BK BX	C.178
1776482001	SL-SMT 5.08/14/180LF 1.5SN BK BX	C.178
1776492001	SL-SMT 5.08/15/180LF 1.5SN BK BX	C.178
1776502001	SL-SMT 5.08/16/180LF 1.5SN BK BX	C.178
1776512001	SL-SMT 5.08/17/180LF 1.5SN BK BX	C.178
1776522001	SL-SMT 5.08/18/180LF 1.5SN BK BX	C.178
1776532001	SL-SMT 5.08/19/180LF 1.5SN BK BX	C.178
1776542001	SL-SMT 5.08/20/180LF 1.5SN BK BX	C.178
1776552001	SL-SMT 5.08/21/180LF 1.5SN BK BX	C.178
1776572001	SL-SMT 5.08/22/180LF 1.5SN BK BX	C.178
1776582001	SL-SMT 5.08/23/180LF 1.5SN BK BX	C.178
1776592001	SL-SMT 5.08/24/180LF 1.5SN BK BX	C.178
1779880000	BL-I/O 3.50/10F SN BK BX	C.52
1779920000	BL-I/O 3.50/30F SN BK BX	C.53
1779950000	SL-SMT 5.08/02/90 3.2SN BK BX	C.168
1779960000	SL-SMT 5.08/03/90 3.2SN BK BX	C.168
1779970000	SL-SMT 5.08/04/90 3.2SN BK BX	C.168
1779980000	SL-SMT 5.08/05/90 3.2SN BK BX	C.168
1779990000	SL-SMT 5.08/06/90 3.2SN BK BX	C.168

1780000000

1780000000	SL-SMT 5.08/07/90 3.2SN BK BX	C.168
1780010000	SL-SMT 5.08/08/90 3.2SN BK BX	C.168
1780020000	SL-SMT 5.08/09/90 3.2SN BK BX	C.168
1780030000	SL-SMT 5.08/10/90 3.2SN BK BX	C.168
1780040000	SL-SMT 5.08/11/90 3.2SN BK BX	C.168
1780050000	SL-SMT 5.08/12/90 3.2SN BK BX	C.168
1780060000	SL-SMT 5.08/13/90 3.2SN BK BX	C.168
1780070000	SL-SMT 5.08/14/90 3.2SN BK BX	C.168
1780080000	SL-SMT 5.08/15/90 3.2SN BK BX	C.168
1780090000	SL-SMT 5.08/16/90 3.2SN BK BX	C.168
1780100000	SL-SMT 5.08/17/90 3.2SN BK BX	C.168
1780110000	SL-SMT 5.08/18/90 3.2SN BK BX	C.168
1780120000	SL-SMT 5.08/19/90 3.2SN BK BX	C.168
1780130000	SL-SMT 5.08/20/90 3.2SN BK BX	C.168
1780140000	SL-SMT 5.08/21/90 3.2SN BK BX	C.168
1780150000	SL-SMT 5.08/22/90 3.2SN BK BX	C.168
1780160000	SL-SMT 5.08/23/90 3.2SN BK BX	C.168
1780170000	SL-SMT 5.08/24/90 3.2SN BK BX	C.168
1780180000	SL-SMT 5.08/02/90G 3.2SN BK BX	C.169
1780190000	SL-SMT 5.08/03/90G 3.2SN BK BX	C.169
1780200000	SL-SMT 5.08/04/90G 3.2SN BK BX	C.169
1780210000	SL-SMT 5.08/05/90G 3.2SN BK BX	C.169
1780220000	SL-SMT 5.08/06/90G 3.2SN BK BX	C.169
1780230000	SL-SMT 5.08/07/90G 3.2SN BK BX	C.169
1780240000	SL-SMT 5.08/08/90G 3.2SN BK BX	C.169
1780250000	SL-SMT 5.08/09/90G 3.2SN BK BX	C.169
1780260000	SL-SMT 5.08/10/90G 3.2SN BK BX	C.169
1780270000	SL-SMT 5.08/11/90G 3.2SN BK BX	C.169
1780280000	SL-SMT 5.08/12/90G 3.2SN BK BX	C.169
1780290000	SL-SMT 5.08/13/90G 3.2SN BK BX	C.169
1780300000	SL-SMT 5.08/14/90G 3.2SN BK BX	C.169
1780310000	SL-SMT 5.08/15/90G 3.2SN BK BX	C.169
1780320000	SL-SMT 5.08/16/90G 3.2SN BK BX	C.169
1780330000	SL-SMT 5.08/17/90G 3.2SN BK BX	C.169
1780340000	SL-SMT 5.08/18/90G 3.2SN BK BX	C.169
1780350000	SL-SMT 5.08/19/90G 3.2SN BK BX	C.169
1780360000	SL-SMT 5.08/20/90G 3.2SN BK BX	C.169
1780370000	SL-SMT 5.08/21/90G 3.2SN BK BX	C.169
1780380000	SL-SMT 5.08/22/90G 3.2SN BK BX	C.169
1780390000	SL-SMT 5.08/23/90G 3.2SN BK BX	C.169
1780400000	SL-SMT 5.08/24/90G 3.2SN BK BX	C.169
1780410000	SL-SMT 5.08/02/90LF 3.2SN BK BX	C.172
1780420000	SL-SMT 5.08/03/90LF 3.2SN BK BX	C.172
1780430000	SL-SMT 5.08/04/90LF 3.2SN BK BX	C.172
1780440000	SL-SMT 5.08/05/90LF 3.2SN BK BX	C.172
1780450000	SL-SMT 5.08/06/90LF 3.2SN BK BX	C.172
1780460000	SL-SMT 5.08/07/90LF 3.2SN BK BX	C.172
1780470000	SL-SMT 5.08/08/90LF 3.2SN BK BX	C.172
1780480000	SL-SMT 5.08/09/90LF 3.2SN BK BX	C.172
1780490000	SL-SMT 5.08/10/90LF 3.2SN BK BX	C.172
1780500000	SL-SMT 5.08/11/90LF 3.2SN BK BX	C.172
1780510000	SL-SMT 5.08/12/90LF 3.2SN BK BX	C.172
1780540000	SL-SMT 5.08/13/90LF 3.2SN BK BX	C.172
1780550000	SL-SMT 5.08/14/90LF 3.2SN BK BX	C.172
1780560000	SL-SMT 5.08/15/90LF 3.2SN BK BX	C.172
1780570000	SL-SMT 5.08/16/90LF 3.2SN BK BX	C.172
1780580000	SL-SMT 5.08/17/90LF 3.2SN BK BX	C.172
1780590000	SL-SMT 5.08/18/90LF 3.2SN BK BX	C.172
1780600000	SL-SMT 5.08/19/90LF 3.2SN BK BX	C.172
1780610000	SL-SMT 5.08/20/90LF 3.2SN BK BX	C.172
1780620000	SL-SMT 5.08/21/90LF 3.2SN BK BX	C.172
1780630000	SL-SMT 5.08/22/90LF 3.2SN BK BX	C.172

Order No.	Type	Page
1780640000	SL-SMT 5.08/23/90LF 3.2SN BK BX	C.172
1780650000	SL-SMT 5.08/24/90LF 3.2SN BK BX	C.172
1781560000	B2L 3.50-AH 6 SW	D.4
1781570000	B2L 3.50-AH 8 SW	D.4
1781580000	B2L 3.50-AH 10 SW	D.4
1781590000	B2L 3.50-AH 12 SW	D.4
1781600000	B2L 3.50-AH 14 SW	D.4
1781610000	B2L 3.50-AH 16 SW	D.4
1781620000	B2L 3.50-AH 18 SW	D.4
1781630000	B2L 3.50-AH 20 SW	D.4
1781640000	B2L 3.50-AH 22 SW	D.4
1781650000	B2L 3.50-AH 24 SW	D.4
1781660000	B2L 3.50-AH 26 SW	D.4
1781670000	B2L 3.50-AH 28 SW	D.4
1781680000	B2L 3.50-AH 30 SW	D.4
1781690000	B2L 3.50-AH 32 SW	D.4
1781700000	B2L 3.50-AH 34 SW	D.4
1781710000	B2L 3.50-AH 36 SW	D.4
1782490000	TOP1.5GS15/180 5 2ST OR	B.47
1782500000	LM2NZF 5.08/26/135 3.5SN OR BX	B.102
1782510000	LM2NZF 5.08/28/135 3.5SN OR BX	B.102
1782520000	LM2NZF 5.08/30/135 3.5SN OR BX	B.102
1782530000	LM2NZF 5.08/32/135 3.5SN OR BX	B.102
1782540000	LM2NZF 5.08/34/135 3.5SN OR BX	B.102
1782550000	LM2NZF 5.08/36/135 3.5SN OR BX	B.102
1786030000	TOP4GS4/90 6.35 OR	B.50
1786040000	TOP4GS5/90 6.35 OR	B.50
1786050000	TOP4GS6/90 6.35 OR	B.50
1786060000	TOP4GS7/90 6.35 OR	B.50
1786070000	TOP4GS9/90 6.35 OR	B.50
1786080000	TOP4GS10/90 6.35 OR	B.50
1786090000	TOP4GS11/90 6.35 OR	B.50
1786100000	TOP4GS12/90 6.35 OR	B.50
1786190000	TOP4GS2/180 6.35 OR	B.51
1786200000	TOP4GS3/180 6.35 OR	B.51
1786210000	TOP4GS4/180 6.35 OR	B.51
1786220000	TOP4GS5/180 6.35 OR	B.51
1786230000	TOP4GS6/180 6.35 OR	B.51
1786240000	TOP4GS7/180 6.35 OR	B.51
1786250000	TOP4GS8/180 6.35 OR	B.51
1786260000	TOP4GS9/180 6.35 OR	B.51
1786270000	TOP4GS10/180 6.35 OR	B.51
1786280000	TOP4GS11/180 6.35 OR	B.51
1786290000	TOP4GS12/180 6.35 OR	B.51
1786410000	TOP4GS6/90 7.62 OR	B.52
1786420000	TOP4GS8/90 7.62 OR	B.52
1786430000	TOP4GS9/90 7.62 OR	B.52
1786440000	TOP4GS10/90 7.62 OR	B.52
1786450000	TOP4GS12/90 7.62 OR	B.52
1786540000	TOP4GS5/180 7.62 OR	B.53
1786550000	TOP4GS7/180 7.62 OR	B.53
1786560000	TOP4GS8/180 7.62 OR	B.53
1786570000	TOP4GS10/180 7.62 OR	B.53
1786580000	TOP4GS11/180 7.62 OR	B.53
1789090000	BL-I/O 3.50/10F PNP LED SN BK BX	C.54
1789110000	BL-I/O 3.50/30F PNP LED SN BK BX	C.55

1790000000

1791610000	PM 5.00/02/90 3.5SN OR BX	B.56
1791620000	PM 5.00/03/90 3.5SN OR BX	B.56
1791710000	LP5.00/4/135 3.2 OR	B.25
1792770000	BCZ 3.81/02/180 SN BK BX	C.106
1792780000	BCZ 3.81/03/180 SN BK BX	C.106
1792790000	BCZ 3.81/04/180 SN BK BX	C.106
1792800000	BCZ 3.81/05/180 SN BK BX	C.106
1792810000	BCZ 3.81/06/180 SN BK BX	C.106
1792820000	BCZ 3.81/08/180 SN BK BX	C.106
1792830000	BCZ 3.81/10/180 SN BK BX	C.106
1792840000	BCZ 3.81/12/180 SN BK BX	C.106
1792850000	BCZ 3.81/16/180 SN BK BX	C.106
1792950000	BCZ 3.81/02/180F SN BK BX	C.107
1792960000	BCZ 3.81/03/180F SN BK BX	C.107
1792970000	BCZ 3.81/04/180F SN BK BX	C.107
1792980000	BCZ 3.81/05/180F SN BK BX	C.107
1792990000	BCZ 3.81/06/180F SN BK BX	C.107
1793000000	BCZ 3.81/08/180F SN BK BX	C.107
1793010000	BCZ 3.81/10/180F SN BK BX	C.107
1793020000	BCZ 3.81/12/180F SN BK BX	C.107
1793030000	BCZ 3.81/16/180F SN BK BX	C.107
1793130000	SC 3.81/02/90G 3.2SN BK BX	C.84
1793140000	SC 3.81/03/90G 3.2SN BK BX	C.84
1793150000	SC 3.81/04/90G 3.2SN BK BX	C.84
1793160000	SC 3.81/05/90G 3.2SN BK BX	C.84
1793170000	SC 3.81/06/90G 3.2SN BK BX	C.84
1793180000	SC 3.81/08/90G 3.2SN BK BX	C.84
1793190000	SC 3.81/10/90G 3.2SN BK BX	C.84
1793200000	SC 3.81/12/90G 3.2SN BK BX	C.84
1793210000	SC 3.81/16/90G 3.2SN BK BX	C.84
1793330000	SC 3.81/02/90F 3.2SN BK BX	C.85
1793340000	SC 3.81/03/90F 3.2SN BK BX	C.85
1793350000	SC 3.81/04/90F 3.2SN BK BX	C.85
1793360000	SC 3.81/05/90F 3.2SN BK BX	C.85
1793370000	SC 3.81/06/90F 3.2SN BK BX	C.85
1793380000	SC 3.81/08/90F 3.2SN BK BX	C.85
1793390000	SC 3.81/10/90F 3.2SN BK BX	C.85
1793400000	SC 3.81/12/90F 3.2SN BK BX	C.85
1793410000	SC 3.81/16/90F 3.2SN BK BX	C.85
1793520000	SC 3.81/02/180G 3.2SN BK BX	C.86

Order No.	Type	Page
1793530000	SC 3.81/03/180G 3.2SN BK BX	C.86
1793540000	SC 3.81/04/180G 3.2SN BK BX	C.86
1793550000	SC 3.81/05/180G 3.2SN BK BX	C.86
1793560000	SC 3.81/06/180G 3.2SN BK BX	C.86
1793570000	SC 3.81/08/180G 3.2SN BK BX	C.86
1793580000	SC 3.81/10/180G 3.2SN BK BX	C.86
1793590000	SC 3.81/12/180G 3.2SN BK BX	C.86
1793600000	SC 3.81/16/180G 3.2SN BK BX	C.86
1793700000	SC 3.81/02/180F 3.2SN BK BX	C.87
1793710000	SC 3.81/03/180F 3.2SN BK BX	C.87
1793720000	SC 3.81/04/180F 3.2SN BK BX	C.87
1793730000	SC 3.81/05/180F 3.2SN BK BX	C.87
1793740000	SC 3.81/06/180F 3.2SN BK BX	C.87
1793750000	SC 3.81/08/180F 3.2SN BK BX	C.87
1793760000	SC 3.81/10/180F 3.2SN BK BX	C.87
1793770000	SC 3.81/12/180F 3.2SN BK BX	C.87
1793780000	SC 3.81/16/180F 3.2SN BK BX	C.87
1793950000	ZQV 4N/2 RT	I.38
1793960000	ZQV 4N/2 BL	I.38
1796480000	SL-SMT 5.00/02/180 1.5SN BK BX	C.138
1796490000	SL-SMT 5.00/03/180 1.5SN BK BX	C.138
1796500000	SL-SMT 5.00/04/180 1.5SN BK BX	C.138
1796510000	SL-SMT 5.00/05/180 1.5SN BK BX	C.138
1796520000	SL-SMT 5.00/06/180 1.5SN BK BX	C.138
1796530000	SL-SMT 5.00/07/180 1.5SN BK BX	C.138
1796540000	SL-SMT 5.00/08/180 1.5SN BK BX	C.138
1796550000	SL-SMT 5.00/09/180 1.5SN BK BX	C.138
1796560000	SL-SMT 5.00/10/180 1.5SN BK BX	C.138
1796570000	SL-SMT 5.00/11/180 1.5SN BK BX	C.138
1796580000	SL-SMT 5.00/12/180 1.5SN BK BX	C.138
1796590000	SL-SMT 5.00/13/180 1.5SN BK BX	C.138
1796600000	SL-SMT 5.00/14/180 1.5SN BK BX	C.138
1796610000	SL-SMT 5.00/15/180 1.5SN BK BX	C.138
1796620000	SL-SMT 5.00/16/180 1.5SN BK BX	C.138
1796630000	SL-SMT 5.00/02/180G 1.5SN BK BX	C.139
1796640000	SL-SMT 5.00/03/180G 1.5SN BK BX	C.139
1796650000	SL-SMT 5.00/04/180G 1.5SN BK BX	C.139
1796660000	SL-SMT 5.00/05/180G 1.5SN BK BX	C.139
1796670000	SL-SMT 5.00/06/180G 1.5SN BK BX	C.139
1796680000	SL-SMT 5.00/07/180G 1.5SN BK BX	C.139
1796690000	SL-SMT 5.00/08/180G 1.5SN BK BX	C.139
1796700000	SL-SMT 5.00/09/180G 1.5SN BK BX	C.139
1796710000	SL-SMT 5.00/10/180G 1.5SN BK BX	C.139
1796720000	SL-SMT 5.00/11/180G 1.5SN BK BX	C.139
1796730000	SL-SMT 5.00/12/180G 1.5SN BK BX	C.139
1796740000	SL-SMT 5.00/13/180G 1.5SN BK BX	C.139
1796750000	SL-SMT 5.00/14/180G 1.5SN BK BX	C.139
1796760000	SL-SMT 5.00/15/180G 1.5SN BK BX	C.139
1796770000	SL-SMT 5.00/16/180G 1.5SN BK BX	C.139
1796780000	SL-SMT 5.00/02/180LF 1.5SN BK BX	C.140
1796790000	SL-SMT 5.00/03/180LF 1.5SN BK BX	C.140
1796800000	SL-SMT 5.00/04/180LF 1.5SN BK BX	C.140
1796810000	SL-SMT 5.00/05/180LF 1.5SN BK BX	C.140
1796820000	SL-SMT 5.00/06/180LF 1.5SN BK BX	C.140
1796830000	SL-SMT 5.00/07/180LF 1.5SN BK BX	C.140
1796840000	SL-SMT 5.00/08/180LF 1.5SN BK BX	C.140
1796850000	SL-SMT 5.00/09/180LF 1.5SN BK BX	C.140
1796860000	SL-SMT 5.00/10/180LF 1.5SN BK BX	C.140
1796870000	SL-SMT 5.00/11/180LF 1.5SN BK BX	C.140
1796880000	SL-SMT 5.00/12/180LF 1.5SN BK BX	C.140
1796890000	SL-SMT 5.00/13/180LF 1.5SN BK BX	C.140
1796900000	SL-SMT 5.00/14/180LF 1.5SN BK BX	C.140
1796910000	SL-SMT 5.00/15/180LF 1.5SN BK BX	C.140
1796920000	SL-SMT 5.00/16/180LF 1.5SN BK BX	C.140
1796930000	SL-SMT 5.00/02/90 1.5SN BK BX	C.134
1796940000	SL-SMT 5.00/03/90 1.5SN BK BX	C.134
1796950000	SL-SMT 5.00/04/90 1.5SN BK BX	C.134
1796960000	SL-SMT 5.00/05/90 1.5SN BK BX	C.134
1796970000	SL-SMT 5.00/06/90 1.5SN BK BX	C.134
1796980000	SL-SMT 5.00/07/90 1.5SN BK BX	C.134
1796990000	SL-SMT 5.00/08/90 1.5SN BK BX	C.134
1797000000	SL-SMT 5.00/09/90 1.5SN BK BX	C.134
1797010000	SL-SMT 5.00/10/90 1.5SN BK BX	C.134
1797020000	SL-SMT 5.00/11/90 1.5SN BK BX	C.134
1797030000	SL-SMT 5.00/12/90 1.5SN BK BX	C.134
1797040000	SL-SMT 5.00/13/90 1.5SN BK BX	C.134
1797050000	SL-SMT 5.00/14/90 1.5SN BK BX	C.134
1797060000	SL-SMT 5.00/15/90 1.5SN BK BX	C.134
1797070000	SL-SMT 5.00/16/90 1.5SN BK BX	C.134
1797080000	SL-SMT 5.00/02/90G 1.5SN BK BX	C.135
1797090000	SL-SMT 5.00/03/90G 1.5SN BK BX	C.135
1797100000	SL-SMT 5.00/04/90G 1.5SN BK BX	C.135
1797110000	SL-SMT 5.00/05/90G 1.5SN BK BX	C.135
1797120000	SL-SMT 5.00/06/90G 1.5SN BK BX	C.135
1797130000	SL-SMT 5.00/07/90G 1.5SN BK BX	C.135
1797140000	SL-SMT 5.00/08/90G 1.5SN BK BX	C.135
1797150000	SL-SMT 5.00/09/90G 1.5SN BK BX	C.135
1797160000	SL-SMT 5.00/10/90G 1.5SN BK BX	C.135
1797170000	SL-SMT 5.00/11/90G 1.5SN BK BX	C.135
1797180000	SL-SMT 5.00/12/90G 1.5SN BK BX	C.135
1797190000	SL-SMT 5.00/13/90G 1.5SN BK BX	C.135
1797200000	SL-SMT 5.00/14/90G 1.5SN BK BX	C.135
1797210000	SL-SMT 5.00/15/90G 1.5SN BK BX	C.135
1797220000	SL-SMT 5.00/16/90G 1.5SN BK BX	C.135
1797230000	SL-SMT 5.00/02/90LF 1.5SN BK BX	C.136
1797240000	SL-SMT 5.00/03/90LF 1.5SN BK BX	C.136
1797250000	SL-SMT 5.00/04/90LF 1.5SN BK BX	C.136
1797260000	SL-SMT 5.00/05/90LF 1.5SN BK BX	C.136
1797270000	SL-SMT 5.00/06/90LF 1.5SN BK BX	C.136

Order No.	Type	Page
1797280000	SL-SMT 5.00/07/90LF 1.5SN BK BX	C.136
1797290000	SL-SMT 5.00/08/90LF 1.5SN BK BX	C.136
1797300000	SL-SMT 5.00/09/90LF 1.5SN BK BX	C.136
1797310000	SL-SMT 5.00/10/90LF 1.5SN BK BX	C.136
1797320000	SL-SMT 5.00/11/90LF 1.5SN BK BX	C.136
1797330000	SL-SMT 5.00/12/90LF 1.5SN BK BX	C.136
1797340000	SL-SMT 5.00/13/90LF 1.5SN BK BX	C.136
1797350000	SL-SMT 5.00/14/90LF 1.5SN BK BX	C.136
1797360000	SL-SMT 5.00/15/90LF 1.5SN BK BX	C.136
1797370000	SL-SMT 5.00/16/90LF 1.5SN BK BX	C.136
1797620000	SL-SMT 5.00/02/90 1.5SN BK RL	C.135
1797630000	SL-SMT 5.00/03/90 1.5SN BK RL	C.135
1797640000	SL-SMT 5.00/04/90 1.5SN BK RL	C.135
1797650000	SL-SMT 5.00/05/90 1.5SN BK RL	C.135
1797660000	SL-SMT 5.00/06/90 1.5SN BK RL	C.135
1797670000	SL-SMT 5.00/07/90 1.5SN BK RL	C.135
1797680000	SL-SMT 5.00/08/90 1.5SN BK RL	C.135
1797690000	SL-SMT 5.00/02/90G 1.5SN BK RL	C.135
1797700000	SL-SMT 5.00/03/90G 1.5SN BK RL	C.135
1797710000	SL-SMT 5.00/04/90G 1.5SN BK RL	C.135
1797720000	SL-SMT 5.00/05/90G 1.5SN BK RL	C.135
1797730000	SL-SMT 5.00/06/90G 1.5SN BK RL	C.135
1797740000	SL-SMT 5.00/07/90G 1.5SN BK RL	C.135
1797750000	SL-SMT 5.00/02/90LF 1.5SN BK RL	C.137
1797760000	SL-SMT 5.00/03/90LF 1.5SN BK RL	C.137
1797770000	SL-SMT 5.00/04/90LF 1.5SN BK RL	C.137
1797780000	SL-SMT 5.00/05/90LF 1.5SN BK RL	C.137
1797790000	SL-SMT 5.00/06/90LF 1.5SN BK RL	C.137
1797800000	SL-SMT 5.00/02/180 1.5SN BK RL	C.139
1797810000	SL-SMT 5.00/03/180 1.5 SN BK RL	C.139
1797820000	SL-SMT 5.00/04/180 1.5 SN BK RL	C.139
1797830000	SL-SMT 5.00/05/180 1.5 SN BK RL	C.139
1797840000	SL-SMT 5.00/06/180 1.5 SN BK RL	C.139
1797850000	SL-SMT 5.00/07/180 1.5 SN BK RL	C.139
1797860000	SL-SMT 5.00/08/180 1.5 SN BK RL	C.139
1797870000	SL-SMT 5.00/02/180G 1.5 SN BK RL	C.139
1797880000	SL-SMT 5.00/03/180G 1.5 SN BK RL	C.139
1797890000	SL-SMT 5.00/04/180G 1.5 SN BK RL	C.139
1797900000	SL-SMT 5.00/05/180G 1.5 SN BK RL	C.139
1797910000	SL-SMT 5.00/06/180G 1.5 SN BK RL	C.139
1797920000	SL-SMT 5.00/07/180G 1.5 SN BK RL	C.139
1797930000	SL-SMT 5.00/02/180LF 1.5 SN BK RL	C.141
1797940000	SL-SMT 5.00/03/180LF 1.5 SN BK RL	C.141
1797950000	SL-SMT 5.00/04/180LF 1.5 SN BK RL	C.141
1797960000	SL-SMT 5.00/05/180LF 1.5 SN BK RL	C.141
1797970000	SL-SMT 5.00/06/180LF 1.5 SN BK RL	C.141
1798120000	BCZ 3.81/03/90 SN BK BX	C.110
1798130000	BCZ 3.81/08/90 SN BK BX	C.110
1798140000	BCZ 3.81/03/90F SN BK BX	C.111
1798150000	BCZ 3.81/08/90F SN BK BX	C.111
1798160000	BCZ 3.81/03/270 SN BK BX	C.111
1798170000	BCZ 3.81/08/270 SN BK BX	C.111
1798180000	BCZ 3.81/03/270F SN BK BX	C.111
1798190000	BCZ 3.81/08/270F SN BK BX	C.111
1798500000	BCZ 3.81/02/90 SN BK BX	C.110
1798550000	BCZ 3.81/04/90 SN BK BX	C.110
1798570000	BCZ 3.81/05/90 SN BK BX	C.110
1798590000	BCZ 3.81/06/90 SN BK BX	C.110
1798610000	BCZ 3.81/10/90 SN BK BX	C.110
1798630000	BCZ 3.81/12/90 SN BK BX	C.110
1798660000	BCZ 3.81/16/90 SN BK BX	C.110
1798780000	BCZ 3.81/02/90F SN BK BX	C.111
1798790000	BCZ 3.81/04/90F SN BK BX	C.111
1798800000	BCZ 3.81/05/90F SN BK BX	C.111
1798810000	BCZ 3.81/06/90F SN BK BX	C.111
1798820000	BCZ 3.81/10/90F SN BK BX	C.111
1798830000	BCZ 3.81/12/90F SN BK BX	C.111
1798840000	BCZ 3.81/16/90F SN BK BX	C.111
1798940000	BCZ 3.81/02/270 SN BK BX	C.111
1798950000	BCZ 3.81/04/270 SN BK BX	C.111
1798960000	BCZ 3.81/05/270 SN BK BX	C.111
1798970000	BCZ 3.81/06/270 SN BK BX	C.111
1798980000	BCZ 3.81/10/270 SN BK BX	C.111
1798990000	BCZ 3.81/12/270 SN BK BX	C.111
1799000000	BCZ 3.81/16/270 SN BK BX	C.111
1799100000	BCZ 3.81/02/270F SN BK BX	C.111
1799110000	BCZ 3.81/04/270F SN BK BX	C.111
1799120000	BCZ 3.81/05/270F SN BK BX	C.111
1799130000	BCZ 3.81/06/270F SN BK BX	C.111
1799140000	BCZ 3.81/10/270F SN BK BX	C.111
1799150000	BCZ 3.81/12/270F SN BK BX	C.111
1799160000	BCZ 3.81/16/270F SN BK BX	C.111

1800000000

1803790000	DFFC EW2	D.21
1804340000	SL-SMT 3.50/12/90LF 3.2SN BK BX	C.27
1804700000	SL-SMT 3.50/02/180LF 1.5SN BK BX	C.31
1804710000	SL-SMT 3.50/03/180LF 1.5SN BK BX	C.31
1804720000	SL-SMT 3.50/04/180LF 1.5SN BK BX	C.31
1804730000	SL-SMT 3.50/05/180LF 1.5SN BK BX	C.31
1804740000	SL-SMT 3.50/06/180LF 1.5SN BK BX	C.31
1804750000	SL-SMT 3.50/07/180LF 1.5SN BK BX	C.31
1804760000	SL-SMT 3.50/08/180LF 1.5SN BK BX	C.31
1804770000	SL-SMT 3.50/09/180LF 1.5SN BK BX	C.31
1804780000	SL-SMT 3.50/10/180LF 1.5SN BK BX	C.31
1804790000	SL-SMT 3.50/11/180LF 1.5SN BK BX	C.31
1804800000	SL-SMT 3.50/12/180LF 1.5SN BK BX	C.31
1804810000	SL-SMT 3.50/13/180LF 1.5SN BK BX	C.31

Order No.	Type	Page
1804820000	SL-SMT 3.50/14/180LF 1.5SN BK BX	C.31
1804830000	SL-SMT 3.50/15/180LF 1.5SN BK BX	C.31
1804840000	SL-SMT 3.50/16/180LF 1.5SN BK BX	C.31
1804850000	SL-SMT 3.50/17/180LF 1.5SN BK BX	C.31
1804860000	SL-SMT 3.50/18/180LF 1.5SN BK BX	C.31
1804870000	SL-SMT 3.50/19/180LF 1.5SN BK BX	C.31
1804890000	SL-SMT 3.50/20/180LF 1.5SN BK BX	C.31
1804900000	SL-SMT 3.50/21/180LF 1.5SN BK BX	C.31
1804910000	SL-SMT 3.50/22/180LF 1.5SN BK BX	C.31
1804920000	SL-SMT 3.50/23/180LF 1.5SN BK BX	C.31
1804930000	SL-SMT 3.50/24/180LF 1.5SN BK BX	C.31
1804940000	SL-SMT 3.50/02/90LF 1.5SN BK BX	C.27
1804950000	SL-SMT 3.50/03/90LF 1.5SN BK BX	C.27
1804960000	SL-SMT 3.50/04/90LF 1.5SN BK BX	C.27
1804970000	SL-SMT 3.50/05/90LF 1.5SN BK BX	C.27
1804980000	SL-SMT 3.50/06/90LF 1.5SN BK BX	C.27
1804990000	SL-SMT 3.50/07/90LF 1.5SN BK BX	C.27
1805000000	SL-SMT 3.50/08/90LF 1.5SN BK BX	C.27
1805010000	SL-SMT 3.50/09/90LF 1.5SN BK BX	C.27
1805020000	SL-SMT 3.50/10/90LF 1.5SN BK BX	C.27
1805030000	SL-SMT 3.50/11/90LF 1.5SN BK BX	C.27
1805040000	SL-SMT 3.50/12/90LF 1.5SN BK BX	C.27
1805050000	SL-SMT 3.50/13/90LF 1.5SN BK BX	C.27
1805060000	SL-SMT 3.50/14/90LF 1.5SN BK BX	C.27
1805070000	SL-SMT 3.50/15/90LF 1.5SN BK BX	C.27
1805080000	SL-SMT 3.50/16/90LF 1.5SN BK BX	C.27
1805090000	SL-SMT 3.50/17/90LF 1.5SN BK BX	C.27
1805100000	SL-SMT 3.50/18/90LF 1.5SN BK BX	C.27
1805110000	SL-SMT 3.50/19/90LF 1.5SN BK BX	C.27
1805120000	SL-SMT 3.50/20/90LF 1.5SN BK BX	C.27
1805130000	SL-SMT 3.50/21/90LF 1.5SN BK BX	C.27
1805140000	SL-SMT 3.50/22/90LF 1.5SN BK BX	C.27
1805150000	SL-SMT 3.50/23/90LF 1.5SN BK BX	C.27
1805160000	SL-SMT 3.50/24/90LF 1.5SN BK BX	C.27
1805210000	SL-SMT 3.50/02/180LF 1.5SN BK RL	C.31
1805230000	SL-SMT 3.50/03/180LF 1.5SN BK RL	C.31
1805240000	SL-SMT 3.50/04/180LF 1.5SN BK RL	C.31
1805250000	SL-SMT 3.50/05/180LF 1.5SN BK RL	C.31
1805270000	SL-SMT 3.50/06/180LF 1.5SN BK RL	C.31
1805280000	SL-SMT 3.50/07/180LF 1.5SN BK RL	C.31
1805290000	SL-SMT 3.50/08/180LF 1.5SN BK RL	C.31
1805300000	SL-SMT 3.50/09/180LF 1.5SN BK RL	C.31
1805310000	SL-SMT 3.50/02/90LF 1.5SN BK RL	C.27
1805320000	SL-SMT 3.50/03/90LF 1.5SN BK RL	C.27
1805330000	SL-SMT 3.50/04/90LF 1.5SN BK RL	C.27
1805340000	SL-SMT 3.50/05/90LF 1.5SN BK RL	C.27
1805350000	SL-SMT 3.50/06/90LF 1.5SN BK RL	C.27
1805360000	SL-SMT 3.50/07/90LF 1.5SN BK RL	C.27
1805370000	SL-SMT 3.50/08/90LF 1.5SN BK RL	C.27
1805380000	SL-SMT 3.50/09/90LF 1.5SN BK RL	C.27

1810000000

1812430000	SL-SMART 5.0X/02/90 1.5SN BK RL	C.184
1812440000	SL-SMART 5.0X/03/90 1.5SN BK RL	C.184
1812450000	SL-SMART 5.0X/02/180 1.5SN BK RL	C.185
1812460000	SL-SMART 5.0X/03/180 1.5SN BK RL	C.185
1813330000	SU 10.16HP/02/90G 3.5AG BK BX	F.80
1813340000	SU 10.16HP/03/90G 3.5AG BK BX	F.80
1813350000	SU 10.16HP/04/90G 3.5AG BK BX	F.80
1813360000	SU 10.16HP/05/90G 3.5AG BK BX	F.80
1813370000	SU 10.16HP/06/90G 3.5AG BK BX	F.80
1813380000	SU 10.16HP/07/90G 3.5AG BK BX	F.80
1813390000	SU 10.16HP/08/90G 3.5AG BK BX	F.80
1813400000	SU 10.16HP/09/90G 3.5AG BK BX	F.80
1813410000	SU 10.16HP/02/180G 3.5AG BK BX	F.82
1813420000	SU 10.16HP/03/180G 3.5AG BK BX	F.82
1813430000	SU 10.16HP/04/180G 3.5AG BK BX	F.82
1813440000	SU 10.16HP/05/180G 3.5AG BK BX	F.82
1813450000	SU 10.16HP/06/180G 3.5AG BK BX	F.82
1813460000	SU 10.16HP/07/180G 3.5AG BK BX	F.82
1813470000	SU 10.16HP/08/180G 3.5AG BK BX	F.82
1813480000	SU 10.16HP/09/180G 3.5AG BK BX	F.82
1813490000	SU 10.16HP/02/270G 3.5AG BK BX	F.84
1813500000	SU 10.16HP/03/270G 3.5AG BK BX	F.84
1813510000	SU 10.16HP/04/270G 3.5AG BK BX	F.84
1813520000	SU 10.16HP/05/270G 3.5AG BK BX	F.84
1813530000	SU 10.16HP/06/270G 3.5AG BK BX	F.84
1813540000	SU 10.16HP/07/270G 3.5AG BK BX	F.84
1813550000	SU 10.16HP/08/270G 3.5AG BK BX	F.84
1813560000	SU 10.16HP/09/270G 3.5AG BK BX	F.84
1813570000	SU 10.16HP/02/90F 3.5AG BK BX	F.81
1813580000	SU 10.16HP/03/90F 3.5AG BK BX	F.81
1813590000	SU 10.16HP/04/90F 3.5AG BK BX	F.81
1813600000	SU 10.16HP/05/90F 3.5AG BK BX	F.81
1813610000	SU 10.16HP/06/90F 3.5AG BK BX	F.81
1813620000	SU 10.16HP/07/90F 3.5AG BK BX	F.81
1813630000	SU 10.16HP/08/90F 3.5AG BK BX	F.81
1813640000	SU 10.16HP/09/90F 3.5AG BK BX	F.81
1813650000	SU 10.16HP/02/180F 3.5AG BK BX	F.83
1813660000	SU 10.16HP/03/180F 3.5AG BK BX	F.83
1813670000	SU 10.16HP/04/180F 3.5AG BK BX	F.83
1813680000	SU 10.16HP/05/180F 3.5AG BK BX	F.83
1813690000	SU 10.16HP/06/180F 3.5AG BK BX	F.83
1813700000	SU 10.16HP/07/180F 3.5AG BK BX	F.83
1813710000	SU 10.16HP/08/180F 3.5AG BK BX	F.83
1813720000	SU 10.16HP/09/180F 3.5AG BK BX	F.83
1813730000	SU 10.16HP/02/270F 3.5AG BK BX	F.85
1813740000	SU 10.16HP/03/270F 3.5AG BK BX	F.85

Order No.	Type	Page
1813750000	SU 10.16HP/04/270F 3.5AG BK BX	F.85
1813760000	SU 10.16HP/05/270F 3.5AG BK BX	F.85
1813770000	SU 10.16HP/06/270F 3.5AG BK BX	F.85
1813780000	SU 10.16HP/07/270F 3.5AG BK BX	F.85
1813790000	SU 10.16HP/08/270F 3.5AG BK BX	F.85
1813800000	SU 10.16HP/09/270F 3.5AG BK BX	F.85
1814590000	S2L-SMT 3.5 FLA 20/10	D.8

1820000000

1820170000	SL-SMT 5.08/02/180G 1.5 SN BK RL	C.175
1820600000	SL-SMT 5.08/03/180F 3.2SN BK BX	C.176
1820610000	SL-SMT 5.08/06/180F 3.2SN BK BX	C.176
1820620000	SL-SMT 5.08/08/180F 3.2SN BK BX	C.176
1820630000	SL-SMT 5.08/12/180F 3.2SN BK BX	C.176
1820640000	SL-SMT 5.08/16/180F 3.2SN BK BX	C.176
1820650000	SL-SMT 5.08/18/180F 3.2SN BK BX	C.176
1820770000	SL-SMT 5.08/05/180F 3.2SN BK BX	C.176
1820780000	SL-SMT 5.08/10/180F 3.2SN BK BX	C.176
1820790000	SL-SMT 5.08/13/180F 3.2SN BK BX	C.176
1820800000	SL-SMT 5.08/14/180F 3.2SN BK BX	C.176
1820810000	SL-SMT 5.08/20/180F 3.2SN BK BX	C.176
1821100000	SL-SMT 5.08/02/180 1.5 SN BK RL	C.175
1821110000	SL-SMT 5.08/03/180 1.5 SN BK RL	C.175
1821140000	SL-SMT 5.08/02/90G 1.5 SN BK RL	C.169
1821160000	SL-SMT 5.08/02/90 1.5 SN BK RL	C.169
1821170000	SL-SMT 5.08/03/90 1.5 SN BK RL	C.169
1821490000	LM 5.00/04/90 3.5SN OR BX	B.16
1824410000	KO BV/SV7.62	F.80
1824420000	LSF-SMT 3.50/02/90 3.5SN BK TU	B.60
1824430000	LSF-SMT 3.50/03/90 3.5SN BK TU	B.60
1824440000	LSF-SMT 3.50/04/90 3.5SN BK TU	B.60
1824450000	LSF-SMT 3.50/05/90 3.5SN BK TU	B.60
1824460000	LSF-SMT 3.50/06/90 3.5SN BK TU	B.60
1824470000	LSF-SMT 3.50/07/90 3.5SN BK TU	B.60
1824480000	LSF-SMT 3.50/08/90 3.5SN BK TU	B.60
1824490000	LSF-SMT 3.50/09/90 3.5SN BK TU	B.60
1824500000	LSF-SMT 3.50/10/90 3.5SN BK TU	B.60
1824510000	LSF-SMT 3.50/11/90 3.5SN BK TU	B.60
1824520000	LSF-SMT 3.50/12/90 3.5SN BK TU	B.60
1824620000	LSF-SMT 3.81/02/90 3.5SN BK TU	B.66
1824630000	LSF-SMT 3.81/03/90 3.5SN BK TU	B.66
1824640000	LSF-SMT 3.81/04/90 3.5SN BK TU	B.66
1824650000	LSF-SMT 3.81/05/90 3.5SN BK TU	B.66
1824660000	LSF-SMT 3.81/06/90 3.5SN BK TU	B.66
1824690000	LSF-SMT 3.81/07/90 3.5SN BK TU	B.66
1824700000	LSF-SMT 3.81/08/90 3.5SN BK TU	B.66
1824710000	LSF-SMT 3.81/09/90 3.5SN BK TU	B.66
1824720000	LSF-SMT 3.81/10/90 3.5SN BK TU	B.66
1824730000	LSF-SMT 3.81/11/90 3.5SN BK TU	B.66
1824740000	LSF-SMT 5.00/02/90 3.5SN BK TU	B.72
1824750000	LSF-SMT 5.00/03/90 3.5SN BK TU	B.72
1824760000	LSF-SMT 5.00/04/90 3.5SN BK TU	B.72
1824770000	LSF-SMT 5.00/05/90 3.5SN BK TU	B.72
1824780000	LSF-SMT 5.00/06/90 3.5SN BK TU	B.72
1824790000	LSF-SMT 5.00/07/90 3.5SN BK TU	B.72
1824800000	LSF-SMT 5.00/08/90 3.5SN BK TU	B.72
1824810000	LSF-SMT 5.08/02/90 3.5SN BK TU	B.78
1824820000	LSF-SMT 5.08/03/90 3.5SN BK TU	B.78
1824830000	LSF-SMT 5.08/04/90 3.5SN BK TU	B.78
1824840000	LSF-SMT 5.08/05/90 3.5SN BK TU	B.78
1824850000	LSF-SMT 5.08/06/90 3.5SN BK TU	B.78
1824860000	LSF-SMT 5.08/07/90 3.5SN BK TU	B.78
1824870000	LSF-SMT 5.08/08/90 3.5SN BK TU	B.78
1824880000	LSF-SMT 7.50/02/90 3.5SN BK TU	B.84
1824890000	LSF-SMT 7.50/03/90 3.5SN BK TU	B.84
1824900000	LSF-SMT 7.50/04/90 3.5SN BK TU	B.84
1824910000	LSF-SMT 7.50/05/90 3.5SN BK TU	B.84
1824920000	LSF-SMT 7.50/06/90 3.5SN BK TU	B.84
1824930000	LSF-SMT 7.50/07/90 3.5SN BK TU	B.84
1824940000	LSF-SMT 7.50/08/90 3.5SN BK TU	B.84
1824950000	LSF-SMT 7.62/02/90 3.5SN BK TU	B.90
1824960000	LSF-SMT 7.62/03/90 3.5SN BK TU	B.90
1824970000	LSF-SMT 7.62/04/90 3.5SN BK TU	B.90
1824980000	LSF-SMT 7.62/05/90 3.5SN BK TU	B.90
1824990000	LSF-SMT 7.62/06/90 3.5SN BK TU	B.90
1825000000	LSF-SMT 7.62/07/90 3.5SN BK TU	B.90
1825010000	LSF-SMT 7.62/08/90 3.5SN BK TU	B.90
1825300000	LSF-SMT 3.81/12/90 3.5SN BK TU	B.66
1825640000	LSF-SMT 3.50/02/180 3.5SN BK TU	B.64
1825650000	LSF-SMT 3.50/03/180 3.5SN BK TU	B.64
1825660000	LSF-SMT 3.50/04/180 3.5SN BK TU	B.64
1825670000	LSF-SMT 3.50/05/180 3.5SN BK TU	B.64
1825680000	LSF-SMT 3.50/06/180 3.5SN BK TU	B.64
1825690000	LSF-SMT 3.50/07/180 3.5SN BK TU	B.64
1825700000	LSF-SMT 3.50/08/180 3.5SN BK TU	B.64
1825710000	LSF-SMT 3.50/09/180 3.5SN BK TU	B.64
1825720000	LSF-SMT 3.50/10/180 3.5SN BK TU	B.64
1825730000	LSF-SMT 3.50/11/180 3.5SN BK TU	B.64
1825740000	LSF-SMT 3.50/12/180 3.5SN BK TU	B.64
1825790000	LSF-SMT 3.81/02/180 3.5SN BK TU	B.70
1825800000	LSF-SMT 3.81/03/180 3.5SN BK TU	B.70
1825810000	LSF-SMT 3.81/04/180 3.5SN BK TU	B.70
1825820000	LSF-SMT 3.81/05/180 3.5SN BK TU	B.70
1825830000	LSF-SMT 3.81/06/180 3.5SN BK TU	B.70
1825840000	LSF-SMT 3.81/07/180 3.5SN BK TU	B.70
1825850000	LSF-SMT 3.81/08/180 3.5SN BK TU	B.70
1825870000	LSF-SMT 3.81/09/180 3.5SN BK TU	B.70
1825880000	LSF-SMT 3.81/10/180 3.5SN BK TU	B.70

Order No.	Type	Page
1825890000	LSF-SMT 3.81/11/180 3.5SN BK TU	B.70
1825920000	LSF-SMT 3.81/12/180 3.5SN BK TU	B.70
1825960000	LSF-SMT 5.00/02/180 3.5SN BK TU	B.76
1825970000	LSF-SMT 5.00/03/180 3.5SN BK TU	B.76
1825980000	LSF-SMT 5.00/04/180 3.5SN BK TU	B.76
1825990000	LSF-SMT 5.00/05/180 3.5SN BK TU	B.76
1826000000	LSF-SMT 5.00/06/180 3.5SN BK TU	B.76
1826010000	LSF-SMT 5.00/07/180 3.5SN BK TU	B.76
1826020000	LSF-SMT 5.00/08/180 3.5SN BK TU	B.76
1826040000	LSF-SMT 5.08/02/180 3.5SN BK TU	B.82
1826060000	LSF-SMT 5.08/03/180 3.5SN BK TU	B.82
1826070000	LSF-SMT 5.08/04/180 3.5SN BK TU	B.82
1826080000	LSF-SMT 5.08/05/180 3.5SN BK TU	B.82
1826100000	LSF-SMT 5.08/06/180 3.5SN BK TU	B.82
1826110000	LSF-SMT 5.08/07/180 3.5SN BK TU	B.82
1826120000	LSF-SMT 5.08/08/180 3.5SN BK TU	B.82
1826130000	LSF-SMT 7.50/02/180 3.5SN BK TU	B.88
1826140000	LSF-SMT 7.50/03/180 3.5SN BK TU	B.88
1826150000	LSF-SMT 7.50/04/180 3.5SN BK TU	B.88
1826160000	LSF-SMT 7.50/05/180 3.5SN BK TU	B.88
1826170000	LSF-SMT 7.50/06/180 3.5SN BK TU	B.88
1826180000	LSF-SMT 7.50/07/180 3.5SN BK TU	B.88
1826190000	LSF-SMT 7.50/08/180 3.5SN BK TU	B.88
1826210000	LSF-SMT 7.62/02/180 3.5SN BK TU	B.94
1826220000	LSF-SMT 7.62/03/180 3.5SN BK TU	B.94
1826230000	LSF-SMT 7.62/04/180 3.5SN BK TU	B.94
1826240000	LSF-SMT 7.62/05/180 3.5SN BK TU	B.94
1826250000	LSF-SMT 7.62/06/180 3.5SN BK TU	B.94
1826260000	LSF-SMT 7.62/07/180 3.5SN BK TU	B.94
1826270000	LSF-SMT 7.62/08/180 3.5SN BK TU	B.94
1828770000	SLDV-THR 5.08/04/180F 3.2SN BK BX	C.186
1828780000	SLDV-THR 5.08/06/180F 3.2SN BK BX	C.186
1828790000	SLDV-THR 5.08/08/180F 3.2SN BK BX	C.186
1828800000	SLDV-THR 5.08/10/180F 3.2SN BK BX	C.186
1828810000	SLDV-THR 5.08/12/180F 3.2SN BK BX	C.186
1828820000	SLDV-THR 5.08/14/180F 3.2SN BK BX	C.186
1828830000	SLDV-THR 5.08/16/180F 3.2SN BK BX	C.186
1828840000	SLDV-THR 5.08/18/180F 3.2SN BK BX	C.186
1828850000	SLDV-THR 5.08/20/180F 3.2SN BK BX	C.186
1828860000	SLDV-THR 5.08/22/180F 3.2SN BK BX	C.186
1828870000	SLDV-THR 5.08/24/180F 3.2SN BK BX	C.186
1828880000	SLDV-THR 5.08/26/180F 3.2SN BK BX	C.186
1828890000	SLDV-THR 5.08/04/180F 1.5SN BK BX	C.186
1828900000	SLDV-THR 5.08/06/180F 1.5SN BK BX	C.186
1828910000	SLDV-THR 5.08/08/180F 1.5SN BK BX	C.186
1828920000	SLDV-THR 5.08/10/180F 1.5SN BK BX	C.186
1828930000	SLDV-THR 5.08/12/180F 1.5SN BK BX	C.186
1828940000	SLDV-THR 5.08/14/180F 1.5SN BK BX	C.186
1828950000	SLDV-THR 5.08/16/180F 1.5SN BK BX	C.186
1828960000	SLDV-THR 5.08/18/180F 1.5SN BK BX	C.186
1828970000	SLDV-THR 5.08/20/180F 1.5SN BK BX	C.186
1828980000	SLDV-THR 5.08/22/180F 1.5SN BK BX	C.186
1828990000	SLDV-THR 5.08/24/180F 1.5SN BK BX	C.186
1829000000	SLDV-THR 5.08/26/180F 1.5SN BK BX	C.186
1829010000	SLDV-THR 5.08/04/180FLF 3.2SN BK BX	C.187
1829020000	SLDV-THR 5.08/06/180FLF 3.2SN BK BX	C.187
1829030000	SLDV-THR 5.08/08/180FLF 3.2SN BK BX	C.187
1829040000	SLDV-THR 5.08/10/180FLF 3.2SN BK BX	C.187
1829050000	SLDV-THR 5.08/12/180FLF 3.2SN BK BX	C.187
1829060000	SLDV-THR 5.08/14/180FLF 3.2SN BK BX	C.187
1829070000	SLDV-THR 5.08/16/180FLF 3.2SN BK BX	C.187
1829080000	SLDV-THR 5.08/18/180FLF 3.2SN BK BX	C.187
1829090000	SLDV-THR 5.08/20/180FLF 3.2SN BK BX	C.187
1829100000	SLDV-THR 5.08/22/180FLF 3.2SN BK BX	C.187
1829110000	SLDV-THR 5.08/24/180FLF 3.2SN BK BX	C.187
1829120000	SLDV-THR 5.08/26/180FLF 3.2SN BK BX	C.187
1829130000	SLDV-THR 5.08/04/180FLF 1.5SN BK BX	C.187
1829140000	SLDV-THR 5.08/06/180FLF 1.5SN BK BX	C.187
1829150000	SLDV-THR 5.08/08/180FLF 1.5SN BK BX	C.187
1829160000	SLDV-THR 5.08/10/180FLF 1.5SN BK BX	C.187
1829170000	SLDV-THR 5.08/12/180FLF 1.5SN BK BX	C.187
1829180000	SLDV-THR 5.08/14/180FLF 1.5SN BK BX	C.187
1829190000	SLDV-THR 5.08/16/180FLF 1.5SN BK BX	C.187
1829200000	SLDV-THR 5.08/18/180FLF 1.5SN BK BX	C.187
1829210000	SLDV-THR 5.08/20/180FLF 1.5SN BK BX	C.187
1829220000	SLDV-THR 5.08/22/180FLF 1.5SN BK BX	C.187
1829230000	SLDV-THR 5.08/24/180FLF 1.5SN BK BX	C.187
1829240000	SLDV-THR 5.08/26/180FLF 1.5SN BK BX	C.187

1830000000

1830100000	SL-SMT 5.08/04/180F 1.5SN BK BX	C.176
1836990000	SL-SMT 3.50/10/180G 3.2SN BK BX	C.30
1837010000	SC 3.81/07/180F 3.2SN BK BX	C.87
1837020000	BCZ 3.81/07/180F SN BK BX	C.107
1837320000	SL-SMT 5.08/02/180F 1.5SN BK BX	C.176
1837330000	SL-SMT 5.08/05/180F 1.5SN BK BX	C.176
1837340000	SL-SMT 5.08/06/180F 1.5SN BK BX	C.176
1837630000	SL-SMT 5.08/02/90F 3.2SN BK BX	C.170
1837640000	SL-SMT 5.08/03/90F 3.2SN BK BX	C.170
1837650000	SL-SMT 5.08/04/90F 3.2SN BK BX	C.170
1837660000	SL-SMT 5.08/05/90F 3.2SN BK BX	C.170
1837670000	SL-SMT 5.08/06/90F 3.2SN BK BX	C.170
1837680000	SL-SMT 5.08/07/90F 3.2SN BK BX	C.170
1837690000	SL-SMT 5.08/08/90F 3.2SN BK BX	C.170
1837700000	SL-SMT 5.08/09/90F 3.2SN BK BX	C.170
1837710000	SL-SMT 5.08/10/90F 3.2SN BK BX	C.170
1837720000	SL-SMT 5.08/11/90F 3.2SN BK BX	C.170
1837730000	SL-SMT 5.08/12/90F 3.2SN BK BX	C.170
1837740000	SL-SMT 5.08/13/90F 3.2SN BK BX	C.170
1837750000	SL-SMT 5.08/14/90F 3.2SN BK BX	C.170
1837760000	SL-SMT 5.08/15/90F 3.2SN BK BX	C.170
1837770000	SL-SMT 5.08/16/90F 3.2SN BK BX	C.170
1837780000	SL-SMT 5.08/17/90F 3.2SN BK BX	C.170
1837790000	SL-SMT 5.08/18/90F 3.2SN BK BX	C.170
1837800000	SL-SMT 5.08/19/90F 3.2SN BK BX	C.170
1837810000	SL-SMT 5.08/20/90F 3.2SN BK BX	C.170
1837820000	SL-SMT 5.08/21/90F 3.2SN BK BX	C.170
1837830000	SL-SMT 5.08/22/90F 3.2SN BK BX	C.170
1837840000	SL-SMT 5.08/23/90F 3.2SN BK BX	C.170
1837850000	SL-SMT 5.08/24/90F 3.2SN BK BX	C.170
1837860000	SL-SMT 5.08/02/180F 3.2SN BK BX	C.176
1837870000	SL-SMT 5.08/04/180F 3.2SN BK BX	C.176
1837880000	SL-SMT 5.08/07/180F 3.2SN BK BX	C.176
1837890000	SL-SMT 5.08/09/180F 3.2SN BK BX	C.176
1837900000	SL-SMT 5.08/11/180F 3.2SN BK BX	C.176
1837910000	SL-SMT 5.08/15/180F 3.2SN BK BX	C.176
1837920000	SL-SMT 5.08/17/180F 3.2SN BK BX	C.176
1837930000	SL-SMT 5.08/19/180F 3.2SN BK BX	C.176
1837940000	SL-SMT 5.08/21/180F 3.2SN BK BX	C.176
1837950000	SL-SMT 5.08/22/180F 3.2SN BK BX	C.176
1837960000	SL-SMT 5.08/23/180F 3.2SN BK BX	C.176
1837970000	SL-SMT 5.08/24/180F 3.2SN BK BX	C.176
1837980000	SL-SMT 5.08/02/180 3.2SN BK BX	C.174
1837990000	SL-SMT 5.08/03/180 3.2SN BK BX	C.174
1838000000	SL-SMT 5.08/04/180 3.2SN BK BX	C.174
1838010000	SL-SMT 5.08/05/180 3.2SN BK BX	C.174
1838020000	SL-SMT 5.08/06/180 3.2SN BK BX	C.174
1838030000	SL-SMT 5.08/07/180 3.2SN BK BX	C.174
1838040000	SL-SMT 5.08/08/180 3.2SN BK BX	C.174
1838050000	SL-SMT 5.08/09/180 3.2SN BK BX	C.174
1838060000	SL-SMT 5.08/10/180 3.2SN BK BX	C.174
1838070000	SL-SMT 5.08/11/180 3.2SN BK BX	C.174
1838080000	SL-SMT 5.08/12/180 3.2SN BK BX	C.174
1838090000	SL-SMT 5.08/13/180 3.2SN BK BX	C.174
1838100000	SL-SMT 5.08/14/180 3.2SN BK BX	C.174
1838110000	SL-SMT 5.08/15/180 3.2SN BK BX	C.174
1838120000	SL-SMT 5.08/16/180 3.2SN BK BX	C.174
1838130000	SL-SMT 5.08/17/180 3.2SN BK BX	C.174
1838140000	SL-SMT 5.08/18/180 3.2SN BK BX	C.174
1838150000	SL-SMT 5.08/19/180 3.2SN BK BX	C.174
1838160000	SL-SMT 5.08/20/180 3.2SN BK BX	C.174
1838170000	SL-SMT 5.08/21/180 3.2SN BK BX	C.174
1838180000	SL-SMT 5.08/22/180 3.2SN BK BX	C.174
1838190000	SL-SMT 5.08/23/180 3.2SN BK BX	C.174
1838200000	SL-SMT 5.08/24/180 3.2SN BK BX	C.174
1838210000	SL-SMT 5.08/02/180G 3.2SN BK BX	C.175
1838220000	SL-SMT 5.08/03/180G 3.2SN BK BX	C.175
1838230000	SL-SMT 5.08/04/180G 3.2SN BK BX	C.175
1838240000	SL-SMT 5.08/05/180G 3.2SN BK BX	C.175
1838250000	SL-SMT 5.08/06/180G 3.2SN BK BX	C.175
1838260000	SL-SMT 5.08/07/180G 3.2SN BK BX	C.175
1838270000	SL-SMT 5.08/08/180G 3.2SN BK BX	C.175
1838280000	SL-SMT 5.08/09/180G 3.2SN BK BX	C.175
1838290000	SL-SMT 5.08/10/180G 3.2SN BK BX	C.175
1838300000	SL-SMT 5.08/11/180G 3.2SN BK BX	C.175
1838310000	SL-SMT 5.08/12/180G 3.2SN BK BX	C.175
1838320000	SL-SMT 5.08/13/180G 3.2SN BK BX	C.175
1838330000	SL-SMT 5.08/14/180G 3.2SN BK BX	C.175
1838340000	SL-SMT 5.08/15/180G 3.2SN BK BX	C.175
1838350000	SL-SMT 5.08/16/180G 3.2SN BK BX	C.175
1838360000	SL-SMT 5.08/17/180G 3.2SN BK BX	C.175
1838370000	SL-SMT 5.08/18/180G 3.2SN BK BX	C.175
1838380000	SL-SMT 5.08/19/180G 3.2SN BK BX	C.175
1838390000	SL-SMT 5.08/20/180G 3.2SN BK BX	C.175
1838400000	SL-SMT 5.08/21/180G 3.2SN BK BX	C.175
1838410000	SL-SMT 5.08/22/180G 3.2SN BK BX	C.175
1838420000	SL-SMT 5.08/23/180G 3.2SN BK BX	C.175
1838430000	SL-SMT 5.08/24/180G 3.2SN BK BX	C.175
1838440000	SL-SMT 5.08/02/180LF 3.2SN BK BX	C.178
1838450000	SL-SMT 5.08/03/180LF 3.2SN BK BX	C.178
1838460000	SL-SMT 5.08/04/180LF 3.2SN BK BX	C.178
1838470000	SL-SMT 5.08/05/180LF 3.2SN BK BX	C.178
1838480000	SL-SMT 5.08/06/180LF 3.2SN BK BX	C.178
1838490000	SL-SMT 5.08/07/180LF 3.2SN BK BX	C.178
1838500000	SL-SMT 5.08/08/180LF 3.2SN BK BX	C.178
1838510000	SL-SMT 5.08/09/180LF 3.2SN BK BX	C.178
1838520000	SL-SMT 5.08/10/180LF 3.2SN BK BX	C.178
1838530000	SL-SMT 5.08/11/180LF 3.2SN BK BX	C.178
1838540000	SL-SMT 5.08/12/180LF 3.2SN BK BX	C.178
1838550000	SL-SMT 5.08/13/180LF 3.2SN BK BX	C.178
1838560000	SL-SMT 5.08/14/180LF 3.2SN BK BX	C.178
1838570000	SL-SMT 5.08/15/180LF 3.2SN BK BX	C.178
1838580000	SL-SMT 5.08/16/180LF 3.2SN BK BX	C.178
1838590000	SL-SMT 5.08/17/180LF 3.2SN BK BX	C.178
1838600000	SL-SMT 5.08/18/180LF 3.2SN BK BX	C.178
1838610000	SL-SMT 5.08/19/180LF 3.2SN BK BX	C.178
1838620000	SL-SMT 5.08/20/180LF 3.2SN BK BX	C.178
1838630000	SL-SMT 5.08/21/180LF 3.2SN BK BX	C.178
1838640000	SL-SMT 5.08/22/180LF 3.2SN BK BX	C.178
1838650000	SL-SMT 5.08/23/180LF 3.2SN BK BX	C.178
1838660000	SL-SMT 5.08/24/180LF 3.2SN BK BX	C.178
1839770000	BLZ 5.08/04/180QV2 SN OR BX PRT	C.228
1839780000	BLZ 5.08/04/180QV2 SN BK BX PRT	C.228
1839890000	SL-SMT 5.00/02/90 3.2SN BK BX	C.134
1839900000	SL-SMT 5.00/03/90 3.2SN BK BX	C.134
1839910000	SL-SMT 5.00/04/90 3.2SN BK BX	C.134
1839920000	SL-SMT 5.00/05/90 3.2SN BK BX	C.134
1839930000	SL-SMT 5.00/06/90 3.2SN BK BX	C.134
1839940000	SL-SMT 5.00/07/90 3.2SN BK BX	C.134
1839950000	SL-SMT 5.00/08/90 3.2SN BK BX	C.134
1839960000	SL-SMT 5.00/09/90 3.2SN BK BX	C.134
1839970000	SL-SMT 5.00/10/90 3.2SN BK BX	C.134
1839980000	SL-SMT 5.00/11/90 3.2SN BK BX	C.134
1839990000	SL-SMT 5.00/12/90 3.2SN BK BX	C.134

1840000000

1840000000	SL-SMT 5.00/13/90 3.2SN BK BX	C.134
1840010000	SL-SMT 5.00/14/90 3.2SN BK BX	C.134
1840020000	SL-SMT 5.00/15/90 3.2SN BK BX	C.134
1840030000	SL-SMT 5.00/16/90 3.2SN BK BX	C.134
1840040000	SL-SMT 5.00/17/90 3.2SN BK BX	C.134
1840050000	SL-SMT 5.00/18/90 3.2SN BK BX	C.134
1840060000	SL-SMT 5.00/19/90 3.2SN BK BX	C.134
1840070000	SL-SMT 5.00/20/90 3.2SN BK BX	C.134
1840080000	SL-SMT 5.00/21/90 3.2SN BK BX	C.134
1840090000	SL-SMT 5.00/22/90 3.2SN BK BX	C.134
1840100000	SL-SMT 5.00/23/90 3.2SN BK BX	C.134
1840110000	SL-SMT 5.00/24/90 3.2SN BK BX	C.134
1840120000	SL-SMT 5.00/02/90G 3.2SN BK BX	C.135
1840130000	SL-SMT 5.00/03/90G 3.2SN BK BX	C.135
1840140000	SL-SMT 5.00/04/90G 3.2SN BK BX	C.135
1840150000	SL-SMT 5.00/05/90G 3.2SN BK BX	C.135
1840160000	SL-SMT 5.00/06/90G 3.2SN BK BX	C.135
1840170000	SL-SMT 5.00/07/90G 3.2SN BK BX	C.135
1840180000	SL-SMT 5.00/08/90G 3.2SN BK BX	C.135
1840190000	SL-SMT 5.00/09/90G 3.2SN BK BX	C.135
1840200000	SL-SMT 5.00/10/90G 3.2SN BK BX	C.135
1840210000	SL-SMT 5.00/11/90G 3.2SN BK BX	C.135
1840220000	SL-SMT 5.00/12/90G 3.2SN BK BX	C.135
1840230000	SL-SMT 5.00/13/90G 3.2SN BK BX	C.135
1840240000	SL-SMT 5.00/14/90G 3.2SN BK BX	C.135
1840250000	SL-SMT 5.00/15/90G 3.2SN BK BX	C.135
1840260000	SL-SMT 5.00/16/90G 3.2SN BK BX	C.135
1840270000	SL-SMT 5.00/17/90G 3.2SN BK BX	C.135
1840280000	SL-SMT 5.00/18/90G 3.2SN BK BX	C.135
1840290000	SL-SMT 5.00/19/90G 3.2SN BK BX	C.135
1840300000	SL-SMT 5.00/20/90G 3.2SN BK BX	C.135
1840310000	SL-SMT 5.00/21/90G 3.2SN BK BX	C.135
1840320000	SL-SMT 5.00/22/90G 3.2SN BK BX	C.135
1840330000	SL-SMT 5.00/23/90G 3.2SN BK BX	C.135
1840340000	SL-SMT 5.00/24/90G 3.2SN BK BX	C.135
1840350000	SL-SMT 5.00/02/90LF 3.2SN BK BX	C.136
1840360000	SL-SMT 5.00/03/90LF 3.2SN BK BX	C.136
1840370000	SL-SMT 5.00/04/90LF 3.2SN BK BX	C.136
1840380000	SL-SMT 5.00/05/90LF 3.2SN BK BX	C.136
1840390000	SL-SMT 5.00/06/90LF 3.2SN BK BX	C.136
1840400000	SL-SMT 5.00/07/90LF 3.2SN BK BX	C.136
1840410000	SL-SMT 5.00/08/90LF 3.2SN BK BX	C.136
1840420000	SL-SMT 5.00/09/90LF 3.2SN BK BX	C.136
1840430000	SL-SMT 5.00/10/90LF 3.2SN BK BX	C.136
1840440000	SL-SMT 5.00/11/90LF 3.2SN BK BX	C.136
1840450000	SL-SMT 5.00/12/90LF 3.2SN BK BX	C.136
1840460000	SL-SMT 5.00/13/90LF 3.2SN BK BX	C.136
1840470000	SL-SMT 5.00/14/90LF 3.2SN BK BX	C.136
1840480000	SL-SMT 5.00/15/90LF 3.2SN BK BX	C.136
1840490000	SL-SMT 5.00/16/90LF 3.2SN BK BX	C.136
1840500000	SL-SMT 5.00/17/90LF 3.2SN BK BX	C.136
1840510000	SL-SMT 5.00/18/90LF 3.2SN BK BX	C.136
1840520000	SL-SMT 5.00/19/90LF 3.2SN BK BX	C.136
1840530000	SL-SMT 5.00/20/90LF 3.2SN BK BX	C.136
1840540000	SL-SMT 5.00/21/90LF 3.2SN BK BX	C.136
1840550000	SL-SMT 5.00/22/90LF 3.2SN BK BX	C.136
1840560000	SL-SMT 5.00/23/90LF 3.2SN BK BX	C.136
1840570000	SL-SMT 5.00/24/90LF 3.2SN BK BX	C.136
1840920000	SL-SMT 5.00/02/180 3.2SN BK BX	C.138
1840930000	SL-SMT 5.00/03/180 3.2SN BK BX	C.138
1840940000	SL-SMT 5.00/04/180 3.2SN BK BX	C.138
1840950000	SL-SMT 5.00/05/180 3.2SN BK BX	C.138
1840960000	SL-SMT 5.00/06/180 3.2SN BK BX	C.138
1840970000	SL-SMT 5.00/07/180 3.2SN BK BX	C.138
1840980000	SL-SMT 5.00/08/180 3.2SN BK BX	C.138
1840990000	SL-SMT 5.00/09/180 3.2SN BK BX	C.138
1841000000	SL-SMT 5.00/10/180 3.2SN BK BX	C.138
1841020000	SL-SMT 5.00/11/180 3.2SN BK BX	C.138
1841030000	SL-SMT 5.00/12/180 3.2SN BK BX	C.138
1841040000	SL-SMT 5.00/13/180 3.2SN BK BX	C.138
1841050000	SL-SMT 5.00/14/180 3.2SN BK BX	C.138
1841060000	SL-SMT 5.00/15/180 3.2SN BK BX	C.138
1841070000	SL-SMT 5.00/16/180 3.2SN BK BX	C.138
1841080000	SL-SMT 5.00/17/180 3.2SN BK BX	C.138
1841090000	SL-SMT 5.00/18/180 3.2SN BK BX	C.138
1841100000	SL-SMT 5.00/19/180 3.2SN BK BX	C.138
1841110000	SL-SMT 5.00/20/180 3.2SN BK BX	C.138
1841120000	SL-SMT 5.00/21/180 3.2SN BK BX	C.138
1841130000	SL-SMT 5.00/22/180 3.2SN BK BX	C.138
1841140000	SL-SMT 5.00/23/180 3.2SN BK BX	C.138
1841150000	SL-SMT 5.00/24/180 3.2SN BK BX	C.138
1841160000	SL-SMT 5.00/02/180G 3.2SN BK BX	C.139
1841170000	SL-SMT 5.00/03/180G 3.2SN BK BX	C.139
1841180000	SL-SMT 5.00/04/180G 3.2SN BK BX	C.139
1841190000	SL-SMT 5.00/05/180G 3.2SN BK BX	C.139
1841200000	SL-SMT 5.00/06/180G 3.2SN BK BX	C.139
1841210000	SL-SMT 5.00/07/180G 3.2SN BK BX	C.139
1841220000	SL-SMT 5.00/08/180G 3.2SN BK BX	C.139
1841230000	SL-SMT 5.00/09/180G 3.2SN BK BX	C.139

Order No.	Type	Page
1841240000	SL-SMT 5.00/10/180G 3.2SN BK BX	C.139
1841250000	SL-SMT 5.00/11/180G 3.2SN BK BX	C.139
1841260000	SL-SMT 5.00/12/180G 3.2SN BK BX	C.139
1841270000	SL-SMT 5.00/13/180G 3.2SN BK BX	C.139
1841280000	SL-SMT 5.00/14/180G 3.2SN BK BX	C.139
1841290000	SL-SMT 5.00/15/180G 3.2SN BK BX	C.139
1841300000	SL-SMT 5.00/16/180G 3.2SN BK BX	C.139
1841310000	SL-SMT 5.00/17/180G 3.2SN BK BX	C.139
1841320000	SL-SMT 5.00/18/180G 3.2SN BK BX	C.139
1841330000	SL-SMT 5.00/19/180G 3.2SN BK BX	C.139
1841340000	SL-SMT 5.00/20/180G 3.2SN BK BX	C.139
1841350000	SL-SMT 5.00/21/180G 3.2SN BK BX	C.139
1841360000	SL-SMT 5.00/22/180G 3.2SN BK BX	C.139
1841370000	SL-SMT 5.00/23/180G 3.2SN BK BX	C.139
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1841460000	SL-SMT 5.00/09/180LF 3.2SN BK BX	C.140
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1841540000	SL-SMT 5.00/17/180LF 3.2SN BK BX	C.140
1841550000	SL-SMT 5.00/18/180LF 3.2SN BK BX	C.140
1841560000	SL-SMT 5.00/19/180LF 3.2SN BK BX	C.140
1841570000	SL-SMT 5.00/20/180LF 3.2SN BK BX	C.140
1841580000	SL-SMT 5.00/21/180LF 3.2SN BK BX	C.140
1841590000	SL-SMT 5.00/22/180LF 3.2SN BK BX	C.140
1841600000	SL-SMT 5.00/23/180LF 3.2SN BK BX	C.140
1841610000	SL-SMT 5.00/24/180LF 3.2SN BK BX	C.140
1841630000	SL-SMT 3.50/02/90G 3.2SN BK BX	C.26
1841640000	SL-SMT 3.50/03/90G 3.2SN BK BX	C.26
1841650000	SL-SMT 3.50/04/90G 3.2SN BK BX	C.26
1841660000	SL-SMT 3.50/05/90G 3.2SN BK BX	C.26
1841670000	SL-SMT 3.50/06/90G 3.2SN BK BX	C.26
1841680000	SL-SMT 3.50/07/90G 3.2SN BK BX	C.26
1841690000	SL-SMT 3.50/08/90G 3.2SN BK BX	C.26
1841700000	SL-SMT 3.50/09/90G 3.2SN BK BX	C.26
1841710000	SL-SMT 3.50/10/90G 3.2SN BK BX	C.26
1841720000	SL-SMT 3.50/11/90G 3.2SN BK BX	C.26
1841730000	SL-SMT 3.50/12/90G 3.2SN BK BX	C.26
1841740000	SL-SMT 3.50/13/90G 3.2SN BK BX	C.26
1841750000	SL-SMT 3.50/14/90G 3.2SN BK BX	C.26
1841760000	SL-SMT 3.50/15/90G 3.2SN BK BX	C.26
1841770000	SL-SMT 3.50/16/90G 3.2SN BK BX	C.26
1841780000	SL-SMT 3.50/17/90G 3.2SN BK BX	C.26
1841790000	SL-SMT 3.50/18/90G 3.2SN BK BX	C.26
1841800000	SL-SMT 3.50/19/90G 3.2SN BK BX	C.26
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1841830000	SL-SMT 3.50/22/90G 3.2SN BK BX	C.26
1841840000	SL-SMT 3.50/23/90G 3.2SN BK BX	C.26
1841850000	SL-SMT 3.50/24/90G 3.2SN BK BX	C.26
1841860000	SL-SMT 3.50/02/90LF 3.2SN BK BX	C.27
1841870000	SL-SMT 3.50/03/90LF 3.2SN BK BX	C.27
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1841950000	SL-SMT 3.50/11/90LF 3.2SN BK BX	C.27
1841960000	SL-SMT 3.50/13/90LF 3.2SN BK BX	C.27
1841970000	SL-SMT 3.50/14/90LF 3.2SN BK BX	C.27
1841980000	SL-SMT 3.50/15/90LF 3.2SN BK BX	C.27
1841990000	SL-SMT 3.50/16/90LF 3.2SN BK BX	C.27
1842000000	SL-SMT 3.50/17/90LF 3.2SN BK BX	C.27
1842010000	SL-SMT 3.50/18/90LF 3.2SN BK BX	C.27
1842020000	SL-SMT 3.50/19/90LF 3.2SN BK BX	C.27
1842030000	SL-SMT 3.50/20/90LF 3.2SN BK BX	C.27
1842040000	SL-SMT 3.50/21/90LF 3.2SN BK BX	C.27
1842050000	SL-SMT 3.50/22/90LF 3.2SN BK BX	C.27
1842060000	SL-SMT 3.50/23/90LF 3.2SN BK BX	C.27
1842070000	SL-SMT 3.50/24/90LF 3.2SN BK BX	C.27
1842080000	SL-SMT 3.50/02/90F 3.2SN BK BX	C.28
1842090000	SL-SMT 3.50/03/90F 3.2SN BK BX	C.28
1842100000	SL-SMT 3.50/04/90F 3.2SN BK BX	C.28
1842110000	SL-SMT 3.50/05/90F 3.2SN BK BX	C.28
1842120000	SL-SMT 3.50/06/90F 3.2SN BK BX	C.28
1842130000	SL-SMT 3.50/07/90F 3.2SN BK BX	C.28
1842140000	SL-SMT 3.50/08/90F 3.2SN BK BX	C.28
1842150000	SL-SMT 3.50/09/90F 3.2SN BK BX	C.28
1842160000	SL-SMT 3.50/10/90F 3.2SN BK BX	C.28
1842170000	SL-SMT 3.50/11/90F 3.2SN BK BX	C.28
1842180000	SL-SMT 3.50/12/90F 3.2SN BK BX	C.28
1842190000	SL-SMT 3.50/13/90F 3.2SN BK BX	C.28
1842200000	SL-SMT 3.50/14/90F 3.2SN BK BX	C.28
1842210000	SL-SMT 3.50/15/90F 3.2SN BK BX	C.28
1842220000	SL-SMT 3.50/16/90F 3.2SN BK BX	C.28
1842230000	SL-SMT 3.50/17/90F 3.2SN BK BX	C.28

Order No.	Type	Page
1842240000	SL-SMT 3.50/18/90F 3.2SN BK BX	C.28
1842250000	SL-SMT 3.50/19/90F 3.2SN BK BX	C.28
1842260000	SL-SMT 3.50/20/90F 3.2SN BK BX	C.28
1842270000	SL-SMT 3.50/21/90F 3.2SN BK BX	C.28
1842280000	SL-SMT 3.50/22/90F 3.2SN BK BX	C.28
1842290000	SL-SMT 3.50/23/90F 3.2SN BK BX	C.28
1842300000	SL-SMT 3.50/24/90F 3.2SN BK BX	C.28
1842320000	SL-SMT 3.50/02/180G 3.2SN BK BX	C.30
1842330000	SL-SMT 3.50/03/180G 3.2SN BK BX	C.30
1842340000	SL-SMT 3.50/04/180G 3.2SN BK BX	C.30
1842350000	SL-SMT 3.50/05/180G 3.2SN BK BX	C.30
1842360000	SL-SMT 3.50/06/180G 3.2SN BK BX	C.30
1842370000	SL-SMT 3.50/07/180G 3.2SN BK BX	C.30
1842380000	SL-SMT 3.50/08/180G 3.2SN BK BX	C.30
1842390000	SL-SMT 3.50/09/180G 3.2SN BK BX	C.30
1842400000	SL-SMT 3.50/11/180G 3.2SN BK BX	C.30
1842410000	SL-SMT 3.50/12/180G 3.2SN BK BX	C.30
1842420000	SL-SMT 3.50/13/180G 3.2SN BK BX	C.30
1842430000	SL-SMT 3.50/14/180G 3.2SN BK BX	C.30
1842440000	SL-SMT 3.50/15/180G 3.2SN BK BX	C.30
1842450000	SL-SMT 3.50/16/180G 3.2SN BK BX	C.30
1842460000	SL-SMT 3.50/17/180G 3.2SN BK BX	C.30
1842470000	SL-SMT 3.50/18/180G 3.2SN BK BX	C.30
1842480000	SL-SMT 3.50/19/180G 3.2SN BK BX	C.30
1842490000	SL-SMT 3.50/20/180G 3.2SN BK BX	C.30
1842500000	SL-SMT 3.50/21/180G 3.2SN BK BX	C.30
1842510000	SL-SMT 3.50/22/180G 3.2SN BK BX	C.30
1842520000	SL-SMT 3.50/23/180G 3.2SN BK BX	C.30
1842530000	SL-SMT 3.50/24/180G 3.2SN BK BX	C.30
1842540000	SL-SMT 3.50/02/180LF 3.2SN BK BX	C.31
1842550000	SL-SMT 3.50/03/180LF 3.2SN BK BX	C.31
1842560000	SL-SMT 3.50/04/180LF 3.2SN BK BX	C.31
1842570000	SL-SMT 3.50/05/180LF 3.2SN BK BX	C.31
1842580000	SL-SMT 3.50/06/180LF 3.2SN BK BX	C.31
1842590000	SL-SMT 3.50/07/180LF 3.2SN BK BX	C.31
1842600000	SL-SMT 3.50/08/180LF 3.2SN BK BX	C.31
1842610000	SL-SMT 3.50/09/180LF 3.2SN BK BX	C.31
1842620000	SL-SMT 3.50/10/180LF 3.2SN BK BX	C.31
1842630000	SL-SMT 3.50/11/180LF 3.2SN BK BX	C.31
1842640000	SL-SMT 3.50/12/180LF 3.2SN BK BX	C.31
1842650000	SL-SMT 3.50/13/180LF 3.2SN BK BX	C.31
1842660000	SL-SMT 3.50/14/180LF 3.2SN BK BX	C.31
1842670000	SL-SMT 3.50/15/180LF 3.2SN BK BX	C.31
1842680000	SL-SMT 3.50/16/180LF 3.2SN BK BX	C.31
1842690000	SL-SMT 3.50/17/180LF 3.2SN BK BX	C.31
1842700000	SL-SMT 3.50/18/180LF 3.2SN BK BX	C.31
1842710000	SL-SMT 3.50/19/180LF 3.2SN BK BX	C.31
1842720000	SL-SMT 3.50/20/180LF 3.2SN BK BX	C.31
1842730000	SL-SMT 3.50/21/180LF 3.2SN BK BX	C.31
1842740000	SL-SMT 3.50/22/180LF 3.2SN BK BX	C.31
1842750000	SL-SMT 3.50/23/180LF 3.2SN BK BX	C.31
1842760000	SL-SMT 3.50/24/180LF 3.2SN BK BX	C.31
1842770000	SL-SMT 3.50/02/180F 3.2SN BK BX	C.29
1842780000	SL-SMT 3.50/03/180F 3.2SN BK BX	C.29
1842790000	SL-SMT 3.50/04/180F 3.2SN BK BX	C.29
1842800000	SL-SMT 3.50/05/180F 3.2SN BK BX	C.29
1842810000	SL-SMT 3.50/06/180F 3.2SN BK BX	C.29
1842820000	SL-SMT 3.50/07/180F 3.2SN BK BX	C.29
1842830000	SL-SMT 3.50/08/180F 3.2SN BK BX	C.29
1842840000	SL-SMT 3.50/09/180F 3.2SN BK BX	C.29
1842850000	SL-SMT 3.50/10/180F 3.2SN BK BX	C.29
1842860000	SL-SMT 3.50/11/180F 3.2SN BK BX	C.29
1842870000	SL-SMT 3.50/12/180F 3.2SN BK BX	C.29
1842880000	SL-SMT 3.50/13/180F 3.2SN BK BX	C.29
1842890000	SL-SMT 3.50/14/180F 3.2SN BK BX	C.29
1842900000	SL-SMT 3.50/15/180F 3.2SN BK BX	C.29
1842910000	SL-SMT 3.50/16/180F 3.2SN BK BX	C.29
1842920000	SL-SMT 3.50/17/180F 3.2SN BK BX	C.29
1842930000	SL-SMT 3.50/18/180F 3.2SN BK BX	C.29
1842940000	SL-SMT 3.50/19/180F 3.2SN BK BX	C.29
1842950000	SL-SMT 3.50/20/180F 3.2SN BK BX	C.29
1842960000	SL-SMT 3.50/21/180F 3.2SN BK BX	C.29
1842970000	SL-SMT 3.50/22/180F 3.2SN BK BX	C.29
1842980000	SL-SMT 3.50/23/180F 3.2SN BK BX	C.29
1842990000	SL-SMT 3.50/24/180F 3.2SN BK BX	C.29
1843150000	LP 5.08/05/135 3.2 OR	B.27
1843160000	LP 5.08/07/135 3.2 OR	B.27
1843170000	LP 5.08/09/135 3.2 OR	B.27
1843180000	LP 5.08/10/135 3.2 OR	B.27
1843190000	LP 5.08/11/135 3.2 OR	B.27
1843200000	LP 5.08/12/135 3.2 OR	B.27
1843210000	LP5.00/5/135 3.2 OR	B.25
1843220000	LP5.00/6/135 3.2 OR	B.25
1843230000	LP5.00/7/135 3.2 OR	B.25
1843240000	LP5.00/8/135 3.2 OR	B.25
1843250000	LP5.00/9/135 3.2 OR	B.25
1843260000	LP5.00/10/135 3.2 OR	B.25
1843270000	LP5.00/11/135 3.2 OR	B.25
1843280000	LP5.00/12/135 3.2 OR	B.25
1843750000	BLL 5.08/02/90FI 3.2SN OR BX	C.251
1843760000	BLL 5.08/03/90FI 3.2SN OR BX	C.251
1843770000	BLL 5.08/04/90FI 3.2SN OR BX	C.251
1843780000	BLL 5.08/05/90FI 3.2SN OR BX	C.251
1843790000	BLL 5.08/06/90FI 3.2SN OR BX	C.251
1843800000	BLL 5.08/07/90FI 3.2SN OR BX	C.251
1843810000	BLL 5.08/08/90FI 3.2SN OR BX	C.251
1843820000	BLL 5.08/09/90FI 3.2SN OR BX	C.251
1843830000	BLL 5.08/10/90FI 3.2SN OR BX	C.251
1843840000	BLL 5.08/11/90FI 3.2SN OR BX	C.251

Order No.	Type	Page
1843850000	BLL 5.08/12/90FI 3.2SN OR BX	C.251
1843860000	BLL 5.08/13/90FI 3.2SN OR BX	C.251
1843870000	BLL 5.08/14/90FI 3.2SN OR BX	C.251
1843880000	BLL 5.08/15/90FI 3.2SN OR BX	C.251
1843890000	BLL 5.08/16/90FI 3.2SN OR BX	C.251
1843900000	BLL 5.08/17/90FI 3.2SN OR BX	C.251
1843910000	BLL 5.08/18/90FI 3.2SN OR BX	C.251
1843920000	BLL 5.08/19/90FI 3.2SN OR BX	C.251
1843930000	BLL 5.08/20/90FI 3.2SN OR BX	C.251
1843940000	BLL 5.08/21/90FI 3.2SN OR BX	C.251
1843950000	BLL 5.08/22/90FI 3.2SN OR BX	C.251
1843960000	BLL 5.08/23/90FI 3.2SN OR BX	C.251
1843970000	BLL 5.08/24/90FI 3.2SN OR BX	C.251
1843990000	BLT 5.08/02/180F SN OR BX	C.227
1844000000	BLT 5.08/03/180F SN OR BX	C.227
1844010000	BLT 5.08/04/180F SN OR BX	C.227
1844020000	BLT 5.08/05/180F SN OR BX	C.227
1844030000	BLT 5.08/06/180F SN OR BX	C.227
1844040000	BLT 5.08/07/180F SN OR BX	C.227
1844050000	BLT 5.08/08/180F SN OR BX	C.227
1844060000	BLT 5.08/09/180F SN OR BX	C.227
1844070000	BLT 5.08/10/180F SN OR BX	C.227
1844080000	BLT 5.08/11/180F SN OR BX	C.227
1844090000	BLT 5.08/12/180F SN OR BX	C.227
1844100000	BLT 5.08/13/180F SN OR BX	C.227
1844110000	BLT 5.08/14/180F SN OR BX	C.227
1844120000	BLT 5.08/15/180F SN OR BX	C.227
1844130000	BLT 5.08/16/180F SN OR BX	C.227
1844140000	BLT 5.08/17/180F SN OR BX	C.227
1844150000	BLT 5.08/18/180F SN OR BX	C.227
1844160000	BLT 5.08/19/180F SN OR BX	C.227
1844170000	BLT 5.08/20/180F SN OR BX	C.227
1844180000	BLT 5.08/21/180F SN OR BX	C.227
1844190000	BLT 5.08/22/180F SN OR BX	C.227
1844200000	BLT 5.08/23/180F SN OR BX	C.227
1844210000	BLT 5.08/24/180F SN OR BX	C.227
1844220000	BLT 5.08/02/180F SN BK BX	C.227
1844230000	BLT 5.08/03/180F SN BK BX	C.227
1844240000	BLT 5.08/04/180F SN BK BX	C.227
1844250000	BLT 5.08/05/180F SN BK BX	C.227
1844260000	BLT 5.08/06/180F SN BK BX	C.227
1844270000	BLT 5.08/07/180F SN BK BX	C.227
1844280000	BLT 5.08/08/180F SN BK BX	C.227
1844290000	BLT 5.08/09/180F SN BK BX	C.227
1844300000	BLT 5.08/10/180F SN BK BX	C.227
1844310000	BLT 5.08/11/180F SN BK BX	C.227
1844320000	BLT 5.08/12/180F SN BK BX	C.227
1844330000	BLT 5.08/13/180F SN BK BX	C.227
1844340000	BLT 5.08/14/180F SN BK BX	C.227
1844350000	BLT 5.08/15/180F SN BK BX	C.227
1844360000	BLT 5.08/16/180F SN BK BX	C.227
1844370000	BLT 5.08/17/180F SN BK BX	C.227
1844380000	BLT 5.08/18/180F SN BK BX	C.227
1844390000	BLT 5.08/19/180F SN BK BX	C.227
1844400000	BLT 5.08/20/180F SN BK BX	C.227
1844410000	BLT 5.08/21/180F SN BK BX	C.227
1844420000	BLT 5.08/22/180F SN BK BX	C.227
1844430000	BLT 5.08/23/180F SN BK BX	C.227
1844440000	BLT 5.08/24/180F SN BK BX	C.227
1844500000	BLZ 5.08/04/180FQV2 SN BK BX PRT	C.229
1844510000	LP2N 5.08/12/90 3.2SN OR BX	B.31
1844520000	LP2N 5.08/14/90 3.2SN OR BX	B.31
1844530000	LP2N 5.08/18/90 3.2SN OR BX	B.31
1844540000	LP2N 5.08/22/90 3.2SN OR BX	B.31
1844550000	LP2N 5.08/26/90 3.2SN OR BX	B.31
1844560000	LP2N 5.08/28/90 3.2SN OR BX	B.31
1844570000	LP2N 5.08/32/90 3.2SN OR BX	B.31
1844580000	LP2N 5.08/34/90 3.2SN OR BX	B.31
1844590000	LP2N 5.08/36/90 3.2SN OR BX	B.31
1844600000	LP2N 5.08/38/90 3.2SN OR BX	B.31
1844610000	LP2N 5.08/40/90 3.2SN OR BX	B.31
1844620000	LP2N 5.08/42/90 3.2SN OR BX	B.31
1844630000	LP2N 5.08/44/90 3.2SN OR BX	B.31
1844640000	LP2N 5.08/46/90 3.2SN OR BX	B.31
1844650000	LP2N 5.08/48/90 3.2SN OR BX	B.31
1844660000	LP2HR 5.08/12/90 3.2SN OR BX	B.31
1844670000	LP2HR 5.08/14/90 3.2SN OR BX	B.31
1844680000	LP2HR 5.08/18/90 3.2SN OR BX	B.31
1844690000	LP2HR 5.08/26/90 3.2SN OR BX	B.31
1844700000	LP2HR 5.08/28/90 3.2SN OR BX	B.31
1844710000	LP2HR 5.08/32/90 3.2SN OR BX	B.31
1844720000	LP2HR 5.08/34/90 3.2SN OR BX	B.31
1844730000	LP2HR 5.08/36/90 3.2SN OR BX	B.31
1844740000	LP2HR 5.08/38/90 3.2SN OR BX	B.31
1844750000	LP2HR 5.08/40/90 3.2SN OR BX	B.31
1844760000	LP2HR 5.08/42/90 3.2SN OR BX	B.31
1844770000	LP2HR 5.08/44/90 3.2SN OR BX	B.31
1844780000	LP2HR 5.08/46/90 3.2SN OR BX	B.31
1844790000	LP3R 5.08/21/90 3.2SN OR BX	B.32
1844800000	LP3R 5.08/27/90 3.2SN OR BX	B.32
1844810000	LP3R 5.08/33/90 3.2SN OR BX	B.32
1844820000	LP3R 5.08/36/90 3.2SN OR BX	B.32
1844830000	LP3R 5.08/39/90 3.2SN OR BX	B.32
1844840000	LP3R 5.08/42/90 3.2SN OR BX	B.32
1844850000	LP3R 5.08/45/90 3.2SN OR BX	B.32
1844860000	LP3R 5.08/48/90 3.2SN OR BX	B.32
1844870000	LP3R 5.08/51/90 3.2SN OR BX	B.32
1844880000	LP3R 5.08/54/90 3.2SN OR BX	B.32
1844890000	LP3R 5.08/57/90 3.2SN OR BX	B.32

Order No.	Type	Page
1844900000	LP3R 5.08/60/90 3.2SN OR BX	B.32
1844910000	LP3R 5.08/63/90 3.2SN OR BX	B.32
1844920000	LP3R 5.08/66/90 3.2SN OR BX	B.32
1844930000	LP3R 5.08/69/90 3.2SN OR BX	B.32
1844940000	LP3R 5.08/72/90 3.2SN OR BX	B.32
1845040000	LM 3.50/04/90 3.2SN OR BX	B.10
1845050000	LM 3.50/06/90 3.2SN OR BX	B.10
1845060000	LM 3.50/07/90 3.2SN OR BX	B.10
1845070000	LM 3.50/08/90 3.2SN OR BX	B.10
1845080000	LM 3.50/09/90 3.2SN OR BX	B.10
1845090000	LM 3.50/10/90 3.2SN OR BX	B.10
1845100000	LM 3.50/11/90 3.2SN OR BX	B.10
1845110000	LM 3.50/12/90 3.2SN OR BX	B.10
1845220000	LM 3.50/04/135 3.2SN OR BX	B.11
1845230000	LM 3.50/05/135 3.2SN OR BX	B.11
1845240000	LM 3.50/06/135 3.2SN OR BX	B.11
1845250000	LM 3.50/07/135 3.2SN OR BX	B.11
1845260000	LM 3.50/08/135 3.2SN OR BX	B.11
1845270000	LM 3.50/09/135 3.2SN OR BX	B.11
1845280000	LM 3.50/10/135 3.2SN OR BX	B.11
1845290000	LM 3.50/11/135 3.2SN OR BX	B.11
1845300000	LM 3.50/12/135 3.2SN OR BX	B.11
1845310000	LM 5.00/05/90 3.5SN OR BX	B.16
1845320000	LM 5.00/06/90 3.5SN OR BX	B.16
1845330000	LM 5.00/07/90 3.5SN OR BX	B.16
1845340000	LM 5.00/08/90 3.5SN OR BX	B.16
1845350000	LM 5.00/09/90 3.5SN OR BX	B.16
1845360000	LM 5.00/10/90 3.5SN OR BX	B.16
1845370000	LM 5.00/11/90 3.5SN OR BX	B.16
1845380000	LM 5.00/12/90 3.5SN OR BX	B.16
1845390000	LM 5.00/04/135 3.5SN OR BX	B.17
1845400000	LM 5.00/05/135 3.5SN OR BX	B.17
1845410000	LM 5.00/06/135 3.5SN OR BX	B.17
1845420000	LM 5.00/07/135 3.5SN OR BX	B.17
1845430000	LM 5.00/08/135 3.5SN OR BX	B.17
1845440000	LM 5.00/09/135 3.5SN OR BX	B.17
1845450000	LM 5.00/10/135 3.5SN OR BX	B.17
1845460000	LM 5.00/11/135 3.5SN OR BX	B.17
1845470000	LM 5.00/12/135 3.5SN OR BX	B.17
1845690000	BCZ 3.81/07/90F SN BK BX	C.111
1846050000	SLS 5.08/04/180TB RF15 SN OR BX	C.212
1846060000	SLS 5.08/06/180TB RF15 SN OR BX	C.212
1846070000	SLS 5.08/08/180TB RF15 SN OR BX	C.212
1846080000	SLS 5.08/10/180TB RF15 SN OR BX	C.212
1846090000	SLS 5.08/12/180TB RF15 SN OR BX	C.212
1846100000	SLS 5.08/16/180TB RF15 SN OR BX	C.212
1846110000	SLS 5.08/20/180TB RF15 SN OR BX	C.212
1846120000	SLS 5.08/24/180TB RF15 SN OR BX	C.212
1846130000	SLS 5.08/04/180TB KF SN OR BX	C.213
1846140000	SLS 5.08/06/180TB KF SN OR BX	C.213
1846150000	SLS 5.08/08/180TB KF SN OR BX	C.213
1846160000	SLS 5.08/10/180TB KF SN OR BX	C.213
1846170000	SLS 5.08/12/180TB KF SN OR BX	C.213
1846180000	SLS 5.08/16/180TB KF SN OR BX	C.213
1846190000	SLS 5.08/20/180TB KF SN OR BX	C.213
1846200000	SLS 5.08/24/180TB KF SN OR BX	C.213
1846210000	SLS 5.08/02/180FI SN OR BX	C.211
1846220000	SLS 5.08/03/180FI SN OR BX	C.211
1846230000	SLS 5.08/04/180FI SN OR BX	C.211
1846240000	SLS 5.08/05/180FI SN OR BX	C.211
1846250000	SLS 5.08/06/180FI SN OR BX	C.211
1846260000	SLS 5.08/07/180FI SN OR BX	C.211
1846270000	SLS 5.08/08/180FI SN OR BX	C.211
1846280000	SLS 5.08/09/180FI SN OR BX	C.211
1846290000	SLS 5.08/10/180FI SN OR BX	C.211
1846300000	SLS 5.08/11/180FI SN OR BX	C.211
1846310000	SLS 5.08/12/180FI SN OR BX	C.211
1846320000	SLS 5.08/13/180FI SN OR BX	C.211
1846330000	SLS 5.08/14/180FI SN OR BX	C.211
1846340000	SLS 5.08/15/180FI SN OR BX	C.211
1846350000	SLS 5.08/16/180FI SN OR BX	C.211
1846360000	SLS 5.08/02/180F SN OR BX	C.211
1846370000	SLS 5.08/03/180F SN OR BX	C.211
1846380000	SLS 5.08/04/180F SN OR BX	C.211
1846390000	SLS 5.08/05/180F SN OR BX	C.211
1846400000	SLS 5.08/06/180F SN OR BX	C.211
1846410000	SLS 5.08/07/180F SN OR BX	C.211
1846420000	SLS 5.08/08/180F SN OR BX	C.211
1846430000	SLS 5.08/09/180F SN OR BX	C.211
1846440000	SLS 5.08/10/180F SN OR BX	C.211
1846450000	SLS 5.08/11/180F SN OR BX	C.211
1846460000	SLS 5.08/12/180F SN OR BX	C.211
1846470000	SLS 5.08/13/180F SN OR BX	C.211
1846480000	SLS 5.08/14/180F SN OR BX	C.211
1846490000	SLS 5.08/15/180F SN OR BX	C.211
1846500000	SLS 5.08/16/180F SN OR BX	C.211
1846870000	BLZ 5.08/04/180F0V2 SN OR BX PRT	C.229
1849730000	B2L/S2L 3.5 KO OR	D.10
1849740000	B2L/S2L 3.5 KO SW	D.10

1850000000

Order No.	Type	Page
1850880000	SU 10.16HP/02/180SF 3.5AG BK BX	F.83
1850890000	SU 10.16HP/03/180SF 3.5AG BK BX	F.83
1850900000	SU 10.16HP/04/180SF 3.5AG BK BX	F.83
1850910000	SU 10.16HP/05/180SF 3.5AG BK BX	F.83
1850920000	SU 10.16HP/06/180SF 3.5AG BK BX	F.83
1850930000	SU 10.16HP/07/180SF 3.5AG BK BX	F.83
1850940000	SU 10.16HP/08/180SF 3.5AG BK BX	F.83
1850950000	SU 10.16HP/09/180SF 3.5AG BK BX	F.83
1851040000	SU 10.16HP/02/90SF 3.5AG BK BX	F.81
1851050000	SU 10.16HP/03/90SF 3.5AG BK BX	F.81
1851060000	SU 10.16HP/04/90SF 3.5AG BK BX	F.81
1851070000	SU 10.16HP/05/90SF 3.5AG BK BX	F.81
1851080000	SU 10.16HP/06/90SF 3.5AG BK BX	F.81
1851090000	SU 10.16HP/07/90SF 3.5AG BK BX	F.81
1851100000	SU 10.16HP/08/90SF 3.5AG BK BX	F.81
1851110000	SU 10.16HP/09/90SF 3.5AG BK BX	F.81
1851120000	SU 10.16HP/02/270SF 3.5AG BK BX	F.85
1851130000	SU 10.16HP/03/270SF 3.5AG BK BX	F.85
1851140000	SU 10.16HP/04/270SF 3.5AG BK BX	F.85
1851150000	SU 10.16HP/05/270SF 3.5AG BK BX	F.85
1851160000	SU 10.16HP/06/270SF 3.5AG BK BX	F.85
1851170000	SU 10.16HP/07/270SF 3.5AG BK BX	F.85
1851180000	SU 10.16HP/08/270SF 3.5AG BK BX	F.85
1851190000	SU 10.16HP/09/270SF 3.5AG BK BX	F.85
1853940000	VDS180 SV7.62	H.4
1858960000	BCZ 3.81/07/90 SN BK BX	C.110

1860000000

Order No.	Type	Page
1862370000	SLDV-THR 5.00/08/180G 3.2SN BK BX	C.142
1862380000	SLDV-THR 5.00/16/180G 3.2SN BK BX	C.142
1862390000	SLDV-THR 5.00/20/180G 3.2SN BK BX	C.142
1862400000	SLDV-THR 5.00/40/180G 3.2SN BK BX	C.142
1862460000	SC-SMT 3.81/02/90G 3.2SN BK BX	C.66
1862480000	SC-SMT 3.81/03/90G 3.2SN BK BX	C.66
1862490000	SC-SMT 3.81/04/90G 3.2SN BK BX	C.66
1862500000	SC-SMT 3.81/05/90G 3.2SN BK BX	C.66
1862510000	SC-SMT 3.81/06/90G 3.2SN BK BX	C.66
1862520000	SC-SMT 3.81/07/90G 3.2SN BK BX	C.66
1862530000	SC-SMT 3.81/08/90G 3.2SN BK BX	C.66
1862540000	SC-SMT 3.81/09/90G 3.2SN BK BX	C.66
1862550000	SC-SMT 3.81/10/90G 3.2SN BK BX	C.66
1862560000	SC-SMT 3.81/02/90LF 1.5SN BK BX	C.67
1862570000	SC-SMT 3.81/11/90G 3.2SN BK BX	C.66
1862580000	SC-SMT 3.81/03/90LF 1.5SN BK BX	C.67
1862590000	SC-SMT 3.81/04/90LF 1.5SN BK BX	C.67
1862600000	SC-SMT 3.81/05/90LF 1.5SN BK BX	C.67
1862610000	SC-SMT 3.81/06/90LF 1.5SN BK BX	C.67
1862620000	SC-SMT 3.81/07/90LF 1.5SN BK BX	C.67
1862630000	SC-SMT 3.81/08/90LF 1.5SN BK BX	C.67
1862640000	SC-SMT 3.81/09/90LF 1.5SN BK BX	C.67
1862650000	SC-SMT 3.81/10/90LF 1.5SN BK BX	C.67
1862660000	SC-SMT 3.81/11/90LF 1.5SN BK BX	C.67
1862670000	SC-SMT 3.81/12/90LF 1.5SN BK BX	C.67
1862680000	SC-SMT 3.81/13/90LF 1.5SN BK BX	C.67
1862690000	SC-SMT 3.81/14/90LF 1.5SN BK BX	C.67
1862700000	SC-SMT 3.81/15/90LF 1.5SN BK BX	C.67
1862710000	SC-SMT 3.81/16/90LF 1.5SN BK BX	C.67
1862720000	SC-SMT 3.81/02/90LF 1.5SN BK RL	C.67
1862730000	SC-SMT 3.81/12/90G 3.2SN BK BX	C.66
1862740000	SC-SMT 3.81/13/90G 3.2SN BK BX	C.66
1862750000	SC-SMT 3.81/03/90LF 1.5SN BK RL	C.67
1862760000	SC-SMT 3.81/14/90G 3.2SN BK BX	C.66
1862770000	SC-SMT 3.81/04/90LF 1.5SN BK RL	C.67
1862780000	SC-SMT 3.81/15/90G 3.2SN BK BX	C.66
1862790000	SC-SMT 3.81/05/90LF 1.5SN BK RL	C.67
1862800000	SC-SMT 3.81/16/90G 3.2SN BK BX	C.66
1862810000	SC-SMT 3.81/02/90G 3.2SN BK RL	C.67
1862820000	SC-SMT 3.81/06/90LF 1.5SN BK RL	C.67
1862830000	SC-SMT 3.81/07/90LF 1.5SN BK RL	C.67
1862840000	SC-SMT 3.81/03/90G 3.2SN BK RL	C.67
1862850000	SC-SMT 3.81/08/90LF 1.5SN BK RL	C.67
1862860000	SC-SMT 3.81/04/90G 3.2SN BK RL	C.67
1862870000	SC-SMT 3.81/05/90G 3.2SN BK RL	C.67
1862880000	SC-SMT 3.81/06/90G 3.2SN BK RL	C.67
1862890000	SC-SMT 3.81/07/90G 3.2SN BK RL	C.67
1862900000	SC-SMT 3.81/08/90G 3.2SN BK RL	C.67
1862910000	SC-SMT 3.81/09/90G 3.2SN BK RL	C.67
1862920000	SC-SMT 3.81/02/180G 3.2SN BK BX	C.68
1862930000	SC-SMT 3.81/10/90G 3.2SN BK RL	C.67
1862940000	SC-SMT 3.81/03/180G 3.2SN BK BX	C.68
1862950000	SC-SMT 3.81/04/180G 3.2SN BK BX	C.68
1862960000	SC-SMT 3.81/02/90G 1.5SN BK BX	C.66
1862970000	SC-SMT 3.81/03/90G 1.5SN BK BX	C.66
1862980000	SC-SMT 3.81/04/90G 1.5SN BK BX	C.66
1862990000	SC-SMT 3.81/05/90G 1.5SN BK BX	C.66
1863000000	SC-SMT 3.81/06/90G 1.5SN BK BX	C.66
1863010000	SC-SMT 3.81/05/180G 3.2SN BK BX	C.68
1863020000	SC-SMT 3.81/06/180G 3.2SN BK BX	C.68
1863030000	SC-SMT 3.81/07/180G 3.2SN BK BX	C.68
1863040000	SC-SMT 3.81/07/90G 1.5SN BK BX	C.66
1863050000	SC-SMT 3.81/08/90G 1.5SN BK BX	C.66
1863060000	SC-SMT 3.81/09/90G 1.5SN BK BX	C.66
1863070000	SC-SMT 3.81/10/90G 1.5SN BK BX	C.66
1863080000	SC-SMT 3.81/11/90G 1.5SN BK BX	C.66
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1863100000	SC-SMT 3.81/13/90G 1.5SN BK BX	C.66
1863110000	SC-SMT 3.81/14/90G 1.5SN BK BX	C.66
1863120000	SC-SMT 3.81/15/90G 1.5SN BK BX	C.66
1863130000	SC-SMT 3.81/16/90G 1.5SN BK BX	C.66
1863140000	SC-SMT 3.81/02/90G 1.5SN BK RL	C.67
1863150000	SC-SMT 3.81/03/90G 1.5SN BK RL	C.67
1863160000	SC-SMT 3.81/04/90G 1.5SN BK RL	C.67
1863170000	SC-SMT 3.81/05/90G 1.5SN BK RL	C.67
1863180000	SC-SMT 3.81/06/90G 1.5SN BK RL	C.67
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1863200000	SC-SMT 3.81/08/90G 1.5SN BK RL	C.67
1863210000	SC-SMT 3.81/09/90G 1.5SN BK RL	C.67
1863220000	SC-SMT 3.81/10/90G 1.5SN BK RL	C.67
1863230000	SC-SMT 3.81/02/180LF 3.2SN BK BX	C.69
1863240000	SC-SMT 3.81/08/180G 3.2SN BK BX	C.68
1863250000	SC-SMT 3.81/03/180LF 3.2SN BK BX	C.69
1863260000	SC-SMT 3.81/04/180LF 3.2SN BK BX	C.69
1863270000	SC-SMT 3.81/09/180G 3.2SN BK BX	C.68
1863280000	SC-SMT 3.81/05/180LF 3.2SN BK BX	C.69
1863290000	SC-SMT 3.81/10/180G 3.2SN BK BX	C.68
1863300000	SC-SMT 3.81/06/180LF 3.2SN BK BX	C.69
1863310000	SC-SMT 3.81/07/180LF 3.2SN BK BX	C.69
1863320000	SC-SMT 3.81/11/180G 3.2SN BK BX	C.68
1863330000	SC-SMT 3.81/12/180G 3.2SN BK BX	C.68
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1863360000	SC-SMT 3.81/09/180LF 3.2SN BK BX	C.69
1863370000	SC-SMT 3.81/14/180G 3.2SN BK BX	C.68
1863380000	SC-SMT 3.81/10/180LF 3.2SN BK BX	C.69
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1863410000	SC-SMT 3.81/12/180LF 3.2SN BK BX	C.69
1863420000	SC-SMT 3.81/16/180G 3.2SN BK BX	C.68
1863430000	SC-SMT 3.81/13/180LF 3.2SN BK BX	C.69
1863440000	SC-SMT 3.81/14/180LF 3.2SN BK BX	C.69
1863450000	SC-SMT 3.81/02/180G 3.2SN BK RL	C.69
1863460000	SC-SMT 3.81/15/180LF 3.2SN BK BX	C.69
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1863480000	SC-SMT 3.81/16/180LF 3.2SN BK BX	C.69
1863490000	SC-SMT 3.81/04/180G 3.2SN BK RL	C.69
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1863510000	SC-SMT 3.81/03/180LF 3.2SN BK RL	C.69
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1863540000	SC-SMT 3.81/05/180G 3.2SN BK RL	C.69
1863560000	SC-SMT 3.81/06/180G 3.2SN BK RL	C.69
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1863580000	SC-SMT 3.81/05/180LF 3.2SN BK RL	C.69
1863590000	SC-SMT 3.81/08/180G 3.2SN BK RL	C.69
1863600000	SC-SMT 3.81/06/180LF 3.2SN BK RL	C.69
1863620000	SC-SMT 3.81/07/180LF 3.2SN BK RL	C.69
1863630000	SC-SMT 3.81/09/180G 3.2SN BK RL	C.69
1863640000	SC-SMT 3.81/08/180LF 3.2SN BK RL	C.69
1863660000	SC-SMT 3.81/10/180G 3.2SN BK RL	C.69
1863670000	SC-SMT 3.81/02/90LF 3.2SN BK BX	C.67
1863680000	SC-SMT 3.81/03/90LF 3.2SN BK BX	C.67
1863690000	SC-SMT 3.81/04/90LF 3.2SN BK BX	C.67
1863700000	SC-SMT 3.81/05/90LF 3.2SN BK BX	C.67
1863710000	SC-SMT 3.81/06/90LF 3.2SN BK BX	C.67
1863720000	SC-SMT 3.81/02/180G 1.5SN BK BX	C.68
1863730000	SC-SMT 3.81/03/180G 1.5SN BK BX	C.68
1863740000	SC-SMT 3.81/07/90LF 3.2SN BK BX	C.67
1863750000	SC-SMT 3.81/04/180G 1.5SN BK BX	C.68
1863760000	SC-SMT 3.81/08/90LF 3.2SN BK BX	C.67
1863770000	SC-SMT 3.81/09/90LF 3.2SN BK BX	C.67
1863780000	SC-SMT 3.81/05/180G 1.5SN BK BX	C.68
1863790000	SC-SMT 3.81/10/90LF 3.2SN BK BX	C.67
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1863820000	SC-SMT 3.81/12/90LF 3.2SN BK BX	C.67
1863830000	SC-SMT 3.81/06/180G 1.5SN BK BX	C.68
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1863850000	SC-SMT 3.81/14/90LF 3.2SN BK BX	C.67
1863860000	SC-SMT 3.81/15/90LF 3.2SN BK BX	C.67
1863870000	SC-SMT 3.81/16/90LF 3.2SN BK BX	C.67
1863880000	SC-SMT 3.81/07/180G 1.5SN BK BX	C.68
1863890000	SC-SMT 3.81/02/90LF 3.2SN BK RL	C.67
1863900000	SC-SMT 3.81/08/180G 1.5SN BK BX	C.68
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1863920000	SC-SMT 3.81/10/180G 1.5SN BK BX	C.68
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1863950000	SC-SMT 3.81/13/180G 1.5SN BK BX	C.68
1863960000	SC-SMT 3.81/14/180G 1.5SN BK BX	C.68
1863970000	SC-SMT 3.81/03/90LF 3.2SN BK RL	C.67
1863980000	SC-SMT 3.81/04/90LF 3.2SN BK RL	C.67
1863990000	SC-SMT 3.81/05/90LF 3.2SN BK RL	C.67
1864000000	SC-SMT 3.81/06/90LF 3.2SN BK RL	C.67
1864010000	SC-SMT 3.81/07/90LF 3.2SN BK RL	C.67
1864020000	SC-SMT 3.81/08/90LF 3.2SN BK RL	C.67
1864030000	SC-SMT 3.81/15/180G 1.5SN BK BX	C.68
1864040000	SC-SMT 3.81/16/180G 1.5SN BK BX	C.68
1864050000	SC-SMT 3.81/02/180G 1.5SN BK RL	C.69
1864060000	SC-SMT 3.81/03/180G 1.5SN BK RL	C.69
1864070000	SC-SMT 3.81/02/180LF 1.5SN BK BX	C.69
1864080000	SC-SMT 3.81/03/180LF 1.5SN BK BX	C.69
1864090000	SC-SMT 3.81/04/180LF 1.5SN BK BX	C.69
1864100000	SC-SMT 3.81/05/180LF 1.5SN BK BX	C.69
1864110000	SC-SMT 3.81/06/180LF 1.5SN BK BX	C.69
1864120000	SC-SMT 3.81/07/180LF 1.5SN BK BX	C.69
1864130000	SC-SMT 3.81/08/180LF 1.5SN BK BX	C.69
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1864150000	SC-SMT 3.81/10/180LF 1.5SN BK BX	C.69
1864160000	SC-SMT 3.81/11/180LF 1.5SN BK BX	C.69
1864170000	SC-SMT 3.81/12/180LF 1.5SN BK BX	C.69
1864180000	SC-SMT 3.81/13/180LF 1.5SN BK BX	C.69
1864190000	SC-SMT 3.81/14/180LF 1.5SN BK BX	C.69
1864200000	SC-SMT 3.81/15/180LF 1.5SN BK BX	C.69
1864210000	SC-SMT 3.81/16/180LF 1.5SN BK BX	C.69
1864220000	SC-SMT 3.81/02/180LF 1.5SN BK RL	C.69
1864230000	SC-SMT 3.81/03/180LF 1.5SN BK RL	C.69

Order No.	Type	Page
1864240000	SC-SMT 3.81/04/180LF 1.5SN BK RL	C.69
1864250000	SC-SMT 3.81/05/180LF 1.5SN BK RL	C.69
1864260000	SC-SMT 3.81/06/180LF 1.5SN BK RL	C.69
1864270000	SC-SMT 3.81/07/180LF 1.5SN BK RL	C.69
1864280000	SC-SMT 3.81/08/180LF 1.5SN BK RL	C.69
1864290000	SC-SMT 3.81/04/180G 1.5SN BK RL	C.69
1864300000	SC-SMT 3.81/05/180G 1.5SN BK RL	C.69
1864310000	SC-SMT 3.81/06/180G 1.5SN BK RL	C.69
1864320000	SC-SMT 3.81/07/180G 1.5SN BK RL	C.69
1864330000	SC-SMT 3.81/08/180G 1.5SN BK RL	C.69
1864340000	SC-SMT 3.81/09/180G 1.5SN BK RL	C.69
1864350000	SC-SMT 3.81/10/180G 1.5SN BK RL	C.69
1866320000	SLDV-THR 5.08/32/180FLF 3.2SN BK BX	C.187
1866330000	SLDV-THR 5.08/32/180F 3.2SN BK BX	C.186
1866770000	SLD 3.50V/10/90G 3.2SN OR BX	C.40
1869260000	LSF-SMT 7.62/02/90 1.5SN BK TU	B.90
1869270000	LSF-SMT 7.62/03/90 1.5SN BK TU	B.90
1869280000	LSF-SMT 7.62/04/90 1.5SN BK TU	B.90
1869290000	LSF-SMT 7.62/05/90 1.5SN BK TU	B.90
1869300000	LSF-SMT 7.62/06/90 1.5SN BK TU	B.90
1869310000	LSF-SMT 7.62/07/90 1.5SN BK TU	B.90
1869320000	LSF-SMT 7.62/08/90 1.5SN BK TU	B.90
1869360000	LSF-SMT 3.81/02/90 1.5SN BK TU	B.66
1869370000	LSF-SMT 3.81/03/90 1.5SN BK TU	B.66
1869380000	LSF-SMT 3.81/04/90 1.5SN BK TU	B.66
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1869600000	LSF-SMT 5.00/02/90 1.5SN BK TU	B.72
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1869790000	LSF-SMT 7.50/07/90 1.5SN BK TU	B.84
1869800000	LSF-SMT 7.50/08/90 1.5SN BK TU	B.84
1869810000	LSF-SMT 7.62/02/180 1.5SN BK TU	B.94
1869830000	LSF-SMT 7.62/03/180 1.5SN BK TU	B.94
1869840000	LSF-SMT 7.62/04/180 1.5SN BK TU	B.94
1869850000	LSF-SMT 7.62/05/180 1.5SN BK TU	B.94
1869860000	LSF-SMT 7.62/06/180 1.5SN BK TU	B.94
1869870000	LSF-SMT 7.62/07/180 1.5SN BK TU	B.94
1869880000	LSF-SMT 7.62/08/180 1.5SN BK TU	B.94
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1869920000	LSF-SMT 3.81/05/180 1.5SN BK TU	B.70
1869930000	LSF-SMT 3.81/06/180 1.5SN BK TU	B.70
1869940000	LSF-SMT 3.81/07/180 1.5SN BK TU	B.70
1869950000	LSF-SMT 3.81/08/180 1.5SN BK TU	B.70
1869960000	LSF-SMT 3.81/09/180 1.5SN BK TU	B.70
1869970000	LSF-SMT 3.81/10/180 1.5SN BK TU	B.70

1870000000

1870000000	LSF-SMT 3.81/11/180 1.5SN BK TU	B.70
1870010000	LSF-SMT 3.81/12/180 1.5SN BK TU	B.70
1870020000	LSF-SMT 3.81/13/180 1.5SN BK TU	B.70
1870030000	LSF-SMT 3.81/14/180 1.5SN BK TU	B.70
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1870050000	LSF-SMT 3.81/16/180 1.5SN BK TU	B.70
1870060000	LSF-SMT 3.81/17/180 1.5SN BK TU	B.70
1870070000	LSF-SMT 3.81/18/180 1.5SN BK TU	B.70
1870080000	LSF-SMT 3.81/19/180 1.5SN BK TU	B.70
1870090000	LSF-SMT 3.81/20/180 1.5SN BK TU	B.70
1870100000	LSF-SMT 3.81/21/180 1.5SN BK TU	B.70
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1870130000	LSF-SMT 3.81/24/180 1.5SN BK TU	B.70

Order No.	Type	Page
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1870170000	LSF-SMT 5.00/05/180 1.5SN BK TU	B.76
1870180000	LSF-SMT 5.00/06/180 1.5SN BK TU	B.76
1870190000	LSF-SMT 5.00/07/180 1.5SN BK TU	B.76
1870200000	LSF-SMT 5.00/08/180 1.5SN BK TU	B.76
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1870220000	LSF-SMT 5.08/03/180 1.5SN BK TU	B.82
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1871150000	LSF-SMT 3.50/20/90 1.5SN BK TU	B.60

Order No.	Type	Page
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1871430000	BCZ 3.81/09/90 SN BK BX	C.110
1871470000	SC 3.81/09/180G 3.2SN BK BX	C.86
1871490000	SC 3.81/07/180G 3.2SN BK BX	C.86
1871690000	BL-I/O 3.50/10F SN LTGY BX	C.52
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1876020000	LSF-SMT 5.00/02/180 1.5SN BK RL	B.77
1876030000	LSF-SMT 5.00/03/180 1.5SN BK RL	B.77
1876050000	LSF-SMT 5.00/04/180 1.5SN BK RL	B.77
1876060000	LSF-SMT 5.00/05/180 1.5SN BK RL	B.77
1876070000	LSF-SMT 5.00/06/180 1.5SN BK RL	B.77
1876080000	LSF-SMT 5.00/07/180 1.5SN BK RL	B.77
1876090000	LSF-SMT 5.00/08/180 1.5SN BK RL	B.77
1876100000	LSF-SMT 5.08/07/180 1.5SN BK RL	B.83
1876110000	LSF-SMT 5.00/02/180 3.5SN BK RL	B.77
1876120000	LSF-SMT 5.08/06/90 3.5SN BK RL	B.79
1876130000	LSF-SMT 5.00/03/180 3.5SN BK RL	B.77
1876140000	LSF-SMT 5.00/04/180 3.5SN BK RL	B.77
1876150000	LSF-SMT 5.08/06/90 1.5SN BK RL	B.79
1876160000	LSF-SMT 5.00/05/180 3.5SN BK RL	B.77
1876170000	LSF-SMT 5.08/06/180 3.5SN BK RL	B.83
1876180000	LSF-SMT 5.08/06/180 1.5SN BK RL	B.83
1876190000	LSF-SMT 5.08/05/90 3.5SN BK RL	B.79
1876200000	LSF-SMT 5.00/06/180 3.5SN BK RL	B.77
1876210000	LSF-SMT 5.08/05/90 1.5SN BK RL	B.79
1876220000	LSF-SMT 5.00/07/180 3.5SN BK RL	B.77
1876230000	LSF-SMT 5.00/08/180 3.5SN BK RL	B.77
1876240000	LSF-SMT 5.00/02/90 1.5SN BK RL	B.73
1876250000	LSF-SMT 5.08/05/180 3.5SN BK RL	B.83
1876260000	LSF-SMT 5.00/03/90 1.5SN BK RL	B.73
1876270000	LSF-SMT 5.00/04/90 1.5SN BK RL	B.73
1876280000	LSF-SMT 5.00/05/90 1.5SN BK RL	B.73
1876290000	LSF-SMT 5.08/05/180 1.5SN BK RL	B.83
1876300000	LSF-SMT 5.00/06/90 1.5SN BK RL	B.73
1876310000	LSF-SMT 5.08/04/90 3.5SN BK RL	B.79
1876330000	LSF-SMT 5.00/07/90 1.5SN BK RL	B.73
1876340000	SL-SMT 5.08/02/270GH 1.5SN BK BX	C.181
1876350000	LSF-SMT 5.00/08/90 1.5SN BK RL	B.73
1876360000	LSF-SMT 5.08/04/180 3.5SN BK RL	B.83
1876410000	LSF-SMT 5.08/04/180 1.5SN BK RL	B.83
1876420000	LSF-SMT 5.08/03/90 3.5SN BK RL	B.79
1876430000	LSF-SMT 5.00/02/90 3.5SN BK RL	B.73
1876440000	LSF-SMT 5.08/03/90 1.5SN BK RL	B.79
1876450000	LSF-SMT 5.08/03/180 3.5SN BK RL	B.83
1876460000	LSF-SMT 5.08/03/180 1.5SN BK RL	B.83
1876470000	LSF-SMT 5.08/02/90 3.5SN BK RL	B.79
1876480000	LSF-SMT 5.08/02/90 1.5SN BK RL	B.79
1876490000	LSF-SMT 5.08/02/180 3.5SN BK RL	B.83
1876500000	LSF-SMT 5.08/02/180 1.5SN BK RL	B.83
1876510000	LSF-SMT 5.00/03/90 3.5SN BK RL	B.73
1876520000	LSF-SMT 5.00/08/90 3.5SN BK RL	B.73
1876530000	LSF-SMT 5.00/04/90 3.5SN BK RL	B.73
1876540000	LSF-SMT 5.00/07/90 3.5SN BK RL	B.73
1876550000	LSF-SMT 5.00/05/90 3.5SN BK RL	B.73
1876560000	LSF-SMT 5.00/06/90 3.5SN BK RL	B.73
1876850000	SL-SMT 5.08/02/270FL 3.2SN BK BX	C.182
1876860000	SL-SMT 5.08/03/270FL 3.2SN BK BX	C.182
1876870000	SL-SMT 5.08/04/270FL 3.2SN BK BX	C.182
1876880000	SL-SMT 5.08/05/270FL 3.2SN BK BX	C.182
1876890000	SL-SMT 5.08/06/270FL 3.2SN BK BX	C.182
1876900000	SL-SMT 5.08/07/270FL 3.2SN BK BX	C.182
1876910000	SL-SMT 5.08/08/270FL 3.2SN BK BX	C.182
1876920000	SL-SMT 5.08/02/270FH 1.5SN BK RL	C.183
1876930000	SL-SMT 5.08/03/270FH 1.5SN BK RL	C.183
1876940000	SL-SMT 5.08/04/270FH 1.5SN BK RL	C.183
1876950000	SL-SMT 5.08/05/270FH 1.5SN BK RL	C.183
1876960000	SL-SMT 5.08/06/270FH 1.5SN BK RL	C.183
1876970000	SL-SMT 5.08/07/270FH 1.5SN BK RL	C.183
1876980000	SL-SMT 5.08/08/270FH 1.5SN BK RL	C.183
1876990000	SL-SMT 5.08/02/270FL 1.5SN BK RL	C.183
1877000000	SL-SMT 5.08/03/270FL 1.5SN BK RL	C.183
1877010000	SL-SMT 5.08/03/270GH 1.5SN BK BX	C.181
1877020000	SL-SMT 5.08/04/270FL 1.5SN BK RL	C.183
1877030000	SL-SMT 5.08/04/270GH 1.5SN BK BX	C.181
1877040000	SL-SMT 5.08/05/270GH 1.5SN BK BX	C.181
1877050000	SL-SMT 5.08/06/270GH 1.5SN BK BX	C.181
1877060000	SL-SMT 5.08/07/270GH 1.5SN BK BX	C.181
1877070000	SL-SMT 5.08/05/270FL 1.5SN BK RL	C.183
1877080000	SL-SMT 5.08/08/270GH 1.5SN BK BX	C.181
1877090000	SL-SMT 5.08/06/270FL 1.5SN BK RL	C.183
1877100000	SL-SMT 5.08/02/270GL 1.5SN BK BX	C.180
1877110000	SL-SMT 5.08/07/270FL 1.5SN BK RL	C.183
1877120000	SL-SMT 5.08/08/270FL 1.5SN BK RL	C.183
1877130000	SL-SMT 5.08/03/270GL 1.5SN BK BX	C.180
1877140000	SL-SMT 5.08/04/270GL 1.5SN BK BX	C.180
1877150000	SL-SMT 5.08/05/270GL 1.5SN BK BX	C.180
1877160000	SL-SMT 5.08/06/270GL 1.5SN BK BX	C.180
1877170000	SL-SMT 5.08/07/270GL 1.5SN BK BX	C.180
1877180000	SL-SMT 5.08/08/270GL 1.5SN BK BX	C.180
1877190000	SL-SMT 5.08/02/270FH 3.2SN BK BX	C.183
1877210000	SL-SMT 5.08/03/270FH 3.2SN BK BX	C.183
1877330000	SL-SMT 5.08/04/270FH 3.2SN BK BX	C.183
1877370000	SL-SMT 5.08/02/270GH 3.2SN BK BX	C.181
1877380000	SL-SMT 5.08/03/270GH 3.2SN BK BX	C.181
1877390000	SL-SMT 5.08/04/270GH 3.2SN BK BX	C.181
1877400000	SL-SMT 5.08/05/270GH 3.2SN BK BX	C.181
1877410000	SL-SMT 5.08/06/270GH 3.2SN BK BX	C.181
1877420000	SL-SMT 5.08/07/270GH 3.2SN BK BX	C.181
1877430000	SL-SMT 5.08/05/270FH 3.2SN BK BX	C.183
1877450000	SL-SMT 5.08/08/270GH 3.2SN BK BX	C.181
1877460000	SL-SMT 5.08/06/270FH 3.2SN BK BX	C.183
1877470000	SL-SMT 5.08/02/270GL 3.2SN BK BX	C.180
1877480000	SL-SMT 5.08/07/270FH 3.2SN BK BX	C.183
1877490000	SL-SMT 5.08/03/270GL 3.2SN BK BX	C.180
1877500000	SL-SMT 5.08/08/270FH 3.2SN BK BX	C.183
1877510000	SL-SMT 5.08/04/270GL 3.2SN BK BX	C.180
1877520000	SL-SMT 5.08/05/270GL 3.2SN BK BX	C.180
1877530000	SL-SMT 5.08/06/270GL 3.2SN BK BX	C.180
1877540000	SL-SMT 5.08/07/270GL 3.2SN BK BX	C.180
1877550000	SL-SMT 5.08/08/270GL 3.2SN BK BX	C.180
1877560000	SL-SMT 5.08/02/270GH 1.5SN BK RL	C.181
1877600000	SL-SMT 5.08/03/270GH 1.5SN BK RL	C.181
1877610000	SL-SMT 5.08/04/270GH 1.5SN BK RL	C.181
1877620000	SL-SMT 5.08/05/270GH 1.5SN BK RL	C.181
1877630000	SL-SMT 5.08/06/270GH 1.5SN BK RL	C.181
1877640000	SL-SMT 5.08/07/270GH 1.5SN BK RL	C.181
1877650000	SL-SMT 5.08/08/270GH 1.5SN BK RL	C.181
1877680000	MF 5/7.5 MC NEUTRAL	I.17
1877740000	SL-SMT 5.08/02/270GL 1.5SN BK RL	C.181
1877750000	SL-SMT 5.08/03/270GL 1.5SN BK RL	C.181
1877760000	SL-SMT 5.08/04/270GL 1.5SN BK RL	C.181
1877770000	SL-SMT 5.08/05/270GL 1.5SN BK RL	C.181
1877780000	SL-SMT 5.08/06/270GL 1.5SN BK RL	C.181
1877790000	SL-SMT 5.08/07/270GL 1.5SN BK RL	C.181
1877800000	SL-SMT 5.08/08/270GL 1.5SN BK RL	C.181
1877960000	SL-SMT 5.08/02/270FH 1.5SN BK BX	C.183
1877970000	SL-SMT 5.08/03/270FH 1.5SN BK BX	C.183
1877980000	SL-SMT 5.08/04/270FH 1.5SN BK BX	C.183
1877990000	SL-SMT 5.08/05/270FH 1.5SN BK BX	C.183
1878000000	SL-SMT 5.08/06/270FH 1.5SN BK BX	C.183
1878010000	SL-SMT 5.08/07/270FH 1.5SN BK BX	C.183
1878020000	SL-SMT 5.08/08/270FH 1.5SN BK BX	C.183
1878090000	SL-SMT 5.08/02/270FL 1.5SN BK BX	C.182
1878110000	SL-SMT 5.08/03/270FL 1.5SN BK BX	C.182
1878120000	SL-SMT 5.08/04/270FL 1.5SN BK BX	C.182
1878130000	SL-SMT 5.08/05/270FL 1.5SN BK BX	C.182
1878140000	SL-SMT 5.08/06/270FL 1.5SN BK BX	C.182
1878150000	SL-SMT 5.08/07/270FL 1.5SN BK BX	C.182
1878160000	SL-SMT 5.08/08/270FL 1.5SN BK BX	C.182
1878520000	LSF-SMT 5.08/04/90 1.5SN BK RL	B.79
1879920000	SL-SMT 5.08/13/180F 1.5SN BK BX	C.176

1880000000

1880940000	SL-SMT 5.08/09/180F 1.5SN BK BX	C.176
1880950000	SL-SMT 5.08/10/180F 1.5SN BK BX	C.176
1880960000	SL-SMT 5.08/11/180F 1.5SN BK BX	C.176
1880970000	SL-SMT 5.08/12/180F 1.5SN BK BX	C.176
1881310000	SLDV-THR 5.08/28/180F 1.5SN BK BX	C.186
1881320000	SLDV-THR 5.08/30/180F 1.5SN BK BX	C.186
1881330000	SLDV-THR 5.08/32/180F 1.5SN BK BX	C.186
1881340000	SLDV-THR 5.00/20/180F 3.2SN BK BX	C.143
1881350000	SLDV-THR 5.08/34/180F 1.5SN BK BX	C.186
1881360000	SLDV-THR 5.08/36/180F 1.5SN BK BX	C.186
1881370000	SLDV-THR 5.00/24/180F 3.2SN BK BX	C.143
1881380000	SLDV-THR 5.08/38/180F 1.5SN BK BX	C.186
1881390000	SLDV-THR 5.00/28/180F 3.2SN BK BX	C.143
1881400000	SLDV-THR 5.00/32/180F 3.2SN BK BX	C.143
1881410000	SLDV-THR 5.08/40/180F 1.5SN BK BX	C.186
1881420000	SLDV-THR 5.00/34/180F 3.2SN BK BX	C.143
1881430000	SLDV-THR 5.08/42/180F 1.5SN BK BX	C.186
1881440000	SLDV-THR 5.08/44/180F 1.5SN BK BX	C.186
1881450000	SLDV-THR 5.08/46/180F 1.5SN BK BX	C.186
1881460000	SLDV-THR 5.08/48/180F 1.5SN BK BX	C.186
1881470000	SLDV-THR 5.00/36/180F 3.2SN BK BX	C.143
1881480000	SLDV-THR 5.08/28/180FLF 1.5SN BK BX	C.187
1881490000	SLDV-THR 5.00/40/180F 3.2SN BK BX	C.143
1881500000	SLDV-THR 5.08/30/180FLF 1.5SN BK BX	C.187
1881510000	SLDV-THR 5.08/32/180FLF 1.5SN BK BX	C.187
1881520000	SLDV-THR 5.08/34/180FLF 1.5SN BK BX	C.187
1881530000	SLDV-THR 5.08/36/180FLF 1.5SN BK BX	C.187
1881540000	SLDV-THR 5.08/38/180FLF 1.5SN BK BX	C.187
1881550000	SLDV-THR 5.08/40/180FLF 1.5SN BK BX	C.187
1881560000	SLDV-THR 5.08/42/180FLF 1.5SN BK BX	C.187
1881570000	SLDV-THR 5.08/44/180FLF 1.5SN BK BX	C.187
1881580000	SLDV-THR 5.08/46/180FLF 1.5SN BK BX	C.187
1881590000	SLDV-THR 5.08/48/180FLF 1.5SN BK BX	C.187
1882690000	SLDV-THR 5.00/04/180G 3.2SN BK BX	C.142
1882700000	SLDV-THR 5.00/06/180G 3.2SN BK BX	C.142
1882710000	SLDV-THR 5.00/10/180G 3.2SN BK BX	C.142
1882720000	SLDV-THR 5.00/12/180G 3.2SN BK BX	C.142
1882730000	SLDV-THR 5.00/14/180G 3.2SN BK BX	C.142
1882740000	SLDV-THR 5.00/18/180G 3.2SN BK BX	C.142
1882750000	SLDV-THR 5.00/22/180G 3.2SN BK BX	C.142
1882760000	SLDV-THR 5.00/24/180G 3.2SN BK BX	C.142
1882770000	SLDV-THR 5.00/26/180G 3.2SN BK BX	C.142
1882780000	SLDV-THR 5.00/28/180G 3.2SN BK BX	C.142
1882790000	SLDV-THR 5.00/30/180G 3.2SN BK BX	C.142
1882800000	SLDV-THR 5.00/32/180G 3.2SN BK BX	C.142
1882810000	SLDV-THR 5.00/34/180G 3.2SN BK BX	C.142
1882820000	SLDV-THR 5.00/36/180G 3.2SN BK BX	C.142
1882830000	SLDV-THR 5.00/38/180G 3.2SN BK BX	C.142
1882840000	SLDV-THR 5.00/42/180G 3.2SN BK BX	C.142
1882850000	SLDV-THR 5.00/44/180G 3.2SN BK BX	C.142
1882860000	SLDV-THR 5.00/46/180G 3.2SN BK BX	C.142
1882870000	SLDV-THR 5.00/48/180G 3.2SN BK BX	C.142
1882930000	SLDV-THR 5.00/04/180F 3.2SN BK BX	C.143
1882940000	SLDV-THR 5.00/06/180F 3.2SN BK BX	C.143
1882950000	SLDV-THR 5.00/08/180F 3.2SN BK BX	C.143
1882960000	SLDV-THR 5.00/10/180F 3.2SN BK BX	C.143
1882970000	SLDV-THR 5.00/12/180F 3.2SN BK BX	C.143
1882980000	SLDV-THR 5.00/14/180F 3.2SN BK BX	C.143
1882990000	SLDV-THR 5.00/16/180F 3.2SN BK BX	C.143
1883000000	SLDV-THR 5.00/18/180F 3.2SN BK BX	C.143
1883010000	SLDV-THR 5.00/22/180F 3.2SN BK BX	C.143
1883020000	SLDV-THR 5.00/26/180F 3.2SN BK BX	C.143
1883030000	SLDV-THR 5.00/30/180F 3.2SN BK BX	C.143
1883040000	SLDV-THR 5.00/38/180F 3.2SN BK BX	C.143
1883050000	SLDV-THR 5.00/42/180F 3.2SN BK BX	C.143
1883060000	SLDV-THR 5.00/44/180F 3.2SN BK BX	C.143
1883070000	SLDV-THR 5.00/46/180F 3.2SN BK BX	C.143
1883080000	SLDV-THR 5.00/48/180F 3.2SN BK BX	C.143
1883100000	SLDV-THR 5.00/04/180FLF 3.2SN BK BX	C.143
1883110000	SLDV-THR 5.00/06/180FLF 3.2SN BK BX	C.143
1883120000	SLDV-THR 5.00/08/180FLF 3.2SN BK BX	C.143
1883130000	SLDV-THR 5.00/10/180FLF 3.2SN BK BX	C.143
1883140000	SLDV-THR 5.00/12/180FLF 3.2SN BK BX	C.143
1883150000	SLDV-THR 5.00/14/180FLF 3.2SN BK BX	C.143
1883160000	SLDV-THR 5.00/16/180FLF 3.2SN BK BX	C.143
1883170000	SLDV-THR 5.00/18/180FLF 3.2SN BK BX	C.143
1883180000	SLDV-THR 5.00/20/180FLF 3.2SN BK BX	C.143
1883190000	SLDV-THR 5.00/22/180FLF 3.2SN BK BX	C.143
1883200000	SLDV-THR 5.00/24/180FLF 3.2SN BK BX	C.143
1883230000	SLDV-THR 5.00/26/180FLF 3.2SN BK BX	C.143
1883240000	SLDV-THR 5.00/28/180FLF 3.2SN BK BX	C.143
1883250000	SLDV-THR 5.00/30/180FLF 3.2SN BK BX	C.143
1883270000	SLDV-THR 5.00/32/180FLF 3.2SN BK BX	C.143
1883280000	SLDV-THR 5.00/34/180FLF 3.2SN BK BX	C.143
1883290000	SLDV-THR 5.00/36/180FLF 3.2SN BK BX	C.143
1883300000	SLDV-THR 5.00/38/180FLF 3.2SN BK BX	C.143
1883310000	SLDV-THR 5.00/40/180FLF 3.2SN BK BX	C.143
1883320000	SLDV-THR 5.00/42/180FLF 3.2SN BK BX	C.143
1883330000	SLDV-THR 5.00/44/180FLF 3.2SN BK BX	C.143
1883340000	SLDV-THR 5.00/46/180FLF 3.2SN BK BX	C.143
1883350000	SLDV-THR 5.00/48/180FLF 3.2SN BK BX	C.143
1884340000	LSF-SMT 5.00/02/135 3.5SN BK TU	B.74
1884370000	LSF-SMT 5.00/03/135 3.5SN BK TU	B.74
1884380000	LSF-SMT 5.00/04/135 3.5SN BK TU	B.74
1884390000	LSF-SMT 5.00/05/135 3.5SN BK TU	B.74
1884400000	LSF-SMT 5.00/06/135 3.5SN BK TU	B.74
1884410000	LSF-SMT 5.00/07/135 3.5SN BK TU	B.74
1884420000	LSF-SMT 5.00/08/135 3.5SN BK TU	B.74
1884430000	LSF-SMT 5.00/09/135 3.5SN BK TU	B.74
1884440000	LSF-SMT 5.00/10/135 3.5SN BK TU	B.74
1884450000	LSF-SMT 5.00/11/135 3.5SN BK TU	B.74
1884460000	LSF-SMT 5.00/12/135 3.5SN BK TU	B.74
1884470000	LSF-SMT 5.00/13/135 3.5SN BK TU	B.74
1884500000	LSF-SMT 5.00/14/135 3.5SN BK TU	B.74
1884510000	LSF-SMT 5.00/15/135 3.5SN BK TU	B.74

Order No.	Type	Page
1884520000	LSF-SMT 5.00/16/135 3.5SN BK TU	B.74
1884530000	LSF-SMT 5.00/02/135 1.5SN BK TU	B.74
1884540000	LSF-SMT 5.00/03/135 1.5SN BK TU	B.74
1884550000	LSF-SMT 5.00/04/135 1.5SN BK TU	B.74
1884560000	LSF-SMT 5.00/05/135 1.5SN BK TU	B.74
1884570000	LSF-SMT 5.00/06/135 1.5SN BK TU	B.74
1884580000	LSF-SMT 5.00/07/135 1.5SN BK TU	B.74
1884590000	LSF-SMT 5.00/08/135 1.5SN BK TU	B.74
1884600000	LSF-SMT 5.00/09/135 1.5SN BK TU	B.74
1884660000	LSF-SMT 5.00/10/135 1.5SN BK TU	B.74
1884670000	LSF-SMT 5.00/11/135 1.5SN BK TU	B.74
1884680000	LSF-SMT 5.00/12/135 1.5SN BK TU	B.74
1884690000	LSF-SMT 5.00/13/135 1.5SN BK TU	B.74
1884700000	LSF-SMT 5.00/14/135 1.5SN BK TU	B.74
1884710000	LSF-SMT 5.00/15/135 1.5SN BK TU	B.74
1884720000	LSF-SMT 5.00/16/135 1.5SN BK TU	B.74
1884730000	LSF-SMT 5.08/02/135 1.5SN BK TU	B.80
1884740000	LSF-SMT 5.08/03/135 1.5SN BK TU	B.80
1884750000	LSF-SMT 5.08/04/135 1.5SN BK TU	B.80
1884760000	LSF-SMT 5.08/05/135 1.5SN BK TU	B.80
1884770000	LSF-SMT 5.08/06/135 1.5SN BK TU	B.80
1884780000	LSF-SMT 5.08/07/135 1.5SN BK TU	B.80
1884790000	LSF-SMT 5.08/08/135 1.5SN BK TU	B.80
1884800000	LSF-SMT 5.08/09/135 1.5SN BK TU	B.80
1884810000	LSF-SMT 5.08/10/135 1.5SN BK TU	B.80
1884820000	LSF-SMT 5.08/11/135 1.5SN BK TU	B.80
1884830000	LSF-SMT 5.08/12/135 1.5SN BK TU	B.80
1884840000	LSF-SMT 5.08/13/135 1.5SN BK TU	B.80
1884850000	LSF-SMT 5.08/14/135 1.5SN BK TU	B.80
1884860000	LSF-SMT 5.08/15/135 1.5SN BK TU	B.80
1884870000	LSF-SMT 5.08/16/135 1.5SN BK TU	B.80
1884880000	LSF-SMT 7.50/02/135 1.5SN BK TU	B.86
1884890000	LSF-SMT 7.50/03/135 1.5SN BK TU	B.86
1884900000	LSF-SMT 7.50/04/135 1.5SN BK TU	B.86
1884910000	LSF-SMT 7.50/05/135 1.5SN BK TU	B.86
1884920000	LSF-SMT 7.50/06/135 1.5SN BK TU	B.86
1884930000	LSF-SMT 7.50/07/135 1.5SN BK TU	B.86
1884940000	LSF-SMT 7.50/08/135 1.5SN BK TU	B.86
1884950000	LSF-SMT 7.62/02/135 1.5SN BK TU	B.92
1884960000	LSF-SMT 7.62/03/135 1.5SN BK TU	B.92
1884970000	LSF-SMT 7.62/04/135 1.5SN BK TU	B.92
1884980000	LSF-SMT 7.62/05/135 1.5SN BK TU	B.92
1884990000	LSF-SMT 7.62/06/135 1.5SN BK TU	B.92
1885000000	LSF-SMT 7.62/07/135 1.5SN BK TU	B.92
1885010000	LSF-SMT 7.62/08/135 1.5SN BK TU	B.92
1885020000	LSF-SMT 5.08/02/135 3.5SN BK TU	B.80
1885030000	LSF-SMT 5.08/03/135 3.5SN BK TU	B.80
1885040000	LSF-SMT 5.08/04/135 3.5SN BK TU	B.80
1885050000	LSF-SMT 5.08/05/135 3.5SN BK TU	B.80
1885060000	LSF-SMT 5.08/06/135 3.5SN BK TU	B.80
1885070000	LSF-SMT 5.08/07/135 3.5SN BK TU	B.80
1885080000	LSF-SMT 5.08/08/135 3.5SN BK TU	B.80
1885090000	LSF-SMT 5.08/09/135 3.5SN BK TU	B.80
1885100000	LSF-SMT 5.08/10/135 3.5SN BK TU	B.80
1885110000	LSF-SMT 5.08/11/135 3.5SN BK TU	B.80
1885120000	LSF-SMT 5.08/12/135 3.5SN BK TU	B.80
1885130000	LSF-SMT 5.08/13/135 3.5SN BK TU	B.80
1885140000	LSF-SMT 5.08/14/135 3.5SN BK TU	B.80
1885150000	LSF-SMT 5.08/15/135 3.5SN BK TU	B.80
1885160000	LSF-SMT 5.08/16/135 3.5SN BK TU	B.80
1885180000	LSF-SMT 3.50/02/135 1.5SN BK TU	B.62
1885190000	LSF-SMT 3.50/03/135 1.5SN BK TU	B.62
1885200000	LSF-SMT 3.50/04/135 1.5SN BK TU	B.62
1885210000	LSF-SMT 3.50/05/135 1.5SN BK TU	B.62
1885220000	LSF-SMT 3.50/06/135 1.5SN BK TU	B.62
1885230000	LSF-SMT 3.50/07/135 1.5SN BK TU	B.62
1885240000	LSF-SMT 3.50/08/135 1.5SN BK TU	B.62
1885250000	LSF-SMT 3.50/09/135 1.5SN BK TU	B.62
1885260000	LSF-SMT 3.50/10/135 1.5SN BK TU	B.62
1885270000	LSF-SMT 3.50/11/135 1.5SN BK TU	B.62
1885280000	LSF-SMT 3.50/12/135 1.5SN BK TU	B.62
1885290000	LSF-SMT 3.50/13/135 1.5SN BK TU	B.62
1885300000	LSF-SMT 3.50/14/135 1.5SN BK TU	B.62
1885310000	LSF-SMT 3.50/15/135 1.5SN BK TU	B.62
1885320000	LSF-SMT 3.50/16/135 1.5SN BK TU	B.62
1885330000	LSF-SMT 3.50/17/135 1.5SN BK TU	B.62
1885340000	LSF-SMT 3.50/18/135 1.5SN BK TU	B.62
1885350000	LSF-SMT 3.50/19/135 1.5SN BK TU	B.62
1885360000	LSF-SMT 3.50/20/135 1.5SN BK TU	B.62
1885370000	LSF-SMT 3.50/21/135 1.5SN BK TU	B.62
1885380000	LSF-SMT 3.50/22/135 1.5SN BK TU	B.62
1885390000	LSF-SMT 3.50/23/135 1.5SN BK TU	B.62
1885400000	LSF-SMT 3.50/24/135 1.5SN BK TU	B.62
1885410000	LSF-SMT 3.81/02/135 1.5SN BK TU	B.68
1885420000	LSF-SMT 3.81/03/135 1.5SN BK TU	B.68
1885430000	LSF-SMT 3.81/04/135 1.5SN BK TU	B.68
1885440000	LSF-SMT 3.81/05/135 1.5SN BK TU	B.68
1885450000	LSF-SMT 3.81/06/135 1.5SN BK TU	B.68
1885460000	LSF-SMT 3.81/07/135 1.5SN BK TU	B.68
1885470000	LSF-SMT 3.81/08/135 1.5SN BK TU	B.68
1885480000	LSF-SMT 3.81/09/135 1.5SN BK TU	B.68
1885490000	LSF-SMT 3.81/10/135 1.5SN BK TU	B.68
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1885530000	LSF-SMT 3.81/13/135 1.5SN BK TU	B.68
1885540000	LSF-SMT 3.81/14/135 1.5SN BK TU	B.68
1885550000	LSF-SMT 3.81/15/135 1.5SN BK TU	B.68
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1885590000	LSF-SMT 3.81/19/135 1.5SN BK TU	B.68
1885600000	LSF-SMT 3.81/20/135 1.5SN BK TU	B.68
1885610000	LSF-SMT 3.81/21/135 1.5SN BK TU	B.68
1885620000	LSF-SMT 3.81/22/135 1.5SN BK TU	B.68
1885630000	LSF-SMT 3.81/23/135 1.5SN BK TU	B.68
1885640000	LSF-SMT 3.81/24/135 1.5SN BK TU	B.68
1885650000	LSF-SMT 3.50/02/135 3.5SN BK TU	B.62
1885660000	LSF-SMT 3.50/03/135 3.5SN BK TU	B.62
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1885730000	LSF-SMT 3.50/10/135 3.5SN BK TU	B.62
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1885750000	LSF-SMT 3.50/12/135 3.5SN BK TU	B.62
1885760000	LSF-SMT 3.50/13/135 3.5SN BK TU	B.62
1885770000	LSF-SMT 3.50/14/135 3.5SN BK TU	B.62
1885780000	LSF-SMT 3.50/15/135 3.5SN BK TU	B.62
1885790000	LSF-SMT 3.50/16/135 3.5SN BK TU	B.62
1885800000	LSF-SMT 3.50/17/135 3.5SN BK TU	B.62
1885810000	LSF-SMT 3.50/18/135 3.5SN BK TU	B.62
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1885860000	LSF-SMT 3.50/23/135 3.5SN BK TU	B.62
1885870000	LSF-SMT 3.50/24/135 3.5SN BK TU	B.62
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1886010000	LSF-SMT 3.81/15/135 3.5SN BK TU	B.68
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1886030000	LSF-SMT 3.81/17/135 3.5SN BK TU	B.68
1886040000	LSF-SMT 3.81/18/135 3.5SN BK TU	B.68
1886050000	LSF-SMT 3.81/19/135 3.5SN BK TU	B.68
1886060000	LSF-SMT 3.81/20/135 3.5SN BK TU	B.68
1886070000	LSF-SMT 3.81/21/135 3.5SN BK TU	B.68
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1886120000	LSF-SMT 7.50/03/135 3.5SN BK TU	B.86
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1886140000	LSF-SMT 7.50/05/135 3.5SN BK TU	B.86
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1886160000	LSF-SMT 7.50/07/135 3.5SN BK TU	B.86
1886170000	LSF-SMT 7.50/08/135 3.5SN BK TU	B.86
1886180000	LSF-SMT 7.62/02/135 3.5SN BK TU	B.92
1886190000	LSF-SMT 7.62/03/135 3.5SN BK TU	B.92
1886200000	LSF-SMT 7.62/04/135 3.5SN BK TU	B.92
1886210000	LSF-SMT 7.62/05/135 3.5SN BK TU	B.92
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1886230000	LSF-SMT 7.62/07/135 3.5SN BK TU	B.92
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1887120000	LSF-SMT 7.62/03/135 1.5SN BK RL	B.93
1887130000	LSF-SMT 7.62/04/135 1.5SN BK RL	B.93
1887140000	LSF-SMT 7.62/05/135 1.5SN BK RL	B.93
1887150000	LSF-SMT 7.62/06/135 1.5SN BK RL	B.93
1887160000	LSF-SMT 7.62/02/135 3.5SN BK RL	B.93
1887170000	LSF-SMT 7.62/03/135 3.5SN BK RL	B.93
1887180000	LSF-SMT 7.62/04/135 3.5SN BK RL	B.93
1887190000	LSF-SMT 7.62/05/135 3.5SN BK RL	B.93
1887200000	LSF-SMT 7.62/06/135 3.5SN BK RL	B.93
1887340000	LSF-SMT 3.50/02/135 3.5SN BK RL	B.63
1887350000	LSF-SMT 3.50/03/135 3.5SN BK RL	B.63
1887360000	LSF-SMT 3.50/04/135 3.5SN BK RL	B.63
1887460000	LSF-SMT 3.50/05/135 3.5SN BK RL	B.63
1887470000	LSF-SMT 3.50/06/135 3.5SN BK RL	B.63
1887480000	LSF-SMT 3.50/07/135 3.5SN BK RL	B.63
1887490000	LSF-SMT 3.50/08/135 3.5SN BK RL	B.63
1887500000	LSF-SMT 3.50/09/135 3.5SN BK RL	B.63
1887510000	LSF-SMT 3.50/10/135 3.5SN BK RL	B.63
1887520000	LSF-SMT 3.50/11/135 3.5SN BK RL	B.63
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1887580000	LSF-SMT 3.50/04/135 1.5SN BK RL	B.63
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1887650000	LSF-SMT 3.50/07/135 1.5SN BK RL	B.63
1887660000	LSF-SMT 3.50/08/135 1.5SN BK RL	B.63
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1887690000	LSF-SMT 3.50/11/135 1.5SN BK RL	B.63
1887700000	LSF-SMT 3.50/12/135 1.5SN BK RL	B.63
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1888330000	LSF-SMT 3.81/03/135 3.5SN BK RL	B.69
1888340000	LSF-SMT 3.81/04/135 3.5SN BK RL	B.69
1888380000	LSF-SMT 3.81/05/135 3.5SN BK RL	B.69
1888390000	LSF-SMT 3.81/06/135 3.5SN BK RL	B.69
1888400000	LSF-SMT 3.81/07/135 3.5SN BK RL	B.69
1888410000	LSF-SMT 3.81/08/135 3.5SN BK RL	B.69
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1888430000	LSF-SMT 3.81/10/135 3.5SN BK RL	B.69
1888440000	LSF-SMT 3.81/11/135 3.5SN BK RL	B.69
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1888470000	LSF-SMT 3.81/04/135 1.5SN BK RL	B.69
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1888600000	LSF-SMT 5.00/05/135 1.5SN BK RL	B.75
1888610000	LSF-SMT 5.00/06/135 1.5SN BK RL	B.75
1888620000	LSF-SMT 5.00/07/135 1.5SN BK RL	B.75
1888630000	LSF-SMT 5.00/08/135 1.5SN BK RL	B.75
1888640000	LSF-SMT 5.00/02/135 3.5SN BK RL	B.75
1888650000	LSF-SMT 5.00/03/135 3.5SN BK RL	B.75
1888660000	LSF-SMT 5.00/04/135 3.5SN BK RL	B.75
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1888680000	LSF-SMT 5.00/06/135 3.5SN BK RL	B.75
1888690000	LSF-SMT 5.00/07/135 3.5SN BK RL	B.75
1888700000	LSF-SMT 5.00/08/135 3.5SN BK RL	B.75
1888710000	LSF-SMT 5.08/02/135 1.5SN BK RL	B.81
1888720000	LSF-SMT 5.08/03/135 1.5SN BK RL	B.81
1888730000	LSF-SMT 5.08/04/135 1.5SN BK RL	B.81
1888740000	LSF-SMT 5.08/05/135 1.5SN BK RL	B.81
1888750000	LSF-SMT 5.08/06/135 1.5SN BK RL	B.81
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1888780000	LSF-SMT 5.08/02/135 3.5SN BK RL	B.81
1888790000	LSF-SMT 5.08/03/135 3.5SN BK RL	B.81
1888810000	LSF-SMT 5.08/04/135 3.5SN BK RL	B.81
1888830000	LSF-SMT 5.08/05/135 3.5SN BK RL	B.81
1888840000	LSF-SMT 5.08/06/135 3.5SN BK RL	B.81
1888870000	LSF-SMT 5.08/07/135 3.5SN BK RL	B.81
1888880000	LSF-SMT 5.08/08/135 3.5SN BK RL	B.81
1888890000	LSF-SMT 7.50/02/135 1.5SN BK RL	B.87
1888910000	LSF-SMT 7.50/03/135 1.5SN BK RL	B.87
1888930000	LSF-SMT 7.50/04/135 1.5SN BK RL	B.87
1888940000	LSF-SMT 7.50/05/135 1.5SN BK RL	B.87
1888950000	LSF-SMT 7.50/06/135 1.5SN BK RL	B.87
1888970000	LSF-SMT 7.50/02/135 3.5SN BK RL	B.87
1888990000	LSF-SMT 7.50/03/135 3.5SN BK RL	B.87
1889000000	LSF-SMT 7.50/04/135 3.5SN BK RL	B.87
1889020000	LSF-SMT 7.50/05/135 3.5SN BK RL	B.87
1889030000	LSF-SMT 7.50/06/135 3.5SN BK RL	B.87
1889200000	SLDV-THR 5.08/28/180FLF 3.2SN BK BX	C.187
1889210000	SLDV-THR 5.08/30/180FLF 3.2SN BK BX	C.187
1889220000	SLDV-THR 5.08/34/180FLF 3.2SN BK BX	C.187
1889270000	SLDV-THR 5.08/36/180FLF 3.2SN BK BX	C.187
1889280000	SLDV-THR 5.08/38/180FLF 3.2SN BK BX	C.187
1889290000	SLDV-THR 5.08/40/180FLF 3.2SN BK BX	C.187
1889300000	SLDV-THR 5.08/42/180FLF 3.2SN BK BX	C.187
1889310000	SLDV-THR 5.08/44/180FLF 3.2SN BK BX	C.187
1889320000	SLDV-THR 5.08/46/180FLF 3.2SN BK BX	C.187
1889330000	SLDV-THR 5.08/48/180FLF 3.2SN BK BX	C.187
1889340000	SLDV-THR 5.08/28/180F 3.2SN BK BX	C.186
1889350000	SLDV-THR 5.08/30/180F 3.2SN BK BX	C.186
1889360000	SLDV-THR 5.08/34/180F 3.2SN BK BX	C.186
1889370000	SLDV-THR 5.08/36/180F 3.2SN BK BX	C.186
1889380000	SLDV-THR 5.08/38/180F 3.2SN BK BX	C.186
1889390000	SLDV-THR 5.08/40/180F 3.2SN BK BX	C.186
1889400000	SLDV-THR 5.08/42/180F 3.2SN BK BX	C.186
1889410000	SLDV-THR 5.08/44/180F 3.2SN BK BX	C.186
1889420000	SLDV-THR 5.08/46/180F 3.2SN BK BX	C.186
1889430000	SLDV-THR 5.08/48/180F 3.2SN BK BX	C.186

1890000000

1890220000	BLT 5.08/02/180LR SN OR BX	C.227
1890230000	BLT 5.08/03/180LR SN OR BX	C.227
1890240000	BLT 5.08/04/180LR SN OR BX	C.227
1890250000	BLT 5.08/05/180LR SN OR BX	C.227
1890260000	BLT 5.08/06/180LR SN OR BX	C.227
1890270000	BLT 5.08/07/180LR SN OR BX	C.227
1890280000	BLT 5.08/08/180LR SN OR BX	C.227
1890290000	BLT 5.08/09/180LR SN OR BX	C.227
1890300000	BLT 5.08/10/180LR SN OR BX	C.227
1890310000	BLT 5.08/11/180LR SN OR BX	C.227
1890320000	BLT 5.08/12/180LR SN OR BX	C.227
1890330000	BLT 5.08/13/180LR SN OR BX	C.227
1890340000	BLT 5.08/14/180LR SN OR BX	C.227
1890350000	BLT 5.08/15/180LR SN OR BX	C.227
1890360000	BLT 5.08/16/180LR SN OR BX	C.227
1890370000	BLT 5.08/17/180LR SN OR BX	C.227
1890380000	BLT 5.08/18/180LR SN OR BX	C.227
1890390000	BLT 5.08/19/180LR SN OR BX	C.227

Order No.	Type	Page
1890400000	BLT 5.08/20/180LR SN OR BX	C.227
1890410000	BLT 5.08/21/180LR SN OR BX	C.227
1890420000	BLT 5.08/22/180LR SN OR BX	C.227
1890430000	BLT 5.08/23/180LR SN OR BX	C.227
1890440000	BLT 5.08/24/180LR SN OR BX	C.227
1890600000	SLD 3.50V/06/90G 3.2SN OR BX	C.40
1890610000	SLD 3.50V/14/90G 3.2SN OR BX	C.40
1890620000	SLD 3.50V/18/90G 3.2SN OR BX	C.40
1890630000	SLD 3.50V/26/90G 3.2SN OR BX	C.40
1890640000	SLD 3.50V/30/90G 3.2SN OR BX	C.40
1890650000	SLD 3.50V/34/90G 3.2SN OR BX	C.40
1890660000	SLD 3.50V/38/90G 3.2SN OR BX	C.40
1890670000	SLD 3.50V/42/90G 3.2SN OR BX	C.40
1890680000	SLD 3.50V/46/90G 3.2SN OR BX	C.40
1890790000	SLD 3.50V/06/90F 3.2SN OR BX	C.41
1890800000	SLD 3.50V/10/90F 3.2SN OR BX	C.41
1890810000	SLD 3.50V/14/90F 3.2SN OR BX	C.41
1890820000	SLD 3.50V/18/90F 3.2SN OR BX	C.41
1890830000	SLD 3.50V/26/90F 3.2SN OR BX	C.41
1890840000	SLD 3.50V/30/90F 3.2SN OR BX	C.41
1890850000	SLD 3.50V/34/90F 3.2SN OR BX	C.41
1890860000	SLD 3.50V/38/90F 3.2SN OR BX	C.41
1890870000	SLD 3.50V/42/90F 3.2SN OR BX	C.41
1890880000	SLD 3.50V/46/90F 3.2SN OR BX	C.41
1891060000	SLD 3.50 V/06/180F 3.2 SN OR BX	C.43
1891070000	SLD 3.50 V/10/180F 3.2 SN OR BX	C.43
1891080000	SLD 3.50 V/14/180F 3.2 SN OR BX	C.43
1891090000	SLD 3.50 V/18/180F 3.2 SN OR BX	C.43
1891100000	SLD 3.50 V/22/180F 3.2 SN OR BX	C.43
1891110000	SLD 3.50 V/26/180F 3.2 SN OR BX	C.43
1891120000	SLD 3.50 V/30/180F 3.2 SN OR BX	C.43
1891130000	SLD 3.50 V/34/180F 3.2 SN OR BX	C.43
1891140000	SLD 3.50 V/38/180F 3.2 SN OR BX	C.43
1891150000	SLD 3.50 V/42/180F 3.2 SN OR BX	C.43
1891160000	SLD 3.50 V/46/180F 3.2 SN OR BX	C.43
1891190000	SLD 3.5 V/06/180G 3.2 SN OR	C.42
1891200000	SLD 3.5 V/10/180G 3.2 SN OR	C.42
1891260000	SLD 3.5 V/34/180G 3.2 SN OR	C.42
1891270000	SLD 3.5 V/38/180G 3.2 SN OR	C.42
1891280000	SLD 3.5 V/42/180G 3.2 SN OR	C.42
1891290000	SLD 3.5 V/46/180G 3.2 SN OR	C.42
1894130000	BLT 5.08/02/180LR SN BK BX	C.227
1894140000	BLT 5.08/03/180LR SN BK BX	C.227
1894150000	BLT 5.08/04/180LR SN BK BX	C.227
1894160000	BLT 5.08/05/180LR SN BK BX	C.227
1894170000	BLT 5.08/06/180LR SN BK BX	C.227
1894180000	BLT 5.08/07/180LR SN BK BX	C.227
1894190000	BLT 5.08/08/180LR SN BK BX	C.227
1894200000	BLT 5.08/09/180LR SN BK BX	C.227
1894210000	BLT 5.08/10/180LR SN BK BX	C.227
1894220000	BLT 5.08/11/180LR SN BK BX	C.227
1894230000	BLT 5.08/12/180LR SN BK BX	C.227
1894240000	BLT 5.08/13/180LR SN BK BX	C.227
1894250000	BLT 5.08/14/180LR SN BK BX	C.227
1894260000	BLT 5.08/15/180LR SN BK BX	C.227
1894270000	BLT 5.08/16/180LR SN BK BX	C.227
1894280000	BLT 5.08/17/180LR SN BK BX	C.227
1894290000	BLT 5.08/18/180LR SN BK BX	C.227
1894310000	BLT 5.08/19/180LR SN BK BX	C.227
1894330000	BLT 5.08/20/180LR SN BK BX	C.227
1894340000	BLT 5.08/21/180LR SN BK BX	C.227
1894350000	BLT 5.08/22/180LR SN BK BX	C.227
1894360000	BLT 5.08/23/180LR SN BK BX	C.227
1894370000	BLT 5.08/24/180LR SN BK BX	C.227
1894980000	SLDV-THR 5.00/04/180G 1.5SN BK BX	C.142
1894990000	SLDV-THR 5.00/06/180G 1.5SN BK BX	C.142
1895000000	SLDV-THR 5.00/08/180G 1.5SN BK BX	C.142
1895010000	SLDV-THR 5.00/10/180G 1.5SN BK BX	C.142
1895020000	SLDV-THR 5.00/12/180G 1.5SN BK BX	C.142
1895030000	SLDV-THR 5.00/14/180G 1.5SN BK BX	C.142
1895040000	SLDV-THR 5.00/16/180G 1.5SN BK BX	C.142
1895050000	SLDV-THR 5.00/18/180G 1.5SN BK BX	C.142
1895060000	SLDV-THR 5.00/20/180G 1.5SN BK BX	C.142
1895070000	SLDV-THR 5.00/22/180G 1.5SN BK BX	C.142
1895080000	SLDV-THR 5.00/24/180G 1.5SN BK BX	C.142
1895090000	SLDV-THR 5.00/26/180G 1.5SN BK BX	C.142
1895100000	SLDV-THR 5.00/28/180G 1.5SN BK BX	C.142
1895110000	SLDV-THR 5.00/30/180G 1.5SN BK BX	C.142
1895120000	SLDV-THR 5.00/32/180G 1.5SN BK BX	C.142
1895130000	SLDV-THR 5.00/34/180G 1.5SN BK BX	C.142
1895140000	SLDV-THR 5.00/36/180G 1.5SN BK BX	C.142
1895150000	SLDV-THR 5.00/38/180G 1.5SN BK BX	C.142
1895180000	SLDV-THR 5.00/40/180G 1.5SN BK BX	C.142
1895190000	SLDV-THR 5.00/42/180G 1.5SN BK BX	C.142
1895200000	SLDV-THR 5.00/44/180G 1.5SN BK BX	C.142
1895210000	SLDV-THR 5.00/46/180G 1.5SN BK BX	C.142
1895220000	SLDV-THR 5.00/48/180G 1.5SN BK BX	C.142
1895230000	SLDV-THR 5.00/04/180F 1.5SN BK BX	C.143
1895240000	SLDV-THR 5.00/06/180F 1.5SN BK BX	C.143
1895250000	SLDV-THR 5.00/08/180F 1.5SN BK BX	C.143
1895260000	SLDV-THR 5.00/10/180F 1.5SN BK BX	C.143
1895270000	SLDV-THR 5.00/12/180F 1.5SN BK BX	C.143
1895280000	SLDV-THR 5.00/14/180F 1.5SN BK BX	C.143
1895290000	SLDV-THR 5.00/16/180F 1.5SN BK BX	C.143
1895300000	SLDV-THR 5.00/18/180F 1.5SN BK BX	C.143
1895310000	SLDV-THR 5.00/20/180F 1.5SN BK BX	C.143
1895320000	SLDV-THR 5.00/22/180F 1.5SN BK BX	C.143
1895330000	SLDV-THR 5.00/24/180F 1.5SN BK BX	C.143
1895340000	SLDV-THR 5.00/26/180F 1.5SN BK BX	C.143
1895350000	SLDV-THR 5.00/28/180F 1.5SN BK BX	C.143
1895360000	SLDV-THR 5.00/30/180F 1.5SN BK BX	C.143
1895370000	SLDV-THR 5.00/32/180F 1.5SN BK BX	C.143
1895380000	SLDV-THR 5.00/34/180F 1.5SN BK BX	C.143
1895390000	SLDV-THR 5.00/36/180F 1.5SN BK BX	C.143
1895400000	SLDV-THR 5.00/38/180F 1.5SN BK BX	C.143
1895410000	SLDV-THR 5.00/40/180F 1.5SN BK BX	C.143
1895420000	SLDV-THR 5.00/42/180F 1.5SN BK BX	C.143
1895430000	SLDV-THR 5.00/44/180F 1.5SN BK BX	C.143
1895440000	SLDV-THR 5.00/46/180F 1.5SN BK BX	C.143
1895450000	SLDV-THR 5.00/48/180F 1.5SN BK BX	C.143
1895460000	SLDV-THR 5.00/04/180FLF 1.5SN BK BX	C.143
1895470000	SLDV-THR 5.00/06/180FLF 1.5SN BK BX	C.143
1895480000	SLDV-THR 5.00/08/180FLF 1.5SN BK BX	C.143
1895490000	SLDV-THR 5.00/10/180FLF 1.5SN BK BX	C.143
1895500000	SLDV-THR 5.00/12/180FLF 1.5SN BK BX	C.143
1895510000	SLDV-THR 5.00/14/180FLF 1.5SN BK BX	C.143
1895520000	SLDV-THR 5.00/16/180FLF 1.5SN BK BX	C.143
1895530000	SLDV-THR 5.00/18/180FLF 1.5SN BK BX	C.143
1895540000	SLDV-THR 5.00/20/180FLF 1.5SN BK BX	C.143
1895550000	SLDV-THR 5.00/22/180FLF 1.5SN BK BX	C.143
1895560000	SLDV-THR 5.00/24/180FLF 1.5SN BK BX	C.143
1895570000	SLDV-THR 5.00/26/180FLF 1.5SN BK BX	C.143
1895580000	SLDV-THR 5.00/28/180FLF 1.5SN BK BX	C.143
1895590000	SLDV-THR 5.00/30/180FLF 1.5SN BK BX	C.143
1895600000	SLDV-THR 5.00/32/180FLF 1.5SN BK BX	C.143
1895610000	SLDV-THR 5.00/34/180FLF 1.5SN BK BX	C.143
1895620000	SLDV-THR 5.00/36/180FLF 1.5SN BK BX	C.143
1895630000	SLDV-THR 5.00/38/180FLF 1.5SN BK BX	C.143
1895640000	SLDV-THR 5.00/40/180FLF 1.5SN BK BX	C.143
1895650000	SLDV-THR 5.00/42/180FLF 1.5SN BK BX	C.143
1895660000	SLDV-THR 5.00/44/180FLF 1.5SN BK BX	C.143
1895670000	SLDV-THR 5.00/46/180FLF 1.5SN BK BX	C.143
1895680000	SLDV-THR 5.00/48/180FLF 1.5SN BK BX	C.143
1899380000	BCZ 3.81/11/90 SN BK BX	C.110
1899400000	BCZ 3.81/11/180 SN BK BX	C.106
1899420000	BCZ 3.81/13/90 SN BK BX	C.110
1899440000	BCZ 3.81/13/180 SN BK BX	C.106
1899460000	BCZ 3.81/14/90 SN BK BX	C.110
1899480000	BCZ 3.81/14/180 SN BK BX	C.106
1899500000	BCZ 3.81/15/90 SN BK BX	C.110
1899520000	BCZ 3.81/15/180 SN BK BX	C.106
1899530000	BCZ 3.81/09/180F SN BK BX	C.107
1899540000	BCZ 3.81/09/90F SN BK BX	C.111
1899550000	BCZ 3.81/11/180F SN BK BX	C.107
1899560000	BCZ 3.81/11/90F SN BK BX	C.111
1899570000	BCZ 3.81/13/180F SN BK BX	C.107
1899580000	BCZ 3.81/13/90F SN BK BX	C.111
1899590000	BCZ 3.81/14/180F SN BK BX	C.107
1899600000	BCZ 3.81/14/90F SN BK BX	C.111
1899610000	BCZ 3.81/15/180F SN BK BX	C.107
1899620000	BCZ 3.81/15/90F SN BK BX	C.111

1910000000

1911290000	SLDV-THR 5.00/04/180GLF 3.2SN BK BX	C.143
1911310000	SLDV-THR 5.00/06/180GLF 3.2SN BK BX	C.143
1911320000	SLDV-THR 5.00/08/180GLF 3.2SN BK BX	C.143
1911330000	SLDV-THR 5.00/10/180GLF 3.2SN BK BX	C.143
1911340000	SLDV-THR 5.00/12/180GLF 3.2SN BK BX	C.143
1911350000	SLDV-THR 5.00/14/180GLF 3.2SN BK BX	C.143
1911360000	SLDV-THR 5.00/16/180GLF 3.2SN BK BX	C.143
1911370000	SLDV-THR 5.00/18/180GLF 3.2SN BK BX	C.143
1911410000	SLDV-THR 5.00/20/180GLF 3.2SN BK BX	C.143
1911470000	SLDV-THR 5.00/22/180GLF 3.2SN BK BX	C.143
1911500000	SLDV-THR 5.00/24/180GLF 3.2SN BK BX	C.143
1911520000	SLDV-THR 5.00/26/180GLF 3.2SN BK BX	C.143
1911550000	SLDV-THR 5.00/28/180GLF 3.2SN BK BX	C.143
1911640000	SLDV-THR 5.00/30/180GLF 3.2SN BK BX	C.143
1911650000	SLDV-THR 5.00/32/180GLF 3.2SN BK BX	C.143
1911660000	SLDV-THR 5.00/34/180GLF 3.2SN BK BX	C.143
1911670000	SLDV-THR 5.00/36/180GLF 3.2SN BK BX	C.143
1911680000	SLDV-THR 5.00/38/180GLF 3.2SN BK BX	C.143
1911690000	SLDV-THR 5.00/40/180GLF 3.2SN BK BX	C.143
1911710000	SLDV-THR 5.00/42/180GLF 3.2SN BK BX	C.143
1911720000	SLDV-THR 5.00/44/180GLF 3.2SN BK BX	C.143
1911730000	SLDV-THR 5.00/46/180GLF 3.2SN BK BX	C.143
1911740000	SLDV-THR 5.00/48/180GLF 3.2SN BK BX	C.143
1911750000	SLDV-THR 5.00/04/180GLF 1.5SN BK BX	C.143
1911760000	SLDV-THR 5.00/06/180GLF 1.5SN BK BX	C.143
1911770000	SLDV-THR 5.00/08/180GLF 1.5SN BK BX	C.143
1911780000	SLDV-THR 5.00/10/180GLF 1.5SN BK BX	C.143
1911790000	SLDV-THR 5.00/12/180GLF 1.5SN BK BX	C.143
1911800000	SLDV-THR 5.00/14/180GLF 1.5SN BK BX	C.143
1911810000	SLDV-THR 5.00/16/180GLF 1.5SN BK BX	C.143
1911820000	SLDV-THR 5.00/18/180GLF 1.5SN BK BX	C.143
1911830000	SLDV-THR 5.00/20/180GLF 1.5SN BK BX	C.143
1911840000	SLDV-THR 5.00/22/180GLF 1.5SN BK BX	C.143
1911850000	SLDV-THR 5.00/24/180GLF 1.5SN BK BX	C.143
1911860000	SLDV-THR 5.00/26/180GLF 1.5SN BK BX	C.143
1911870000	SLDV-THR 5.00/28/180GLF 1.5SN BK BX	C.143
1911880000	SLDV-THR 5.00/30/180GLF 1.5SN BK BX	C.143
1911890000	SLDV-THR 5.00/32/180GLF 1.5SN BK BX	C.143
1911900000	SLDV-THR 5.00/34/180GLF 1.5SN BK BX	C.143
1911910000	SLDV-THR 5.00/36/180GLF 1.5SN BK BX	C.143
1911920000	SLDV-THR 5.00/38/180GLF 1.5SN BK BX	C.143
1911930000	SLDV-THR 5.00/40/180GLF 1.5SN BK BX	C.143
1911940000	SLDV-THR 5.00/42/180GLF 1.5SN BK BX	C.143
1911950000	SLDV-THR 5.00/44/180GLF 1.5SN BK BX	C.143
1911960000	SLDV-THR 5.00/46/180GLF 1.5SN BK BX	C.143
1911970000	SLDV-THR 5.00/48/180GLF 1.5SN BK BX	C.143
1912130000	ESG 8/13.5/43.3 SAI AU	I.19
1912320000	PS 3.50/02/90 3.5SN OR BX	B.54
1912330000	PS 3.50/03/90 3.5SN OR BX	B.54
1912340000	PS 3.50/04/90 3.5SN OR BX	B.54
1912350000	PS 3.50/05/90 3.5SN OR BX	B.54
1912360000	PS 3.50/06/90 3.5SN OR BX	B.54
1912370000	PS 3.50/07/90 3.5SN OR BX	B.54
1912380000	PS 3.50/08/90 3.5SN OR BX	B.54
1912390000	PS 3.50/09/90 3.5SN OR BX	B.54
1912400000	PS 3.50/10/90 3.5SN OR BX	B.54
1912410000	PS 3.50/11/90 3.5SN OR BX	B.54
1912420000	PS 3.50/12/90 3.5SN OR BX	B.54
1912520000	LS 5.08/02/90 3.5SN OR BX	B.14
1912530000	LS 5.08/03/90 3.5SN OR BX	B.14
1912540000	LS 5.08/04/90 3.5SN OR BX	B.14
1912560000	LS 5.08/05/90 3.5SN OR BX	B.14
1912570000	LS 5.08/06/90 3.5SN OR BX	B.14
1912850000	LS 5.08/07/90 3.5SN OR BX	B.14
1912890000	LS 5.08/08/90 3.5SN OR BX	B.14
1912900000	LS 5.08/09/90 3.5SN OR BX	B.14
1912910000	LS 5.08/10/90 3.5SN OR BX	B.14
1912930000	LS 5.08/11/90 3.5SN OR BX	B.14
1912940000	LS 5.08/12/90 3.5SN OR BX	B.14
1913780000	LMZF 5/2/135 3.50R	B.96
1913820000	LMZF 5/3/135 3.50R	B.96
1913960000	LMZF 5/4/135 3.50R	B.96
1914000000	LMZF 5/5/135 3.50R	B.96
1914020000	LMZF 5/6/135 3.50R	B.96
1914030000	LMZF 5/7/135 3.50R	B.96
1914040000	LMZF 5/8/135 3.50R	B.96
1914050000	LMZF 5/9/135 3.50R	B.96
1914070000	LMZF 5/10/135 3.50R	B.96
1914080000	LMZF 5/11/135 3.50R	B.96
1914090000	LMZF 5/12/135 3.50R	B.96
1914560000	LMZFL 5/2/135 3.50R	B.97
1914580000	LMZFL 5/3/135 3.50R	B.97
1914590000	LMZFL 5/4/135 3.50R	B.97
1914600000	LMZFL 5/5/135 3.50R	B.97
1914640000	LMZFL 5/6/135 3.50R	B.97
1914720000	LMZFL 5/7/135 3.50R	B.97
1914790000	LMZFL 5/8/135 3.50R	B.97
1914830000	LMZFL 5/9/135 3.50R	B.97
1914860000	LMZFL 5/10/135 3.50R	B.97
1914990000	LMZFL 5/11/135 3.50R	B.97
1915030000	LMZFL 5/12/135 3.50R	B.97
1919670000	ZBSC DLI2.5/M2.5X6	I.38
1919990000	BLDZ DN5.08/5/180F GR BED	C.232

1920000000

1921450000	LU 10.16/03/90 4.5SN BK BX	E.6
1921480000	LX 15.00/08/90 4.5SN BK BX	E.10
1921620000	SC 3.81/08/270G 3.2AU BK BX	C.90
1924540000	BUZ 10.16HP/02/180 AG BK BX	F.88
1924550000	BUZ 10.16HP/03/180 AG BK BX	F.88
1924560000	BUZ 10.16HP/04/180 AG BK BX	F.88
1924570000	BUZ 10.16HP/05/180 AG BK BX	F.88
1924580000	BUZ 10.16HP/06/180 AG BK BX	F.88
1924590000	BUZ 10.16HP/07/180 AG BK BX	F.88
1924600000	BUZ 10.16HP/08/180 AG BK BX	F.88
1924610000	BUZ 10.16HP/09/180 AG BK BX	F.88
1924620000	BUZ 10.16HP/02/180F AG BK BX	F.89
1924630000	BUZ 10.16HP/03/180F AG BK BX	F.89
1924640000	BUZ 10.16HP/04/180F AG BK BX	F.89
1924650000	BUZ 10.16HP/05/180F AG BK BX	F.89
1924660000	BUZ 10.16HP/06/180F AG BK BX	F.89
1924670000	BUZ 10.16HP/07/180F AG BK BX	F.89
1924680000	BUZ 10.16HP/08/180F AG BK BX	F.89
1924690000	BUZ 10.16HP/09/180F AG BK BX	F.89
1924700000	BUZ 10.16HP/02/180SF AG BK BX	F.89
1924710000	BUZ 10.16HP/03/180SF AG BK BX	F.89
1924720000	BUZ 10.16HP/04/180SF AG BK BX	F.89
1924740000	BUZ 10.16HP/05/180SF AG BK BX	F.89
1924750000	BUZ 10.16HP/06/180SF AG BK BX	F.89
1924760000	BUZ 10.16HP/07/180SF AG BK BX	F.89
1924770000	BUZ 10.16HP/08/180SF AG BK BX	F.89
1924780000	BUZ 10.16HP/09/180SF AG BK BX	F.89
1925740000	MHS 6	I.38
1925760000	MHZ 6	I.38
1926350000	LL2N 9.52/04/90 5.0SN OR BX	B.45
1926360000	LL2N 9.52/08/90 5.0SN OR BX	B.45
1926370000	LL2N 9.52/12/90 5.0SN OR BX	B.45
1926380000	LL2N 9.52/16/90 5.0SN OR BX	B.45
1926390000	LL2N 9.52/20/90 5.0SN OR BX	B.45
1926400000	LL2N 9.52/24/90 5.0SN OR BX	B.45
1928280000	BVL 7.62HP/02/90 3.5SN BK BX	F.70
1928290000	BVL 7.62HP/03/90 3.5SN BK BX	F.70
1928300000	BVL 7.62HP/04/90 3.5SN BK BX	F.70
1928310000	BVL 7.62HP/05/90 3.5SN BK BX	F.70
1928320000	BVL 7.62HP/06/90 3.5SN BK BX	F.70
1928330000	BVL 7.62HP/07/90 3.5SN BK BX	F.70
1928390000	BVL 7.62HP/02/90FI 3.5SN BK BX	F.71
1928400000	BVL 7.62HP/03/90FI 3.5SN BK BX	F.71
1928410000	BVL 7.62HP/04/90FI 3.5SN BK BX	F.71
1928420000	BVL 7.62HP/05/90FI 3.5SN BK BX	F.71
1928430000	BVL 7.62HP/06/90FI 3.5SN BK BX	F.71
1928440000	BVL 7.62HP/07/90FI 3.5SN BK BX	F.71

Order No.	Type	Page
1928500000	BVL 7.62HP/02/90SFI 3.5SN BK BX	F.71
1928510000	BVL 7.62HP/03/90SFI 3.5SN BK BX	F.71
1928520000	BVL 7.62HP/04/90SFI 3.5SN BK BX	F.71
1928530000	BVL 7.62HP/05/90SFI 3.5SN BK BX	F.71
1928540000	BVL 7.62HP/06/90SFI 3.5SN BK BX	F.71
1928550000	BVL 7.62HP/07/90SFI 3.5SN BK BX	F.71
1928610000	BVL 7.62HP/02/180 3.5SN BK BX	F.72
1928620000	BVL 7.62HP/03/180 3.5SN BK BX	F.72
1928630000	BVL 7.62HP/04/180 3.5SN BK BX	F.72
1928650000	BVL 7.62HP/05/180 3.5SN BK BX	F.72
1928660000	BVL 7.62HP/06/180 3.5SN BK BX	F.72
1928670000	BVL 7.62HP/07/180 3.5SN BK BX	F.72
1928730000	BVL 7.62HP/02/180FI 3.5SN BK BX	F.73
1928740000	BVL 7.62HP/03/180FI 3.5SN BK BX	F.73
1928750000	BVL 7.62HP/04/180FI 3.5SN BK BX	F.73
1928760000	BVL 7.62HP/05/180FI 3.5SN BK BX	F.73
1928770000	BVL 7.62HP/06/180FI 3.5SN BK BX	F.73
1928780000	BVL 7.62HP/07/180FI 3.5SN BK BX	F.73
1928840000	BVL 7.62HP/02/180SFI 3.5SN BK BX	F.73
1928850000	BVL 7.62HP/03/180SFI 3.5SN BK BX	F.73
1928860000	BVL 7.62HP/04/180SFI 3.5SN BK BX	F.73
1928870000	BVL 7.62HP/05/180SFI 3.5SN BK BX	F.73
1928900000	BVL 7.62HP/06/180SFI 3.5SN BK BX	F.73
1928910000	BVL 7.62HP/07/180SFI 3.5SN BK BX	F.73
1929300000	BVL 7.62HP/02/270 3.5SN BK BX	F.74
1929310000	BVL 7.62HP/03/270 3.5SN BK BX	F.74
1929320000	BVL 7.62HP/04/270 3.5SN BK BX	F.74
1929330000	BVL 7.62HP/05/270 3.5SN BK BX	F.74
1929340000	BVL 7.62HP/06/270 3.5SN BK BX	F.74
1929350000	BVL 7.62HP/07/270 3.5SN BK BX	F.74
1929410000	BVL 7.62HP/02/270FI 3.5SN BK BX	F.75
1929420000	BVL 7.62HP/03/270FI 3.5SN BK BX	F.75
1929430000	BVL 7.62HP/04/270FI 3.5SN BK BX	F.75
1929440000	BVL 7.62HP/05/270FI 3.5SN BK BX	F.75
1929450000	BVL 7.62HP/06/270FI 3.5SN BK BX	F.75
1929460000	BVL 7.62HP/07/270FI 3.5SN BK BX	F.75
1929520000	BVL 7.62HP/02/270SFI 3.5SN BK BX	F.75
1929530000	BVL 7.62HP/03/270SFI 3.5SN BK BX	F.75
1929540000	BVL 7.62HP/04/270SFI 3.5SN BK BX	F.75
1929550000	BVL 7.62HP/05/270SFI 3.5SN BK BX	F.75
1929560000	BVL 7.62HP/06/270SFI 3.5SN BK BX	F.75
1929570000	BVL 7.62HP/07/270SFI 3.5SN BK BX	F.75
1929740000	BVZ 7.62HP/02/180SFC SN BK BX	F.59
1929750000	BVZ 7.62HP/03/180SFC SN BK BX	F.59
1929760000	BVZ 7.62HP/04/180SFC SN BK BX	F.59
1929770000	BVZ 7.62HP/05/180SFC SN BK BX	F.59
1929780000	BVZ 7.62HP/06/180SFC SN BK BX	F.59
1929790000	BVZ 7.62HP/07/180SFC SN BK BX	F.59
1929850000	BVZ 7.62HP/03/180SH150 SN BK BX	F.60
1929860000	BVZ 7.62HP/04/180SH150 SN BK BX	F.60
1929870000	BVZ 7.62HP/05/180SH150 SN BK BX	F.60
1929880000	BVZ 7.62HP/06/180SH150 SN BK BX	F.60
1929890000	BVZ 7.62HP/03/180SH150C SN BK BX	F.62
1929900000	BVZ 7.62HP/04/180SH150C SN BK BX	F.62
1929910000	BVZ 7.62HP/05/180SH150C SN BK BX	F.62
1929920000	BVZ 7.62HP/06/180SH150C SN BK BX	F.62
1929930000	BVZ 7.62HP/02/180 SN BK BX	F.58
1929940000	BVZ 7.62HP/03/180 SN BK BX	F.58
1929950000	BVZ 7.62HP/04/180 SN BK BX	F.58
1929960000	BVZ 7.62HP/05/180 SN BK BX	F.58
1929970000	BVZ 7.62HP/06/180 SN BK BX	F.58
1929980000	BVZ 7.62HP/07/180 SN BK BX	F.58

1930000000

Order No.	Type	Page
1930050000	BVZ 7.62HP/02/180F SN BK BX	F.59
1930060000	BVZ 7.62HP/03/180F SN BK BX	F.59
1930070000	BVZ 7.62HP/04/180F SN BK BX	F.59
1930080000	BVZ 7.62HP/05/180F SN BK BX	F.59
1930090000	BVZ 7.62HP/06/180F SN BK BX	F.59
1930100000	BVZ 7.62HP/07/180F SN BK BX	F.59
1930160000	BVZ 7.62HP/02/180SF SN BK BX	F.59
1930170000	BVZ 7.62HP/03/180SF SN BK BX	F.59
1930180000	BVZ 7.62HP/04/180SF SN BK BX	F.59
1930190000	BVZ 7.62HP/05/180SF SN BK BX	F.59
1930200000	BVZ 7.62HP/06/180SF SN BK BX	F.59
1930210000	BVZ 7.62HP/07/180SF SN BK BX	F.59
1930270000	SV 7.62HP/02/90G 3.5SN BK BX	F.28
1930280000	SV 7.62HP/03/90G 3.5SN BK BX	F.28
1930290000	SV 7.62HP/04/90G 3.5SN BK BX	F.28
1930300000	SV 7.62HP/05/90G 3.5SN BK BX	F.28
1930310000	SV 7.62HP/06/90G 3.5SN BK BX	F.28
1930320000	SV 7.62HP/07/90G 3.5SN BK BX	F.28
1930380000	SV 7.62HP/02/90F 3.5SN BK BX	F.29
1930390000	SV 7.62HP/03/90F 3.5SN BK BX	F.29
1930400000	SV 7.62HP/04/90F 3.5SN BK BX	F.29
1930410000	SV 7.62HP/05/90F 3.5SN BK BX	F.29
1930420000	SV 7.62HP/06/90F 3.5SN BK BX	F.29
1930430000	SV 7.62HP/07/90F 3.5SN BK BX	F.29
1930490000	SV 7.62HP/02/90SF 3.5SN BK BX	F.29
1930500000	SV 7.62HP/03/90SF 3.5SN BK BX	F.29
1930510000	SV 7.62HP/04/90SF 3.5SN BK BX	F.29
1930520000	SV 7.62HP/05/90SF 3.5SN BK BX	F.29
1930530000	SV 7.62HP/06/90SF 3.5SN BK BX	F.29
1930540000	SV 7.62HP/07/90SF 3.5SN BK BX	F.29
1930600000	SV 7.62HP/02/180G 3.5SN BK BX	F.30
1930610000	SV 7.62HP/03/180G 3.5SN BK BX	F.30
1930620000	SV 7.62HP/04/180G 3.5SN BK BX	F.30
1930630000	SV 7.62HP/05/180G 3.5SN BK BX	F.30

Order No.	Type	Page
1930640000	SV 7.62HP/06/180G 3.5SN BK BX	F.30
1930650000	SV 7.62HP/07/180G 3.5SN BK BX	F.30
1930710000	SV 7.62HP/02/180F 3.5SN BK BX	F.31
1930720000	SV 7.62HP/03/180F 3.5SN BK BX	F.31
1930730000	SV 7.62HP/04/180F 3.5SN BK BX	F.31
1930740000	SV 7.62HP/05/180F 3.5SN BK BX	F.31
1930750000	SV 7.62HP/06/180F 3.5SN BK BX	F.31
1930760000	SV 7.62HP/07/180F 3.5SN BK BX	F.31
1930820000	SV 7.62HP/02/180SF 3.5SN BK BX	F.31
1930830000	SV 7.62HP/03/180SF 3.5SN BK BX	F.31
1930840000	SV 7.62HP/04/180SF 3.5SN BK BX	F.31
1930850000	SV 7.62HP/05/180SF 3.5SN BK BX	F.31
1930860000	SV 7.62HP/06/180SF 3.5SN BK BX	F.31
1930870000	SV 7.62HP/07/180SF 3.5SN BK BX	F.31
1931260000	SV 7.62HP/02/270G 3.5SN BK BX	F.34
1931270000	SV 7.62HP/03/270G 3.5SN BK BX	F.34
1931280000	SV 7.62HP/04/270G 3.5SN BK BX	F.34
1931290000	SV 7.62HP/05/270G 3.5SN BK BX	F.34
1931300000	SV 7.62HP/06/270G 3.5SN BK BX	F.34
1931310000	SV 7.62HP/07/270G 3.5SN BK BX	F.34
1931370000	SV 7.62HP/02/270F 3.5SN BK BX	F.35
1931380000	SV 7.62HP/03/270F 3.5SN BK BX	F.35
1931390000	SV 7.62HP/04/270F 3.5SN BK BX	F.35
1931400000	SV 7.62HP/05/270F 3.5SN BK BX	F.35
1931410000	SV 7.62HP/06/270F 3.5SN BK BX	F.35
1931420000	SV 7.62HP/07/270F 3.5SN BK BX	F.35
1931480000	SV 7.62HP/02/270SF 3.5SN BK BX	F.35
1931490000	SV 7.62HP/03/270SF 3.5SN BK BX	F.35
1931500000	SV 7.62HP/04/270SF 3.5SN BK BX	F.35
1931510000	SV 7.62HP/05/270SF 3.5SN BK BX	F.35
1931520000	SV 7.62HP/06/270SF 3.5SN BK BX	F.35
1931530000	SV 7.62HP/07/270SF 3.5SN BK BX	F.35
1931620000	SVZ 7.62HP/02/180G SN BK BX	F.38
1931630000	SVZ 7.62HP/03/180G SN BK BX	F.38
1931640000	SVZ 7.62HP/04/180G SN BK BX	F.38
1931660000	SVZ 7.62HP/05/180G SN BK BX	F.38
1931670000	SVZ 7.62HP/06/180G SN BK BX	F.38
1931680000	SVZ 7.62HP/07/180G SN BK BX	F.38
1931740000	SVZ 7.62HP/02/180F SN BK BX	F.39
1931760000	SVZ 7.62HP/03/180F SN BK BX	F.39
1931820000	SVZ 7.62HP/04/180F SN BK BX	F.39
1931840000	SVZ 7.62HP/05/180F SN BK BX	F.39
1931850000	SVZ 7.62HP/06/180F SN BK BX	F.39
1931860000	SVZ 7.62HP/07/180F SN BK BX	F.39
1931960000	SVZ 7.62HP/02/180SF SN BK BX	F.39
1931970000	SVZ 7.62HP/03/180SF SN BK BX	F.39
1931980000	SVZ 7.62HP/04/180SF SN BK BX	F.39
1931990000	SVZ 7.62HP/05/180SF SN BK BX	F.39
1932000000	SVZ 7.62HP/06/180SF SN BK BX	F.39
1932010000	SVZ 7.62HP/07/180SF SN BK BX	F.39
1932070000	SVZ 7.62HP/02/180FI SN BK BX	F.42
1932080000	SVZ 7.62HP/03/180FI SN BK BX	F.42
1932090000	SVZ 7.62HP/04/180FI SN BK BX	F.42
1932100000	SVZ 7.62HP/05/180FI SN BK BX	F.42
1932110000	SVZ 7.62HP/06/180FI SN BK BX	F.42
1932120000	SVZ 7.62HP/07/180FI SN BK BX	F.42
1932180000	SVZ 7.62HP/02/180SFI SN BK BX	F.43
1932190000	SVZ 7.62HP/03/180SFI SN BK BX	F.43
1932200000	SVZ 7.62HP/04/180SFI SN BK BX	F.43
1932210000	SVZ 7.62HP/05/180SFI SN BK BX	F.43
1932220000	SVZ 7.62HP/06/180SFI SN BK BX	F.43
1932230000	SVZ 7.62HP/07/180SFI SN BK BX	F.43
1932330000	SVZ 7.62HP/03/180SH150I SN BK BX	F.48
1932340000	SVZ 7.62HP/04/180SH150I SN BK BX	F.48
1932350000	SVZ 7.62HP/05/180SH150I SN BK BX	F.48
1932360000	SVZ 7.62HP/06/180SH150I SN BK BX	F.48
1932460000	SVZ 7.62HP/03/180SH180 SN BK BX	F.44
1932470000	SVZ 7.62HP/04/180SH180 SN BK BX	F.44
1932480000	SVZ 7.62HP/05/180SH180 SN BK BX	F.44
1932490000	SVZ 7.62HP/06/180SH180 SN BK BX	F.44
1932500000	SVZ 7.62HP/03/180SH180I SN BK BX	F.49
1932510000	SVZ 7.62HP/04/180SH180I SN BK BX	F.49
1932520000	SVZ 7.62HP/05/180SH180I SN BK BX	F.49
1932530000	SVZ 7.62HP/06/180SH180I SN BK BX	F.49
1932580000	SVZ 7.62HP/03/180SH210I SN BK BX	F.49
1932590000	SVZ 7.62HP/04/180SH210I SN BK BX	F.49
1932600000	SVZ 7.62HP/05/180SH210I SN BK BX	F.49
1932610000	SVZ 7.62HP/06/180SH210I SN BK BX	F.49
1933340000	BVZ 7.62HP/03/180SH180 SN BK BX	F.61
1933350000	BVZ 7.62HP/04/180SH180 SN BK BX	F.61
1933360000	BVZ 7.62HP/05/180SH180 SN BK BX	F.61
1933370000	BVZ 7.62HP/06/180SH180 SN BK BX	F.61
1933380000	BVZ 7.62HP/03/180SH180C SN BK BX	F.63
1933390000	BVZ 7.62HP/04/180SH180C SN BK BX	F.63
1933400000	BVZ 7.62HP/05/180SH180C SN BK BX	F.63
1933410000	BVZ 7.62HP/06/180SH180C SN BK BX	F.63
1933430000	BVZ 7.62HP/03/180SH210 SN BK BX	F.61
1933440000	BVZ 7.62HP/04/180SH210 SN BK BX	F.61
1933450000	BVZ 7.62HP/05/180SH210 SN BK BX	F.61
1933460000	BVZ 7.62HP/06/180SH210 SN BK BX	F.61
1933470000	BVZ 7.62HP/03/180SH210C SN BK BX	F.63
1933480000	BVZ 7.62HP/04/180SH210C SN BK BX	F.63
1933490000	BVZ 7.62HP/05/180SH210C SN BK BX	F.63
1933500000	BVZ 7.62HP/06/180SH210C SN BK BX	F.63
1933550000	BLZ DN 5.08/05/180F AU GY PRT	C.231
1933560000	BLZ DN 5.08/05/180 AU GY SO	C.230
1933570000	BLZ DN 5.08/05/180F AU GY SO	C.231
1934050000	WGKV 4	G.8
1934060000	WGKV 10	G.9

Order No.	Type	Page
1934070000	WGKV 25	G.12
1934140000	LU 10.16/02/90 4.5SN BK BX	E.6
1934250000	LL 5.08/02/90 3.2SN OR BX	B.39
1934260000	LL 5.08/03/90 3.2SN OR BX	B.39
1934270000	LL 5.00/02/90 3.2SN OR BX	B.38
1934280000	LL 5.00/03/90 3.2SN OR BX	B.38
1934310000	LL2N 5.00/04/90 3.2SN OR BX	B.41
1934340000	LL3R 5.08/06/90 3.2SN OR BX	B.43
1934360000	LL3R 5.00/06/90 3.2SN OR BX	B.41
1936430000	DP VWGK4	G.15
1936440000	DP WGK 10	G.9
1936450000	DP WGK 4	G.9
1936470000	DP WGKV 4	G.8
1936480000	VWGK 4 GN/YE	G.15
1936490000	VWGK 4	G.15
1936500000	WGK 10 GN/YE	G.9
1936510000	WGK 10	G.9
1936520000	WGK 10/Z gn/ye	G.9
1936530000	WGK 10/Z	G.9
1936540000	WGK 4 GN/YE	G.8
1936550000	WGK 4	G.8
1936560000	WGK 4/Z gn/ye	G.8
1936570000	WGK 4/Z	G.8
1936580000	WGKV 10 gn/ye	G.9
1936590000	WGKV 10/Z gn/ye	G.9
1936600000	WGKV 10/Z	G.9
1936610000	WGKV 4 gn/ye	G.8
1936620000	WGKV 4/Z gn/ye	G.8
1936630000	WGKV 4/Z	G.8
1936700000	DP WGK 16	G.10
1936710000	DP WGK 25	G.11
1936720000	WGKV 25 gn/ye	G.12
1936740000	WGKV 25/Z gn/ye	G.12
1936750000	WGKV 25/Z	G.12
1936760000	WGK 16 gn/ye	G.10
1936770000	WGK 16 VP GN/YE	G.11
1936780000	WGK 16 VP	G.11
1936790000	WGK 16 VP/Z GN/YE	G.11
1936800000	WGK 16 VP/Z	G.11
1936810000	WGK 16	G.10
1936820000	WGK 16/Z gn/ye	G.10
1936830000	WGK 16/Z	G.10
1936840000	WGK 25 GN/YE	G.11
1936850000	WGK 25	G.11
1936860000	WGK 25 VP GN/YE	G.12
1936870000	WGK 25 VP	G.12
1936880000	WGK 25 VP/Z GN/YE	G.12
1936890000	WGK 25 VP/Z	G.12
1936900000	WGK 25/Z GN/YE	G.11
1936910000	WGK 25/Z	G.11
1937020000	DP WGK 95	G.13
1937030000	DP WGK 50	G.13
1937040000	WGK 50 GN/YE	G.13
1937050000	WGK 50 VP GN/YE	G.13
1937060000	WGK 50 VP	G.13
1937070000	WGK 50 VP/Z GN/YE	G.13
1937080000	WGK 50 VP/Z	G.13
1937090000	WGK 50	G.13
1937100000	WGK 50/Z GN/YE	G.13
1937110000	WGK 50/Z	G.13
1937120000	WGK 95 F VP GN/YE	G.14
1937130000	WGK 95 F VP	G.14
1937140000	WGK 95 F VP/Z	G.14
1937360000	WGK 95 F VP/Z GN/YE	G.14
1937370000	WGK 95 GN/YE	G.13
1937380000	WGK 95	G.13
1937390000	WGK 95/Z GN/YE	G.13
1937400000	WGK 95/Z	G.13
1937550000	BV/SV 7.62HP/02 ZE GR	H.2
1937560000	BV/SV 7.62HP/04 ZE GR	H.2
1937590000	BV/SV 7.62HP KO	H.4
1937600000	BV/SV7.62HP MOFU GR	F.100
1938010000	BL-I/O 3.50/10F NPN LED SN BK BX	C.56
1938020000	BL-I/O 3.50/30F NPN LED SN BK BX	C.57
1939820000	BCZ 3.81/02/90 SN OR BX	C.110
1939830000	BCZ 3.81/03/90 SN OR BX	C.110
1939840000	BCZ 3.81/04/90 SN OR BX	C.110
1939860000	BCZ 3.81/05/90 SN OR BX	C.110
1939870000	BCZ 3.81/06/90 SN OR BX	C.110
1939880000	BCZ 3.81/07/90 SN OR BX	C.110
1939890000	BCZ 3.81/08/90 SN OR BX	C.110
1939900000	BCZ 3.81/09/90 SN OR BX	C.110
1939910000	BCZ 3.81/10/90 SN OR BX	C.110
1939920000	BCZ 3.81/11/90 SN OR BX	C.110
1939930000	BCZ 3.81/12/90 SN OR BX	C.110
1939940000	BCZ 3.81/13/90 SN OR BX	C.110
1939950000	BCZ 3.81/14/90 SN OR BX	C.110
1939960000	BCZ 3.81/15/90 SN OR BX	C.110
1939970000	BCZ 3.81/16/90 SN OR BX	C.110
1939980000	BCZ 3.81/02/90F SN OR BX	C.111
1939990000	BCZ 3.81/03/90F SN OR BX	C.111

1940000000

Order No.	Type	Page
1940000000	BCZ 3.81/04/90F SN OR BX	C.111
1940010000	BCZ 3.81/05/90F SN OR BX	C.111
1940020000	BCZ 3.81/06/90F SN OR BX	C.111
1940030000	BCZ 3.81/07/90F SN OR BX	C.111
1940040000	BCZ 3.81/08/90F SN OR BX	C.111

X

Order No.	Type	Page
1940050000	BCZ 3.81/09/90F SN OR BX	C.111
1940060000	BCZ 3.81/10/90F SN OR BX	C.111
1940070000	BCZ 3.81/11/90F SN OR BX	C.111
1940080000	BCZ 3.81/12/90F SN OR BX	C.111
1940090000	BCZ 3.81/13/90F SN OR BX	C.111
1940100000	BCZ 3.81/14/90F SN OR BX	C.111
1940110000	BCZ 3.81/15/90F SN OR BX	C.111
1940120000	BCZ 3.81/16/90F SN OR BX	C.111
1940190000	BCZ 3.81/02/270 SN OR BX	C.111
1940200000	BCZ 3.81/03/270 SN OR BX	C.111
1940210000	BCZ 3.81/04/270 SN OR BX	C.111
1940220000	BCZ 3.81/05/270 SN OR BX	C.111
1940230000	BCZ 3.81/06/270 SN OR BX	C.111
1940240000	BCZ 3.81/07/270 SN OR BX	C.111
1940250000	BCZ 3.81/08/270 SN OR BX	C.111
1940260000	BCZ 3.81/09/270 SN OR BX	C.111
1940270000	BCZ 3.81/10/270 SN OR BX	C.111
1940280000	BCZ 3.81/11/270 SN OR BX	C.111
1940290000	BCZ 3.81/12/270 SN OR BX	C.111
1940300000	BCZ 3.81/13/270 SN OR BX	C.111
1940310000	BCZ 3.81/14/270 SN OR BX	C.111
1940320000	BCZ 3.81/15/270 SN OR BX	C.111
1940330000	BCZ 3.81/16/270 SN OR BX	C.111
1940400000	BCZ 3.81/07/270 SN BK BX	C.111
1940410000	BCZ 3.81/09/270 SN BK BX	C.111
1940420000	BCZ 3.81/11/270 SN BK BX	C.111
1940430000	BCZ 3.81/13/270 SN BK BX	C.111
1940440000	BCZ 3.81/14/270 SN BK BX	C.111
1940450000	BCZ 3.81/15/270 SN BK BX	C.111
1940460000	BCZ 3.81/02/270F SN OR BX	C.111
1940470000	BCZ 3.81/03/270F SN OR BX	C.111
1940480000	BCZ 3.81/04/270F SN OR BX	C.111
1940490000	BCZ 3.81/05/270F SN OR BX	C.111
1940500000	BCZ 3.81/06/270F SN OR BX	C.111
1940510000	BCZ 3.81/07/270F SN OR BX	C.111
1940520000	BCZ 3.81/08/270F SN OR BX	C.111
1940530000	BCZ 3.81/09/270F SN OR BX	C.111
1940540000	BCZ 3.81/10/270F SN OR BX	C.111
1940550000	BCZ 3.81/11/270F SN OR BX	C.111
1940560000	BCZ 3.81/12/270F SN OR BX	C.111
1940570000	BCZ 3.81/13/270F SN OR BX	C.111
1940580000	BCZ 3.81/14/270F SN OR BX	C.111
1940590000	BCZ 3.81/15/270F SN OR BX	C.111
1940600000	BCZ 3.81/16/270F SN OR BX	C.111
1940670000	BCZ 3.81/07/270F SN BK BX	C.111
1940680000	BCZ 3.81/09/270F SN BK BX	C.111
1940690000	BCZ 3.81/11/270F SN BK BX	C.111
1940700000	BCZ 3.81/13/270F SN BK BX	C.111
1940710000	BCZ 3.81/14/270F SN BK BX	C.111
1940720000	BCZ 3.81/15/270F SN BK BX	C.111
1940730000	BCZ 3.81/02/180 SN OR BX	C.106
1940740000	BCZ 3.81/03/180 SN OR BX	C.106
1940750000	BCZ 3.81/04/180 SN OR BX	C.106
1940760000	BCZ 3.81/05/180 SN OR BX	C.106
1940770000	BCZ 3.81/06/180 SN OR BX	C.106
1940780000	BCZ 3.81/07/180 SN OR BX	C.106
1940790000	BCZ 3.81/08/180 SN OR BX	C.106
1940800000	BCZ 3.81/09/180 SN OR BX	C.106
1940810000	BCZ 3.81/10/180 SN OR BX	C.106
1940820000	BCZ 3.81/11/180 SN OR BX	C.106
1940830000	BCZ 3.81/12/180 SN OR BX	C.106
1940840000	BCZ 3.81/13/180 SN OR BX	C.106
1940850000	BCZ 3.81/14/180 SN OR BX	C.106
1940860000	BCZ 3.81/15/180 SN OR BX	C.106
1940870000	BCZ 3.81/16/180 SN OR BX	C.106
1940890000	BCZ 3.81/17/180 SN OR BX	C.106
1940900000	BCZ 3.81/18/180 SN OR BX	C.106
1940910000	BCZ 3.81/19/180 SN OR BX	C.106
1940920000	BCZ 3.81/20/180 SN OR BX	C.106
1940970000	BCZ 3.81/17/180 SN BK BX	C.106
1940980000	BCZ 3.81/18/180 SN BK BX	C.106
1940990000	BCZ 3.81/19/180 SN BK BX	C.106
1941000000	BCZ 3.81/20/180 SN BK BX	C.106
1941010000	BCZ 3.81/02/180F SN OR BX	C.107
1941020000	BCZ 3.81/03/180F SN OR BX	C.107
1941030000	BCZ 3.81/04/180F SN OR BX	C.107
1941040000	BCZ 3.81/05/180F SN OR BX	C.107
1941050000	BCZ 3.81/06/180F SN OR BX	C.107
1941060000	BCZ 3.81/07/180F SN OR BX	C.107
1941070000	BCZ 3.81/08/180F SN OR BX	C.107
1941080000	BCZ 3.81/09/180F SN OR BX	C.107
1941090000	BCZ 3.81/10/180F SN OR BX	C.107
1941100000	BCZ 3.81/11/180F SN OR BX	C.107
1941110000	BCZ 3.81/12/180F SN OR BX	C.107
1941120000	BCZ 3.81/13/180F SN OR BX	C.107
1941130000	BCZ 3.81/14/180F SN OR BX	C.107
1941140000	BCZ 3.81/15/180F SN OR BX	C.107
1941150000	BCZ 3.81/16/180F SN OR BX	C.107
1941160000	BCZ 3.81/17/180F SN OR BX	C.107
1941170000	BCZ 3.81/18/180F SN OR BX	C.107
1941180000	BCZ 3.81/19/180F SN OR BX	C.107
1941190000	BCZ 3.81/20/180F SN OR BX	C.107
1941360000	BCZ 3.81/17/180F SN BK BX	C.107
1941370000	BCZ 3.81/18/180F SN BK BX	C.107
1941380000	BCZ 3.81/19/180F SN BK BX	C.107
1941390000	BCZ 3.81/20/180F SN BK BX	C.107
1941400000	BCZ 3.81/02/180LR SN OR BX	C.107
1941410000	BCZ 3.81/03/180LR SN OR BX	C.107
1941420000	BCZ 3.81/04/180LR SN OR BX	C.107

Order No.	Type	Page
1941430000	BCZ 3.81/05/180LR SN OR BX	C.107
1941440000	BCZ 3.81/06/180LR SN OR BX	C.107
1941450000	BCZ 3.81/07/180LR SN OR BX	C.107
1941460000	BCZ 3.81/08/180LR SN OR BX	C.107
1941470000	BCZ 3.81/09/180LR SN OR BX	C.107
1941480000	BCZ 3.81/10/180LR SN OR BX	C.107
1941490000	BCZ 3.81/11/180LR SN OR BX	C.107
1941500000	BCZ 3.81/12/180LR SN OR BX	C.107
1941510000	BCZ 3.81/13/180LR SN OR BX	C.107
1941520000	BCZ 3.81/14/180LR SN OR BX	C.107
1941530000	BCZ 3.81/15/180LR SN OR BX	C.107
1941540000	BCZ 3.81/16/180LR SN OR BX	C.107
1941550000	BCZ 3.81/17/180LR SN OR BX	C.107
1941560000	BCZ 3.81/18/180LR SN OR BX	C.107
1941570000	BCZ 3.81/19/180LR SN OR BX	C.107
1941580000	BCZ 3.81/20/180LR SN OR BX	C.107
1941780000	BCZ 3.81/02/180LR SN BK BX	C.107
1941790000	BCZ 3.81/03/180LR SN BK BX	C.107
1941800000	BCZ 3.81/04/180LR SN BK BX	C.107
1941810000	BCZ 3.81/05/180LR SN BK BX	C.107
1941820000	BCZ 3.81/06/180LR SN BK BX	C.107
1941830000	BCZ 3.81/07/180LR SN BK BX	C.107
1941840000	BCZ 3.81/08/180LR SN BK BX	C.107
1941850000	BCZ 3.81/09/180LR SN BK BX	C.107
1941860000	BCZ 3.81/10/180LR SN BK BX	C.107
1941870000	BCZ 3.81/11/180LR SN BK BX	C.107
1941880000	BCZ 3.81/12/180LR SN BK BX	C.107
1941890000	BCZ 3.81/13/180LR SN BK BX	C.107
1941900000	BCZ 3.81/14/180LR SN BK BX	C.107
1941910000	BCZ 3.81/15/180LR SN BK BX	C.107
1941920000	BCZ 3.81/16/180LR SN BK BX	C.107
1941930000	BCZ 3.81/17/180LR SN BK BX	C.107
1941940000	BCZ 3.81/18/180LR SN BK BX	C.107
1941950000	BCZ 3.81/19/180LR SN BK BX	C.107
1941960000	BCZ 3.81/20/180LR SN BK BX	C.107
1941970000	BCZ 3.81/08/180ZE SN BK BX	C.108
1941980000	BCZ 3.81/08/180FZE SN BK BX	C.109
1941990000	BCZ 3.81/08/180LRZE SN BK BX	C.109
1942020000	SC 3.81/02/90G 3.2SN OR BX	C.84
1942040000	SC 3.81/03/90G 3.2SN OR BX	C.84
1942070000	SC 3.81/04/90G 3.2SN OR BX	C.84
1942090000	SC 3.81/05/90G 3.2SN OR BX	C.84
1942100000	SC 3.81/06/90G 3.2SN OR BX	C.84
1942120000	SC 3.81/07/90G 3.2SN OR BX	C.84
1942130000	SC 3.81/08/90G 3.2SN OR BX	C.84
1942140000	SC 3.81/09/90G 3.2SN OR BX	C.84
1942150000	SC 3.81/10/90G 3.2SN OR BX	C.84
1942160000	SC 3.81/11/90G 3.2SN OR BX	C.84
1942170000	SC 3.81/12/90G 3.2SN OR BX	C.84
1942180000	SC 3.81/13/90G 3.2SN OR BX	C.84
1942190000	SC 3.81/14/90G 3.2SN OR BX	C.84
1942200000	SC 3.81/15/90G 3.2SN OR BX	C.84
1942210000	SC 3.81/16/90G 3.2SN OR BX	C.84
1942220000	SC 3.81/17/90G 3.2SN OR BX	C.84
1942230000	SC 3.81/18/90G 3.2SN OR BX	C.84
1942240000	SC 3.81/19/90G 3.2SN OR BX	C.84
1942250000	SC 3.81/20/90G 3.2SN OR BX	C.84
1942350000	SC 3.81/07/90G 3.2SN BK BX	C.84
1942360000	SC 3.81/09/90G 3.2SN BK BX	C.84
1942370000	SC 3.81/11/90G 3.2SN BK BX	C.84
1942380000	SC 3.81/13/90G 3.2SN BK BX	C.84
1942390000	SC 3.81/14/90G 3.2SN BK BX	C.84
1942400000	SC 3.81/15/90G 3.2SN BK BX	C.84
1942410000	SC 3.81/17/90G 3.2SN BK BX	C.84
1942420000	SC 3.81/18/90G 3.2SN BK BX	C.84
1942430000	SC 3.81/19/90G 3.2SN BK BX	C.84
1942440000	SC 3.81/20/90G 3.2SN BK BX	C.84
1942450000	SC 3.81/02/90F 3.2SN OR BX	C.85
1942460000	SC 3.81/03/90F 3.2SN OR BX	C.85
1942470000	SC 3.81/04/90F 3.2SN OR BX	C.85
1942480000	SC 3.81/05/90F 3.2SN OR BX	C.85
1942490000	SC 3.81/06/90F 3.2SN OR BX	C.85
1942500000	SC 3.81/07/90F 3.2SN OR BX	C.85
1942510000	SC 3.81/08/90F 3.2SN OR BX	C.85
1942520000	SC 3.81/09/90F 3.2SN OR BX	C.85
1942530000	SC 3.81/10/90F 3.2SN OR BX	C.85
1942540000	SC 3.81/11/90F 3.2SN OR BX	C.85
1942550000	SC 3.81/12/90F 3.2SN OR BX	C.85
1942560000	SC 3.81/13/90F 3.2SN OR BX	C.85
1942570000	SC 3.81/14/90F 3.2SN OR BX	C.85
1942580000	SC 3.81/15/90F 3.2SN OR BX	C.85
1942590000	SC 3.81/16/90F 3.2SN OR BX	C.85
1942600000	SC 3.81/17/90F 3.2SN OR BX	C.85
1942610000	SC 3.81/18/90F 3.2SN OR BX	C.85
1942620000	SC 3.81/19/90F 3.2SN OR BX	C.85
1942630000	SC 3.81/20/90F 3.2SN OR BX	C.85
1942740000	SC 3.81/07/90F 3.2SN BK BX	C.85
1942750000	SC 3.81/09/90F 3.2SN BK BX	C.85
1942760000	SC 3.81/11/90F 3.2SN BK BX	C.85
1942770000	SC 3.81/13/90F 3.2SN BK BX	C.85
1942780000	SC 3.81/14/90F 3.2SN BK BX	C.85
1942790000	SC 3.81/15/90F 3.2SN BK BX	C.85
1942800000	SC 3.81/17/90F 3.2SN BK BX	C.85
1942810000	SC 3.81/18/90F 3.2SN BK BX	C.85
1942820000	SC 3.81/19/90F 3.2SN BK BX	C.85
1942830000	SC 3.81/20/90F 3.2SN BK BX	C.85
1942840000	SC 3.81/02/180G 3.2SN OR BX	C.86
1942850000	SC 3.81/03/180G 3.2SN OR BX	C.86
1942860000	SC 3.81/04/180G 3.2SN OR BX	C.86

Order No.	Type	Page
1942870000	SC 3.81/05/180G 3.2SN OR BX	C.86
1942880000	SC 3.81/06/180G 3.2SN OR BX	C.86
1942890000	SC 3.81/07/180G 3.2SN OR BX	C.86
1942900000	SC 3.81/08/180G 3.2SN OR BX	C.86
1942910000	SC 3.81/09/180G 3.2SN OR BX	C.86
1942920000	SC 3.81/10/180G 3.2SN OR BX	C.86
1942930000	SC 3.81/11/180G 3.2SN OR BX	C.86
1942940000	SC 3.81/12/180G 3.2SN OR BX	C.86
1942950000	SC 3.81/13/180G 3.2SN OR BX	C.86
1942960000	SC 3.81/14/180G 3.2SN OR BX	C.86
1942970000	SC 3.81/15/180G 3.2SN OR BX	C.86
1942980000	SC 3.81/16/180G 3.2SN OR BX	C.86
1942990000	SC 3.81/17/180G 3.2SN OR BX	C.86
1943000000	SC 3.81/18/180G 3.2SN OR BX	C.86
1943010000	SC 3.81/19/180G 3.2SN OR BX	C.86
1943020000	SC 3.81/20/180G 3.2SN OR BX	C.86
1943100000	SC 3.81/11/180G 3.2SN BK BX	C.86
1943110000	SC 3.81/13/180G 3.2SN BK BX	C.86
1943120000	SC 3.81/14/180G 3.2SN BK BX	C.86
1943130000	SC 3.81/15/180G 3.2SN BK BX	C.86
1943140000	SC 3.81/17/180G 3.2SN BK BX	C.86
1943150000	SC 3.81/18/180G 3.2SN BK BX	C.86
1943160000	SC 3.81/19/180G 3.2SN BK BX	C.86
1943170000	SC 3.81/20/180G 3.2SN BK BX	C.86
1943180000	SC 3.81/02/180F 3.2SN OR BX	C.87
1943190000	SC 3.81/03/180F 3.2SN OR BX	C.87
1943200000	SC 3.81/04/180F 3.2SN OR BX	C.87
1943210000	SC 3.81/05/180F 3.2SN OR BX	C.87
1943220000	SC 3.81/06/180F 3.2SN OR BX	C.87
1943230000	SC 3.81/07/180F 3.2SN OR BX	C.87
1943240000	SC 3.81/08/180F 3.2SN OR BX	C.87
1943250000	SC 3.81/09/180F 3.2SN OR BX	C.87
1943260000	SC 3.81/10/180F 3.2SN OR BX	C.87
1943270000	SC 3.81/11/180F 3.2SN OR BX	C.87
1943280000	SC 3.81/12/180F 3.2SN OR BX	C.87
1943290000	SC 3.81/13/180F 3.2SN OR BX	C.87
1943300000	SC 3.81/14/180F 3.2SN OR BX	C.87
1943310000	SC 3.81/15/180F 3.2SN OR BX	C.87
1943320000	SC 3.81/16/180F 3.2SN OR BX	C.87
1943330000	SC 3.81/17/180F 3.2SN OR BX	C.87
1943340000	SC 3.81/18/180F 3.2SN OR BX	C.87
1943350000	SC 3.81/19/180F 3.2SN OR BX	C.87
1943360000	SC 3.81/20/180F 3.2SN OR BX	C.87
1943470000	SC 3.81/09/180F 3.2SN BK BX	C.87
1943480000	SC 3.81/11/180F 3.2SN BK BX	C.87
1943490000	SC 3.81/13/180F 3.2SN BK BX	C.87
1943500000	SC 3.81/14/180F 3.2SN BK BX	C.87
1943510000	SC 3.81/15/180F 3.2SN BK BX	C.87
1943520000	SC 3.81/17/180F 3.2SN BK BX	C.87
1943530000	SC 3.81/18/180F 3.2SN BK BX	C.87
1943540000	SC 3.81/19/180F 3.2SN BK BX	C.87
1943550000	SC 3.81/20/180F 3.2SN BK BX	C.87
1943580000	BLZP 5.08/02/180 SN OR BX	C.218
1943590000	BLZP 5.08/03/180 SN OR BX	C.218
1943600000	BLZP 5.08/04/180 SN OR BX	C.218
1943610000	BLZP 5.08/05/180 SN OR BX	C.218
1943620000	BLZP 5.08/06/180 SN OR BX	C.218
1943630000	BLZP 5.08/07/180 SN OR BX	C.218
1943640000	BLZP 5.08/08/180 SN OR BX	C.218
1943650000	BLZP 5.08/09/180 SN OR BX	C.218
1943660000	BLZP 5.08/10/180 SN OR BX	C.218
1943670000	BLZP 5.08/11/180 SN OR BX	C.218
1943680000	BLZP 5.08/12/180 SN OR BX	C.218
1943690000	BLZP 5.08/13/180 SN OR BX	C.218
1943700000	BLZP 5.08/14/180 SN OR BX	C.218
1943710000	BLZP 5.08/15/180 SN OR BX	C.218
1943720000	BLZP 5.08/16/180 SN OR BX	C.218
1943730000	BLZP 5.08/17/180 SN OR BX	C.218
1943740000	BLZP 5.08/18/180 SN OR BX	C.218
1943750000	BLZP 5.08/19/180 SN OR BX	C.218
1943760000	BLZP 5.08/20/180 SN OR BX	C.218
1943770000	BLZP 5.08/21/180 SN OR BX	C.218
1943780000	BLZP 5.08/22/180 SN OR BX	C.218
1943790000	BLZP 5.08/23/180 SN OR BX	C.218
1943800000	BLZP 5.08/24/180 SN OR BX	C.218
1943810000	BLZP 5.08/02/180 SN BK BX	C.218
1943820000	BLZP 5.08/03/180 SN BK BX	C.218
1943830000	BLZP 5.08/04/180 SN BK BX	C.218
1943840000	BLZP 5.08/05/180 SN BK BX	C.218
1943850000	BLZP 5.08/06/180 SN BK BX	C.218
1943860000	BLZP 5.08/07/180 SN BK BX	C.218
1943870000	BLZP 5.08/08/180 SN BK BX	C.218
1943880000	BLZP 5.08/09/180 SN BK BX	C.218
1943890000	BLZP 5.08/10/180 SN BK BX	C.218
1943900000	BLZP 5.08/11/180 SN BK BX	C.218
1943910000	BLZP 5.08/12/180 SN BK BX	C.218
1943920000	BLZP 5.08/13/180 SN BK BX	C.218
1943930000	BLZP 5.08/14/180 SN BK BX	C.218
1943940000	BLZP 5.08/15/180 SN BK BX	C.218
1943950000	BLZP 5.08/16/180 SN BK BX	C.218
1943960000	BLZP 5.08/17/180 SN BK BX	C.218
1943970000	BLZP 5.08/18/180 SN BK BX	C.218
1943980000	BLZP 5.08/19/180 SN BK BX	C.218
1943990000	BLZP 5.08/20/180 SN BK BX	C.218
1944000000	BLZP 5.08/21/180 SN BK BX	C.218
1944010000	BLZP 5.08/22/180 SN BK BX	C.218
1944020000	BLZP 5.08/23/180 SN BK BX	C.218
1944030000	BLZP 5.08/24/180 SN BK BX	C.218
1944090000	BLZP 5.08/02/180F SN OR BX	C.219

Order No.	Type	Page
1944100000	BLZP 5.08/03/180F SN OR BX	C.219
1944110000	BLZP 5.08/04/180F SN OR BX	C.219
1944120000	BLZP 5.08/05/180F SN OR BX	C.219
1944130000	BLZP 5.08/06/180F SN OR BX	C.219
1944140000	BLZP 5.08/07/180F SN OR BX	C.219
1944150000	BLZP 5.08/08/180F SN OR BX	C.219
1944160000	BLZP 5.08/09/180F SN OR BX	C.219
1944170000	BLZP 5.08/10/180F SN OR BX	C.219
1944180000	BLZP 5.08/11/180F SN OR BX	C.219
1944190000	BLZP 5.08/12/180F SN OR BX	C.219
1944200000	BLZP 5.08/13/180F SN OR BX	C.219
1944210000	BLZP 5.08/14/180F SN OR BX	C.219
1944220000	BLZP 5.08/15/180F SN OR BX	C.219
1944230000	BLZP 5.08/16/180F SN OR BX	C.219
1944240000	BLZP 5.08/17/180F SN OR BX	C.219
1944250000	BLZP 5.08/18/180F SN OR BX	C.219
1944260000	BLZP 5.08/19/180F SN OR BX	C.219
1944270000	BLZP 5.08/20/180F SN OR BX	C.219
1944280000	BLZP 5.08/21/180F SN OR BX	C.219
1944290000	BLZP 5.08/22/180F SN OR BX	C.219
1944300000	BLZP 5.08/23/180F SN OR BX	C.219
1944310000	BLZP 5.08/24/180F SN OR BX	C.219
1944330000	BLZP 5.08/02/180F SN BK BX	C.219
1944340000	BLZP 5.08/03/180F SN BK BX	C.219
1944350000	BLZP 5.08/04/180F SN BK BX	C.219
1944360000	BLZP 5.08/05/180F SN BK BX	C.219
1944370000	BLZP 5.08/06/180F SN BK BX	C.219
1944380000	BLZP 5.08/07/180F SN BK BX	C.219
1944390000	BLZP 5.08/08/180F SN BK BX	C.219
1944400000	BLZP 5.08/09/180F SN BK BX	C.219
1944410000	BLZP 5.08/10/180F SN BK BX	C.219
1944420000	BLZP 5.08/11/180F SN BK BX	C.219
1944430000	BLZP 5.08/12/180F SN BK BX	C.219
1944440000	BLZP 5.08/13/180F SN BK BX	C.219
1944450000	BLZP 5.08/14/180F SN BK BX	C.219
1944460000	BLZP 5.08/15/180F SN BK BX	C.219
1944470000	BLZP 5.08/16/180F SN BK BX	C.219
1944480000	BLZP 5.08/17/180F SN BK BX	C.219
1944490000	BLZP 5.08/18/180F SN BK BX	C.219
1944500000	BLZP 5.08/19/180F SN BK BX	C.219
1944510000	BLZP 5.08/20/180F SN BK BX	C.219
1944520000	BLZP 5.08/21/180F SN BK BX	C.219
1944530000	BLZP 5.08/22/180F SN BK BX	C.219
1944540000	BLZP 5.08/23/180F SN BK BX	C.219
1944550000	BLZP 5.08/24/180F SN BK BX	C.219
1944590000	B2L 3.50/06/180QV3 SN BK BX	C.18
1944600000	B2L 3.50/08/180QV4 SN BK BX	C.18
1944610000	B2L 3.50/10/180QV5 SN BK BX	C.18
1944620000	B2L 3.50/12/180QV6 SN BK BX	C.18
1944630000	B2L 3.50/14/180QV7 SN BK BX	C.18
1944640000	B2L 3.50/16/180QV8 SN BK BX	C.18
1944650000	B2L 3.50/18/180QV9 SN BK BX	C.18
1944670000	B2L 3.50/06/180FQV3 SN BK BX	C.19
1944680000	B2L 3.50/08/180FQV4 SN BK BX	C.19
1944690000	B2L 3.50/10/180FQV5 SN BK BX	C.19
1944700000	B2L 3.50/12/180FQV6 SN BK BX	C.19
1944710000	B2L 3.50/14/180FQV7 SN BK BX	C.19
1944720000	B2L 3.50/16/180FQV8 SN BK BX	C.19
1944730000	B2L 3.50/18/180FQV9 SN BK BX	C.19
1944750000	B2L 3.50/06/180LHQV3 SN BK BX	C.19
1944760000	B2L 3.50/08/180LHQV4 SN BK BX	C.19
1944770000	B2L 3.50/10/180LHQV5 SN BK BX	C.19
1944780000	B2L 3.50/12/180LHQV6 SN BK BX	C.19
1944790000	B2L 3.50/14/180LHQV7 SN BK BX	C.19
1944800000	B2L 3.50/16/180LHQV8 SN BK BX	C.19
1944810000	B2L 3.50/18/180LHQV9 SN BK BX	C.19
1944830000	BLZP 5.08/02/180LR SN OR BX	C.219
1944840000	BLZP 5.08/03/180LR SN OR BX	C.219
1944850000	BLZP 5.08/04/180LR SN OR BX	C.219
1944860000	BLZP 5.08/05/180LR SN OR BX	C.219
1944870000	BLZP 5.08/06/180LR SN OR BX	C.219
1944880000	BLZP 5.08/07/180LR SN OR BX	C.219
1944890000	BLZP 5.08/08/180LR SN OR BX	C.219
1944900000	BLZP 5.08/09/180LR SN OR BX	C.219
1944910000	BLZP 5.08/10/180LR SN OR BX	C.219
1944920000	BLZP 5.08/11/180LR SN OR BX	C.219
1944930000	BLZP 5.08/12/180LR SN OR BX	C.219
1944940000	BLZP 5.08/13/180LR SN OR BX	C.219
1944950000	BLZP 5.08/14/180LR SN OR BX	C.219
1944960000	BLZP 5.08/15/180LR SN OR BX	C.219
1944970000	BLZP 5.08/16/180LR SN OR BX	C.219
1944980000	BLZP 5.08/17/180LR SN OR BX	C.219
1944990000	BLZP 5.08/18/180LR SN OR BX	C.219
1945000000	BLZP 5.08/19/180LR SN OR BX	C.219
1945010000	BLZP 5.08/20/180LR SN OR BX	C.219
1945020000	BLZP 5.08/21/180LR SN OR BX	C.219
1945030000	BLZP 5.08/22/180LR SN OR BX	C.219
1945040000	BLZP 5.08/23/180LR SN OR BX	C.219
1945050000	BLZP 5.08/24/180LR SN OR BX	C.219
1945060000	BLZP 5.08/02/180LR SN BK BX	C.219
1945070000	BLZP 5.08/03/180LR SN BK BX	C.219
1945080000	BLZP 5.08/04/180LR SN BK BX	C.219
1945090000	BLZP 5.08/05/180LR SN BK BX	C.219
1945100000	BLZP 5.08/06/180LR SN BK BX	C.219
1945110000	BLZP 5.08/07/180LR SN BK BX	C.219
1945120000	BLZP 5.08/08/180LR SN BK BX	C.219
1945130000	BLZP 5.08/09/180LR SN BK BX	C.219
1945140000	BLZP 5.08/10/180LR SN BK BX	C.219
1945150000	BLZP 5.08/11/180LR SN BK BX	C.219

Order No.	Type	Page
1945160000	BLZP 5.08/12/180LR SN BK BX	C.219
1945170000	BLZP 5.08/13/180LR SN BK BX	C.219
1945180000	BLZP 5.08/14/180LR SN BK BX	C.219
1945190000	BLZP 5.08/15/180LR SN BK BX	C.219
1945200000	BLZP 5.08/16/180LR SN BK BX	C.219
1945210000	BLZP 5.08/17/180LR SN BK BX	C.219
1945220000	BLZP 5.08/18/180LR SN BK BX	C.219
1945230000	BLZP 5.08/19/180LR SN BK BX	C.219
1945240000	BLZP 5.08/20/180LR SN BK BX	C.219
1945250000	BLZP 5.08/21/180LR SN BK BX	C.219
1945260000	BLZP 5.08/22/180LR SN BK BX	C.219
1945270000	BLZP 5.08/23/180LR SN BK BX	C.219
1945280000	BLZP 5.08/24/180LR SN BK BX	C.219
1945750000	BLZP 5.08/02/225B SN OR BX	C.225
1945760000	BLZP 5.08/03/225B SN OR BX	C.225
1945770000	BLZP 5.08/04/225B SN OR BX	C.225
1945780000	BLZP 5.08/05/225B SN OR BX	C.225
1945790000	BLZP 5.08/06/225B SN OR BX	C.225
1945800000	BLZP 5.08/07/225B SN OR BX	C.225
1945810000	BLZP 5.08/08/225B SN OR BX	C.225
1945820000	BLZP 5.08/09/225B SN OR BX	C.225
1945830000	BLZP 5.08/10/225B SN OR BX	C.225
1945840000	BLZP 5.08/11/225B SN OR BX	C.225
1945850000	BLZP 5.08/12/225B SN OR BX	C.225
1945860000	BLZP 5.08/13/225B SN OR BX	C.225
1945870000	BLZP 5.08/14/225B SN OR BX	C.225
1945880000	BLZP 5.08/15/225B SN OR BX	C.225
1945890000	BLZP 5.08/16/225B SN OR BX	C.225
1945900000	BLZP 5.08/17/225B SN OR BX	C.225
1945910000	BLZP 5.08/18/225B SN OR BX	C.225
1945920000	BLZP 5.08/19/225B SN OR BX	C.225
1945930000	BLZP 5.08/20/225B SN OR BX	C.225
1945940000	BLZP 5.08/21/225B SN OR BX	C.225
1945950000	BLZP 5.08/22/225B SN OR BX	C.225
1945960000	BLZP 5.08/23/225B SN OR BX	C.225
1945970000	BLZP 5.08/24/225B SN OR BX	C.225
1945980000	BLZP 5.08/02/225B SN BK BX	C.225
1945990000	BLZP 5.08/03/225B SN BK BX	C.225
1946000000	BLZP 5.08/04/225B SN BK BX	C.225
1946010000	BLZP 5.08/05/225B SN BK BX	C.225
1946020000	BLZP 5.08/06/225B SN BK BX	C.225
1946030000	BLZP 5.08/07/225B SN BK BX	C.225
1946040000	BLZP 5.08/08/225B SN BK BX	C.225
1946050000	BLZP 5.08/09/225B SN BK BX	C.225
1946060000	BLZP 5.08/10/225B SN BK BX	C.225
1946070000	BLZP 5.08/11/225B SN BK BX	C.225
1946080000	BLZP 5.08/12/225B SN BK BX	C.225
1946090000	BLZP 5.08/13/225B SN BK BX	C.225
1946100000	BLZP 5.08/14/225B SN BK BX	C.225
1946110000	BLZP 5.08/15/225B SN BK BX	C.225
1946120000	BLZP 5.08/16/225B SN BK BX	C.225
1946130000	BLZP 5.08/17/225B SN BK BX	C.225
1946140000	BLZP 5.08/18/225B SN BK BX	C.225
1946150000	BLZP 5.08/19/225B SN BK BX	C.225
1946160000	BLZP 5.08/20/225B SN BK BX	C.225
1946170000	BLZP 5.08/21/225B SN BK BX	C.225
1946180000	BLZP 5.08/22/225B SN BK BX	C.225
1946190000	BLZP 5.08/23/225B SN BK BX	C.225
1946200000	BLZP 5.08/24/225B SN BK BX	C.225
1946250000	BLZP 5.08/02/225 SN OR BX	C.224
1946260000	BLZP 5.08/03/225 SN OR BX	C.224
1946270000	BLZP 5.08/04/225 SN OR BX	C.224
1946280000	BLZP 5.08/05/225 SN OR BX	C.224
1946290000	BLZP 5.08/06/225 SN OR BX	C.224
1946300000	BLZP 5.08/07/225 SN OR BX	C.224
1946310000	BLZP 5.08/08/225 SN OR BX	C.224
1946320000	BLZP 5.08/09/225 SN OR BX	C.224
1946330000	BLZP 5.08/10/225 SN OR BX	C.224
1946340000	BLZP 5.08/11/225 SN OR BX	C.224
1946350000	BLZP 5.08/12/225 SN OR BX	C.224
1946360000	BLZP 5.08/13/225 SN OR BX	C.224
1946370000	BLZP 5.08/14/225 SN OR BX	C.224
1946380000	BLZP 5.08/15/225 SN OR BX	C.224
1946390000	BLZP 5.08/16/225 SN OR BX	C.224
1946400000	BLZP 5.08/17/225 SN OR BX	C.224
1946410000	BLZP 5.08/18/225 SN OR BX	C.224
1946420000	BLZP 5.08/19/225 SN OR BX	C.224
1946430000	BLZP 5.08/20/225 SN OR BX	C.224
1946440000	BLZP 5.08/21/225 SN OR BX	C.224
1946450000	BLZP 5.08/22/225 SN OR BX	C.224
1946460000	BLZP 5.08/23/225 SN OR BX	C.224
1946480000	BLZP 5.08/24/225 SN OR BX	C.224
1946560000	BLZP 5.08/02/225 SN BK BX	C.224
1946570000	BLZP 5.08/03/225 SN BK BX	C.224
1946580000	BLZP 5.08/04/225 SN BK BX	C.224
1946590000	BLZP 5.08/05/225 SN BK BX	C.224
1946600000	BLZP 5.08/06/225 SN BK BX	C.224
1946610000	BLZP 5.08/07/225 SN BK BX	C.224
1946620000	BLZP 5.08/08/225 SN BK BX	C.224
1946630000	BLZP 5.08/09/225 SN BK BX	C.224
1946640000	BLZP 5.08/10/225 SN BK BX	C.224
1946650000	BLZP 5.08/11/225 SN BK BX	C.224
1946660000	BLZP 5.08/12/225 SN BK BX	C.224
1946670000	BLZP 5.08/13/225 SN BK BX	C.224
1946680000	BLZP 5.08/14/225 SN BK BX	C.224
1946690000	BLZP 5.08/15/225 SN BK BX	C.224
1946700000	BLZP 5.08/16/225 SN BK BX	C.224
1946710000	BLZP 5.08/17/225 SN BK BX	C.224
1946720000	BLZP 5.08/18/225 SN BK BX	C.224

Order No.	Type	Page
1946730000	BLZP 5.08/19/225 SN BK BX	C.224
1946740000	BLZP 5.08/20/225 SN BK BX	C.224
1946750000	BLZP 5.08/21/225 SN BK BX	C.224
1946760000	BLZP 5.08/22/225 SN BK BX	C.224
1946770000	BLZP 5.08/23/225 SN BK BX	C.224
1946780000	BLZP 5.08/24/225 SN BK BX	C.224
1947480000	SUZ 10.16HP/02/180G AG BK BX	F.86
1947490000	SUZ 10.16HP/03/180G AG BK BX	F.86
1947500000	SUZ 10.16HP/04/180G AG BK BX	F.86
1947510000	SUZ 10.16HP/05/180G AG BK BX	F.86
1947530000	BLZP 5.08/02/270LR SN OR BX	C.223
1947540000	BLZP 5.08/03/270LR SN OR BX	C.223
1947550000	BLZP 5.08/04/270LR SN OR BX	C.223
1947560000	BLZP 5.08/05/270LR SN OR BX	C.223
1947570000	BLZP 5.08/06/270LR SN OR BX	C.223
1947580000	BLZP 5.08/07/270LR SN OR BX	C.223
1947590000	BLZP 5.08/08/270LR SN OR BX	C.223
1947600000	BLZP 5.08/09/270LR SN OR BX	C.223
1947610000	BLZP 5.08/10/270LR SN OR BX	C.223
1947620000	BLZP 5.08/11/270LR SN OR BX	C.223
1947630000	BLZP 5.08/12/270LR SN OR BX	C.223
1947640000	BLZP 5.08/13/270LR SN OR BX	C.223
1947650000	BLZP 5.08/14/270LR SN OR BX	C.223
1947660000	BLZP 5.08/15/270LR SN OR BX	C.223
1947670000	BLZP 5.08/16/270LR SN OR BX	C.223
1947680000	BLZP 5.08/17/270LR SN OR BX	C.223
1947690000	BLZP 5.08/18/270LR SN OR BX	C.223
1947700000	BLZP 5.08/19/270LR SN OR BX	C.223
1947710000	BLZP 5.08/20/270LR SN OR BX	C.223
1947720000	BLZP 5.08/21/270LR SN OR BX	C.223
1947730000	BLZP 5.08/22/270LR SN OR BX	C.223
1947740000	BLZP 5.08/23/270LR SN OR BX	C.223
1947750000	BLZP 5.08/24/270LR SN OR BX	C.223
1947760000	BLZP 5.08/02/270LR SN BK BX	C.223
1947770000	BLZP 5.08/03/270LR SN BK BX	C.223
1947780000	BLZP 5.08/04/270LR SN BK BX	C.223
1947790000	BLZP 5.08/05/270LR SN BK BX	C.223
1947800000	BLZP 5.08/06/270LR SN BK BX	C.223
1947810000	BLZP 5.08/07/270LR SN BK BX	C.223
1947820000	BLZP 5.08/08/270LR SN BK BX	C.223
1947830000	BLZP 5.08/09/270LR SN BK BX	C.223
1947840000	BLZP 5.08/10/270LR SN BK BX	C.223
1947850000	BLZP 5.08/11/270LR SN BK BX	C.223
1947860000	BLZP 5.08/12/270LR SN BK BX	C.223
1947870000	BLZP 5.08/13/270LR SN BK BX	C.223
1947880000	BLZP 5.08/14/270LR SN BK BX	C.223
1947890000	BLZP 5.08/15/270LR SN BK BX	C.223
1947900000	BLZP 5.08/16/270LR SN BK BX	C.223
1947910000	BLZP 5.08/17/270LR SN BK BX	C.223
1947920000	BLZP 5.08/18/270LR SN BK BX	C.223
1947930000	BLZP 5.08/19/270LR SN BK BX	C.223
1947940000	BLZP 5.08/20/270LR SN BK BX	C.223
1947950000	BLZP 5.08/21/270LR SN BK BX	C.223
1947960000	BLZP 5.08/22/270LR SN BK BX	C.223
1947970000	BLZP 5.08/23/270LR SN BK BX	C.223
1947980000	BLZP 5.08/24/270LR SN BK BX	C.223
1948000000	BLZP 5.08/02/90 SN OR BX	C.220
1948010000	BLZP 5.08/03/90 SN OR BX	C.220
1948020000	BLZP 5.08/04/90 SN OR BX	C.220
1948030000	BLZP 5.08/05/90 SN OR BX	C.220
1948040000	BLZP 5.08/06/90 SN OR BX	C.220
1948050000	BLZP 5.08/07/90 SN OR BX	C.220
1948060000	BLZP 5.08/08/90 SN OR BX	C.220
1948070000	BLZP 5.08/09/90 SN OR BX	C.220
1948080000	BLZP 5.08/10/90 SN OR BX	C.220
1948100000	BLZP 5.08/11/90 SN OR BX	C.220
1948110000	BLZP 5.08/12/90 SN OR BX	C.220
1948120000	BLZP 5.08/13/90 SN OR BX	C.220
1948130000	BLZP 5.08/14/90 SN OR BX	C.220
1948140000	BLZP 5.08/15/90 SN OR BX	C.220
1948150000	BLZP 5.08/16/90 SN OR BX	C.220
1948160000	BLZP 5.08/17/90 SN OR BX	C.220
1948170000	BLZP 5.08/18/90 SN OR BX	C.220
1948180000	BLZP 5.08/19/90 SN OR BX	C.220
1948190000	BLZP 5.08/20/90 SN OR BX	C.220
1948200000	BLZP 5.08/21/90 SN OR BX	C.220
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1948220000	BLZP 5.08/23/90 SN OR BX	C.220
1948230000	BLZP 5.08/24/90 SN OR BX	C.220
1948240000	BLZP 5.08/02/90 SN BK BX	C.220
1948250000	BLZP 5.08/03/90 SN BK BX	C.220
1948260000	BLZP 5.08/04/90 SN BK BX	C.220
1948270000	BLZP 5.08/05/90 SN BK BX	C.220
1948280000	BLZP 5.08/06/90 SN BK BX	C.220
1948290000	BLZP 5.08/07/90 SN BK BX	C.220
1948300000	BLZP 5.08/08/90 SN BK BX	C.220
1948310000	BLZP 5.08/09/90 SN BK BX	C.220
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1948330000	BLZP 5.08/11/90 SN BK BX	C.220
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1948350000	BLZP 5.08/13/90 SN BK BX	C.220
1948360000	BLZP 5.08/14/90 SN BK BX	C.220
1948370000	BLZP 5.08/15/90 SN BK BX	C.220
1948380000	BLZP 5.08/16/90 SN BK BX	C.220
1948390000	BLZP 5.08/17/90 SN BK BX	C.220
1948400000	BLZP 5.08/18/90 SN BK BX	C.220
1948410000	BLZP 5.08/19/90 SN BK BX	C.220
1948420000	BLZP 5.08/20/90 SN BK BX	C.220
1948430000	BLZP 5.08/21/90 SN BK BX	C.220

Order No.	Type	Page
1948440000	BLZP 5.08/22/90 SN BK BX	C.220
1948450000	BLZP 5.08/23/90 SN BK BX	C.220
1948460000	BLZP 5.08/24/90 SN BK BX	C.220
1948790000	BLZP 5.08/02/270 SN OR BX	C.222
1948800000	BLZP 5.08/03/270 SN OR BX	C.222
1948810000	BLZP 5.08/04/270 SN OR BX	C.222
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1948830000	BLZP 5.08/06/270 SN OR BX	C.222
1948840000	BLZP 5.08/07/270 SN OR BX	C.222
1948850000	BLZP 5.08/08/270 SN OR BX	C.222
1948860000	BLZP 5.08/09/270 SN OR BX	C.222
1948870000	BLZP 5.08/10/270 SN OR BX	C.222
1948880000	BLZP 5.08/11/270 SN OR BX	C.222
1948890000	BLZP 5.08/12/270 SN OR BX	C.222
1948900000	BLZP 5.08/13/270 SN OR BX	C.222
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1948920000	BLZP 5.08/15/270 SN OR BX	C.222
1948930000	BLZP 5.08/16/270 SN OR BX	C.222
1948940000	BLZP 5.08/17/270 SN OR BX	C.222
1948950000	BLZP 5.08/18/270 SN OR BX	C.222
1948960000	BLZP 5.08/19/270 SN OR BX	C.222
1948970000	BLZP 5.08/20/270 SN OR BX	C.222
1948980000	BLZP 5.08/21/270 SN OR BX	C.222
1948990000	BLZP 5.08/22/270 SN OR BX	C.222
1949000000	BLZP 5.08/23/270 SN OR BX	C.222
1949010000	BLZP 5.08/24/270 SN OR BX	C.222
1949020000	BLZP 5.08/02/270 SN BK BX	C.222
1949030000	BLZP 5.08/03/270 SN BK BX	C.222
1949040000	BLZP 5.08/04/270 SN BK BX	C.222
1949050000	BLZP 5.08/05/270 SN BK BX	C.222
1949060000	BLZP 5.08/06/270 SN BK BX	C.222
1949070000	BLZP 5.08/07/270 SN BK BX	C.222
1949080000	BLZP 5.08/08/270 SN BK BX	C.222
1949090000	BLZP 5.08/09/270 SN BK BX	C.222
1949100000	BLZP 5.08/10/270 SN BK BX	C.222
1949110000	BLZP 5.08/11/270 SN BK BX	C.222
1949120000	BLZP 5.08/12/270 SN BK BX	C.222
1949130000	BLZP 5.08/13/270 SN BK BX	C.222
1949140000	BLZP 5.08/14/270 SN BK BX	C.222
1949150000	BLZP 5.08/15/270 SN BK BX	C.222
1949160000	BLZP 5.08/16/270 SN BK BX	C.222
1949170000	BLZP 5.08/17/270 SN BK BX	C.222
1949180000	BLZP 5.08/18/270 SN BK BX	C.222
1949190000	BLZP 5.08/19/270 SN BK BX	C.222
1949200000	BLZP 5.08/20/270 SN BK BX	C.222
1949210000	BLZP 5.08/21/270 SN BK BX	C.222
1949220000	BLZP 5.08/22/270 SN BK BX	C.222
1949230000	BLZP 5.08/23/270 SN BK BX	C.222
1949240000	BLZP 5.08/24/270 SN BK BX	C.222
1949800000	BLZP 5.08/02/90F SN OR BX	C.221
1949810000	BLZP 5.08/03/90F SN OR BX	C.221
1949820000	BLZP 5.08/04/90F SN OR BX	C.221
1949830000	BLZP 5.08/05/90F SN OR BX	C.221
1949840000	BLZP 5.08/06/90F SN OR BX	C.221
1949850000	BLZP 5.08/07/90F SN OR BX	C.221
1949860000	BLZP 5.08/08/90F SN OR BX	C.221
1949870000	BLZP 5.08/09/90F SN OR BX	C.221
1949880000	BLZP 5.08/10/90F SN OR BX	C.221
1949890000	BLZP 5.08/11/90F SN OR BX	C.221
1949900000	BLZP 5.08/12/90F SN OR BX	C.221
1949910000	BLZP 5.08/13/90F SN OR BX	C.221
1949920000	BLZP 5.08/14/90F SN OR BX	C.221
1949930000	BLZP 5.08/15/90F SN OR BX	C.221
1949940000	BLZP 5.08/16/90F SN OR BX	C.221
1949950000	BLZP 5.08/17/90F SN OR BX	C.221
1949960000	BLZP 5.08/18/90F SN OR BX	C.221
1949970000	BLZP 5.08/19/90F SN OR BX	C.221
1949980000	BLZP 5.08/20/90F SN OR BX	C.221
1949990000	BLZP 5.08/21/90F SN OR BX	C.221

1950000000

1950010000	BLZP 5.08/22/90F SN OR BX	C.221
1950020000	BLZP 5.08/23/90F SN OR BX	C.221
1950030000	BLZP 5.08/24/90F SN OR BX	C.221
1950040000	BLZP 5.08/02/90F SN BK BX	C.221
1950050000	BLZP 5.08/03/90F SN BK BX	C.221
1950060000	BLZP 5.08/04/90F SN BK BX	C.221
1950070000	BLZP 5.08/05/90F SN BK BX	C.221
1950080000	BLZP 5.08/06/90F SN BK BX	C.221
1950090000	BLZP 5.08/07/90F SN BK BX	C.221
1950100000	BLZP 5.08/08/90F SN BK BX	C.221
1950110000	BLZP 5.08/09/90F SN BK BX	C.221
1950120000	BLZP 5.08/10/90F SN BK BX	C.221
1950130000	BLZP 5.08/11/90F SN BK BX	C.221
1950140000	BLZP 5.08/12/90F SN BK BX	C.221
1950150000	BLZP 5.08/13/90F SN BK BX	C.221
1950160000	BLZP 5.08/14/90F SN BK BX	C.221
1950170000	BLZP 5.08/15/90F SN BK BX	C.221
1950180000	BLZP 5.08/16/90F SN BK BX	C.221
1950190000	BLZP 5.08/17/90F SN BK BX	C.221
1950200000	BLZP 5.08/18/90F SN BK BX	C.221
1950210000	BLZP 5.08/19/90F SN BK BX	C.221
1950220000	BLZP 5.08/20/90F SN BK BX	C.221
1950230000	BLZP 5.08/21/90F SN BK BX	C.221
1950240000	BLZP 5.08/22/90F SN BK BX	C.221
1950250000	BLZP 5.08/23/90F SN BK BX	C.221
1950260000	BLZP 5.08/24/90F SN BK BX	C.221
1950310000	BLZP 5.08/02/270F SN OR BX	C.223
1950320000	BLZP 5.08/03/270F SN OR BX	C.223
1950330000	BLZP 5.08/04/270F SN OR BX	C.223
1950340000	BLZP 5.08/05/270F SN OR BX	C.223
1950350000	BLZP 5.08/06/270F SN OR BX	C.223
1950360000	BLZP 5.08/07/270F SN OR BX	C.223
1950370000	BLZP 5.08/08/270F SN OR BX	C.223
1950380000	BLZP 5.08/09/270F SN OR BX	C.223
1950390000	BLZP 5.08/10/270F SN OR BX	C.223
1950400000	BLZP 5.08/11/270F SN OR BX	C.223
1950410000	BLZP 5.08/12/270F SN OR BX	C.223
1950420000	BLZP 5.08/13/270F SN OR BX	C.223
1950430000	BLZP 5.08/14/270F SN OR BX	C.223
1950440000	BLZP 5.08/15/270F SN OR BX	C.223
1950450000	BLZP 5.08/16/270F SN OR BX	C.223
1950460000	BLZP 5.08/17/270F SN OR BX	C.223
1950470000	BLZP 5.08/18/270F SN OR BX	C.223
1950480000	BLZP 5.08/19/270F SN OR BX	C.223
1950490000	BLZP 5.08/20/270F SN OR BX	C.223
1950500000	BLZP 5.08/21/270F SN OR BX	C.223
1950510000	BLZP 5.08/22/270F SN OR BX	C.223
1950520000	BLZP 5.08/23/270F SN OR BX	C.223
1950540000	BLZP 5.08/24/270F SN OR BX	C.223
1950550000	BLZP 5.08/02/270F SN BK BX	C.223
1950560000	BLZP 5.08/03/270F SN BK BX	C.223
1950570000	BLZP 5.08/04/270F SN BK BX	C.223
1950580000	BLZP 5.08/05/270F SN BK BX	C.223
1950620000	BLZP 5.08/06/270F SN BK BX	C.223
1950630000	BLZP 5.08/07/270F SN BK BX	C.223
1950640000	BLZP 5.08/08/270F SN BK BX	C.223
1950650000	BLZP 5.08/09/270F SN BK BX	C.223
1950660000	BLZP 5.08/10/270F SN BK BX	C.223
1950670000	BLZP 5.08/11/270F SN BK BX	C.223
1950690000	BLZP 5.08/12/270F SN BK BX	C.223
1950700000	BLZP 5.08/13/270F SN BK BX	C.223
1950710000	BLZP 5.08/14/270F SN BK BX	C.223
1950720000	BLZP 5.08/15/270F SN BK BX	C.223
1950730000	BLZP 5.08/16/270F SN BK BX	C.223
1950740000	BLZP 5.08/17/270F SN BK BX	C.223
1950750000	BLZP 5.08/18/270F SN BK BX	C.223
1950760000	BLZP 5.08/19/270F SN BK BX	C.223
1950770000	BLZP 5.08/20/270F SN BK BX	C.223
1950780000	BLZP 5.08/21/270F SN BK BX	C.223
1950790000	BLZP 5.08/22/270F SN BK BX	C.223
1950800000	BLZP 5.08/23/270F SN BK BX	C.223
1950810000	BLZP 5.08/24/270F SN BK BX	C.223
1950880000	SVZ 7.62HP/02/180FC SN BK BX	F.40
1950890000	SVZ 7.62HP/03/180FC SN BK BX	F.40
1950900000	SVZ 7.62HP/04/180FC SN BK BX	F.40
1950910000	SVZ 7.62HP/05/180FC SN BK BX	F.40
1950920000	SVZ 7.62HP/06/180FC SN BK BX	F.40
1950930000	SVZ 7.62HP/07/180FC SN BK BX	F.40
1950990000	SVZ 7.62HP/02/180SFC SN BK BX	F.41
1951000000	SVZ 7.62HP/03/180SFC SN BK BX	F.41
1951010000	SVZ 7.62HP/04/180SFC SN BK BX	F.41
1951020000	SVZ 7.62HP/05/180SFC SN BK BX	F.41
1951030000	SVZ 7.62HP/06/180SFC SN BK BX	F.41
1951050000	SVZ 7.62HP/07/180SFC SN BK BX	F.41
1951150000	SVZ 7.62HP/03/180SH180C SN BK BX	F.46
1951160000	SVZ 7.62HP/04/180SH180C SN BK BX	F.46
1951170000	SVZ 7.62HP/05/180SH180C SN BK BX	F.46
1951180000	SVZ 7.62HP/06/180SH180C SN BK BX	F.46
1952570000	LMZF 7/2/135 3.50R	B.98
1952580000	LMZF 7/3/135 3.50R	B.98
1952590000	LMZF 7/4/135 3.50R	B.98
1952600000	LMZF 7/5/135 3.50R	B.98
1952610000	LMZF 7/6/135 3.50R	B.98
1952620000	LMZF 7/7/135 3.50R	B.98
1952630000	LMZF 7/8/135 3.50R	B.98
1952640000	LMZF 7/9/135 3.50R	B.98
1952650000	LMZF 7/10/135 3.50R	B.98
1952660000	LMZF 7/11/135 3.50R	B.98
1952670000	LMZF 7/12/135 3.50R	B.98
1953010000	LMZFL 7/2/135 3.50R	B.99
1953020000	LMZFL 7/3/135 3.50R	B.99
1953030000	LMZFL 7/4/135 3.50R	B.99
1953040000	LMZFL 7/5/135 3.50R	B.99
1953050000	LMZFL 7/6/135 3.50R	B.99
1953060000	LMZFL 7/7/135 3.50R	B.99
1953070000	LMZFL 7/8/135 3.50R	B.99
1953080000	LMZFL 7/9/135 3.50R	B.99
1953090000	LMZFL 7/10/135 3.50R	B.99
1953100000	LMZFL 7/11/135 3.50R	B.99
1953110000	LMZFL 7/12/135 3.50R	B.99
1953470000	LMZF 10/2/135 3.50R	B.100
1953480000	LMZF 10/3/135 3.50R	B.100
1953490000	LMZF 10/4/135 3.50R	B.100
1953500000	LMZF 10/5/135 3.50R	B.100
1953510000	LMZF 10/6/135 3.50R	B.100
1953520000	LMZF 10/7/135 3.50R	B.100
1953530000	LMZF 10/8/135 3.50R	B.100
1953540000	LMZF 10/9/135 3.50R	B.100
1953550000	LMZF 10/10/135 3.50R	B.100
1953560000	LMZF 10/11/135 3.50R	B.100
1953570000	LMZF 10/12/135 3.50R	B.100
1953930000	LMZFL 10/2/135 3.50R	B.101
1953940000	LMZFL 10/3/135 3.50R	B.101
1953950000	LMZFL 10/4/135 3.50R	B.101
1953960000	LMZFL 10/5/135 3.50R	B.101
1953970000	LMZFL 10/6/135 3.50R	B.101
1953980000	LMZFL 10/7/135 3.50R	B.101
1953990000	LMZFL 10/8/135 3.50R	B.101
1954000000	LMZFL 10/9/135 3.50R	B.101
1954010000	LMZFL 10/10/135 3.50R	B.101
1954020000	LMZFL 10/11/135 3.50R	B.101
1954030000	LMZFL 10/12/135 3.50R	B.101
1954260000	BLZP 5.00/24/180 SN OR BX	C.152
1954270000	BLZP 5.00/23/180 SN OR BX	C.152
1954280000	BLZP 5.00/22/180 SN OR BX	C.152
1954290000	BLZP 5.00/21/180 SN OR BX	C.152
1954300000	BLZP 5.00/20/180 SN OR BX	C.152
1954310000	BLZP 5.00/19/180 SN OR BX	C.152
1954320000	BLZP 5.00/18/180 SN OR BX	C.152
1954330000	BLZP 5.00/17/180 SN OR BX	C.152
1954350000	BLZP 5.00/16/180 SN OR BX	C.152
1954360000	BLZP 5.00/15/180 SN OR BX	C.152
1954370000	BLZP 5.00/14/180 SN OR BX	C.152
1954380000	BLZP 5.00/13/180 SN OR BX	C.152
1954390000	BLZP 5.00/12/180 SN OR BX	C.152
1954400000	BLZP 5.00/11/180 SN OR BX	C.152
1954410000	BLZP 5.00/10/180 SN OR BX	C.152
1954420000	BLZP 5.00/09/180 SN OR BX	C.152
1954430000	BLZP 5.00/08/180 SN OR BX	C.152
1954440000	BLZP 5.00/07/180 SN OR BX	C.152
1954450000	BLZP 5.00/06/180 SN OR BX	C.152
1954460000	BLZP 5.00/05/180 SN OR BX	C.152
1954470000	BLZP 5.00/04/180 SN OR BX	C.152
1954480000	BLZP 5.00/03/180 SN OR BX	C.152
1954490000	BLZP 5.00/02/180 SN OR BX	C.152
1955350000	BLZP 5.00/24/180 SN BK BX	C.152
1955360000	BLZP 5.00/23/180 SN BK BX	C.152
1955370000	BLZP 5.00/22/180 SN BK BX	C.152
1955380000	BLZP 5.00/21/180 SN BK BX	C.152
1955390000	BLZP 5.00/20/180 SN BK BX	C.152
1955400000	BLZP 5.00/19/180 SN BK BX	C.152
1955410000	BLZP 5.00/18/180 SN BK BX	C.152
1955420000	BLZP 5.00/17/180 SN BK BX	C.152
1955430000	BLZP 5.00/16/180 SN BK BX	C.152
1955440000	BLZP 5.00/15/180 SN BK BX	C.152
1955450000	BLZP 5.00/14/180 SN BK BX	C.152
1955460000	BLZP 5.00/13/180 SN BK BX	C.152
1955470000	BLZP 5.00/12/180 SN BK BX	C.152
1955480000	BLZP 5.00/11/180 SN BK BX	C.152
1955490000	BLZP 5.00/10/180 SN BK BX	C.152
1955500000	BLZP 5.00/09/180 SN BK BX	C.152
1955510000	BLZP 5.00/08/180 SN BK BX	C.152
1955520000	BLZP 5.00/07/180 SN BK BX	C.152
1955530000	BLZP 5.00/06/180 SN BK BX	C.152
1955540000	BLZP 5.00/05/180 SN BK BX	C.152
1955550000	BLZP 5.00/04/180 SN BK BX	C.152
1955560000	BLZP 5.00/03/180 SN BK BX	C.152
1955570000	BLZP 5.00/02/180 SN BK BX	C.152
1955580000	BLZP 5.00/24/180F SN OR BX	C.153
1955590000	BLZP 5.00/23/180F SN OR BX	C.153
1955600000	BLZP 5.00/22/180F SN OR BX	C.153
1955610000	BLZP 5.00/21/180F SN OR BX	C.153
1955620000	BLZP 5.00/20/180F SN OR BX	C.153
1955630000	BLZP 5.00/19/180F SN OR BX	C.153
1955640000	BLZP 5.00/18/180F SN OR BX	C.153
1955650000	BLZP 5.00/17/180F SN OR BX	C.153
1955660000	BLZP 5.00/16/180F SN OR BX	C.153
1955670000	BLZP 5.00/15/180F SN OR BX	C.153
1955680000	BLZP 5.00/14/180F SN OR BX	C.153
1955690000	BLZP 5.00/13/180F SN OR BX	C.153
1955700000	BLZP 5.00/12/180F SN OR BX	C.153
1955710000	BLZP 5.00/11/180F SN OR BX	C.153
1955720000	BLZP 5.00/10/180F SN OR BX	C.153
1955730000	BLZP 5.00/09/180F SN OR BX	C.153
1955740000	BLZP 5.00/08/180F SN OR BX	C.153
1955750000	BLZP 5.00/07/180F SN OR BX	C.153
1955760000	BLZP 5.00/06/180F SN OR BX	C.153
1955770000	BLZP 5.00/05/180F SN OR BX	C.153
1955780000	BLZP 5.00/04/180F SN OR BX	C.153
1955790000	BLZP 5.00/03/180F SN OR BX	C.153
1955800000	BLZP 5.00/02/180F SN OR BX	C.153
1955810000	BLZP 5.00/24/180F SN BK BX	C.153
1955820000	BLZP 5.00/23/180F SN BK BX	C.153
1955830000	BLZP 5.00/22/180F SN BK BX	C.153
1955840000	BLZP 5.00/21/180F SN BK BX	C.153
1955850000	BLZP 5.00/20/180F SN BK BX	C.153
1955860000	BLZP 5.00/19/180F SN BK BX	C.153
1955870000	BLZP 5.00/18/180F SN BK BX	C.153
1955880000	BLZP 5.00/17/180F SN BK BX	C.153
1955890000	BLZP 5.00/16/180F SN BK BX	C.153
1955900000	BLZP 5.00/15/180F SN BK BX	C.153
1955910000	BLZP 5.00/14/180F SN BK BX	C.153
1955920000	BLZP 5.00/13/180F SN BK BX	C.153
1955930000	BLZP 5.00/12/180F SN BK BX	C.153
1955940000	BLZP 5.00/11/180F SN BK BX	C.153
1955950000	BLZP 5.00/10/180F SN BK BX	C.153
1955960000	BLZP 5.00/09/180F SN BK BX	C.153
1955970000	BLZP 5.00/08/180F SN BK BX	C.153
1955980000	BLZP 5.00/07/180F SN BK BX	C.153
1955990000	BLZP 5.00/06/180F SN BK BX	C.153
1956000000	BLZP 5.00/05/180F SN BK BX	C.153
1956010000	BLZP 5.00/04/180F SN BK BX	C.153
1956020000	BLZP 5.00/03/180F SN BK BX	C.153
1956030000	BLZP 5.00/02/180F SN BK BX	C.153
1956150000	BLZP 5.00/24/180LR SN OR BX	C.153

Order No.	Type	Page
1956160000	BLZP 5.00/23/180LR SN OR BX	C.153
1956170000	BLZP 5.00/22/180LR SN OR BX	C.153
1956180000	BLZP 5.00/21/180LR SN OR BX	C.153
1956190000	BLZP 5.00/20/180LR SN OR BX	C.153
1956200000	BLZP 5.00/19/180LR SN OR BX	C.153
1956210000	BLZP 5.00/18/180LR SN OR BX	C.153
1956220000	BLZP 5.00/17/180LR SN OR BX	C.153
1956230000	BLZP 5.00/16/180LR SN OR BX	C.153
1956240000	BLZP 5.00/15/180LR SN OR BX	C.153
1956250000	BLZP 5.00/14/180LR SN OR BX	C.153
1956260000	BLZP 5.00/13/180LR SN OR BX	C.153
1956270000	BLZP 5.00/12/180LR SN OR BX	C.153
1956280000	BLZP 5.00/11/180LR SN OR BX	C.153
1956290000	BLZP 5.00/10/180LR SN OR BX	C.153
1956300000	BLZP 5.00/09/180LR SN OR BX	C.153
1956310000	BLZP 5.00/08/180LR SN OR BX	C.153
1956320000	BLZP 5.00/07/180LR SN OR BX	C.153
1956330000	BLZP 5.00/06/180LR SN OR BX	C.153
1956340000	BLZP 5.00/05/180LR SN OR BX	C.153
1956350000	BLZP 5.00/04/180LR SN OR BX	C.153
1956360000	BLZP 5.00/03/180LR SN OR BX	C.153
1956370000	BLZP 5.00/02/180LR SN OR BX	C.153
1956380000	BLZP 5.00/24/180LR SN BK BX	C.153
1956390000	BLZP 5.00/23/180LR SN BK BX	C.153
1956400000	BLZP 5.00/22/180LR SN BK BX	C.153
1956410000	BLZP 5.00/21/180LR SN BK BX	C.153
1956420000	BLZP 5.00/20/180LR SN BK BX	C.153
1956430000	BLZP 5.00/19/180LR SN BK BX	C.153
1956440000	BLZP 5.00/18/180LR SN BK BX	C.153
1956450000	BLZP 5.00/17/180LR SN BK BX	C.153
1956460000	BLZP 5.00/16/180LR SN BK BX	C.153
1956470000	BLZP 5.00/15/180LR SN BK BX	C.153
1956480000	BLZP 5.00/14/180LR SN BK BX	C.153
1956490000	BLZP 5.00/13/180LR SN BK BX	C.153
1956500000	BLZP 5.00/12/180LR SN BK BX	C.153
1956510000	BLZP 5.00/11/180LR SN BK BX	C.153
1956520000	BLZP 5.00/10/180LR SN BK BX	C.153
1956530000	BLZP 5.00/09/180LR SN BK BX	C.153
1956540000	BLZP 5.00/08/180LR SN BK BX	C.153
1956550000	BLZP 5.00/07/180LR SN BK BX	C.153
1956560000	BLZP 5.00/06/180LR SN BK BX	C.153
1956570000	BLZP 5.00/05/180LR SN BK BX	C.153
1956580000	BLZP 5.00/04/180LR SN BK BX	C.153
1956590000	BLZP 5.00/03/180LR SN BK BX	C.153
1956600000	BLZP 5.00/02/180LR SN BK BX	C.153
1957780000	BLZP 5.00/24/90 SN OR BX	C.154
1957800000	BLZP 5.00/23/90 SN OR BX	C.154
1957820000	BLZP 5.00/22/90 SN OR BX	C.154
1957830000	BLZP 5.00/21/90 SN OR BX	C.154
1957850000	BLZP 5.00/20/90 SN OR BX	C.154
1957880000	BLZP 5.00/19/90 SN OR BX	C.154
1957900000	BLZP 5.00/18/90 SN OR BX	C.154
1957910000	BLZP 5.00/17/90 SN OR BX	C.154
1957960000	BLZP 5.00/16/90 SN OR BX	C.154
1958040000	BLZP 5.00/15/90 SN OR BX	C.154
1958060000	BLZP 5.00/14/90 SN OR BX	C.154
1958090000	BLZP 5.00/13/90 SN OR BX	C.154
1958120000	BLZP 5.00/12/90 SN OR BX	C.154
1958130000	BLZP 5.00/11/90 SN OR BX	C.154
1958160000	BLZP 5.00/10/90 SN OR BX	C.154
1958190000	BLZP 5.00/09/90 SN OR BX	C.154
1958230000	BLZP 5.00/08/90 SN OR BX	C.154
1958250000	BLZP 5.00/07/90 SN OR BX	C.154
1958260000	BLZP 5.00/06/90 SN OR BX	C.154
1958270000	BLZP 5.00/05/90 SN OR BX	C.154
1958280000	BLZP 5.00/04/90 SN OR BX	C.154
1958290000	BLZP 5.00/03/90 SN OR BX	C.154
1958300000	BLZP 5.00/02/90 SN OR BX	C.154
1958310000	BLZP 5.00/24/90 SN BK BX	C.154
1958320000	LMZFL 5/13/135 3.50R	B.97
1958330000	LMZFL 5/14/135 3.50R	B.97
1958340000	BLZP 5.00/23/90 SN BK BX	C.154
1958350000	LMZFL 5/15/135 3.50R	B.97
1958360000	BLZP 5.00/22/90 SN BK BX	C.154
1958370000	LMZFL 5/16/135 3.50R	B.97
1958380000	BLZP 5.00/21/90 SN BK BX	C.154
1958390000	LMZFL 5/17/135 3.50R	B.97
1958400000	BLZP 5.00/20/90 SN BK BX	C.154
1958410000	LMZFL 5/18/135 3.50R	B.97
1958420000	BLZP 5.00/19/90 SN BK BX	C.154
1958430000	BLZP 5.00/18/90 SN BK BX	C.154
1958440000	LMZFL 5/19/135 3.50R	B.97
1958450000	LMZFL 5/20/135 3.50R	B.97
1958460000	BLZP 5.00/17/90 SN BK BX	C.154
1958470000	LMZFL 5/21/135 3.50R	B.97
1958480000	BLZP 5.00/16/90 SN BK BX	C.154
1958490000	LMZFL 5/22/135 3.50R	B.97
1958500000	LMZFL 5/23/135 3.50R	B.97
1958510000	LMZFL 5/24/135 3.50R	B.97
1958520000	BLZP 5.00/15/90 SN BK BX	C.154
1958530000	BLZP 5.00/14/90 SN BK BX	C.154
1958540000	BLZP 5.00/13/90 SN BK BX	C.154
1958550000	BLZP 5.00/12/90 SN BK BX	C.154
1958560000	BLZP 5.00/11/90 SN BK BX	C.154
1958570000	BLZP 5.00/10/90 SN BK BX	C.154
1958580000	BLZP 5.00/09/90 SN BK BX	C.154
1958590000	BLZP 5.00/08/90 SN BK BX	C.154
1958600000	BLZP 5.00/07/90 SN BK BX	C.154
1958610000	BLZP 5.00/06/90 SN BK BX	C.154

Order No.	Type	Page
1958620000	BLZP 5.00/05/90 SN BK BX	C.154
1958630000	BLZP 5.00/04/90 SN BK BX	C.154
1958640000	BLZP 5.00/03/90 SN BK BX	C.154
1958650000	BLZP 5.00/02/90 SN BK BX	C.154
1958660000	BLZP 5.00/24/270 SN OR BX	C.156
1958670000	BLZP 5.00/23/270 SN OR BX	C.156
1958680000	BLZP 5.00/22/270 SN OR BX	C.156
1958690000	BLZP 5.00/21/270 SN OR BX	C.156
1958700000	BLZP 5.00/20/270 SN OR BX	C.156
1958710000	BLZP 5.00/19/270 SN OR BX	C.156
1958720000	BLZP 5.00/18/270 SN OR BX	C.156
1958730000	BLZP 5.00/17/270 SN OR BX	C.156
1958740000	BLZP 5.00/16/270 SN OR BX	C.156
1958750000	BLZP 5.00/15/270 SN OR BX	C.156
1958760000	BLZP 5.00/14/270 SN OR BX	C.156
1958770000	BLZP 5.00/13/270 SN OR BX	C.156
1958780000	BLZP 5.00/11/270 SN OR BX	C.156
1958790000	BLZP 5.00/10/270 SN OR BX	C.156
1958800000	BLZP 5.00/09/270 SN OR BX	C.156
1958810000	BLZP 5.00/08/270 SN OR BX	C.156
1958820000	BLZP 5.00/07/270 SN OR BX	C.156
1958830000	BLZP 5.00/06/270 SN OR BX	C.156
1958840000	BLZP 5.00/05/270 SN OR BX	C.156
1958850000	BLZP 5.00/04/270 SN OR BX	C.156
1958860000	BLZP 5.00/03/270 SN OR BX	C.156
1958870000	BLZP 5.00/02/270 SN OR BX	C.156
1958880000	BLZP 5.00/24/270 SN BK BX	C.156
1958890000	BLZP 5.00/23/270 SN BK BX	C.156
1958900000	BLZP 5.00/22/270 SN BK BX	C.156
1958910000	BLZP 5.00/21/270 SN BK BX	C.156
1958920000	BLZP 5.00/20/270 SN BK BX	C.156
1958930000	BLZP 5.00/19/270 SN BK BX	C.156
1958940000	BLZP 5.00/18/270 SN BK BX	C.156
1958950000	BLZP 5.00/17/270 SN BK BX	C.156
1958960000	BLZP 5.00/16/270 SN BK BX	C.156
1958970000	BLZP 5.00/15/270 SN BK BX	C.156
1958980000	BLZP 5.00/14/270 SN BK BX	C.156
1958990000	BLZP 5.00/13/270 SN BK BX	C.156
1959000000	BLZP 5.00/12/270 SN BK BX	C.156
1959010000	BLZP 5.00/11/270 SN BK BX	C.156
1959020000	BLZP 5.00/10/270 SN BK BX	C.156
1959030000	BLZP 5.00/09/270 SN BK BX	C.156
1959040000	BLZP 5.00/08/270 SN BK BX	C.156
1959050000	BLZP 5.00/07/270 SN BK BX	C.156
1959060000	BLZP 5.00/06/270 SN BK BX	C.156
1959070000	BLZP 5.00/05/270 SN BK BX	C.156
1959080000	BLZP 5.00/04/270 SN BK BX	C.156
1959090000	BLZP 5.00/03/270 SN BK BX	C.156
1959100000	BLZP 5.00/02/270 SN BK BX	C.156
1959150000	BLZP 5.00/12/270 SN OR BX	C.156
1959170000	BLZP 5.00/24/270F SN OR BX	C.157
1959180000	BLZP 5.00/23/270F SN OR BX	C.157
1959190000	BLZP 5.00/22/270F SN OR BX	C.157
1959200000	BLZP 5.00/24/90F SN OR BX	C.155
1959210000	BLZP 5.00/21/270F SN OR BX	C.157
1959220000	BLZP 5.00/23/90F SN OR BX	C.155
1959230000	BLZP 5.00/20/270F SN OR BX	C.157
1959240000	BLZP 5.00/22/90F SN OR BX	C.155
1959250000	BLZP 5.00/21/90F SN OR BX	C.155
1959260000	BLZP 5.00/19/270F SN OR BX	C.157
1959270000	BLZP 5.00/20/90F SN OR BX	C.155
1959280000	BLZP 5.00/18/270F SN OR BX	C.157
1959290000	BLZP 5.00/19/90F SN OR BX	C.155
1959300000	BLZP 5.00/18/90F SN OR BX	C.155
1959310000	BLZP 5.00/17/270F SN OR BX	C.157
1959320000	BLZP 5.00/17/90F SN OR BX	C.155
1959330000	BLZP 5.00/16/90F SN OR BX	C.155
1959340000	BLZP 5.00/15/90F SN OR BX	C.155
1959350000	BLZP 5.00/14/90F SN OR BX	C.155
1959360000	BLZP 5.00/13/90F SN OR BX	C.155
1959370000	BLZP 5.00/12/90F SN OR BX	C.155
1959380000	BLZP 5.00/16/270F SN OR BX	C.157
1959390000	BLZP 5.00/11/90F SN OR BX	C.155
1959400000	BLZP 5.00/15/270F SN OR BX	C.157
1959410000	BLZP 5.00/14/270F SN OR BX	C.157
1959420000	BLZP 5.00/13/270F SN OR BX	C.157
1959430000	BLZP 5.00/10/90F SN OR BX	C.155
1959440000	BLZP 5.00/09/90F SN OR BX	C.155
1959450000	BLZP 5.00/12/270F SN OR BX	C.157
1959460000	BLZP 5.00/08/90F SN OR BX	C.155
1959470000	BLZP 5.00/07/90F SN OR BX	C.155
1959480000	BLZP 5.00/06/90F SN OR BX	C.155
1959490000	BLZP 5.00/05/90F SN OR BX	C.155
1959500000	BLZP 5.00/04/90F SN OR BX	C.155
1959510000	BLZP 5.00/03/90F SN OR BX	C.155
1959520000	BLZP 5.00/02/90F SN OR BX	C.155
1959530000	BLZP 5.00/24/90F SN BK BX	C.155
1959540000	BLZP 5.00/23/90F SN BK BX	C.155
1959550000	BLZP 5.00/22/90F SN BK BX	C.155
1959560000	BLZP 5.00/21/90F SN BK BX	C.155
1959570000	BLZP 5.00/20/90F SN BK BX	C.155
1959580000	BLZP 5.00/19/90F SN BK BX	C.155
1959590000	BLZP 5.00/18/90F SN BK BX	C.155
1959600000	BLZP 5.00/17/90F SN BK BX	C.155
1959610000	BLZP 5.00/16/90F SN BK BX	C.155
1959620000	BLZP 5.00/15/90F SN BK BX	C.155
1959630000	BLZP 5.00/14/90F SN BK BX	C.155
1959640000	BLZP 5.00/13/90F SN BK BX	C.155
1959650000	BLZP 5.00/12/90F SN BK BX	C.155

Order No.	Type	Page
1959660000	BLZP 5.00/11/90F SN BK BX	C.155
1959670000	BLZP 5.00/10/90F SN BK BX	C.155
1959680000	BLZP 5.00/09/90F SN BK BX	C.155
1959690000	BLZP 5.00/08/90F SN BK BX	C.155
1959700000	BLZP 5.00/07/90F SN BK BX	C.155
1959710000	BLZP 5.00/06/90F SN BK BX	C.155
1959720000	BLZP 5.00/05/90F SN BK BX	C.155
1959730000	BLZP 5.00/04/90F SN BK BX	C.155
1959740000	BLZP 5.00/03/90F SN BK BX	C.155
1959750000	BLZP 5.00/02/90F SN BK BX	C.155

1960000000

1960140000	LMZF 5/13/135 3.50R	B.96
1960150000	LMZF 5/14/135 3.50R	B.96
1960160000	LMZF 5/15/135 3.50R	B.96
1960170000	LMZF 5/16/135 3.50R	B.96
1960180000	LMZF 5/17/135 3.50R	B.96
1960190000	LMZF 5/18/135 3.50R	B.96
1960200000	LMZF 5/19/135 3.50R	B.96
1960210000	LMZF 5/20/135 3.50R	B.96
1960220000	LMZF 5/21/135 3.50R	B.96
1960230000	LMZF 5/22/135 3.50R	B.96
1960240000	LMZF 5/23/135 3.50R	B.96
1960250000	LMZF 5/24/135 3.50R	B.96
1960370000	BLZP 5.00/11/270F SN OR BX	C.157
1960380000	BLZP 5.00/10/270F SN OR BX	C.157
1960390000	BLZP 5.00/09/270F SN OR BX	C.157
1960400000	BLZP 5.00/08/270F SN OR BX	C.157
1960410000	BLZP 5.00/07/270F SN OR BX	C.157
1960420000	BLZP 5.00/06/270F SN OR BX	C.157
1960430000	BLZP 5.00/05/270F SN OR BX	C.157
1960440000	BLZP 5.00/04/270F SN OR BX	C.157
1960450000	BLZP 5.00/03/270F SN OR BX	C.157
1960460000	BLZP 5.00/02/270F SN OR BX	C.157
1960500000	BLZP 5.00/24/270F SN BK BX	C.157
1960510000	BLZP 5.00/23/270F SN BK BX	C.157
1960520000	BLZP 5.00/22/270F SN BK BX	C.157
1960530000	BLZP 5.00/21/270F SN BK BX	C.157
1960540000	BLZP 5.00/20/270F SN BK BX	C.157
1960550000	BLZP 5.00/19/270F SN BK BX	C.157
1960560000	BLZP 5.00/18/270F SN BK BX	C.157
1960570000	BLZP 5.00/17/270F SN BK BX	C.157
1960580000	BLZP 5.00/16/270F SN BK BX	C.157
1960590000	BLZP 5.00/15/270F SN BK BX	C.157
1960600000	BLZP 5.00/14/270F SN BK BX	C.157
1960610000	BLZP 5.00/13/270F SN BK BX	C.157
1960620000	BLZP 5.00/12/270F SN BK BX	C.157
1960630000	BLZP 5.00/11/270F SN BK BX	C.157
1960640000	BLZP 5.00/10/270F SN BK BX	C.157
1960650000	BLZP 5.00/09/270F SN BK BX	C.157
1960660000	BLZP 5.00/08/270F SN BK BX	C.157
1960670000	BLZP 5.00/07/270F SN BK BX	C.157
1960690000	BLZP 5.00/06/270F SN BK BX	C.157
1960700000	BLZP 5.00/05/270F SN BK BX	C.157
1960710000	BLZP 5.00/04/270F SN BK BX	C.157
1960720000	BLZP 5.00/03/270F SN BK BX	C.157
1960730000	BLZP 5.00/02/270F SN BK BX	C.157
1960740000	BLZP 5.00/24/270LR SN OR BX	C.157
1960750000	BLZP 5.00/23/270LR SN OR BX	C.157
1960760000	BLZP 5.00/22/270LR SN OR BX	C.157
1960770000	BLZP 5.00/21/270LR SN OR BX	C.157
1960780000	BLZP 5.00/20/270LR SN OR BX	C.157
1960790000	BLZP 5.00/19/270LR SN OR BX	C.157
1960800000	BLZP 5.00/18/270LR SN OR BX	C.157
1960810000	BLZP 5.00/17/270LR SN OR BX	C.157
1960820000	BLZP 5.00/16/270LR SN OR BX	C.157
1960830000	BLZP 5.00/15/270LR SN OR BX	C.157
1960840000	BLZP 5.00/14/270LR SN OR BX	C.157
1960850000	BLZP 5.00/13/270LR SN OR BX	C.157
1960860000	BLZP 5.00/12/270LR SN OR BX	C.157
1960870000	BLZP 5.00/11/270LR SN OR BX	C.157
1960880000	BLZP 5.00/10/270LR SN OR BX	C.157
1960890000	BLZP 5.00/09/270LR SN OR BX	C.157
1960900000	BLZP 5.00/08/270LR SN OR BX	C.157
1960910000	BLZP 5.00/07/270LR SN OR BX	C.157
1960920000	BLZP 5.00/06/270LR SN OR BX	C.157
1960930000	BLZP 5.00/05/270LR SN OR BX	C.157
1960940000	BLZP 5.00/04/270LR SN OR BX	C.157
1960950000	BLZP 5.00/03/270LR SN OR BX	C.157
1960960000	BLZP 5.00/02/270LR SN OR BX	C.157
1960970000	BLZP 5.00/24/270LR SN BK BX	C.157
1960980000	BLZP 5.00/23/270LR SN BK BX	C.157
1960990000	BLZP 5.00/22/270LR SN BK BX	C.157
1961000000	BLZP 5.00/21/270LR SN BK BX	C.157
1961010000	BLZP 5.00/20/270LR SN BK BX	C.157
1961020000	BLZP 5.00/19/270LR SN BK BX	C.157
1961030000	BLZP 5.00/18/270LR SN BK BX	C.157
1961040000	BLZP 5.00/17/270LR SN BK BX	C.157
1961050000	BLZP 5.00/16/270LR SN BK BX	C.157
1961060000	BLZP 5.00/15/270LR SN BK BX	C.157
1961070000	BLZP 5.00/14/270LR SN BK BX	C.157
1961080000	BLZP 5.00/13/270LR SN BK BX	C.157
1961090000	BLZP 5.00/12/270LR SN BK BX	C.157
1961100000	BLZP 5.00/11/270LR SN BK BX	C.157
1961110000	BLZP 5.00/10/270LR SN BK BX	C.157
1961120000	BLZP 5.00/09/270LR SN BK BX	C.157
1961130000	BLZP 5.00/08/270LR SN BK BX	C.157
1961140000	BLZP 5.00/07/270LR SN BK BX	C.157

Order No.	Type	Page
1961150000	BLZP 5.00/06/270LR SN BK BX	C.157
1961160000	BLZP 5.00/05/270LR SN BK BX	C.157
1961170000	BLZP 5.00/04/270LR SN BK BX	C.157
1961180000	BLZP 5.00/03/270LR SN BK BX	C.157
1961190000	BLZP 5.00/02/270LR SN BK BX	C.157
1961880000	AP 90 OR	I.47
1961890000	AP 90 GR	I.47
1962250000	MTA 45 BK	J.2
1962400000	SUZ 10.16HP/08/180G AG BK BX	F.86
1965730000	VWGK 6 GN/YE	G.15
1965740000	VWGK 6	G.15
1965750000	DP VWGK6	G.15
1965910000	BL-I/O 3.50/30F SN LTGY BX	C.53
1965940000	BL-I/O 3.50/10F PNP LED SN LTGY BX	C.54
1965950000	BL-I/O 3.50/10F NPN LED SN LTGY BX	C.56
1965970000	BL-I/O 3.50/30F PNP LED SN LTGY BX	C.55
1965980000	BL-I/O 3.50/30F NPN LED SN LTGY BX	C.57
1966910000	SUZ 10.16HP/09/180G AG BK BX	F.86
1966920000	SUZ 10.16HP/06/180G AG BK BX	F.86
1966930000	SUZ 10.16HP/07/180G AG BK BX	F.86
1968900000	SC-SMT 3.81 KO GR	D.10
1969090000	BCF 3.81/02/180 SN OR BX	C.112
1969100000	BCF 3.81/03/180 SN OR BX	C.112
1969110000	BCF 3.81/04/180 SN OR BX	C.112
1969120000	BCF 3.81/05/180 SN OR BX	C.112
1969130000	BCF 3.81/06/180 SN OR BX	C.112
1969140000	BCF 3.81/07/180 SN OR BX	C.112
1969150000	BCF 3.81/08/180 SN OR BX	C.112
1969160000	BCF 3.81/09/180 SN OR BX	C.112
1969170000	BCF 3.81/10/180 SN OR BX	C.112
1969180000	BCF 3.81/11/180 SN OR BX	C.112
1969190000	BCF 3.81/12/180 SN OR BX	C.112
1969200000	BCF 3.81/13/180 SN OR BX	C.112
1969210000	BCF 3.81/14/180 SN OR BX	C.112
1969220000	BCF 3.81/15/180 SN OR BX	C.112
1969230000	BCF 3.81/16/180 SN OR BX	C.112
1969240000	BCF 3.81/17/180 SN OR BX	C.112
1969250000	BCF 3.81/18/180 SN OR BX	C.112
1969520000	SCZ 3.81/02/180G SN OR BX	C.102
1969540000	SCZ 3.81/03/180G SN OR BX	C.102
1969560000	SCZ 3.81/04/180G SN OR BX	C.102
1969570000	SCZ 3.81/05/180G SN OR BX	C.102
1969580000	SCZ 3.81/06/180G SN OR BX	C.102
1969590000	SCZ 3.81/07/180G SN OR BX	C.102
1969610000	SCZ 3.81/08/180G SN OR BX	C.102
1969630000	SCZ 3.81/09/180G SN OR BX	C.102
1969640000	SCZ 3.81/10/180G SN OR BX	C.102
1969660000	SCZ 3.81/11/180G SN OR BX	C.102
1969670000	SCZ 3.81/12/180G SN OR BX	C.102
1969890000	BCF 3.81/02/180 SN BK BX	C.112
1969920000	BCF 3.81/03/180 SN BK BX	C.112
1969950000	BCF 3.81/04/180 SN BK BX	C.112
1969970000	BCF 3.81/05/180 SN BK BX	C.112
1969980000	BCF 3.81/06/180 SN BK BX	C.112
1969990000	BCF 3.81/07/180 SN BK BX	C.112

1970000000

Order No.	Type	Page
1970000000	BCF 3.81/08/180 SN BK BX	C.112
1970010000	SCZ 3.81/02/180G SN BK BX	C.102
1970020000	SCZ 3.81/03/180G SN BK BX	C.102
1970030000	SCZ 3.81/04/180G SN BK BX	C.102
1970040000	BCF 3.81/09/180 SN BK BX	C.112
1970050000	SCZ 3.81/05/180G SN BK BX	C.102
1970060000	SCZ 3.81/06/180G SN BK BX	C.102
1970070000	SCZ 3.81/07/180G SN BK BX	C.102
1970080000	SCZ 3.81/08/180G SN BK BX	C.102
1970090000	SCZ 3.81/09/180G SN BK BX	C.102
1970100000	SCZ 3.81/10/180G SN BK BX	C.102
1970110000	SCZ 3.81/11/180G SN BK BX	C.102
1970120000	SCZ 3.81/12/180G SN BK BX	C.102
1970130000	BCF 3.81/10/180 SN BK BX	C.112
1970170000	BCF 3.81/11/180 SN BK BX	C.112
1970190000	BCF 3.81/12/180 SN BK BX	C.112
1970200000	BCF 3.81/13/180 SN BK BX	C.112
1970210000	BCF 3.81/14/180 SN BK BX	C.112
1970220000	BCF 3.81/15/180 SN BK BX	C.112
1970230000	BCF 3.81/16/180 SN BK BX	C.112
1970240000	BCF 3.81/17/180 SN BK BX	C.112
1970250000	BCF 3.81/18/180 SN BK BX	C.112
1970260000	SCZ 3.81/02/180FI SN OR BX	C.103
1970270000	SCZ 3.81/03/180FI SN OR BX	C.103
1970300000	BCF 3.81/02/180F SN OR BX	C.113
1970310000	SCZ 3.81/04/180FI SN OR BX	C.103
1970320000	SCZ 3.81/05/180FI SN OR BX	C.103
1970330000	BCF 3.81/03/180F SN OR BX	C.113
1970340000	SCZ 3.81/06/180FI SN OR BX	C.103
1970350000	SCZ 3.81/07/180FI SN OR BX	C.103
1970360000	SCZ 3.81/08/180FI SN OR BX	C.103
1970370000	BCF 3.81/04/180F SN OR BX	C.113
1970380000	BCF 3.81/05/180F SN OR BX	C.113
1970390000	SCZ 3.81/09/180FI SN OR BX	C.103
1970400000	BCF 3.81/06/180F SN OR BX	C.113
1970410000	SCZ 3.81/10/180FI SN OR BX	C.103
1970420000	SCZ 3.81/11/180FI SN OR BX	C.103
1970430000	SCZ 3.81/12/180FI SN OR BX	C.103
1970440000	BCF 3.81/07/180F SN OR BX	C.113
1970550000	BCF 3.81/08/180F SN OR BX	C.113
1970570000	BCF 3.81/09/180F SN OR BX	C.113
1970580000	BCF 3.81/10/180F SN OR BX	C.113
1970620000	BCF 3.81/11/180F SN OR BX	C.113
1970650000	BCF 3.81/12/180F SN OR BX	C.113
1970690000	BCF 3.81/13/180F SN OR BX	C.113
1970700000	SCZ 3.81/02/180FI SN BK BX	C.103
1970710000	SCZ 3.81/03/180FI SN BK BX	C.103
1970720000	SCZ 3.81/04/180FI SN BK BX	C.103
1970730000	BCF 3.81/14/180F SN OR BX	C.113
1970740000	SCZ 3.81/05/180FI SN BK BX	C.103
1970750000	BCF 3.81/15/180F SN OR BX	C.113
1970760000	SCZ 3.81/06/180FI SN BK BX	C.103
1970770000	SCZ 3.81/07/180FI SN BK BX	C.103
1970780000	SCZ 3.81/08/180FI SN BK BX	C.103
1970790000	SCZ 3.81/09/180FI SN BK BX	C.103
1970800000	SCZ 3.81/10/180FI SN BK BX	C.103
1970810000	SCZ 3.81/11/180FI SN BK BX	C.103
1970820000	BCF 3.81/16/180F SN OR BX	C.113
1970830000	SCZ 3.81/12/180FI SN BK BX	C.103
1970850000	BCF 3.81/17/180F SN OR BX	C.113
1970890000	BCF 3.81/18/180F SN OR BX	C.113
1970910000	SCZ 3.81/02/180F SN OR BX	C.103
1970920000	SCZ 3.81/03/180F SN OR BX	C.103
1970930000	SCZ 3.81/04/180F SN OR BX	C.103
1970940000	SCZ 3.81/05/180F SN OR BX	C.103
1970960000	SCZ 3.81/06/180F SN OR BX	C.103
1970970000	SCZ 3.81/07/180F SN OR BX	C.103
1970980000	SCZ 3.81/08/180F SN OR BX	C.103
1970990000	SCZ 3.81/09/180F SN OR BX	C.103
1971000000	SCZ 3.81/10/180F SN OR BX	C.103
1971010000	SCZ 3.81/11/180F SN OR BX	C.103
1971020000	SCZ 3.81/12/180F SN OR BX	C.103
1971290000	SCZ 3.81/02/180F SN BK BX	C.103
1971310000	SCZ 3.81/03/180F SN BK BX	C.103
1971320000	SCZ 3.81/04/180F SN BK BX	C.103
1971340000	SCZ 3.81/05/180F SN BK BX	C.103
1971350000	SCZ 3.81/06/180F SN BK BX	C.103
1971360000	SCZ 3.81/07/180F SN BK BX	C.103
1971370000	SCZ 3.81/08/180F SN BK BX	C.103
1971400000	SCZ 3.81/09/180F SN BK BX	C.103
1971410000	SCZ 3.81/10/180F SN BK BX	C.103
1971500000	BCF 3.81/02/180F SN BK BX	C.113
1971510000	SCZ 3.81/11/180F SN BK BX	C.103
1971520000	SCZ 3.81/12/180F SN BK BX	C.103
1971570000	BCF 3.81/03/180F SN BK BX	C.113
1971580000	SCZ 3.81/02/180LR SN OR BX	C.103
1971590000	BCF 3.81/04/180F SN BK BX	C.113
1971600000	SCZ 3.81/03/180LR SN OR BX	C.103
1971610000	SCZ 3.81/04/180LR SN OR BX	C.103
1971620000	BCF 3.81/05/180F SN BK BX	C.113
1971630000	SCZ 3.81/05/180LR SN OR BX	C.103
1971640000	SCZ 3.81/06/180LR SN OR BX	C.103
1971650000	BCF 3.81/06/180F SN BK BX	C.113
1971660000	SCZ 3.81/07/180LR SN OR BX	C.103
1971670000	SCZ 3.81/08/180LR SN OR BX	C.103
1971680000	SCZ 3.81/09/180LR SN OR BX	C.103
1971690000	SCZ 3.81/10/180LR SN OR BX	C.103
1971700000	SCZ 3.81/11/180LR SN OR BX	C.103
1971710000	SCZ 3.81/12/180LR SN OR BX	C.103
1971780000	BCF 3.81/07/180F SN BK BX	C.113
1971830000	BCF 3.81/08/180F SN BK BX	C.113
1971850000	BCF 3.81/09/180F SN BK BX	C.113
1971870000	BCF 3.81/10/180F SN BK BX	C.113
1971900000	BCF 3.81/11/180F SN BK BX	C.113
1971940000	BCF 3.81/12/180F SN BK BX	C.113
1971970000	BCF 3.81/13/180F SN BK BX	C.113
1971980000	SCZ 3.81/02/180LR SN BK BX	C.103
1971990000	SCZ 3.81/03/180LR SN BK BX	C.103
1972000000	BCF 3.81/14/180F SN BK BX	C.113
1972010000	SCZ 3.81/04/180LR SN BK BX	C.103
1972020000	SCZ 3.81/05/180LR SN BK BX	C.103
1972030000	BCF 3.81/15/180F SN BK BX	C.113
1972040000	SCZ 3.81/06/180LR SN BK BX	C.103
1972050000	SCZ 3.81/07/180LR SN BK BX	C.103
1972060000	SCZ 3.81/08/180LR SN BK BX	C.103
1972070000	BCF 3.81/16/180F SN BK BX	C.113
1972080000	SCZ 3.81/09/180LR SN BK BX	C.103
1972090000	SCZ 3.81/10/180LR SN BK BX	C.103
1972100000	BCF 3.81/17/180F SN BK BX	C.113
1972110000	SCZ 3.81/11/180LR SN BK BX	C.103
1972120000	SCZ 3.81/12/180LR SN BK BX	C.103
1972170000	BCF 3.81/18/180F SN BK BX	C.113
1972200000	BCF 3.81/02/180LR SN OR BX	C.113
1972210000	BCF 3.81/03/180LR SN OR BX	C.113
1972220000	BCF 3.81/04/180LR SN OR BX	C.113
1972230000	BCF 3.81/05/180LR SN OR BX	C.113
1972240000	BCF 3.81/06/180LR SN OR BX	C.113
1972250000	BCF 3.81/07/180LR SN OR BX	C.113
1972260000	BCF 3.81/08/180LR SN OR BX	C.113
1972270000	BCF 3.81/09/180LR SN OR BX	C.113
1972280000	BCF 3.81/10/180LR SN OR BX	C.113
1972290000	BCF 3.81/11/180LR SN OR BX	C.113
1972300000	BCF 3.81/12/180LR SN OR BX	C.113
1972310000	BCF 3.81/13/180LR SN OR BX	C.113
1972320000	BCF 3.81/14/180LR SN OR BX	C.113
1972330000	BCF 3.81/15/180LR SN OR BX	C.113
1972340000	BCF 3.81/16/180LR SN OR BX	C.113
1972350000	BCF 3.81/17/180LR SN OR BX	C.113
1972360000	BCF 3.81/18/180LR SN OR BX	C.113
1972600000	BCF 3.81/02/180LR SN BK BX	C.113
1972610000	BCF 3.81/03/180LR SN BK BX	C.113
1972620000	BCF 3.81/04/180LR SN BK BX	C.113
1972630000	BCF 3.81/05/180LR SN BK BX	C.113
1972640000	BCF 3.81/06/180LR SN BK BX	C.113
1972650000	BCF 3.81/07/180LR SN BK BX	C.113
1972660000	BCF 3.81/08/180LR SN BK BX	C.113
1972670000	BCF 3.81/09/180LR SN BK BX	C.113
1972680000	BCF 3.81/10/180LR SN BK BX	C.113
1972690000	BCF 3.81/11/180LR SN BK BX	C.113
1972700000	BCF 3.81/12/180LR SN BK BX	C.113
1972710000	BCF 3.81/13/180LR SN BK BX	C.113
1972720000	BCF 3.81/14/180LR SN BK BX	C.113
1972730000	BCF 3.81/15/180LR SN BK BX	C.113
1972740000	BCF 3.81/16/180LR SN BK BX	C.113
1972750000	BCF 3.81/17/180LR SN BK BX	C.113
1972760000	BCF 3.81/18/180LR SN BK BX	C.113
1972790000	SCD 3.81/04/90G 3.2SN OR BX	C.92
1972800000	SCD 3.81/06/90G 3.2SN OR BX	C.92
1972810000	SCD 3.81/08/90G 3.2SN OR BX	C.92
1972820000	SCD 3.81/10/90G 3.2SN OR BX	C.92
1972830000	SCD 3.81/12/90G 3.2SN OR BX	C.92
1972840000	SCD 3.81/14/90G 3.2SN OR BX	C.92
1972850000	SCD 3.81/16/90G 3.2SN OR BX	C.92
1972860000	SCD 3.81/18/90G 3.2SN OR BX	C.92
1972870000	SCD 3.81/20/90G 3.2SN OR BX	C.92
1972880000	SCD 3.81/22/90G 3.2SN OR BX	C.92
1972890000	SCD 3.81/24/90G 3.2SN OR BX	C.92
1972900000	SCD 3.81/26/90G 3.2SN OR BX	C.92
1972910000	SCD 3.81/28/90G 3.2SN OR BX	C.92
1972920000	SCD 3.81/30/90G 3.2SN OR BX	C.92
1972930000	SCD 3.81/32/90G 3.2SN OR BX	C.92
1973100000	SCD 3.81/04/90G 3.2SN BK BX	C.92
1973110000	SCD 3.81/06/90G 3.2SN BK BX	C.92
1973120000	SCD 3.81/08/90G 3.2SN BK BX	C.92
1973130000	SCD 3.81/10/90G 3.2SN BK BX	C.92
1973140000	SCD 3.81/12/90G 3.2SN BK BX	C.92
1973150000	SCD 3.81/14/90G 3.2SN BK BX	C.92
1973160000	SCD 3.81/16/90G 3.2SN BK BX	C.92
1973170000	SCD 3.81/18/90G 3.2SN BK BX	C.92
1973180000	SCD 3.81/20/90G 3.2SN BK BX	C.92
1973200000	SCD 3.81/22/90G 3.2SN BK BX	C.92
1973210000	SCD 3.81/24/90G 3.2SN BK BX	C.92
1973220000	SCD 3.81/26/90G 3.2SN BK BX	C.92
1973230000	SCD 3.81/28/90G 3.2SN BK BX	C.92
1973240000	SCD 3.81/30/90G 3.2SN BK BX	C.92
1973250000	SCD 3.81/32/90G 3.2SN BK BX	C.92
1973260000	SCD 3.81/04/90F 3.2SN OR BX	C.93
1973270000	SCD 3.81/06/90F 3.2SN OR BX	C.93
1973280000	SCD 3.81/08/90F 3.2SN OR BX	C.93
1973290000	SCD 3.81/10/90F 3.2SN OR BX	C.93
1973300000	SCD 3.81/12/90F 3.2SN OR BX	C.93
1973310000	SCD 3.81/14/90F 3.2SN OR BX	C.93
1973320000	SCD 3.81/16/90F 3.2SN OR BX	C.93
1973330000	SCD 3.81/18/90F 3.2SN OR BX	C.93
1973340000	SCD 3.81/20/90F 3.2SN OR BX	C.93
1973350000	SCD 3.81/22/90F 3.2SN OR BX	C.93
1973360000	SCD 3.81/24/90F 3.2SN OR BX	C.93
1973370000	SCD 3.81/26/90F 3.2SN OR BX	C.93
1973380000	SCD 3.81/28/90F 3.2SN OR BX	C.93
1973390000	SCD 3.81/30/90F 3.2SN OR BX	C.93
1973400000	SCD 3.81/32/90F 3.2SN OR BX	C.93
1973580000	SCD 3.81/04/90F 3.2SN BK BX	C.93
1973590000	SCD 3.81/06/90F 3.2SN BK BX	C.93
1973600000	SCD 3.81/08/90F 3.2SN BK BX	C.93
1973610000	SCD 3.81/10/90F 3.2SN BK BX	C.93
1973620000	SCD 3.81/12/90F 3.2SN BK BX	C.93
1973630000	SCD 3.81/14/90F 3.2SN BK BX	C.93
1973640000	SCD 3.81/16/90F 3.2SN BK BX	C.93
1973650000	SCD 3.81/18/90F 3.2SN BK BX	C.93
1973660000	SCD 3.81/20/90F 3.2SN BK BX	C.93
1973670000	SCD 3.81/22/90F 3.2SN BK BX	C.93
1973680000	SCD 3.81/24/90F 3.2SN BK BX	C.93
1973690000	SCD 3.81/26/90F 3.2SN BK BX	C.93
1973700000	SCD 3.81/28/90F 3.2SN BK BX	C.93
1973710000	SCD 3.81/30/90F 3.2SN BK BX	C.93
1973720000	SCD 3.81/32/90F 3.2SN BK BX	C.93
1973730000	SCD-THR 3.81/04/90G 3.2SN BK BX	C.74
1973740000	SCD-THR 3.81/06/90G 3.2SN BK BX	C.74
1973750000	SCD-THR 3.81/08/90G 3.2SN BK BX	C.74
1973760000	SCD-THR 3.81/10/90G 3.2SN BK BX	C.74
1973770000	SCD-THR 3.81/12/90G 3.2SN BK BX	C.74
1973780000	SCD-THR 3.81/14/90G 3.2SN BK BX	C.74
1973790000	SCD-THR 3.81/16/90G 3.2SN BK BX	C.74
1973800000	SCD-THR 3.81/18/90G 3.2SN BK BX	C.74
1973810000	SCD-THR 3.81/20/90G 3.2SN BK BX	C.74
1973820000	SCD-THR 3.81/22/90G 3.2SN BK BX	C.74
1973830000	SCD-THR 3.81/24/90G 3.2SN BK BX	C.74
1973840000	SCD-THR 3.81/26/90G 3.2SN BK BX	C.74
1973850000	SCD-THR 3.81/28/90G 3.2SN BK BX	C.74
1973860000	SCD-THR 3.81/30/90G 3.2SN BK BX	C.74
1973870000	SCD-THR 3.81/32/90G 3.2SN BK BX	C.74
1974030000	SCD-THR 3.81/04/90G 1.5SN BK BX	C.74
1974040000	SCD-THR 3.81/06/90G 1.5SN BK BX	C.74
1974050000	SCD-THR 3.81/08/90G 1.5SN BK BX	C.74
1974060000	SCD-THR 3.81/10/90G 1.5SN BK BX	C.74
1974070000	SCD-THR 3.81/12/90G 1.5SN BK BX	C.74
1974080000	SCD-THR 3.81/14/90G 1.5SN BK BX	C.74
1974090000	SCD-THR 3.81/16/90G 1.5SN BK BX	C.74
1974100000	SCD-THR 3.81/18/90G 1.5SN BK BX	C.74

Order No.	Type	Page
1974110000	SCD-THR 3.81/20/90G 1.5SN BK BX	C.74
1974120000	SCD-THR 3.81/22/90G 1.5SN BK BX	C.74
1974130000	SCD-THR 3.81/24/90G 1.5SN BK BX	C.74
1974140000	SCD-THR 3.81/26/90G 1.5SN BK BX	C.74
1974150000	SCD-THR 3.81/28/90G 1.5SN BK BX	C.74
1974160000	SCD-THR 3.81/30/90G 1.5SN BK BX	C.74
1974170000	SCD-THR 3.81/32/90G 1.5SN BK BX	C.74
1974180000	SCD-THR 3.81/04/90F 3.2SN BK BX	C.75
1974190000	SCD-THR 3.81/06/90F 3.2SN BK BX	C.75
1974200000	SCD-THR 3.81/08/90F 3.2SN BK BX	C.75
1974210000	SCD-THR 3.81/10/90F 3.2SN BK BX	C.75
1974220000	SCD-THR 3.81/12/90F 3.2SN BK BX	C.75
1974230000	SCD-THR 3.81/14/90F 3.2SN BK BX	C.75
1974240000	SCD-THR 3.81/16/90F 3.2SN BK BX	C.75
1974250000	SCD-THR 3.81/18/90F 3.2SN BK BX	C.75
1974290000	SCD-THR 3.81/20/90F 3.2SN BK BX	C.75
1974310000	SCD-THR 3.81/22/90F 3.2SN BK BX	C.75
1974330000	SCD-THR 3.81/24/90F 3.2SN BK BX	C.75
1974350000	SCD-THR 3.81/26/90F 3.2SN BK BX	C.75
1974440000	SCD-THR 3.81/28/90F 3.2SN BK BX	C.75
1974470000	SCD-THR 3.81/30/90F 3.2SN BK BX	C.75
1974490000	SCD-THR 3.81/32/90F 3.2SN BK BX	C.75
1974750000	BCL-SMT 3.81/02/90 1.5SN BK BX	C.116
1974770000	BCL-SMT 3.81/03/90 1.5SN BK BX	C.116
1974780000	BCL-SMT 3.81/04/90 1.5SN BK BX	C.116
1974800000	BCL-SMT 3.81/05/90 1.5SN BK BX	C.116
1974820000	BCL-SMT 3.81/06/90 1.5SN BK BX	C.116
1974830000	SCD-THR 3.81/04/90F 1.5SN BK BX	C.75
1974840000	BCL-SMT 3.81/07/90 1.5SN BK BX	C.116
1974850000	BCL-SMT 3.81/08/90 1.5SN BK BX	C.116
1974870000	SCD-THR 3.81/06/90F 1.5SN BK BX	C.75
1974880000	BCL-SMT 3.81/09/90 1.5SN BK BX	C.116
1974890000	BCL-SMT 3.81/10/90 1.5SN BK BX	C.116
1974900000	SCD-THR 3.81/08/90F 1.5SN BK BX	C.75
1974910000	BCL-SMT 3.81/11/90 1.5SN BK BX	C.116
1974920000	SCD-THR 3.81/10/90F 1.5SN BK BX	C.75
1974930000	BCL-SMT 3.81/12/90 1.5SN BK BX	C.116
1974950000	SCD-THR 3.81/12/90F 1.5SN BK BX	C.75
1974980000	SCD-THR 3.81/14/90F 1.5SN BK BX	C.75
1974990000	SCD-THR 3.81/16/90F 1.5SN BK BX	C.75
1975010000	SCD-THR 3.81/18/90F 1.5SN BK BX	C.75
1975040000	SCD-THR 3.81/20/90F 1.5SN BK BX	C.75
1975090000	SCD-THR 3.81/22/90F 1.5SN BK BX	C.75
1975110000	SCD-THR 3.81/24/90F 1.5SN BK BX	C.75
1975130000	SCD-THR 3.81/26/90F 1.5SN BK BX	C.75
1975140000	SCD-THR 3.81/28/90F 1.5SN BK BX	C.75
1975170000	SCD-THR 3.81/30/90F 1.5SN BK BX	C.75
1975190000	SCD-THR 3.81/32/90F 1.5SN BK BX	C.75
1975250000	LL1N 5.00/02/90 3.2SN OR BX	B.40
1975260000	LL1N 5.00/03/90 3.2SN OR BX	B.40
1975270000	LL1N 5.00/04/90 3.2SN OR BX	B.40
1975280000	LL1N 5.00/05/90 3.2SN OR BX	B.40
1975290000	LL1N 5.00/06/90 3.2SN OR BX	B.40
1975300000	LL1N 5.00/07/90 3.2SN OR BX	B.40
1975310000	LL1N 5.00/08/90 3.2SN OR BX	B.40
1975320000	LL1N 5.00/09/90 3.2SN OR BX	B.40
1975330000	LL1N 5.00/10/90 3.2SN OR BX	B.40
1975340000	LL1N 5.00/11/90 3.2SN OR BX	B.40
1975350000	LL1N 5.00/12/90 3.2SN OR BX	B.40
1975360000	LL1N 5.08/02/90 3.2SN OR BX	B.42
1975370000	LL1N 5.08/03/90 3.2SN OR BX	B.42
1975380000	LL1N 5.08/04/90 3.2SN OR BX	B.42
1975390000	LL1N 5.08/05/90 3.2SN OR BX	B.42
1975400000	LL1N 5.08/06/90 3.2SN OR BX	B.42
1975410000	LL1N 5.08/07/90 3.2SN OR BX	B.42
1975420000	LL1N 5.08/08/90 3.2SN OR BX	B.42
1975430000	LL1N 5.08/09/90 3.2SN OR BX	B.42
1975440000	LL1N 5.08/10/90 3.2SN OR BX	B.42
1975460000	LL1N 5.08/11/90 3.2SN OR BX	B.42
1975470000	LL1N 5.08/12/90 3.2SN OR BX	B.42
1975690000	BCL-SMT 3.81/02/90F 1.5SN BK	C.117
1975700000	BCL-SMT 3.81/03/90F 1.5SN BK	C.117
1975710000	BCL-SMT 3.81/04/90F 1.5SN BK	C.117
1975720000	SC 3.81/02/135G 3.2SN OR BX	C.88
1975730000	BCL-SMT 3.81/05/90F 1.5SN BK	C.117
1975740000	BCL-SMT 3.81/06/90F 1.5SN BK	C.117
1975750000	BCL-SMT 3.81/07/90F 1.5SN BK	C.117
1975760000	BCL-SMT 3.81/08/90F 1.5SN BK	C.117
1975770000	SC 3.81/03/135G 3.2SN OR BX	C.88
1975780000	BCL-SMT 3.81/09/90F 1.5SN BK	C.117
1975790000	BCL-SMT 3.81/10/90F 1.5SN BK	C.117
1975800000	SC 3.81/04/135G 3.2SN OR BX	C.88
1975810000	SC 3.81/05/135G 3.2SN OR BX	C.88
1975820000	BCL-SMT 3.81/11/90F 1.5SN BK	C.117
1975830000	BCL-SMT 3.81/12/90F 1.5SN BK	C.117
1975880000	SC 3.81/06/135G 3.2SN OR BX	C.88
1975900000	SC 3.81/07/135G 3.2SN OR BX	C.88
1975920000	SC 3.81/08/135G 3.2SN OR BX	C.88
1975930000	SC 3.81/09/135G 3.2SN OR BX	C.88
1975940000	SC 3.81/10/135G 3.2SN OR BX	C.88
1975950000	SC 3.81/11/135G 3.2SN OR BX	C.88
1975960000	SC 3.81/12/135G 3.2SN OR BX	C.88
1975970000	SC 3.81/13/135G 3.2SN OR BX	C.88
1975980000	SC 3.81/14/135G 3.2SN OR BX	C.88
1975990000	SC 3.81/15/135G 3.2SN OR BX	C.88
1976000000	SC 3.81/16/135G 3.2SN OR BX	C.88
1976380000	SC 3.81/02/135G 3.2SN BK BX	C.88
1976400000	SC 3.81/03/135G 3.2SN BK BX	C.88
1976420000	SC 3.81/04/135G 3.2SN BK BX	C.88

Order No.	Type	Page
1976450000	SC 3.81/05/135G 3.2SN BK BX	C.88
1976460000	SC 3.81/06/135G 3.2SN BK BX	C.88
1976490000	BCL-SMT 3.81/02/180 1.5SN BK BX	C.118
1976500000	BCL-SMT 3.81/03/180 1.5SN BK BX	C.118
1976510000	SC 3.81/07/135G 3.2SN BK BX	C.88
1976520000	BCL-SMT 3.81/04/180 1.5SN BK BX	C.118
1976530000	BCL-SMT 3.81/05/180 1.5SN BK BX	C.118
1976540000	SC 3.81/08/135G 3.2SN BK BX	C.88
1976550000	BCL-SMT 3.81/06/180 1.5SN BK BX	C.118
1976560000	SC 3.81/09/135G 3.2SN BK BX	C.88
1976570000	BCL-SMT 3.81/07/180 1.5SN BK BX	C.118
1976580000	BCL-SMT 3.81/08/180 1.5SN BK BX	C.118
1976590000	BCL-SMT 3.81/09/180 1.5SN BK BX	C.118
1976600000	SC 3.81/10/135G 3.2SN BK BX	C.88
1976610000	BCL-SMT 3.81/10/180 1.5SN BK BX	C.118
1976620000	BCL-SMT 3.81/11/180 1.5SN BK BX	C.118
1976630000	SC 3.81/11/135G 3.2SN BK BX	C.88
1976640000	BCL-SMT 3.81/12/180 1.5SN BK BX	C.118
1976660000	SC 3.81/12/135G 3.2SN BK BX	C.88
1976700000	SC 3.81/13/135G 3.2SN BK BX	C.88
1976710000	SC 3.81/14/135G 3.2SN BK BX	C.88
1976720000	SC 3.81/15/135G 3.2SN BK BX	C.88
1976730000	SC 3.81/16/135G 3.2SN BK BX	C.88
1976740000	SC 3.81/02/135F 3.2SN OR BX	C.89
1976750000	SC 3.81/03/135F 3.2SN OR BX	C.89
1976760000	SC 3.81/04/135F 3.2SN OR BX	C.89
1976770000	SC 3.81/05/135F 3.2SN OR BX	C.89
1976780000	SC 3.81/06/135F 3.2SN OR BX	C.89
1976790000	SC 3.81/07/135F 3.2SN OR BX	C.89
1976800000	SC 3.81/08/135F 3.2SN OR BX	C.89
1976810000	SC 3.81/09/135F 3.2SN OR BX	C.89
1976820000	SC 3.81/10/135F 3.2SN OR BX	C.89
1976830000	SC 3.81/11/135F 3.2SN OR BX	C.89
1976840000	SC 3.81/12/135F 3.2SN OR BX	C.89
1976850000	SC 3.81/13/135F 3.2SN OR BX	C.89
1976860000	SC 3.81/14/135F 3.2SN OR BX	C.89
1976870000	SC 3.81/15/135F 3.2SN OR BX	C.89
1976880000	SC 3.81/16/135F 3.2SN OR BX	C.89
1977040000	SC 3.81/02/135F 3.2SN BK BX	C.89
1977050000	SC 3.81/03/135F 3.2SN BK BX	C.89
1977060000	SC 3.81/04/135F 3.2SN BK BX	C.89
1977070000	SC 3.81/05/135F 3.2SN BK BX	C.89
1977080000	SC 3.81/06/135F 3.2SN BK BX	C.89
1977090000	SC 3.81/07/135F 3.2SN BK BX	C.89
1977100000	SC 3.81/08/135F 3.2SN BK BX	C.89
1977110000	SC 3.81/09/135F 3.2SN BK BX	C.89
1977120000	SC 3.81/10/135F 3.2SN BK BX	C.89
1977130000	SC 3.81/11/135F 3.2SN BK BX	C.89
1977140000	SC 3.81/12/135F 3.2SN BK BX	C.89
1977150000	SC 3.81/13/135F 3.2SN BK BX	C.89
1977160000	SC 3.81/14/135F 3.2SN BK BX	C.89
1977170000	SC 3.81/15/135F 3.2SN BK BX	C.89
1977180000	SC 3.81/16/135F 3.2SN BK BX	C.89
1977200000	SC-SMT 3.81/02/135G 3.2SN BK BX	C.70
1977210000	SC-SMT 3.81/03/135G 3.2SN BK BX	C.70
1977220000	SC-SMT 3.81/04/135G 3.2SN BK BX	C.70
1977230000	SC-SMT 3.81/05/135G 3.2SN BK BX	C.70
1977240000	SC-SMT 3.81/06/135G 3.2SN BK BX	C.70
1977250000	SC-SMT 3.81/07/135G 3.2SN BK BX	C.70
1977260000	LL2N 5.00/08/90 3.2SN OR BX	B.41
1977280000	LL2N 5.00/12/90 3.2SN OR BX	B.41
1977310000	LL2N 5.00/16/90 3.2SN OR BX	B.41
1977330000	LL2N 5.00/20/90 3.2SN OR BX	B.41
1977350000	LL2N 5.00/24/90 3.2SN OR BX	B.41
1977370000	LL2N 5.00/28/90 3.2SN OR BX	B.41
1977390000	LL2N 5.00/32/90 3.2SN OR BX	B.41
1977410000	LL2N 5.00/36/90 3.2SN OR BX	B.41
1977430000	LL2N 5.00/40/90 3.2SN OR BX	B.41
1977450000	LL2N 5.00/44/90 3.2SN OR BX	B.41
1977470000	LL2N 5.00/48/90 3.2SN OR BX	B.41
1977480000	LL2N 5.08/08/90 3.2SN OR BX	B.43
1977500000	LL2N 5.08/12/90 3.2SN OR BX	B.43
1977520000	LL2N 5.08/16/90 3.2SN OR BX	B.43
1977540000	LL2N 5.08/20/90 3.2SN OR BX	B.43
1977560000	LL2N 5.08/24/90 3.2SN OR BX	B.43
1977580000	LL2N 5.08/28/90 3.2SN OR BX	B.43
1977600000	LL2N 5.08/32/90 3.2SN OR BX	B.43
1977620000	LL2N 5.08/36/90 3.2SN OR BX	B.43
1977640000	LL2N 5.08/40/90 3.2SN OR BX	B.43
1977660000	LL2N 5.08/44/90 3.2SN OR BX	B.43
1977680000	LL2N 5.08/48/90 3.2SN OR BX	B.43
1977690000	SC-SMT 3.81/08/135G 3.2SN BK BX	C.70
1977700000	SC-SMT 3.81/09/135G 3.2SN BK BX	C.70
1977710000	SC-SMT 3.81/10/135G 3.2SN BK BX	C.70
1977720000	SC-SMT 3.81/11/135G 3.2SN BK BX	C.70
1977730000	SC-SMT 3.81/12/135G 3.2SN BK BX	C.70
1977740000	SC-SMT 3.81/13/135G 3.2SN BK BX	C.70
1977750000	SC-SMT 3.81/14/135G 3.2SN BK BX	C.70
1977760000	SC-SMT 3.81/15/135G 3.2SN BK BX	C.70
1977770000	SC-SMT 3.81/16/135G 3.2SN BK BX	C.70
1977930000	SC-SMT 3.81/02/135G 1.5SN BK BX	C.70
1977940000	SC-SMT 3.81/03/135G 1.5SN BK BX	C.70
1977950000	SC-SMT 3.81/04/135G 1.5SN BK BX	C.70
1977960000	SC-SMT 3.81/05/135G 1.5SN BK BX	C.70
1977970000	SC-SMT 3.81/06/135G 1.5SN BK BX	C.70
1977980000	SC-SMT 3.81/07/135G 1.5SN BK BX	C.70
1977990000	SC-SMT 3.81/08/135G 1.5SN BK BX	C.70
1978000000	SC-SMT 3.81/09/135G 1.5SN BK BX	C.70
1978010000	SC-SMT 3.81/10/135G 1.5SN BK BX	C.70

Order No.	Type	Page
1978020000	SC-SMT 3.81/11/135G 1.5SN BK BX	C.70
1978030000	SC-SMT 3.81/12/135G 1.5SN BK BX	C.70
1978040000	SC-SMT 3.81/13/135G 1.5SN BK BX	C.70
1978050000	SC-SMT 3.81/14/135G 1.5SN BK BX	C.70
1978060000	SC-SMT 3.81/15/135G 1.5SN BK BX	C.70
1978070000	SC-SMT 3.81/16/135G 1.5SN BK BX	C.70
1978080000	SC-SMT 3.81/02/135LF 3.2 SN BK BX	C.71
1978090000	SC-SMT 3.81/03/135LF 3.2 SN BK BX	C.71
1978100000	SC-SMT 3.81/04/135LF 3.2 SN BK BX	C.71
1978110000	SC-SMT 3.81/05/135LF 3.2 SN BK BX	C.71
1978120000	SC-SMT 3.81/06/135LF 3.2 SN BK BX	C.71
1978130000	SC-SMT 3.81/07/135LF 3.2 SN BK BX	C.71
1978140000	SC-SMT 3.81/08/135LF 3.2 SN BK BX	C.71
1978150000	SC-SMT 3.81/09/135LF 3.2 SN BK BX	C.71
1978160000	SC-SMT 3.81/10/135LF 3.2 SN BK BX	C.71
1978170000	SC-SMT 3.81/11/135LF 3.2 SN BK BX	C.71
1978180000	SC-SMT 3.81/12/135LF 3.2 SN BK BX	C.71
1978190000	SC-SMT 3.81/13/135LF 3.2 SN BK BX	C.71
1978200000	SC-SMT 3.81/14/135LF 3.2 SN BK BX	C.71
1978210000	SC-SMT 3.81/15/135LF 3.2 SN BK BX	C.71
1978220000	SC-SMT 3.81/16/135LF 3.2 SN BK BX	C.71
1978380000	SC-SMT 3.81/02/135LF 1.5 SN BK BX	C.71
1978390000	SC-SMT 3.81/03/135LF 1.5 SN BK BX	C.71
1978400000	SC-SMT 3.81/04/135LF 1.5 SN BK BX	C.71
1978410000	SC-SMT 3.81/05/135LF 1.5 SN BK BX	C.71
1978420000	SC-SMT 3.81/06/135LF 1.5 SN BK BX	C.71
1978430000	SC-SMT 3.81/07/135LF 1.5 SN BK BX	C.71
1978440000	SC-SMT 3.81/08/135LF 1.5 SN BK BX	C.71
1978450000	SC-SMT 3.81/09/135LF 1.5 SN BK BX	C.71
1978460000	SC-SMT 3.81/10/135LF 1.5 SN BK BX	C.71
1978470000	SC-SMT 3.81/11/135LF 1.5 SN BK BX	C.71
1978480000	SC-SMT 3.81/12/135LF 1.5 SN BK BX	C.71
1978490000	SC-SMT 3.81/13/135LF 1.5 SN BK BX	C.71
1978500000	SC-SMT 3.81/14/135LF 1.5 SN BK BX	C.71
1978510000	SC-SMT 3.81/15/135LF 1.5 SN BK BX	C.71
1978520000	SC-SMT 3.81/16/135LF 1.5 SN BK BX	C.71
1978850000	LL3R 5.00/12/90 3.2SN OR BX	B.41
1978870000	LL3R 5.00/18/90 3.2SN OR BX	B.41
1978890000	LL3R 5.00/24/90 3.2SN OR BX	B.41
1978910000	LL3R 5.00/30/90 3.2SN OR BX	B.41
1978930000	LL3R 5.00/36/90 3.2SN OR BX	B.41
1978950000	LL3R 5.00/42/90 3.2SN OR BX	B.41
1978970000	LL3R 5.00/48/90 3.2SN OR BX	B.41
1978990000	LL3R 5.00/54/90 3.2SN OR BX	B.41
1979010000	LL3R 5.00/60/90 3.2SN OR BX	B.41
1979030000	LL3R 5.00/66/90 3.2SN OR BX	B.41
1979050000	LL3R 5.00/72/90 3.2SN OR BX	B.41
1979060000	LL3R 5.08/12/90 3.2SN OR BX	B.43
1979080000	LL3R 5.08/18/90 3.2SN OR BX	B.43
1979100000	LL3R 5.08/24/90 3.2SN OR BX	B.43
1979120000	LL3R 5.08/30/90 3.2SN OR BX	B.43
1979140000	LL3R 5.08/36/90 3.2SN OR BX	B.43
1979160000	LL3R 5.08/42/90 3.2SN OR BX	B.43
1979180000	LL3R 5.08/48/90 3.2SN OR BX	B.43
1979200000	LL3R 5.08/54/90 3.2SN OR BX	B.43
1979220000	LL3R 5.08/60/90 3.2SN OR BX	B.43
1979240000	LL3R 5.08/66/90 3.2SN OR BX	B.43
1979260000	LL3R 5.08/72/90 3.2SN OR BX	B.43
1979270000	BLF 5.00HC/02/90 SN BK BX	C.160
1979280000	BLF 5.00HC/03/90 SN BK BX	C.160
1979290000	BLF 5.00HC/04/90 SN BK BX	C.160
1979300000	BLF 5.00HC/05/90 SN BK BX	C.160
1979310000	BLF 5.00HC/06/90 SN BK BX	C.160
1979320000	BLF 5.00HC/07/90 SN BK BX	C.160
1979330000	BLF 5.00HC/08/90 SN BK BX	C.160
1979340000	BLF 5.00HC/09/90 SN BK BX	C.160
1979350000	BLF 5.00HC/10/90 SN BK BX	C.160
1979360000	BLF 5.00HC/11/90 SN BK BX	C.160
1979370000	BLF 5.00HC/12/90 SN BK BX	C.160
1979380000	BLF 5.00HC/13/90 SN BK BX	C.160
1979390000	BLF 5.00HC/14/90 SN BK BX	C.160
1979400000	BLF 5.00HC/15/90 SN BK BX	C.160
1979410000	BLF 5.00HC/16/90 SN BK BX	C.160
1979420000	BLF 5.00HC/17/90 SN BK BX	C.160
1979430000	BLF 5.00HC/18/90 SN BK BX	C.160
1979440000	BLF 5.00HC/19/90 SN BK BX	C.160
1979450000	BLF 5.00HC/20/90 SN BK BX	C.160
1979460000	BLF 5.00HC/02/90F SN BK BX	C.161
1979470000	BLF 5.00HC/03/90F SN BK BX	C.161
1979480000	BLF 5.00HC/04/90F SN BK BX	C.161
1979490000	BLF 5.00HC/05/90F SN BK BX	C.161
1979500000	BLF 5.00HC/06/90F SN BK BX	C.161
1979510000	BLF 5.00HC/07/90F SN BK BX	C.161
1979520000	BLF 5.00HC/08/90F SN BK BX	C.161
1979530000	BLF 5.00HC/09/90F SN BK BX	C.161
1979540000	BLF 5.00HC/10/90F SN BK BX	C.161
1979550000	BLF 5.00HC/11/90F SN BK BX	C.161
1979560000	BLF 5.00HC/12/90F SN BK BX	C.161
1979570000	BLF 5.00HC/13/90F SN BK BX	C.161
1979580000	BLF 5.00HC/14/90F SN BK BX	C.161
1979590000	BLF 5.00HC/15/90F SN BK BX	C.161
1979600000	BLF 5.00HC/16/90F SN BK BX	C.161
1979610000	BLF 5.00HC/17/90F SN BK BX	C.161
1979620000	BLF 5.00HC/18/90F SN BK BX	C.161
1979630000	BLF 5.00HC/19/90F SN BK BX	C.161
1979640000	BLF 5.00HC/20/90F SN BK BX	C.161
1979720000	SC 3.81 FLA 1.5/16	D.9
1979730000	SC 3.81 FLA 1.5/14.25	D.9
1979740000	SC 3.81 FLA 2.3/16	D.9

Order No.	Type	Page
1979750000	SC 3.81 FLA 2.3/14.25	D.9
1979790000	BLF 5.00HC/02/90LR SN BK BX	C.161
1979800000	BLF 5.00HC/03/90LR SN BK BX	C.161
1979810000	BLF 5.00HC/04/90LR SN BK BX	C.161
1979820000	BLF 5.00HC/05/90LR SN BK BX	C.161
1979830000	BLF 5.00HC/06/90LR SN BK BX	C.161
1979840000	BLF 5.00HC/07/90LR SN BK BX	C.161
1979850000	BLF 5.00HC/08/90LR SN BK BX	C.161
1979860000	BLF 5.00HC/09/90LR SN BK BX	C.161
1979870000	BLF 5.00HC/10/90LR SN BK BX	C.161
1979880000	BLF 5.00HC/11/90LR SN BK BX	C.161
1979890000	BLF 5.00HC/12/90LR SN BK BX	C.161
1979900000	BLF 5.00HC/13/90LR SN BK BX	C.161
1979910000	BLF 5.00HC/14/90LR SN BK BX	C.161
1979920000	BLF 5.00HC/15/90LR SN BK BX	C.161
1979930000	BLF 5.00HC/16/90LR SN BK BX	C.161
1979940000	BLF 5.00HC/17/90LR SN BK BX	C.161
1979950000	BLF 5.00HC/18/90LR SN BK BX	C.161
1979960000	BLF 5.00HC/19/90LR SN BK BX	C.161
1979970000	BLF 5.00HC/20/90LR SN BK BX	C.161

1980000000

1980170000	BLF 5.00HC/02/90 SN OR BX	C.160
1980180000	BLF 5.00HC/03/90 SN OR BX	C.160
1980190000	BLF 5.00HC/04/90 SN OR BX	C.160
1980200000	BLF 5.00HC/05/90 SN OR BX	C.160
1980210000	BLF 5.00HC/06/90 SN OR BX	C.160
1980220000	BLF 5.00HC/07/90 SN OR BX	C.160
1980230000	BLF 5.00HC/08/90 SN OR BX	C.160
1980240000	BLF 5.00HC/09/90 SN OR BX	C.160
1980250000	BLF 5.00HC/10/90 SN OR BX	C.160
1980260000	BLF 5.00HC/11/90 SN OR BX	C.160
1980270000	BLF 5.00HC/12/90 SN OR BX	C.160
1980280000	BLF 5.00HC/13/90 SN OR BX	C.160
1980290000	BLF 5.00HC/14/90 SN OR BX	C.160
1980300000	BLF 5.00HC/15/90 SN OR BX	C.160
1980310000	BLF 5.00HC/16/90 SN OR BX	C.160
1980320000	BLF 5.00HC/17/90 SN OR BX	C.160
1980330000	BLF 5.00HC/18/90 SN OR BX	C.160
1980340000	BLF 5.00HC/19/90 SN OR BX	C.160
1980360000	BLF 5.00HC/20/90 SN OR BX	C.160
1980640000	BLF 5.00HC/02/90F SN OR BX	C.161
1980650000	BLF 5.00HC/03/90F SN OR BX	C.161
1980660000	BLF 5.00HC/04/90F SN OR BX	C.161
1980670000	BLF 5.00HC/05/90F SN OR BX	C.161
1980680000	BLF 5.00HC/06/90F SN OR BX	C.161
1980690000	BLF 5.00HC/07/90F SN OR BX	C.161
1980700000	BLF 5.00HC/08/90F SN OR BX	C.161
1980710000	BLF 5.00HC/09/90F SN OR BX	C.161
1980720000	BLF 5.00HC/10/90F SN OR BX	C.161
1980730000	BLF 5.00HC/11/90F SN OR BX	C.161
1980740000	BLF 5.00HC/12/90F SN OR BX	C.161
1980750000	BLF 5.00HC/13/90F SN OR BX	C.161
1980760000	BLF 5.00HC/14/90F SN OR BX	C.161
1980780000	BLF 5.00HC/15/90F SN OR BX	C.161
1980790000	BLF 5.00HC/16/90F SN OR BX	C.161
1980800000	BLF 5.00HC/17/90F SN OR BX	C.161
1980810000	BLF 5.00HC/18/90F SN OR BX	C.161
1980820000	BLF 5.00HC/19/90F SN OR BX	C.161
1980840000	BLF 5.00HC/20/90F SN OR BX	C.161
1980870000	BLF 5.00HC/02/90LR SN OR BX	C.161
1980880000	BLF 5.00HC/03/90LR SN OR BX	C.161
1980890000	BLF 5.00HC/04/90LR SN OR BX	C.161
1980900000	BLF 5.00HC/05/90LR SN OR BX	C.161
1980910000	BLF 5.00HC/06/90LR SN OR BX	C.161
1980920000	BLF 5.00HC/07/90LR SN OR BX	C.161
1980930000	BLF 5.00HC/08/90LR SN OR BX	C.161
1980940000	BLF 5.00HC/09/90LR SN OR BX	C.161
1980950000	BLF 5.00HC/10/90LR SN OR BX	C.161
1980960000	BLF 5.00HC/11/90LR SN OR BX	C.161
1980970000	BLF 5.00HC/12/90LR SN OR BX	C.161
1980980000	BLF 5.00HC/13/90LR SN OR BX	C.161
1980990000	BLF 5.00HC/14/90LR SN OR BX	C.161
1981000000	BLF 5.00HC/15/90LR SN OR BX	C.161
1981010000	BLF 5.00HC/16/90LR SN OR BX	C.161
1981020000	BLF 5.00HC/17/90LR SN OR BX	C.161
1981030000	BLF 5.00HC/18/90LR SN OR BX	C.161
1981040000	BLF 5.00HC/19/90LR SN OR BX	C.161
1981050000	BLF 5.00HC/20/90LR SN OR BX	C.161
1981880000	WGK 10 VP	G.10
1981890000	WGK 4 VP	G.9
1981930000	BLF 5.08HC/02/270 SN BK BX	C.244
1981940000	BLF 5.08HC/03/270 SN BK BX	C.244
1981950000	BLF 5.08HC/04/270 SN BK BX	C.244
1981960000	BLF 5.08HC/05/270 SN BK BX	C.244
1981970000	BLF 5.08HC/06/270 SN BK BX	C.244
1981980000	BLF 5.08HC/07/270 SN BK BX	C.244
1981990000	BLF 5.08HC/08/270 SN BK BX	C.244
1982000000	BLF 5.08HC/09/270 SN BK BX	C.244
1982010000	BLF 5.08HC/10/270 SN BK BX	C.244
1982020000	BLF 5.08HC/11/270 SN BK BX	C.244
1982030000	BLF 5.08HC/12/270 SN BK BX	C.244
1982040000	BLF 5.08HC/13/270 SN BK BX	C.244
1982050000	BLF 5.08HC/14/270 SN BK BX	C.244
1982060000	BLF 5.08HC/15/270 SN BK BX	C.244
1982070000	BLF 5.08HC/16/270 SN BK BX	C.244
1982080000	BLF 5.08HC/17/270 SN BK BX	C.244
1982090000	BLF 5.08HC/18/270 SN BK BX	C.244

Order No.	Type	Page
1982100000	BLF 5.08HC/19/270 SN BK BX	C.244
1982110000	BLF 5.08HC/20/270 SN BK BX	C.244
1982120000	BLF 5.08HC/02/270F SN BK BX	C.245
1982130000	BLF 5.08HC/03/270F SN BK BX	C.245
1982140000	BLF 5.08HC/04/270F SN BK BX	C.245
1982150000	BLF 5.08HC/05/270F SN BK BX	C.245
1982160000	BLF 5.08HC/06/270F SN BK BX	C.245
1982170000	BLF 5.08HC/07/270F SN BK BX	C.245
1982180000	BLF 5.08HC/08/270F SN BK BX	C.245
1982190000	BLF 5.08HC/09/270F SN BK BX	C.245
1982200000	BLF 5.08HC/10/270F SN BK BX	C.245
1982210000	BLF 5.08HC/11/270F SN BK BX	C.245
1982220000	BLF 5.08HC/12/270F SN BK BX	C.245
1982230000	BLF 5.08HC/13/270F SN BK BX	C.245
1982240000	BLF 5.08HC/14/270F SN BK BX	C.245
1982250000	BLF 5.08HC/15/270F SN BK BX	C.245
1982260000	BLF 5.08HC/16/270F SN BK BX	C.245
1982270000	BLF 5.08HC/17/270F SN BK BX	C.245
1982280000	BLF 5.08HC/18/270F SN BK BX	C.245
1982290000	BLF 5.08HC/19/270F SN BK BX	C.245
1982300000	BLF 5.08HC/20/270F SN BK BX	C.245
1982310000	BLF 5.08HC/02/270LR SN BK BX	C.245
1982320000	BLF 5.08HC/03/270LR SN BK BX	C.245
1982330000	BLF 5.08HC/04/270LR SN BK BX	C.245
1982340000	BLF 5.08HC/05/270LR SN BK BX	C.245
1982350000	BLF 5.08HC/06/270LR SN BK BX	C.245
1982360000	BLF 5.08HC/07/270LR SN BK BX	C.245
1982370000	BLF 5.08HC/08/270LR SN BK BX	C.245
1982380000	BLF 5.08HC/09/270LR SN BK BX	C.245
1982390000	BLF 5.08HC/10/270LR SN BK BX	C.245
1982400000	BLF 5.08HC/11/270LR SN BK BX	C.245
1982410000	BLF 5.08HC/12/270LR SN BK BX	C.245
1982420000	BLF 5.08HC/13/270LR SN BK BX	C.245
1982430000	BLF 5.08HC/14/270LR SN BK BX	C.245
1982440000	BLF 5.08HC/15/270LR SN BK BX	C.245
1982450000	BLF 5.08HC/16/270LR SN BK BX	C.245
1982460000	BLF 5.08HC/17/270LR SN BK BX	C.245
1982470000	BLF 5.08HC/18/270LR SN BK BX	C.245
1982480000	BLF 5.08HC/19/270LR SN BK BX	C.245
1982490000	BLF 5.08HC/20/270LR SN BK BX	C.245
1982700000	BLF 5.08HC/02/270 SN OR BX	C.244
1982710000	BLF 5.08HC/03/270 SN OR BX	C.244
1982720000	BLF 5.08HC/04/270 SN OR BX	C.244
1982730000	BLF 5.08HC/05/270 SN OR BX	C.244
1982740000	BLF 5.08HC/06/270 SN OR BX	C.244
1982750000	BLF 5.08HC/07/270 SN OR BX	C.244
1982760000	BLF 5.08HC/08/270 SN OR BX	C.244
1982770000	BLF 5.08HC/09/270 SN OR BX	C.244
1982780000	BLF 5.08HC/10/270 SN OR BX	C.244
1982790000	BLF 5.08HC/11/270 SN OR BX	C.244
1982800000	BLF 5.08HC/12/270 SN OR BX	C.244
1982810000	BLF 5.08HC/13/270 SN OR BX	C.244
1982820000	BLF 5.08HC/14/270 SN OR BX	C.244
1982830000	BLF 5.08HC/15/270 SN OR BX	C.244
1982840000	BLF 5.08HC/16/270 SN OR BX	C.244
1982850000	BLF 5.08HC/17/270 SN OR BX	C.244
1982860000	BLF 5.08HC/18/270 SN OR BX	C.244
1982870000	BLF 5.08HC/19/270 SN OR BX	C.244
1982880000	BLF 5.08HC/20/270 SN OR BX	C.244
1982890000	BLF 5.08HC/02/270F SN OR BX	C.245
1982900000	BLF 5.08HC/03/270F SN OR BX	C.245
1982910000	BLF 5.08HC/04/270F SN OR BX	C.245
1982920000	BLF 5.08HC/05/270F SN OR BX	C.245
1982930000	BLF 5.08HC/06/270F SN OR BX	C.245
1982940000	BLF 5.08HC/07/270F SN OR BX	C.245
1982950000	BLF 5.08HC/08/270F SN OR BX	C.245
1982960000	BLF 5.08HC/09/270F SN OR BX	C.245
1982970000	BLF 5.08HC/10/270F SN OR BX	C.245
1982980000	BLF 5.08HC/11/270F SN OR BX	C.245
1982990000	BLF 5.08HC/12/270F SN OR BX	C.245
1983000000	BLF 5.08HC/13/270F SN OR BX	C.245
1983010000	BLF 5.08HC/14/270F SN OR BX	C.245
1983020000	BLF 5.08HC/15/270F SN OR BX	C.245
1983030000	BLF 5.08HC/16/270F SN OR BX	C.245
1983040000	BLF 5.08HC/17/270F SN OR BX	C.245
1983050000	BLF 5.08HC/18/270F SN OR BX	C.245
1983060000	BLF 5.08HC/19/270F SN OR BX	C.245
1983070000	BLF 5.08HC/20/270F SN OR BX	C.245
1983080000	BLF 5.08HC/02/270LR SN OR BX	C.245
1983090000	BLF 5.08HC/03/270LR SN OR BX	C.245
1983100000	BLF 5.08HC/04/270LR SN OR BX	C.245
1983110000	BLF 5.08HC/05/270LR SN OR BX	C.245
1983120000	BLF 5.08HC/06/270LR SN OR BX	C.245
1983130000	BLF 5.08HC/07/270LR SN OR BX	C.245
1983140000	BLF 5.08HC/08/270LR SN OR BX	C.245
1983150000	BLF 5.08HC/09/270LR SN OR BX	C.245
1983160000	BLF 5.08HC/10/270LR SN OR BX	C.245
1983170000	BLF 5.08HC/11/270LR SN OR BX	C.245
1983180000	BLF 5.08HC/12/270LR SN OR BX	C.245
1983190000	BLF 5.08HC/13/270LR SN OR BX	C.245
1983200000	BLF 5.08HC/14/270LR SN OR BX	C.245
1983210000	BLF 5.08HC/15/270LR SN OR BX	C.245
1983220000	BLF 5.08HC/16/270LR SN OR BX	C.245
1983230000	BLF 5.08HC/17/270LR SN OR BX	C.245
1983240000	BLF 5.08HC/18/270LR SN OR BX	C.245
1983250000	BLF 5.08HC/19/270LR SN OR BX	C.245
1983260000	BLF 5.08HC/20/270LR SN OR BX	C.245

Order No.	Type	Page

2220000000

2224040000	KOPL MCZ 1.5	I.39
2224220000	GH MCZ1.5	I.39
2224240000	RA MCZ1.5	I.39
2224380000	SMSE LN FE MCZ 1.5	I.39
2224390000	SMSE KU FE MCZ 1.5	I.39

2270000000

2277000000	SMSE2 ZF MSD	I.38
2277700000	EBGH MSA ZB	I.38
2277710000	EBGH MSA ZF	I.38
2279280000	GHDE MSA ZB FR 12	I.38
2279300000	GHDE MSA ZF	I.38
2279350000	SMSE FE MSA	I.38

2310000000

2312290000	GH MCZUE1.5/UE	I.39

2410000000

2418580000	LHZ-SMT L 1.5SN BK RL	I.17
2418590000	LHZ-SMT R 1.5SN BK RL	I.17
2418600000	CH20M6 BP 4P-4P BK	I.16
2418610000	CH20M6 BC 4P-4P BK	I.16
2418620000	CH20M6 C BK	I.17
2418630000	CH20M22 B BK/BK	I.22
2418640000	CH20M22 F BK	I.23
2418650000	CH20M22 S PPSC BK	I.22
2418670000	CH20M22 C BK	I.23

4010000000

4010870000	PF RS 100 GR 2000MM A.1	I.48
4011200000	LKSC M2,9x13VZ	I.44
4019420000	PTSC KB40X14	I.48

4020000000

4027750000	PF RS 45 GR 2000MM	I.44

4050000000

4051810000	PF RS 90 GR 2000MM	I.47
4053240000	PF RS 90 OR 2000MM	I.47

4060000000

4060540000	SMSE 1 MSD ZB	I.38

4140000000

4144870000	PF RS 100 OR 2000MM A.1	I.48
4148400000	PF RS 100 OR 155 MM	I.48

4150000000

4157440000	PF RS 80 OR 2000MM	I.46

4160000000

4167150000	ADP 5	I.46
4167160000	ADP 6	I.46
4169320000	ADP 10	I.48
4169330000	ADP 11	I.48

4180000000

4183130000	PF RS 80 GR 2000MM	I.46

4280000000

4286620000	SMSE MSA ZB	I.38

4340000000

4340430000	PF RS 45 OR 2000MM	I.44

8140000000

8140860000	AP 45/RE DI	I.44
8140870000	AP 45/LI DI	I.44
8140880000	PF RS 45 GR 1000MM	I.44
8143900000	AP 45/RE	I.44
8143910000	AP 45/LI	I.44

8150000000

8156200000	AP RF80 RE	I.46
8156210000	AP RF80 LI	I.46

8320000000

8320300000	AP 80	I.46

Order No.	Type	Page
8380000000		
8389030000	AP MCZ1.5	I.39
8850000000		
8857560000	MCZ 5	I.39
9000000000		
9004530000	DW RSV 1.6	D.21
9004590000	H0,5/14S W	C.158
9005990000	PZ 1.5	C.12
9008320000	SDS 0.5X3.0X80	D.22
9008330000	SDS 0.6X3.5X100	J.3
9008340000	SDS 0.8X4.0X100	D.22
9008350000	SDS 1.0X5.5X150	D.22
9008370000	SDIS 0.4X2.5X75	D.22
9008380000	SDIS 0.5X3.0X100	D.22
9008390000	SDIS 0.6X3.5X100	D.22
9008400000	SDIS 0.8X4.0X100	D.22
9008410000	SDIS 1.0X5.5X125	D.22
9008420000	SDIS 1.2X6.5X150	D.22
9008430000	SDIS 1.6X8.0X175	D.22
9008470000	SDK PH0	D.22
9008480000	SDK PH1	J.3
9008490000	SDK PH2	D.22
9008500000	SDK PH3	D.22
9008530000	SDK PZ1	J.3
9008540000	SDK PZ2	D.22
9008550000	SDK PZ3	D.22
9008890000	SDIK PZ2	E.10
9008910000	SDIS 1.0X4.5X125	D.22
9009010000	SDS 1.2X6.5X150	D.22
9009020000	SDS 0.8X4.0X125	D.22
9009030000	SDS 0.4X2.5X75	D.22
9010000000		
9011460000	PZ 6/5	F.68
9013090000	HTF 28	D.20
9013400000	HTF 63	D.20
9013550000	HTF RSV 12	D.20
9013560000	HTF RSV 16 WI	D.20
9014140000	HTF DFF	D.20
9018560000	H1,0/14S R	C.158
9020000000		
9025240000	H1,5/14S SW	C.158
9990000000		
9994130000	LM 5.08/04/90 3.5SN OR BX	B.18
9994140000	LM 5.08/05/90 3.5SN OR BX	B.18
9994150000	LM 5.08/06/90 3.5SN OR BX	B.18
9994160000	LM 5.08/07/90 3.5SN OR BX	B.18
9994170000	LM 5.08/08/90 3.5SN OR BX	B.18
9994180000	LM 5.08/09/90 3.5SN OR BX	B.18
9994190000	LM 5.08/10/90 3.5SN OR BX	B.18
9994200000	LM 5.08/11/90 3.5SN OR BX	B.18
9994210000	LM 5.08/12/90 3.5SN OR BX	B.18
9994220000	LM 5.08/13/90 3.5SN OR BX	B.18
9994230000	LM 5.08/14/90 3.5SN OR BX	B.18
9994240000	LM 5.08/15/90 3.5SN OR BX	B.18
9994250000	LM 5.08/16/90 3.5SN OR BX	B.18
9994260000	LM 5.08/17/90 3.5SN OR BX	B.18
9994270000	LM 5.08/18/90 3.5SN OR BX	B.18
9994280000	LM 5.08/19/90 3.5SN OR BX	B.18
9994290000	LM 5.08/20/90 3.5SN OR BX	B.18
9994300000	LM 5.08/21/90 3.5SN OR BX	B.18
9994310000	LM 5.08/22/90 3.5SN OR BX	B.18
9994320000	LM 5.08/23/90 3.5SN OR BX	B.18
9994330000	LM 5.08/24/90 3.5SN OR BX	B.18
9994550000	LM 5.08/04/135 3.5SN OR BX	B.19
9994560000	LM 5.08/05/135 3.5SN OR BX	B.19
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9994680000	LM 5.08/17/135 3.5SN OR BX	B.19
9994690000	LM 5.08/18/135 3.5SN OR BX	B.19
9994700000	LM 5.08/19/135 3.5SN OR BX	B.19
9994710000	LM 5.08/20/135 3.5SN OR BX	B.19
9994720000	LM 5.08/21/135 3.5SN OR BX	B.19
9994730000	LM 5.08/22/135 3.5SN OR BX	B.19
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9994750000	LM 5.08/24/135 3.5SN OR BX	B.19
9994970000	LM 5.08/04/180 3.5SN OR BX	B.19
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9995000000	LM 5.08/07/180 3.5SN OR BX	B.19
9995010000	LM 5.08/08/180 3.5SN OR BX	B.19
9995020000	LM 5.08/09/180 3.5SN OR BX	B.19
9995030000	LM 5.08/10/180 3.5SN OR BX	B.19
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9995080000	LM 5.08/15/180 3.5SN OR BX	B.19
9995090000	LM 5.08/16/180 3.5SN OR BX	B.19
9995100000	LM 5.08/17/180 3.5SN OR BX	B.19
9995110000	LM 5.08/18/180 3.5SN OR BX	B.19
9995120000	LM 5.08/19/180 3.5SN OR BX	B.19
9995130000	LM 5.08/20/180 3.5SN OR BX	B.19
9995140000	LM 5.08/21/180 3.5SN OR BX	B.19
9995150000	LM 5.08/22/180 3.5SN OR BX	B.19
9995210000	LM 5.08/23/180 3.5SN OR BX	B.19
9995220000	LM 5.08/24/180 3.5SN OR BX	B.19

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