THE DATASHEET OF

6305G1

Powerpole® & Multipole Power Connectors

10 amps up to 700 amps

APP

Anderson Power Products®

Anderson Power Products

APP's philosophy is to provide products and services within the trading markets of our customers. We currently serve our worldwide customer base from customer support and manufacturing facilities in Sterling, MA, U.S.A., Fermoy, Ireland for European customers, as well as three Asia Pacific facilities: Shenzhen, China, Shatin Hong Kong and Taichung City 407, Taiwan (R.O.C.).

Today, as a result of innovative design and development, APP has evolved into a valued supplier for a wide variety of markets including Back-up Power, Telecom/Datacom and the Material Handling Industries.

APP has established a reputation for high quality products, on-time deliveries, and excellent customer service. As a result of modern manufacturing techniques and rigorous quality control measures, APP assures customers receive the quality products they deserve.

As a global company dedicated to best environmental practice, APP has taken steps to meet the RoHS directive for virtually all of their products. APP believes that general compliance with the RoHS directive is not enough and that the RoHS status for individual APP products must be readily accessible to customers twenty-four hours a day, seven days a week. The APP website search system allows customers to enter a part number and determine a product's compliance status to the RoHS directive.

APP looks forward to the challenges posed by the new technologies of the future and will continue its century long tradition of design excellence and superior customer support to meet customers' needs.

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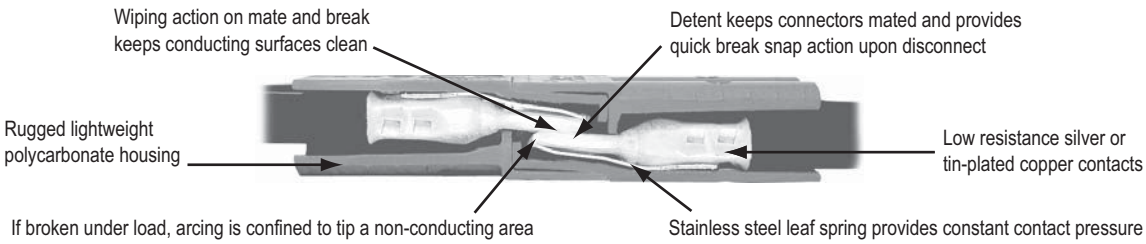
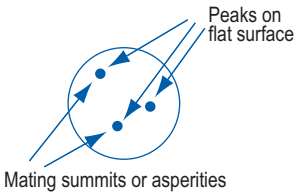
Genderless Connector



Where Do Contacts Contact?

Although electrical contacts appear to have a large surface area, only a small portion of that area actually touches the mating part, because any metal surface — no matter how finely polished or ground — is never perfectly flat or smooth.

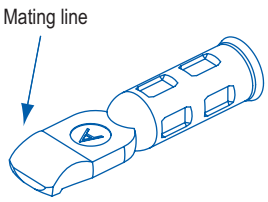
Mating Surface



The butt contact conducts current via three or less summits or high peaks (asperities).

Mating Cross Section

The cylindrical contact, although it appears to have a large, ample area, actually conducts current through no more than three lines of contact in this example.



The sliding contact, when spring loaded, conducts current through an entire line of contact.

What Makes A Good Connector?

The termination can make the difference between good and poor connector continuity. This hypothetical example of “good” and “poor” continuity shows how power loss can seriously impair the efficiency of an EV. Important are two points of resistance:

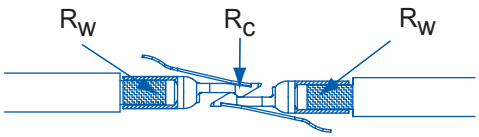
1. Rc, the central contact resistance.
2. Rw1 the resistance at two terminations.

A typical sliding connector carries 175A, but when the termination resistance Rw, rises because of faulty design or assembly, total resistance rises, too. (See table). Using the basic relationship for DC power,

$P = (I \times R)(I) = I^2R$

The “good” conductor dissipates, or loses,
$P = (175)^2 (0.00004) = 1.225W$

The “poor” conductor loses,
$P = (175)^2 (0.00202) = 61.8W$



Good vs. Poor Connection

Typical Joint	R_W	R_C	R_W	R_{total}
Good	0.000010	0.000020	0.000010	0.000040
Poor	0.001000	0.000020	0.001000	0.002020

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Anderson Power Products®, an ISO 9001:2000 certified company, is a world leader in the design and manufacture of quick-disconnect power connectors. Our connectors are rated from 10 amps to 700 amps and from 150 to 600 volts, AC/DC and comply with major worldwide specifications. With over one hundred years of power connection and device experience, we provide off-the-shelf and custom solutions for OEMs.

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Note:

(1) For patent / trademark information, please see www.andersonpower.com.

(2) Use APP recommended crimp tooling. Crimping by other means may disturb contact position in the housing and / or produce high resistance in the mated connection, which can cause melting and other hazardous conditions. Please see www.andersonpower.com, tooling section, for the recommendations, changes / additions and tips on connector crimping / soldering or preventative maintenance.

(3) All products in this catalog are RoHS compliant. For RoHS compliant information on individual part numbers, please see www.andersonpower.com for the RoHS lookup index tool.

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Connector Notes

For customer drawings, assembly instructions and individual data sheets, please visit www.andersonpower.com.

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FEATURES

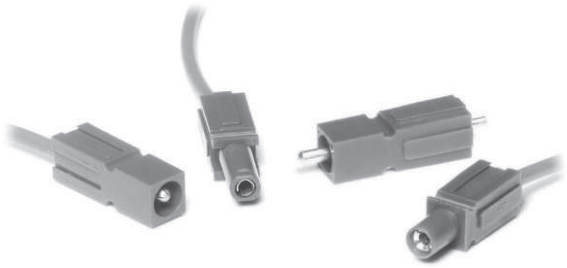
• Make-first/Break-last connection
Provides safety and system integrity

• Green housing
Indicates ground terminal

• Molded-in dovetails
Can be assembled into "keyed" configurations to preclude misconnections

• Silver plated contacts
Offers greatest longevity when using high power, elevated temperature applications

• UL94 V-0 housing material
Provides security in knowledge the connector chosen meets strict UL flammability ratings



PRODUCT RANGE

UL Current Rating (Amperes)*	10* to 30****
UL Voltage Ratings (Volts)**	600*
Contact Barrel Wire Size (AWG)	#10 to 16
(mm^2)	5.3 to 1.3
Maximum Wire Insulation Diameter (inches)	.175 to 0.137
(mm)	4.45 to 3.48
AVG Contact Resistance* (micro-ohms)	600 to 2200
Insulation Withstanding Test Voltage (Volts AC/DC)	2200
Contact Retention Force (lbf)	25
Life	
a. No load (Contact/Disconnect Cycles)	To 10,000
Avg. Connection/Disconnect (lbf)	3 to 5
Operating Temperature Range °C***	-20° to 105°
°F	-4° to 221°
Flammability Rating of Housing Material	UL94 V-0

RoHS COMPLIANT APP

** UL Rated for 65°C largest wire or cable size*
*** Both AC & DC Voltage*
**** Contact factory for higher temperature rated connectors*
***** Based on 10 AWG*

PRODUCT INFORMATION

Invented by Anderson Power Products®, the innovative modular Powerpole® connectors provide cost-effective reliability, design flexibility and safety for your products' manufacture, installation and maintenance.

Powerpole® pin & socket series connector, designed as ground terminal are for make-first/break-last connections. The dovetail feature allows you to interlock multiple housings into vertical and horizontal configurations, providing you with unique variations that are specific to each individual project requirement. The housings are interchangeable, genderless interconnects. Insert contacts into housings and plug together for a clever, simple and low-cost solution to power interconnection.

Powerpole® modular pin and socket connectors are available in 10 and 30 amp ratings for use through 600 Volts continuous, AC or DC operation. There are Powerpoles for many applications and wire sizes, #10 (5.3mm) to #16AWG (1.3mm). Contacts are available in reeled and loose piece designs to support all production needs from very high volumes to engineering prototype and low-volume customized products.

Markets: Electronics, Telecommunications, Office Panels, UPS Systems, Electric Vehicles, Industrial & Much More.

PP10 Pin & Socket
Powerpole® Connector

Powerpole® connectors provide cost-effective reliability, design flexibility and safety for your products' manufacture, installation and maintenance.

The housings are modular. They provide 600 Volts continuous, AC or DC operation. Wire sizes range from #14 to #16 AWG (2.1 to 1.3 mm²). Contacts are available in reeled and loose piece designs to support all production needs from engineering prototype, low volume and high volumes products.

FEATURES

- **Make-first/Break-last connection**
  Provides safety and system integrity
- **Green housing**
  Visual indication of ground terminal
- **Molded-in dovetails**
  Can be assembled with standard Powerpole PP15, Powerpole PP30 and Powerpole PP45 connectors to make pre-grounded multipole configurations

PRODUCT SPECIFICATIONS

Connector Model	PP10 P & S	Connector Model	PP10 P & S
UL Current Rating (Amperes)*	10*	No load (Contact/Disconnect Cycles)	To 250
UL Voltage Ratings (Volts)**	600*	Avg. Connection/Disconnect (lbf)	5
Contact Barrel Wire Size (AWG) (mm²)	#14 to #16 2.1 to 1.3	Operating Temperature Range °C*** °F	-20° to 105° -4° to 221°
Maximum Wire Insulation Diameter (inches) (mm)	0.137 3.48	Flammability Rating of Housing Material	UL94 V-0
AVG Contact Resistance* (micro-ohms)	2200		
Insulation Withstanding Test Voltage (Volts AC/DC)	2200	RoHS COMPLIANT APP	
Contact Retention Force (lbf)	25		

** UL Rated for 65°C largest wire or cable size*
*** Both AC & DC Voltage*
**** Contact factory for higher temperature rated connectors*

ORDERING INFORMATION

Housing & 10 amp Contact

Part Number	Housing Color	Wire AWG	Wire sq. mm
1200G1	Socket, Green	14/16	2.1/1.3
1201G1	Pin, Green	14/16	2.1/1.3

Housings Only

Part Number	Description
1204G1	Green housing, socket
1205G1	Green housing, pin

Tooling

Part Number	Description
1309G1	Hand tool, #14 to #16
260G3	Applicator only (110V & 220V)
280G2	Applicator and press (110V, 60Hz)
250G1	Press only (110V, 60Hz)
250G2	Press only (220V, 50Hz)

10 amp Contacts

Part Number	Description	Wire AWG	Wire sq. mm
1202G1	Socket, Individual	14/16	2.1/1.3
264G1	Socket, Reel	14/16	2.1/1.3
1203G1	Pin, Individual	14/16	2.1/1.3
263G1	Pin, Reel	14/16	2.1/1.3

Note: For additional colors please contact customer service

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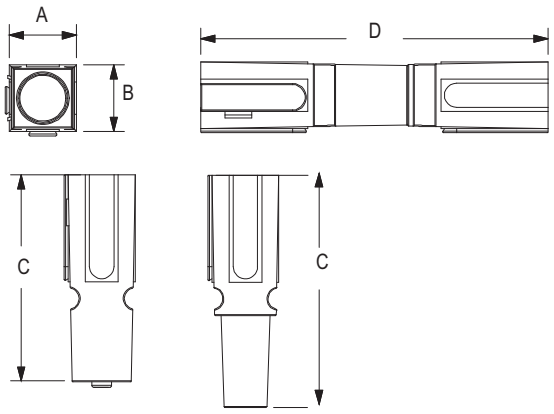
PP10 Pin & Socket Connector

DIMENSIONS

Housings

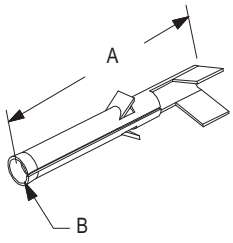
Series	-A- mm	-A- in.	-B- mm	-B- in.	-C- mm	-C- in.	-D- mm	-D- in.
PP10 Pin	7.9	0.31	7.9	0.31	24.5	0.97	41.3	1.63
PP10 Socket	7.9	0.31	7.9	0.31	27.5	1.081	41.3	1.63



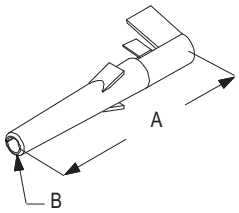
Contacts

Series	-A- mm	-A- in.	-B- mm	-B- in.
PP10 Pin	22.4	0.88	2.4	0.093 - OD
PP10 Socket	22.4	0.88	2.3	0.089 - ID

Socket Contact

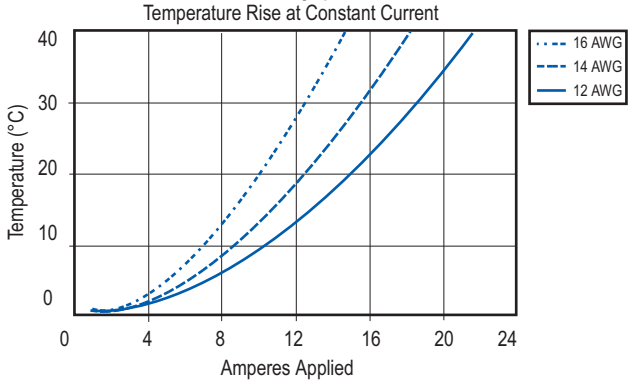


Pin Contact

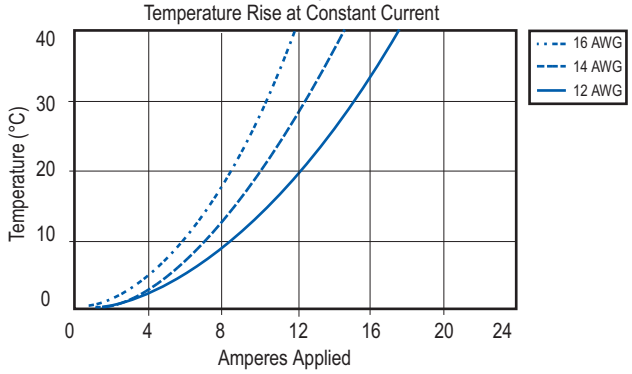


TEMPERATURE RISE CHARTS

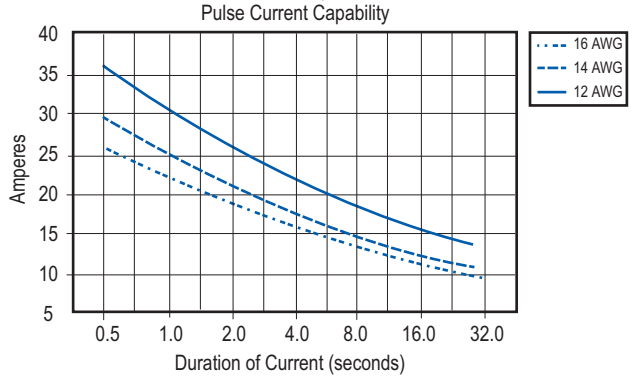
PP10 Singlepole
Temperature Rise at Constant Current



PP10 Multipole
Temperature Rise at Constant Current



PP10 Multipole
Pulse Current Capability



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PP30 Pin & Socket
Powerpole® Connector

Powerpole® pin & socket series connector, designed as ground terminal are for make-first/break-last connections.

The dovetail feature allows you to interlock multiple housings into vertical and horizontal configurations, providing you with unique variations that are specific to each individual project requirement.

Powerpole® connectors provide 600 Volts continuous, AC or DC operation. This series accommodates #10 AWG (5.3 mm²).

FEATURES

- **Make-first/Break-last connection**
  Provides safety and system integrity
- **Green housing**
  Indicates ground terminal
- **Molded-in dovetails**
  Can be assembled into "keyed" configurations to preclude misconnections

PRODUCT SPECIFICATIONS

Connector Model	PP30 P & S	Connector Model	PP30 P & S
UL Current Rating (Amperes)*	30****	No load (Contact/Disconnect Cycles)	To 250
UL Voltage Ratings (Volts)**	600*	Avg. Connection/Disconnect (lbf)	3
Contact Barrel Wire Size (AWG) (mm²)	#10 5.3	Operating Temperature Range °C*** °F	-20° to 105° -4° to 221°
Maximum Wire Insulation Diameter (inches) (mm)	0.175 4.45	Flammability Rating of Housing Material	UL94 V-0
AVG Contact Resistance* (micro-ohms)	600		
Insulation Withstanding Test Voltage (Volts AC/DC)	2200		
Contact Retention Force (lbf)	25		

RoHS COMPLIANT APP

** UL Rated for 65°C largest wire or cable size*
*** Both AC & DC Voltage*
**** Contact factory for higher temperature rated connectors*
***** Based on 10 AWG*

ORDERING INFORMATION

30 amp Ground Socket Connectors

Part Number	Description	Wire AWG	Wire mm
PP30MF-S10T	Make First, Socket Tin	#10	3.3
PP30MF-S10S	Make First, Socket Silver	#10	3.3

30 amp Ground Pin Connectors

Part Number	Description	Wire AWG	Wire mm
PP30MF-P10T	Make First, PinTin	#10	3.3
PP30MF-P10S	Make First, Pin Silver	#10	3.3
PP30MF-PPCT	Make First, Pin PC Tin	NA	NA
PP30MF-PPCS	Make First, Pin PC Silver	NA	NA

Ground Pin Contacts

Part Number	Description	Dia.
1230G1	Individual, Pin for wire Tin	.134
1231G1	Individual, Pin for wire Silver	.134
1234G1	Pin, PCB Tin	N/A
1235G1	Pin, PCB Silver	N/A

Ground Socket Contacts

Part Number	Description	Dia.
1232G1	Individual, Socket for wire Tin	.134
1233G1	Individual, Socket for wire Silver	.134

Pin & Socket Housing Only

Part Number	Description
PP30GND-P	Pin housing, green
PP30GND-S	Socket housing, green

Pin & Socket Contacts For Use With Superflex Wire

Part Number	Description	Wire AWG	Wire mm
1226G1	Pin Contact	#10	6
1228G1	Socket Contact	#10	6

Tooling

Part Number	Description
1396G1	Hand Tool
1387G1	Pneumatic Tool
1388G8	- Die #10
1389G8	- Locator #10

Note: For additional colors please contact customer service

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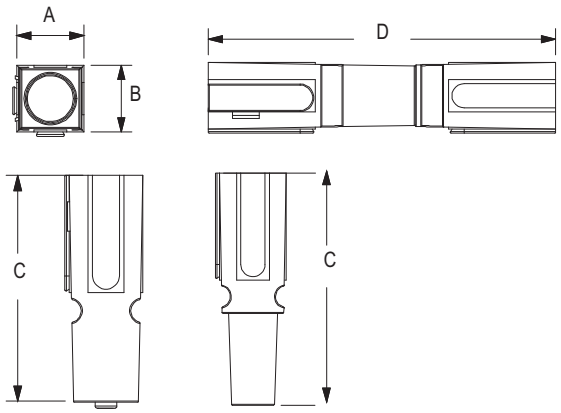
PP30 Pin & Socket Connector

DIMENSIONS

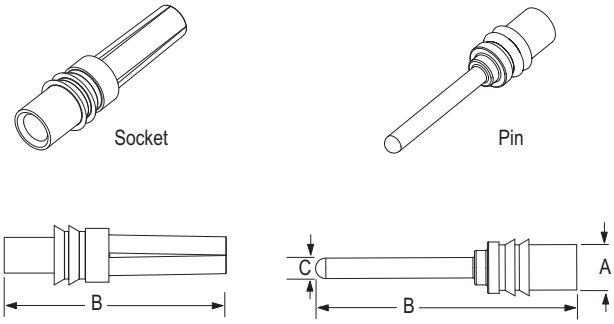
Housings

Series	-A- mm	-A- in.	-B- mm	-B- in.	-C- mm	-C- in.	-D- mm	-D- in.
PP30 Pin	7.9	0.32	7.9	0.32	26.6	0.97	41.2	1.62
PP30 Socket	7.9	0.32	7.9	0.32	26.6	0.97	41.2	1.62

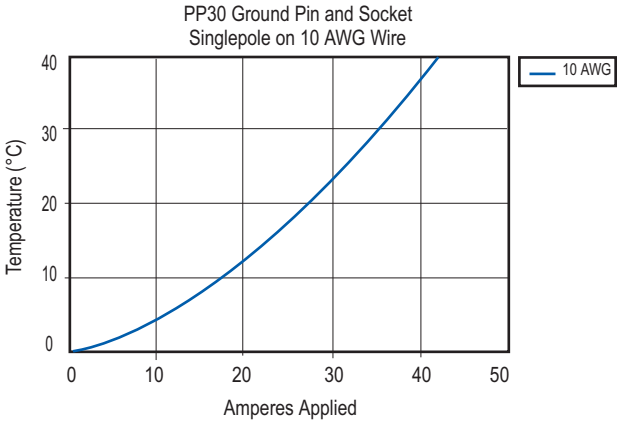


Contacts

Series	-A- mm	-A- in.	-B- mm	-B- in.	-C- mm	-C- in.
PP30 Pin	5.1	0.20	29.2	1.15	2.29	0.09
PP30 Socket	5.1	0.20	24.9	0.98	N/A	N/A



TEMPERATURE RISE CHART



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Anderson Power Products®

Connector Notes

For customer drawings, assembly instructions and individual data sheets, please visit www.andersonpower.com.

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FEATURES

• Flat wiping contact system
Allows for minimal contact resistance at high current, wiping action cleans contact surface during connection/disconnection

• Interchangeable genderless design
Makes assembly quick and easy and reduces number of parts stocked

• Silver plated contacts
Offers greatest longevity when using high power, elevated temperature applications

• Colored modular housings
Provides visual identification of proper mating connector

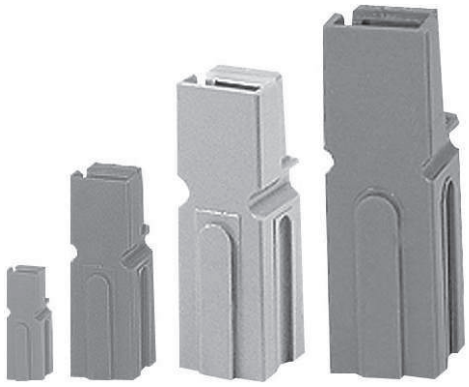
• Polarized housings
Prevents damage to connectors from being mated incorrectly

• Molded-in dovetails
Secures individual connectors together

• Crimp PCB or Bus bar contact terminals
Offers design flexibility for your manufacturing and maintenance requirements

• Wide product range - from 15 amps through 180 amps
15, 30, 45, 75, 120 and 180 product ratings, allows versatility to choose product best suited to design requirements

• UL94 V-0 housing material
Provides security in knowledge that the connector chosen meets strict UL flammability ratings



PRODUCT RANGE

UL Current Rating (Amperes)*	15* to 180*
UL Voltage Ratings (Volts)**	600*
Contact Barrel Wire Size (AWG)	#20 to 1/0
(mm^2)	.5 to 53.5
Maximum Wire Insulation Diameter (inches)	.175 to 0.900
(mm)	4.45 to 22.86
AVG Contact Resistance* (micro-ohms)	578 to 100
Insulation Withstanding Test Voltage (Volts AC/DC)	2200
Contact Retention Force (lbf)	25 to 170
Life	
a. No load (Contact/Disconnect Cycles)	To 10,000
b. Under Load (Hot Plug250 cycles @ 120V)	15A to 75A
Avg. Connection/Disconnect (lbf)	3 to 20
Operating Temperature Range °C***	-20° to 105°
°F	-4° to 221°
Flammability Rating of Housing Material	UL94 V-0

RoHS COMPLIANT APP

** UL Rated for 65°C largest wire or cable size*
*** Both AC & DC Voltage*
**** Contact factory for higher temperature rated connectors*

PRODUCT INFORMATION

Invented by Anderson Power Products®, the innovative modular Powerpole® connectors provide cost-effective reliability, design flexibility and safety for your products' manufacture, installation and maintenance.

The housings are interchangeable, genderless interconnects. Insert contacts into housings and plug together for a clever, simple and low-cost solution to power interconnection. Low-detent contacts are also offered for low insertion/withdrawal force applications.

Powerpole® modular connectors are available in 15, 30, 45, 75, 120 and 180 amp ratings for use through 600 Volts continuous, AC or DC operation. There are Powerpoles for many applications and wire sizes, #20 (.5mm) to 1/0 AWG (53.5mm). Contacts are available in reeled and loose piece designs to support all production needs from very high volumes to engineering prototype and low-volume customized products. Powerpoles are stackable and color-coded for easy customization into multipole blocks with or without mechanical keys and make first - break last contacts.

Markets: Electronics, Telecommunications, Office Panels, UPS Systems, Electric Vehicles, Industrial & Much More.

BAUART GEPRÜFT TÜV Rheinland TYPE APPROVED *Powerpole® 1327, 1345 and 1330 series*

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PP15 Powerpole® Connector

Powerpole® connectors provide cost-effective reliability, design flexibility and safety for your products' manufacture, installation and maintenance.

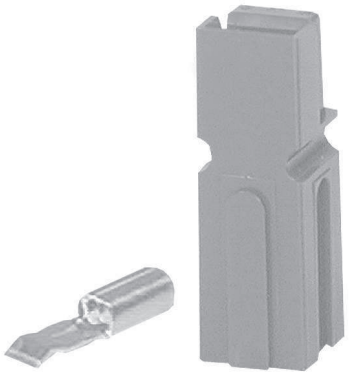
The housings are modular and genderless. Powerpole® connectors provide 600 Volts continuous, AC or DC operation. Wire sizes range from #16 to #20 AWG (1.3 to .5 mm²). Contacts are available in reeled and loose piece designs to support all production needs from engineering prototype , low volume and high volumes products.

FEATURES

• Flat wiping contact system
Minimal contact resistance at high current, wiping action cleans contact surface during connection/disconnection

• Colored modular housings
Provides visual identification of proper mating connector

• Molded-in dovetails
Secures individual connectors into "keyed" assemblies which prevents misconnection with similar configurations



PRODUCT SPECIFICATIONS

Connector Model	PP15
UL Current Rating (Amperes)*	15*
UL Voltage Ratings (Volts)**	600*
Contact Barrel Wire Size (AWG) (mm²)	#16 to #20 1.3 to .5
Maximum Wire Insulation Diameter (inches) (mm)	0.175 4.45
AVG Contact Resistance* (micro-ohms)	875
Insulation Withstanding Test Voltage (Volts AC/DC)	2200
Contact Retention Force (lbf)	25

Connector Model	PP15
Life	
a. No load (Contact/Disconnect Cycles)	To 10,000
b. Under Load (Hot Plug 250 cycles @ 120V)	15A
Avg. Connection/Disconnect (lbf)	3 - low detent 5 - high detent
Operating Temperature Range °C*** °F	-20° to 105° -4° to 221°
Flammability Rating of Housing Material	UL94 V-0

RoHS COMPLIANT APP

** UL Rated for 65°C largest wire or cable size*
*** Both AC & DC Voltage*
**** Contact factory for higher temperature rated connectors*

ORDERING INFORMATION

Housing & 15 amp Contact

Part Number	Housing Color	Wire AWG	Wire sq. mm
1395	Red	16/20	1.3/.52
1395G1	Black	16/20	1.3/.52
1395G2	White	16/20	1.3/.52
1395G3	Green	16/20	1.3/.52
1395G4	Blue	16/20	1.3/.52
1395G5	Yellow	16/20	1.3/.52
1395G6	Orange	16/20	1.3/.52
1395G7	Gray	16/20	1.3/.52
1395G8	Brown	16/20	1.3/.52
1395G9	Pink	16/20	1.3/.52
1395G10	Purple	16/20	1.3/.52

15 amp Contacts*

Part Number	Wire Description	AWG	sq. mm
1332	Individual - LD	16/20	1.3/.52
262G1	Reel - LD	16/20	1.3/.52
269G2	Reel - HD	16/20	1.3/.52
269G2-LPBK	Individual - HD	16/20	1.3/.52
200G2L	Superflex, reel - LD	16/20	1.3/.52
201G2H	Superflex, reel - LD	16/20	1.3/.52

Housings Only

Part Number	Description
1327	Red housing
1327G5	Green housing
1327G6	Black housing
1327G7	White housing
1327G8	Blue housing
1327G16	Yellow housing

housings continued

Part Number	Description
1327G17	Orange housing
1327G18	Gray housing
1327G21	Brown housing
1327G22	Pink housing
1327G23	Purple housing

Accessories

Part Number	Description
1441G1	Female splash boot
1442G1	Male splash boot
110G21	Blok lok, 2 pole
110G12	Blok lok, 4 pole
1399G9	Red mounting wing
1399G8	Blue mounting wing
110G68	PP15/45 retention clip

** LD - low detent or HD - high detent*

Note: For additional colors please contact customer service

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ORDERING INFORMATION

accessories continued

Part Number	Description
1399G1	Red short spacer with end hole
1399G2	Red long spacer
1399G6	Red short spacer without hole
1462G1	2 & 4 pole mounting clamp set
1462G2	3 & 6 pole mounting clamp set
1462G3	4 & 8 pole mounting clamp set
110G16	Retaining pins, 1 high block of connectors
110G17	Retaining pins, 2 high block of connectors

Tooling

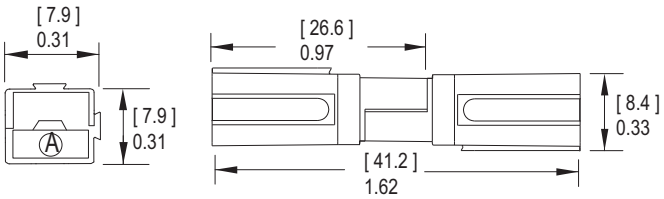
Part Number	Description
111038G2	Contact insertion/extraction tool
1309G2	Hand tool #12 to #20
1309G5	Hand tool for p/n 200G2L & 201G2H
260G1	Applicator only (110V & 220V)
280G1	Applicator and press (110V, 60Hz)
260G14*	Applicator only (110V & 220V)
260G15*	Applicator only (110V & 220V)
260G18**	Applicator only (110V & 220V)
250G1	Press only (110V, 60Hz)
280G4	Applicator and press (220V, 50Hz)
250G2	Press only (220V, 50Hz)

** Denotes mini-style applicator for use with existing "K' or "T" press*

*** Denotes mini-style applicator for use with existing "K" or "T" and "G" press*

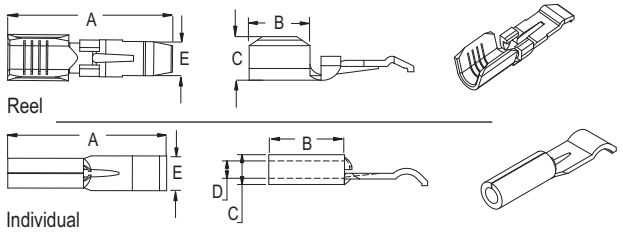
DIMENSIONS

Housing

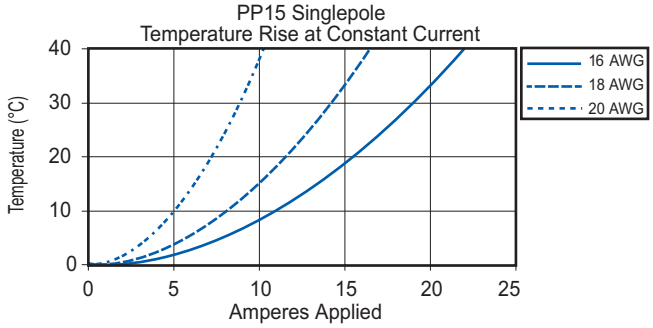


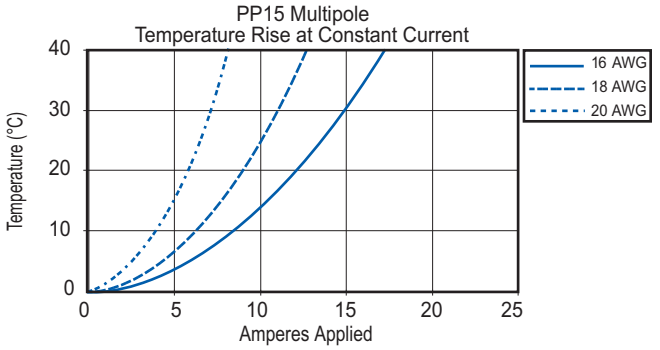
Contacts

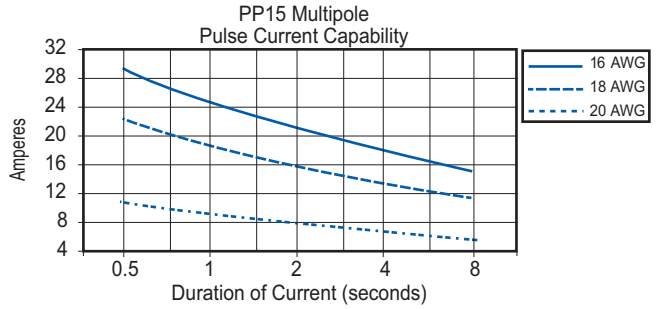
Part Number	-A- mm	-A- in.	-B- mm	-B- in.	-C- mm	-C- in.	-D- mm	-D- in.	-E- mm	-E- in.
1332	16.3	0.64	7.8	0.31	3.1	0.12	1.8	0.07	3.6	0.14
262G1	17.2	0.68	6.4	0.25	4.1	0.16	N/A		3.6	0.14
269G2	17.2	0.68	6.4	0.25	4.1	0.16	N/A		3.6	0.14
269G2-LPBK	17.2	0.68	6.4	0.25	4.1	0.16	N/A		3.6	0.14
200G2L	17.3	0.68	6.4	0.25	4.1	0.16	N/A		3.6	0.14
201G2H	17.3	0.68	6.4	0.25	4.1	0.16	N/A		3.6	0.14



TEMPERATURE RISE CHARTS

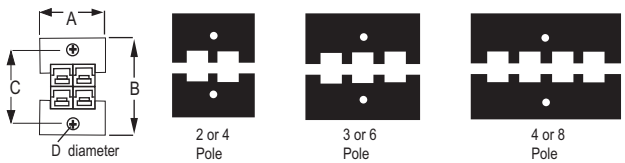






Mounting Clamps

Part Number	-A- mm	-A- in.	-B- mm	-B- in.	-C- mm	-C- in.	-D- mm	-D- in.	Number of Poles
1462G1	23.9	0.94	26.9	1.06	17.3	0.68	4.0	0.16	(2 Pole)
1462G1	23.9	0.94	35.0	1.38	25.4	1.00	4.0	0.16	(4 Pole)
1462G2	31.7	1.25	26.9	1.06	17.3	0.68	4.0	0.16	(3 Pole)
1462G2	31.7	1.25	35.0	1.38	25.4	1.00	4.0	0.16	(6 Pole)
1462G3	39.6	1.56	26.9	1.06	17.3	0.68	4.0	0.16	(4 Pole)
1462G3	39.6	1.56	35.0	1.38	25.4	1.00	4.0	0.16	(8 Pole)



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PP30 Powerpole® Connector

Powerpole® connectors provide cost-effective reliability, design flexibility and safety for your products' manufacture, installation and maintenance.

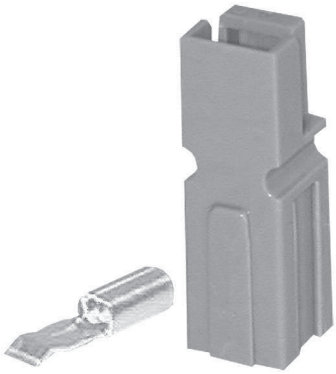
The housings are modular and genderless. Powerpole® connectors provide 600 Volts continuous, AC or DC operation. Wire sizes range from #12 to #16 AWG (3.3 to 1.3 mm²). Contacts are available in reeled and loose piece designs to support all production needs from engineering prototype , low volume and high volumes products.

FEATURES

• Flat wiping contact system
Minimal contact resistance at high current, wiping action cleans contact surface during connection/disconnection

• Colored modular housings
Provides visual identification of proper mating connector

• Molded-in dovetails
Secures individual connectors into "keyed" assemblies which prevents misconnection with similar configurations



PRODUCT SPECIFICATIONS

Connector Model	PP30	Connector Model	PP30
UL Current Rating (Amperes)*	30*	Life	
		a. No load (Contact/Disconnect Cycles)	To 10,000
UL Voltage Ratings (Volts)**	600*	b. Under Load (Hot Plug 250 cycles @ 120V)	30A
Contact Barrel Wire Size (AWG)	#12 to #16	Avg. Connection/Disconnect (lbf)	3 - low detent
(mm²)	3.3 to 1.3		5 - high detent
Maximum Wire Insulation Diameter (inches)	0.175	Operating Temperature Range °C***	-20° to 105°
(mm)	4.45	°F	-4° to 221°
AVG Contact Resistance* (micro-ohms)	600	Flammability Rating of Housing Material	UL94 V-0
Insulation Withstanding Test Voltage (Volts AC/DC)	2200		
Contact Retention Force (lbf)	25		

** UL Rated for 65°C largest wire or cable size*
*** Both AC & DC Voltage*
**** Contact factory for higher temperature rated connectors*

ORDERING INFORMATION

Housing & 30 amp Contact

Part Number	Housing Color	Wire AWG	Wire sq. mm
1330	Red	12/16	3.3/1.3
1330G2	Green	12/16	3.3/1.3
1330G4	Black	12/16	3.3/1.3
1330G5	White	12/16	3.3/1.3
1330G11	Yellow	12/16	3.3/1.3
1330G12	Blue	12/16	3.3/1.3
1330G13	Orange	12/16	3.3/1.3
1330G14	Gray	12/16	3.3/1.3
1330G15	Brown	12/16	3.3/1.3
1330G16	Pink	12/16	3.3/1.3
1330G17	Purple	12/16	3.3/1.3

Note: For additional colors please contact customer service

30 amp Contacts*

Part Number	Description	Wire AWG	Wire sq. mm
1331	Individual - LD	12/16	3.3/1.3
261G1	Reel - LD	12/16	3.3/1.3
269G1-LPBK	Individual - LD	12/16	3.3/1.3
269G1	Reel - HD	12/16	3.3/1.3
200G2L	Superflex, reel - LD	16/20	1.3/.52
201G2H	Superflex, reel - HD	16/20	1.3/.52

Housings Only

Part Number	Description
1327	Red housing
1327G5	Green housing
1327G6	Black housing
1327G7	White housing
1327G8	Blue housing

** LD - low detent or HD - high detent*

housings continued

Part Number	Description
1327G16	Yellow housing
1327G17	Orange housing
1327G18	Gray housing
1327G21	Brown housing
1327G22	Pink housing
1327G23	Purple housing

Accessories

Part Number	Description
1441G1	Female splash boot
1442G1	Male splash boot
110G21	Blok lok, 2 pole
110G12	Blok lok, 4 pole
1399G9	Red mounting wing
1399G8	Blue mounting wing
110G68	PP15/45 retention clip

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PP30 Powerpole® Connector

ORDERING INFORMATION

accessories continued

Part Number	Description
1399G1*	Red short spacer with end hole
1399G2*	Red long spacer
1399G6*	Red short spacer without hole
1462G1	2 & 4 pole mounting clamp set
1462G2	3 & 6 pole mounting clamp set
1462G3	4 & 8 pole mounting clamp set
110G16	Retaining pins, 1 high block of connectors
110G17	Retaining pins, 2 high block of connectors

** Contact customer service for additional colors*

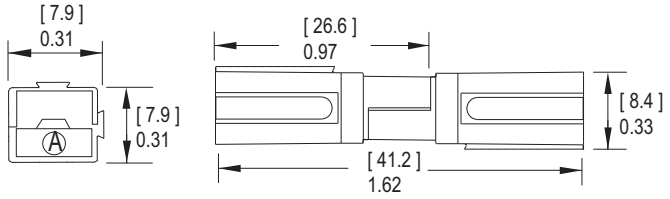
Tooling

Part Number	Description
111038G2	Contact insertion/extraction tool
1309G2	Hand tool #12 to #20
1309G5	Hand tool for p/n 200G2L & 201G2H
260G1	Applicator only (110V & 220V)
260G14*	Applicator only (110V & 220V)
260G15*	Applicator only (110V & 220V)
260G18**	Applicator only (110V & 220V)
280G1	Applicator and press (110V, 60Hz)
250G1	Press only (110V, 60Hz)
280G4	Applicator and press (220V, 50Hz)
250G2	Press only (220V, 50Hz)

** Denotes mini-style applicator for use with existing "K" or "T" press*
*** Denotes mini-style applicator for use with existing "K" or "T" and "G" press*

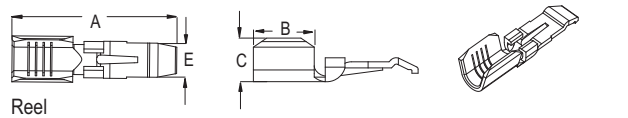
DIMENSIONS

Housing

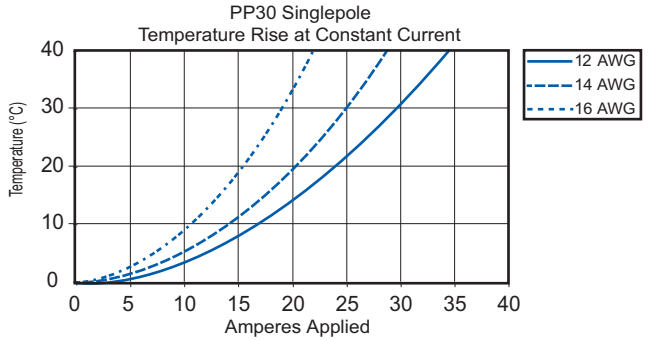


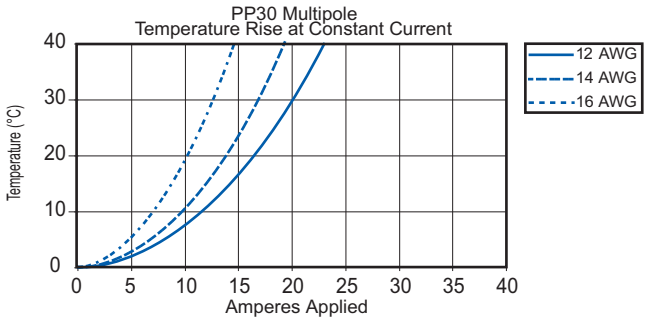
Contacts

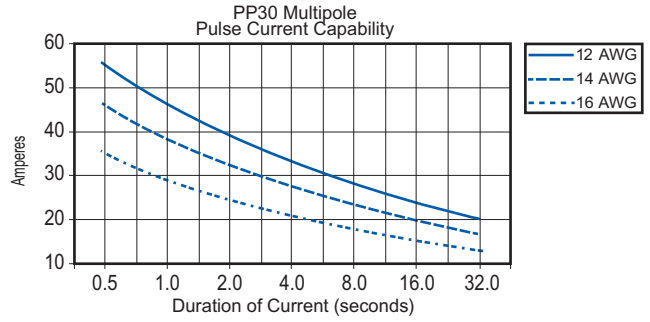
Part Number	-A- mm	-A- in.	-B- mm	-B- in.	-C- mm	-C- in.	-D- mm	-D- in.	-E- mm	-E- in.
1331	16.3	0.64	7.7	0.31	3.7	0.15	2.6	0.10	3.7	0.15
261G1	17.3	0.68	6.4	0.25	4.6	0.18	N/A		3.6	0.14
269G1-LPBK	17.2	0.68	6.4	0.25	4.5	0.18	N/A		3.6	0.14
269G1	17.2	0.68	6.4	0.25	4.5	0.18	N/A		3.6	0.14
200G2L	17.3	0.68	6.4	0.25	4.1	0.16	N/A		3.6	0.14
201G2H	17.2	0.68	6.4	0.25	4.1	0.16	N/A		3.6	0.14



TEMPERATURE RISE CHARTS

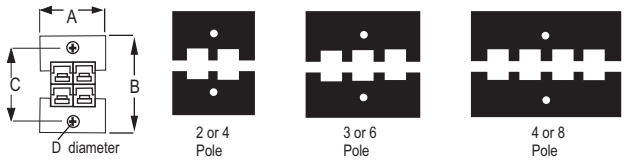






Mounting Clamps

Part Number	-A- mm	-A- in.	-B- mm	-B- in.	-C- mm	-C- in.	-D- mm	-D- in.	Number of Poles
1462G1	23.9	0.94	26.9	1.06	17.3	0.68	4.0	0.16	(2 Pole)
1462G1	23.9	0.94	35.0	1.38	25.4	1.00	4.0	0.16	(4 Pole)
1462G2	31.7	1.25	26.9	1.06	17.3	0.68	4.0	0.16	(3 Pole)
1462G2	31.7	1.25	35.0	1.38	25.4	1.00	4.0	0.16	(6 Pole)
1462G3	39.6	1.56	26.9	1.06	17.3	0.68	4.0	0.16	(4 Pole)
1462G3	39.6	1.56	35.0	1.38	25.4	1.00	4.0	0.16	(8 Pole)



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www.andersonpower.com

PP45 Powerpole® Connector

Powerpole® connectors provide cost-effective reliability, design flexibility and safety for your products' manufacture, installation and maintenance.

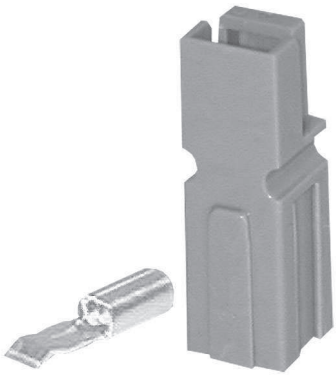
The housings are modular and genderless. Powerpole® connectors provide 600 Volts continuous, AC or DC operation. Wire sizes range from #10 to #14 AWG (5.3 to 2.1 mm²). Contacts are available in reeled and loose piece designs to support all production needs from engineering prototype , low volume and high volumes products.

FEATURES

• Flat wiping contact system
Minimal contact resistance at high current, wiping action cleans contact surface during connection/disconnection

• Colored modular housings
Provides visual identification of proper mating connector

• Molded-in dovetails
Secures individual connectors into "keyed" assemblies which prevents misconnection with similar configurations



PRODUCT SPECIFICATIONS

Connector Model	PP45	Connector Model	PP45
UL Current Rating (Amperes)*	45*	Life	
		a. No load (Contact/Disconnect Cycles)	To 10,000
UL Voltage Ratings (Volts)**	600*	b. Under Load (Hot Plug 250 cycles @ 120V)	30A
Contact Barrel Wire Size (AWG)	#10 to #14	Avg. Connection/Disconnect (lbf)	3 - low detent
(mm²)	5.3 to 2.1		5 - high detent
Maximum Wire Insulation Diameter (inches)	0.175	Operating Temperature Range °C***	-20° to 105°
(mm)	4.45	°F	-4° to 221°
AVG Contact Resistance* (micro-ohms)	525	Flammability Rating of Housing Material	UL94 V-0
Insulation Withstanding Test Voltage (Volts AC/DC)	2200	RoHS COMPLIANT APP	
Contact Retention Force (lbf)	25		

** UL Rated for 65°C largest wire or cable size*
*** Both AC & DC Voltage*
**** Contact factory for higher temperature rated connectors*

ORDERING INFORMATION

Housing & 45 amp Contact

Part Number	Housing Color	Wire AWG	Wire sq. mm
1345	Red	10/14	5.3/2.1
1345G5	Green	10/14	5.3/2.1
1345G6	Black	10/14	5.3/2.1
1345G7	White	10/14	5.3/2.1
1345G8	Blue	10/14	5.3/2.1
1345G16	Yellow	10/14	5.3/2.1
1345G17	Orange	10/14	5.3/2.1
1345G18	Gray	10/14	5.3/2.1
1345G21	Brown	10/14	5.3/2.1
1345G22	Pink	10/14	5.3/2.1
1345G23	Purple	10/14	5.3/2.1

45 amp Contacts*

Part Number	Description	Wire AWG	Wire sq. mm
261G2	Reel - LD	10/14	5.3/2.1
269G3	Reel - HD	10/14	5.3/2.1

contacts continued

Part Number	Description	Wire AWG	Wire sq. mm
261G2-LPBK	Individual - LD	10/14	5.3/2.1
200G1L	Superflex, reel - LD	10/14	5.3/2.1
201G1H	Superflex, reel - HD	10/14	5.3/2.1

Housings Only

Part Number	Description
1327	Red housing
1327G5	Green housing
1327G6	Black housing
1327G7	White housing
1327G8	Blue housing
1327G16	Yellow housing
1327G17	Orange housing
1327G18	Gray housing
1327G21	Brown housing

housings continued

Part Number	Description
1327G22	Pink housing
1327G23	Purple housing

Accessories

Part Number	Description
1441G1	Female splash boot
1442G1	Male splash boot
110G21	Blok lok, 2 pole
110G12	Blok lok, 4 pole
1399G9	Red mounting wing
1399G8	Blue mounting wing
1399G1	Red short spacer with end hole
1399G2	Red long spacer
1399G6	Red short spacer without hole
1462G1	2 & 4 pole mounting clamp set
110G68	PP15/45 retention clip

** LD - low detent or HD - high detent* *Note: For additional colors please contact customer service*

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PP45 Powerpole® Connector

ORDERING INFORMATION

accessories continued

Part Number	Description
1462G2	3 & 6 pole mounting clamp set
1462G3	4 & 8 pole mounting clamp set
110G16	Retaining pins, 1 high block of connectors
110G17	Retaining pins, 2 high block of connectors

Tooling

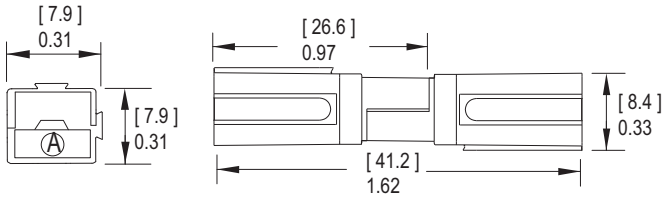
Part Number	Description
111038G2	Contact insertion/extraction tool
1309G3	Hand tool for p/n 261G2-LPBK
1309G5	Hand tool for p/n 200G2L & 201G2H
260G1	Applicator only (110V & 220V)
260G14*	Applicator only (110V & 220V)
260G15*	Applicator only (110V & 220V)
260G18**	Applicator only (110V & 220V)
280G1	Applicator and press (110V, 60Hz)
250G1	Press only (110V, 60Hz)
280G4	Applicator and press (220V, 50Hz)
250G2	Press only (220V, 50Hz)

** Denotes mini-style applicator for use with existing "K" or "T" press*

*** Denotes mini-style applicator for use with existing "K" or "T" and "G" press*

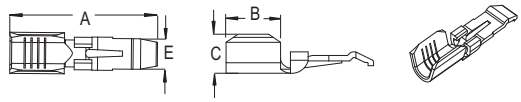
DIMENSIONS

Housing



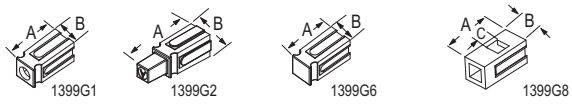
Contacts

Part Number	-A- mm	-A- in.	-B- mm	-B- in.	-C- mm	-C- i n.	-E- mm	-E- in.
200G1L	17.3	0.68	6.4	0.25	6.1	0.24	3.6	0.14
201G1H	17.2	0.68	6.4	0.25	6.1	0.24	3.6	0.14
261G2	17.3	0.68	6.4	0.25	5.1	0.20	3.6	0.14
261G2-LPBK	17.3	0.68	6.4	0.25	5.1	0.20	3.6	0.14
269G3	17.2	0.68	6.4	0.25	5.3	0.20	3.6	0.14

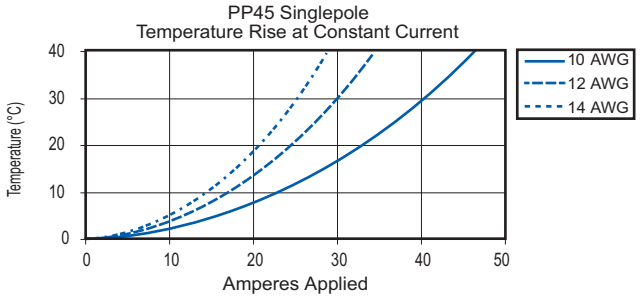


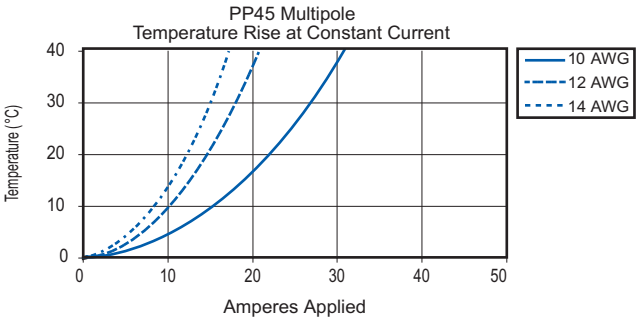
Spacers & Mounting Wings

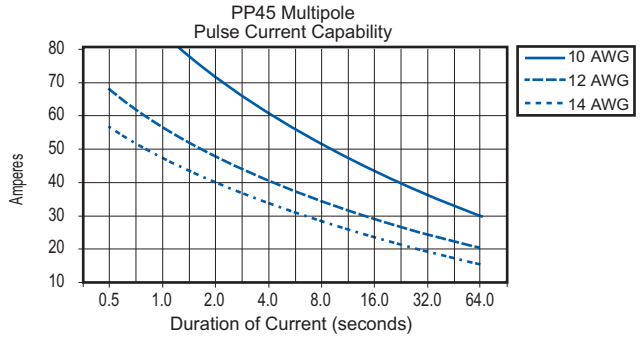
Part Number	-A- mm	-A- in.	-B- mm	-B- in.	-C- mm	-C- in.
1399G1	16.6	.655	7.9	.312	N/A	
1399G2	24.6	.968	7.9	.312	N/A	
1399G6	16.6	.655	7.9	.312	4.6	.180
1399G8	16.6	.655	7.9	.312	4.6	.180
1399G9	16.6	.655	7.9	.312	4.6	.180



TEMPERATURE RISE CHARTS

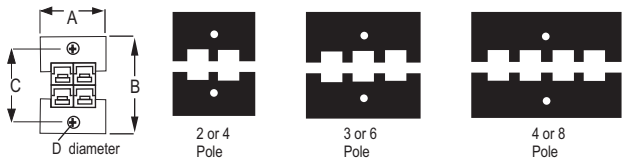






Mounting Clamps

Part Number	-A- mm	-A- in.	-B- mm	-B- in.	-C- mm	-C- in.	-D- mm	-D- in.	Number of Poles
1462G1	23.9	0.94	26.9	1.06	17.3	0.68	4.0	0.16	(2 Pole)
1462G1	23.9	0.94	35.0	1.38	25.4	1.00	4.0	0.16	(4 Pole)
1462G2	31.7	1.25	26.9	1.06	17.3	0.68	4.0	0.16	(3 Pole)
1462G2	31.7	1.25	35.0	1.38	25.4	1.00	4.0	0.16	(6 Pole)
1462G3	39.6	1.56	26.9	1.06	17.3	0.68	4.0	0.16	(4 Pole)
1462G3	39.6	1.56	35.0	1.38	25.4	1.00	4.0	0.16	(8 Pole)



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PP15/45 Powerpole®
Finger Proof Connector

The PP15/45 Finger Proof is designed specifically for high voltage applications where personal safety is critical. The connector meets the accessibility requirements of UL1977 section 10.2 and is recommended for applications over 50 volts.

Powerpole® connectors provide cost-effective reliability, design flexibility and safety for your products' manufacture, installation and maintenance.

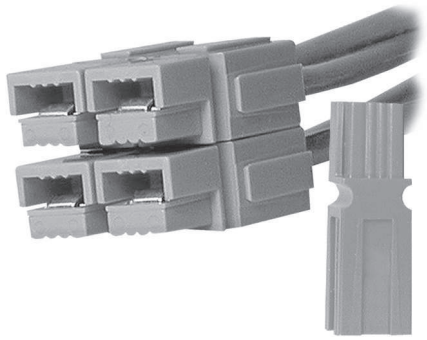
Powerpole® connectors provide 600 Volts continuous, AC or DC operation. Wire sizes range from #10 to #20 AWG (5.3 to .5 mm²). Contacts are available in reeled and loose piece, to support production needs from low to high volumes.

FEATURES

• Finger proof
Minimizes the potential contact with live contacts, per UL 1977 and EN/IEC 60529 condition IP20

• Molded-in dovetails
Secures individual connectors into "keyed" assemblies which prevents misconnection with similar configurations

• Interchangeable genderless design
Makes assembly quick, easy and reduces number of parts stocked



PRODUCT SPECIFICATIONS

Connector Model	PP15	PP30	PP45
UL Current Rating (Amperes)*	15*	30*	45*
UL Voltage Ratings (Volts)**	600*	600*	600*
Contact Barrel Wire Size (AWG)	#16 - #20	#12 - #16	#10 - #14
(mm²)	1.3 to .5	3.3 - 1.3	5.3 - 2.1
Maximum Wire Insulation Diameter (inches)	0.175	0.175	0.175
(mm)	4.45	4.45	4.45
AVG Contact Resistance* (micro-ohms)	875	600	525
Insulation Withstanding Test Voltage (Volts AC/DC)	2200	2200	2200
Contact Retention Force (lbf)	25	25	35

Connector Model	PP15	PP30	PP45
Life			
a. No load (Contact/Disconnect Cycles)	To 10,000	To 10,000	To 10,000
b. Under Load (Hot Plug 250 cycles @ 120V)	15A	30A	30A
Avg. Connection/Disconnect (lbf)	3-low detent	3-low detent	3-low detent
	5-high detent	5-high detent	5-high detent
Operating Temperature Range °C***	-20° to 105°	-20° to 105°	-20° to 105°
°F	-4° to 221°	-4° to 221°	-4° to 221°
Flammability Rating of Housing Material	UL94 V-0	UL94 V-0	UL94 V-0

RoHS COMPLIANT APP

** UL Rated for 65°C largest wire or cable size*
*** Both AC & DC Voltage*
**** Contact factory for higher temperature rated connectors*

ORDERING INFORMATION

Housings Only

Part Number	Description
1327FP	Red housing
1327G5FP	Green housing
1327G6FP	Black housing
1327G7FP	White housing
1327G8FP	Blue housing

15 amp Contacts*

Part Number	Wire Description	AWG	sq. mm
1332	Individual - LD	16/20	1.3/.52
262G1	Reel - LD	16/20	1.3/.52
269G2	Reel - HD	16/20	1.3/.52
269G2-LPBK	Individual - HD	16/20	1.3/.52
200G2L	Superflex, reel - LD	16/20	1.3/.52
201G2H	Superflex, reel - HD	16/20	1.3/.52

30 amp Contacts*

Part Number	Wire Description	AWG	sq. mm
1331	Individual - LD	12/16	3.3/1.3
261G1	Reel - LD	12/16	3.3/1.3
269G1-LPBK	Loose piece-bulk - HD	12/16	3.3/1.3
269G1	Reel - HD	12/16	3.3/1.3
200G2L	Superflex, reel - LD	16/20	1.3/.52
201G2H	Superflex, reel - HD	16/20	1.3/.52

45 amp Contacts*

Part Number	Wire Description	AWG	sq. mm
261G2	Reel, Low Det	10/14	5.3/2.1
269G3	Reel, High Det	10/14	5.3/2.1
261G2-LPBK	Individual	10/14	5.3/2.1
200G1L	Superflex, reel	10/14	5.3/2.1
201G1H	Superflex, reel	10/14	5.3/2.1

Accessories

Part Number	Description
1441G1	Female splash boot
1442G1	Male splash boot
110G21	Blok lok, 2 pole
110G12	Blok lok, 4 pole
1399G9	Red mounting wing
1399G8	Blue mounting wing
1399G1	Red short spacer with end hole
1399G2	Red long spacer
1399G6	Red short spacer without hole
1462G1	2 & 4 pole mounting clamp set
1462G2	3 & 6 pole mounting clamp set
1462G3	4 & 8 pole mounting clamp set
110G16	Retaining pins, 1 high block of connectors
110G17	Retaining pins, 2 high block of connectors

** LD - low detent or HD - high detent*
Note: For additional colors please contact customer service

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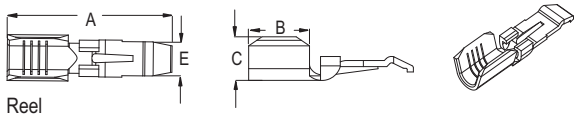
PP15/45 Finger Proof Connector

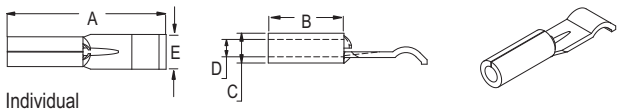
DIMENSIONS

Contacts

Part Number	-A- mm	-A- in.	-B- mm	-B- in.	-C- mm	-C- in.	-D- mm	-D- in.	-E- mm	-E- in.
1332	16.3	0.64	7.8	0.31	3.1	0.12	1.8	0.07	3.6	0.14
1331	16.3	0.64	7.7	0.31	3.7	0.15	2.6	0.10	3.7	0.15
261G1	17.3	0.68	6.4	0.25	4.6	0.18	N/A		3.6	0.14
261G2	17.3	0.68	6.4	0.25	5.1	0.20	N/A		3.6	0.14
261G2-LPBK	17.3	0.68	6.4	0.25	5.1	0.20	N/A		3.6	0.14
262G1	17.2	0.68	6.4	0.25	4.1	0.16	N/A		3.6	0.14
269G1	17.2	0.68	6.4	0.25	4.5	0.18	N/A		3.6	0.14
269G1-LPBK	17.2	0.68	6.4	0.25	4.5	0.18	N/A		3.6	0.14
269G2	17.2	0.68	6.4	0.25	4.1	0.16	N/A		3.6	0.14
269G2-LPBK	17.2	0.68	6.4	0.25	4.1	0.16	N/A		3.6	0.14
269G3	17.2	0.68	6.4	0.25	5.3	0.21	N/A		3.6	0.14
200G2L	17.3	0.68	6.4	0.25	4.1	0.16	N/A		3.6	0.14
201G2H	17.3	0.68	6.4	0.25	4.1	0.16	N/A		3.6	0.14
200G1L	17.3	0.68	6.4	0.25	6.1	0.24	N/A		3.6	0.14
201G1H	17.2	0.68	6.4	0.25	6.1	0.24	N/A		3.6	0.14

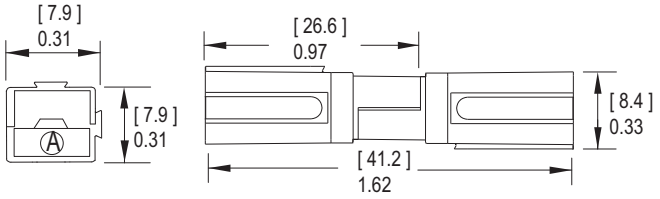


Reel



Individual

Housing



ORDERING INFORMATION

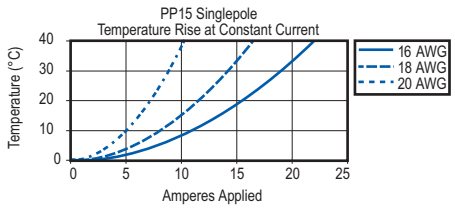
Tooling

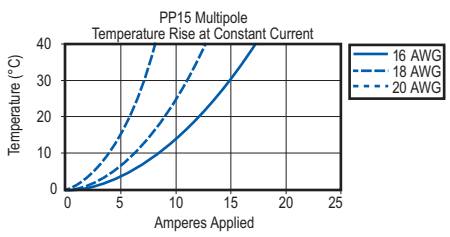
Part Number	Description
111038G2	Contact insertion/extraction tool
1309G2	Hand tool #12 to #20
1309G5	Hand tool for p/n 200G2L & 201G2H
260G1	Applicator only (110V & 220V)
260G14*	Applicator only (110V & 220V)
260G15*	Applicator only (110V & 220V)
260G18**	Applicator only (110V & 220V)
280G1	Applicator and press (110V, 60Hz)
250G1	Press only (110V, 60Hz)
280G4	Applicator and press (220V, 50Hz)
250G2	Press only (220V, 50Hz)

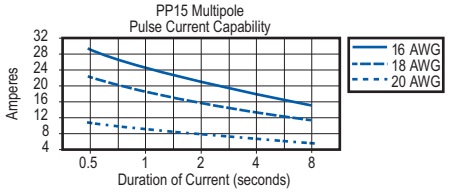
** Denotes mini-style applicator for use with existing "K" or "T" press*

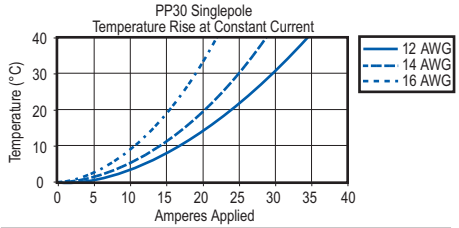
*** Denotes mini-style applicator for use with existing "K" or "T" and "G" press*

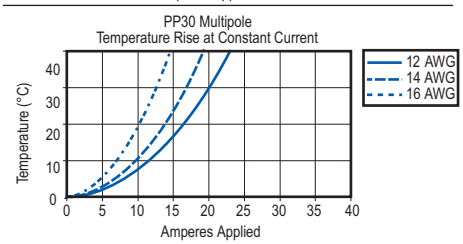
TEMPERATURE RISE CHARTS

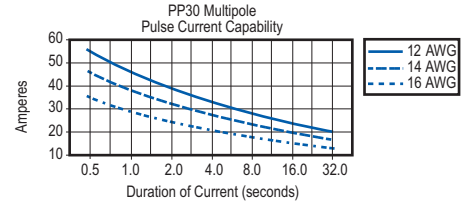


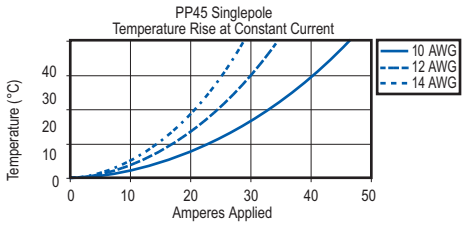


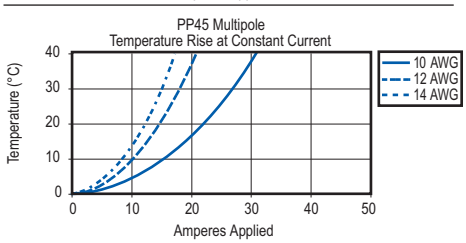


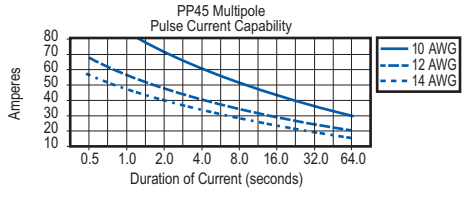












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www.andersonpower.com

PP75 Powerpole® Connector

Powerpole® connectors provide cost-effective reliability, design flexibility and safety for your products' manufacture, installation and maintenance.

The housings are modular and genderless. Powerpole® connectors provide 600 Volts continuous, AC or DC operation. Wire sizes range from #6 to #16 AWG (13.3 to 1.3 mm²). Contacts are available in reeled and loose piece designs to support all production needs from engineering prototype, low volume and high volumes products. Low-detent contacts are also offered for low insertion/withdrawal force applications.

FEATURES

• Flat wiping contact system
Minimal contact resistance at high current, wiping action cleans contact surface during connection/disconnection

• Colored modular housings
Provides visual identification of proper mating connector

• Molded-in dovetails
Secures individual connectors into "keyed" assemblies which prevents misconnection with similar configurations

PRODUCT SPECIFICATIONS

Connector Model	PP75	Connector Model	PP75
UL Current Rating (Amperes)*	75*	Life	
		a. No load (Contact/Disconnect Cycles)	To 10,000
UL Voltage Ratings (Volts)**	600*	b. Under Load (Hot Plug 250 cycles @ 120V)	50A
Contact Barrel Wire Size (AWG)	#6 to #16	Avg. Connection/Disconnect (lbf)	5 - low detent
(mm)	13.3 to 1.3		7 - high detent
Maximum Wire Insulation Diameter (inches)	0.437	Operating Temperature Range °C***	-20° to 105°
(mm)	11.10	°F	-4° to 221°
AVG Contact Resistance* (micro-ohms)	200	Flammability Rating of Housing Material	UL94 V-0
Insulation Withstanding Test Voltage (Volts AC/DC)	2200	RoHS COMPLIANT APP	
Contact Retention Force (lbf)	50		

** UL Rated for 75°C largest wire or cable size*
*** Both AC & DC Voltage*
**** Contact factory for higher temperature rated connectors*

ORDERING INFORMATION

Housing & 75 amp Contact

Part Number	Housing Color	Wire AWG	Wire sq. mm
1300	Blue	#6	13.3
1300G2	Green	#6	13.3
1300G3	Red	#6	13.3
1300G4	Black	#6	13.3
1300G5	White	#6	13.3

75 amp Contacts***

Part Number	Description	Wire AWG	Wire sq. mm
1307	Individual - LD	#6	13.3
5900	Individual - HD	#6	13.3
5914	Individual - HD	#10	5.3
5915	Individual - HD	#10/12	5.3/3.3
5952	Individual - HD	#8	8.4
5953	Individual - LD	#10/12	5.3/3.3
904G1	Set of (2) 5915 Contacts	#10/12	5.3/3.3
903G1	Set of (2) 5900 Contacts	#6	13.3
265G1	Reel, silver - HD	#6/8	13.3/8.4

contacts continued

Part Number	Description	Wire AWG	Wire sq. mm
265G2*	Reel, silver - HD	#10/12	5.3/3.3
265G3	Reel, silver - LD	#6/8	13.3/8.4
265G4*	Reel, silver - LD	#10/12	5.3/3.3
265G5	Reel, tin - HD	#6/8	13.3/8.4
265G6**	Reel, tin - HD	#10/12	5.3/3.3
265G7	Reel, tin - LD	#6/8	13.3/8.4
265G8**	Reel, tin - LD	#10/12	5.3/3.3
75BBS	75 amp Bus bar contact	N/A	N/A

Housings Only

Part Number	Description
5916	Blue housing
5916G4	Black housing
5916G5	White housing
5916G6	Green housing
5916G7	Red housing

Accessories

Part Number	Description
110G18	Retaining Pins, 2 high block of connectors
110G19	Retaining Pins, 1 high block of connectors
1399G20	Mounting wing blue, round hole
1399G7	Mounting wing blue, oval hole
1463G1	2 & 4 pole mounting clamp set
1463G2	3 & 6 pole mounting clamp set
110G57	Lock nut for use with bus bar contact

Bushings

Part Number	Wire AWG	Wire sq. mm
Use with 5900 or 1307		
5910	#6 to #10/12	13.3 to 5.3/3.3
5912	#6 to #8	13.3 to 8.4
5913	#6 to #14/16	13.3 to 2.1/1.3

** Using 10/12 AWG wire reduces rating to 50 amps*
*** Using 10/12 AWG wire reduces rating to 40 amps*
**** LD - low detent or HD - high detent*
Note: For additional colors please contact customer service

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www.andersonpower.com

PP75 Powerpole® Connector

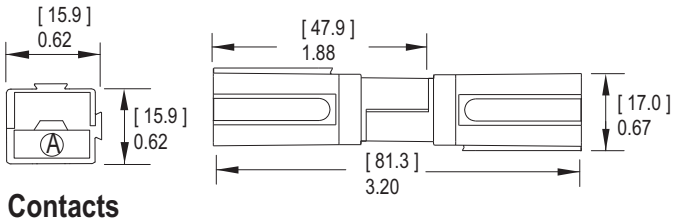
ORDERING INFORMATION

Tooling

Part Number	Description
1309G4	Hand tool, #16 to #6
1387G1	Pneumatic tool, #16 to #6
1388G6	- die for #16 to #6 AWG
1388G7	- die for #10 to #12 AWG (5914, 5915 & 5953 contacts)
1389G6	- locator for #16 to #6 AWG
1389G7	- locator for #10 to #12 AWG (5914, 5915 & 5953 contacts)
260G16	Applicator only (110V & 220V)
284G1	Applicator & Press (220V, 50Hz)
250G5	Press only (110V, 60Hz)

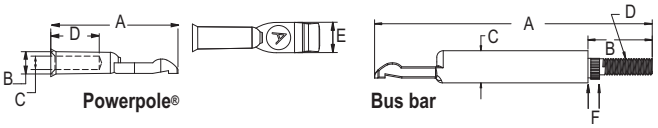
DIMENSIONS

Housing



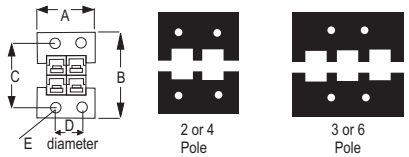
Contacts

Part Number	-A- mm	-A- in.	-B- mm	-B- in.	-C- mm	-C- in.	-D- mm	-D- in.	-E- mm	-E- in.	-F- mm	-F- in.
1307	30.0	1.18	7.2	0.28	5.6	0.22	11.4	0.45	7.1	0.28	N/A	
5900	30.0	1.18	7.2	0.28	5.6	0.22	11.4	0.45	7.1	0.28	N/A	
5914	29.7	1.17	4.8	0.19	3.5	0.14	11.4	0.45	7.1	0.28	N/A	
5915	30.0	1.18	7.2	0.28	3.5	0.14	11.4	0.45	7.1	0.28	N/A	
5952	30.0	1.18	7.2	0.28	4.7	0.19	11.4	0.45	7.1	0.28	N/A	
5953	30.0	1.18	7.2	0.28	3.5	0.14	11.4	0.45	7.1	0.28	N/A	
904G1	30.0	1.18	7.2	0.28	3.5	0.14	11.4	0.45	7.1	0.28	N/A	
903G1	30.0	1.18	7.2	0.28	5.6	0.22	11.4	0.45	7.1	0.28	N/A	
265G1	31.8	1.25	9.1	0.36	9.1	0.36	22.9	0.90	8.1	0.32	N/A	
265G2	31.8	1.25	7.4	0.29	6.9	0.27	22.9	0.90	8.1	0.32	N/A	
265G3	31.0	1.22	9.1	0.36	9.1	0.36	22.9	0.90	8.1	0.32	N/A	
265G4	31.0	1.22	7.4	0.29	6.9	0.27	22.9	0.90	8.1	0.32	N/A	
265G5	31.8	1.25	9.1	0.36	9.1	0.36	22.9	0.90	8.1	0.32	N/A	
265G6	31.8	1.25	7.4	0.29	6.9	0.27	22.9	0.90	8.1	0.32	N/A	
265G7	31.0	1.22	9.1	0.36	9.1	0.36	22.9	0.90	8.1	0.32	N/A	
265G8	31.0	1.22	7.4	0.29	6.9	0.27	22.9	0.90	8.1	0.32	N/A	
75BBS	69.0	2.70	17.1	0.68	6.9	0.27	#10-24 thd.		1.0	0.04	2.0	0.08



Mounting Clamps

Part Number	-A- mm	-A- in.	-B- mm	-B- in.	-C- mm	-C- in.	-D- mm	-D- in.	-E- mm	-E- in.	Number of Poles
1463G1	41.1	1.62	34.7	1.37	27.1	1.07	31.8	1.25	4.0	0.16	(2 Pole)
1463G1	41.1	1.62	50.7	2.00	43.1	1.70	31.8	1.25	4.0	0.16	(4 Pole)
1463G2	57.2	2.25	34.7	1.37	27.1	1.07	47.6	1.88	4.0	0.16	(3 Pole)
1463G2	57.2	2.25	50.7	2.00	43.1	1.70	47.6	1.88	4.0	0.16	(6 Pole)



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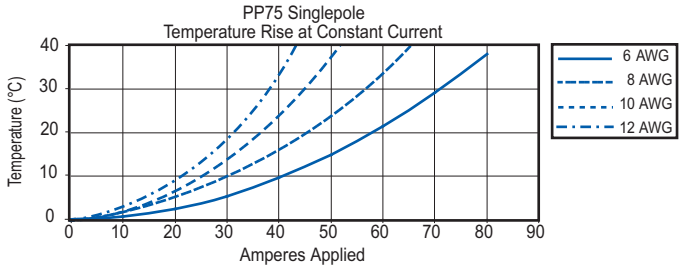
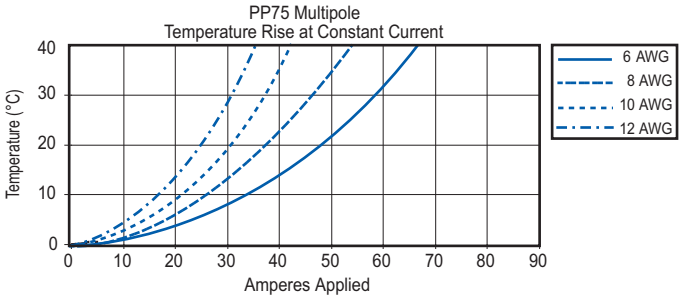
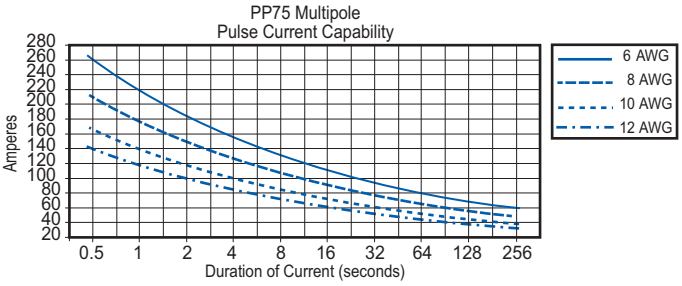
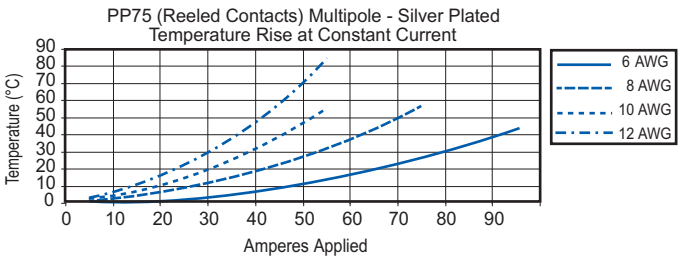
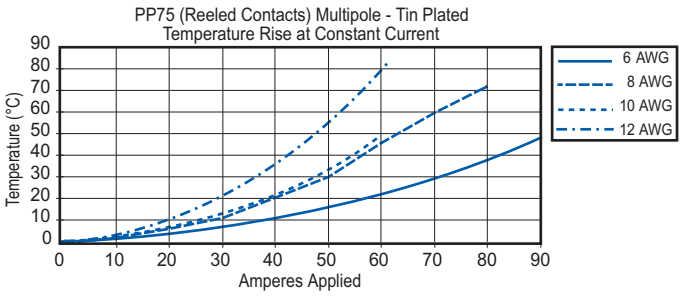
TEMPERATURE RISE CHARTS











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PP75 Locking Powerpole®
Connector

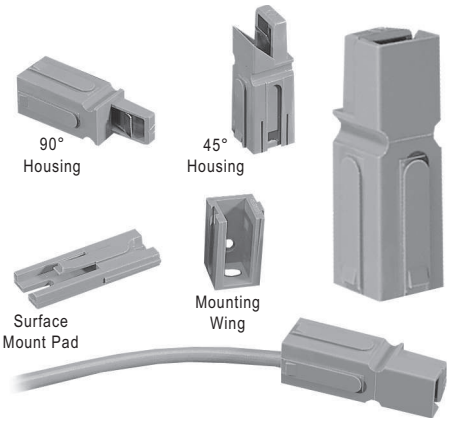
In addition to all the unique features of our standard PP75 Powerpoles®, we offer a "Locking" version. The locking clips insure that the connector dovetails are attached securely without roll pins, which are required to secure other Powerpole® assemblies. Like our standard Powerpole® housing, the locking PP75 also offers a 600 Volts continuous, AC or DC operation. Wire sizes range from #6 to #16 AWG (13.3 to 1.3 mm²). The locking PP75 utilizes the same contacts and crimp tooling as our standard PP75 housing.

FEATURES

• Locking dovetail design
Provides positive mechanical spring latch, creating lockable/unlockable modules

• Horizontal/Vertical mounting wings or surface adaptor
Eliminates retaining pins, allows horizontal, vertical or direct mounting capability

• Molded-in dovetails
Securely locks modules into multipole configurations



PRODUCT SPECIFICATIONS

Connector Model	PP75
UL Current Rating (Amperes)*	75****
UL Voltage Ratings (Volts)**	600*
Contact Barrel Wire Size (AWG)	#6 to #16
(mm)	13.3 to 1.3
Maximum Wire Insulation Diameter (inches)	0.437
(mm)	11.10
AVG Contact Resistance* (micro-ohms)	200
Insulation Withstanding Test Voltage (Volts AC/DC)	2200
Contact Retention Force (lbf)	50

Connector Model	PP75
Life	
a. No load (Contact/Disconnect Cycles)	To 10,000
b. Under Load (Hot Plug 250 cycles @ 120V)	50A
Avg. Connection/Disconnect (lbf)	5 - low detent 7 - high detent
Operating Temperature Range °C***	-20° to 105°
°F	-4° to 221°
Flammability Rating of Housing Material	UL94 V-0

RoHS COMPLIANT APP

** UL Rated for 65°C largest wire or cable size*
*** Both AC & DC Voltage*
**** Contact factory for higher temperature rated connectors*
***** For 75°C rated wire or cable size*

ORDERING INFORMATION

Housing Only

Part Number	Description
75LOKBLU	Blue housing
75LOKGRA	Gray housing
75LOKBLK	Black housing
75LOKGRN	Green housing
75LOKYEL	Yellow housing
75LOKWHT	White housing
75LOK45BLU	45° locking housing
75LOK90BLU	90° locking housing

75 amp Contacts***

Part Number	Description	Wire AWG	Wire sq. mm
1307	Individual - LD	#6	13.3
5900	Individual - HD	#6	13.3
5914	Individual - HD	#10	5.3

contacts continued

Part Number	Description	Wire AWG	Wire sq. mm
5915	Individual - HD	#10/12	5.3/3.3
5952	Individual - HD	#8	8.4
5953	Individual - LD	#10/12	5.3/3.3
904G1	Set of (2) 5915 Contacts	#10/12	5.3/3.3
903G1	Set of (2) 5900 Contacts	#6	13.3
265G1	Reel, silver - HD	#6/8	13.3/8.4
265G2*	Reel, silver - HD	#10/12	5.3/3.3
265G3	Reel, silver - LD	#6/8	13.3/8.4
265G4*	Reel, silver - LD	#10/12	5.3/3.3
265G5	Reel, tin - HD	#6/8	13.3/8.4
265G6**	Reel, tin - HD	#10/12	5.3/3.3
265G7	Reel, tin - LD	#6/8	13.3/8.4
265G8**	Reel, tin - LD	#10/12	5.3/3.3
75BBS	75 amp bus bar contact	N/A	N/A

** Using 10/12 AWG wire reduces rating to 50 amps*
*** Using 10/12 AWG wire reduces rating to 40 amps*
**** LD - low detent or HD - high detent*
Note: For additional colors please contact customer service

Accessories

Part Number	Description
1463G1	2 & 4 pole mounting clamp set
1463G2	3 & 6 pole mounting clamp set
75 LOKSMTBLU	Surface mounting pad
75LOKWNGBLU	Mounting wing (oval hole)
75LOKWNGBLU-R	Mounting wing (round hole)
110G57	Lock nut for use with bus bar contact

Bushings

Part Number	Wire AWG	Wire sq. mm
Use with 5900 or 1307		
5910	#6 to #10/12	13.3 to 5.3/3.3
5912	#6 to #8	13.3 to 8.4
5913	#6 to #14/16	13.3 to 2.1/1.3

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PP75 Locking Powerpole® Connector

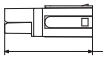
ORDERING INFORMATION

Tooling

Part Number	Description
1309G4	Hand tool, #16 to #6
1387G1	Pneumatic tool, #16 to #6
1388G6	- die for #16 to #6 AWG
1388G7	- die for #10 to #12 AWG (5914, 5915 & 5953 contacts)
1389G6	- locator for #16 to #6 AWG
1389G7	- locator for #10 to #12 AWG (5914, 5915 & 5953 contacts)
260G16	Applicator only (110V & 220V)
284G1	Applicator & Press (220V, 50Hz)
250G5	Press only (110V, 60Hz)

DIMENSIONS

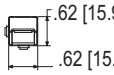
Housings



Locking Housing-Side View

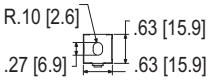
45° Locking Housing-Side View*

90° Locking Housing-Side View*

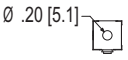


Front View For Locking 45° & 90°

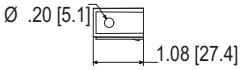
Mounting Wings



Oval Hole - Mounting Wing Top



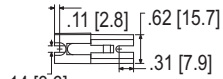
Round Hole - Mounting Wing Top



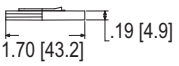
Right Side View - Both Versions

Left Side View - Both Versions

Surface Mount Pad



Mounting Pad-Top View

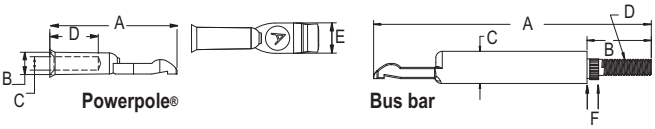


Mounting Pad-Side View

For disconnect use only

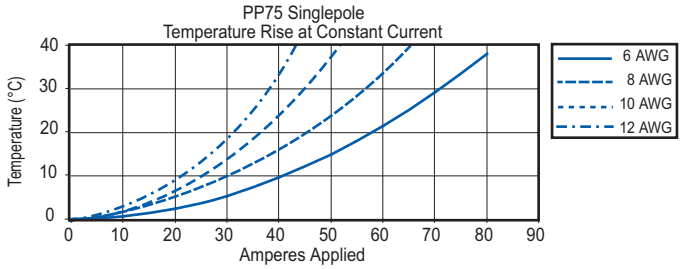
Contacts

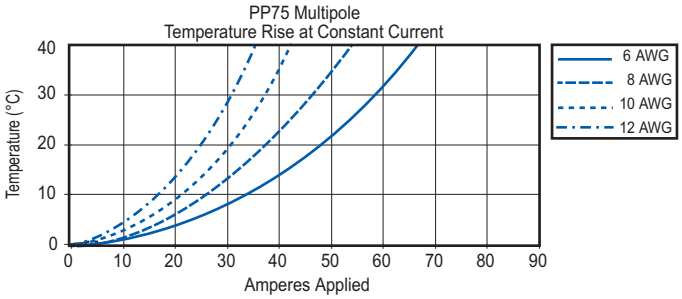
Part Number	-A- mm	-A- in.	-B- mm	-B- in.	-C- mm	-C- in.	-D- mm	-D- in.	-E- mm	-E- in.	-F- mm	-F- in.
1307	30.0	1.18	7.2	0.28	5.6	0.22	11.4	0.45	7.1	0.28	N/A	
5900	30.0	1.18	7.2	0.28	5.6	0.22	11.4	0.45	7.1	0.28	N/A	
5914	29.7	1.17	4.8	0.19	3.5	0.14	11.4	0.45	7.1	0.28	N/A	
5915	30.0	1.18	7.2	0.28	3.5	0.14	11.4	0.45	7.1	0.28	N/A	
5952	30.0	1.18	7.2	0.28	4.7	0.19	11.4	0.45	7.1	0.28	N/A	
5953	30.0	1.18	7.2	0.28	3.5	0.14	11.4	0.45	7.1	0.28	N/A	
904G1	30.0	1.18	7.2	0.28	3.5	0.14	11.4	0.45	7.1	0.28	N/A	
903G1	30.0	1.18	7.2	0.28	5.6	0.22	11.4	0.45	7.1	0.28	N/A	
265G1	31.8	1.25	9.1	0.36	9.1	0.36	22.9	0.90	8.1	0.32	N/A	
265G2	31.8	1.25	7.4	0.29	6.9	0.27	22.9	0.90	8.1	0.32	N/A	
265G3	31.0	1.22	9.1	0.36	9.1	0.36	22.9	0.90	8.1	0.32	N/A	
265G4	31.0	1.22	7.4	0.29	6.9	0.27	22.9	0.90	8.1	0.32	N/A	
265G5	31.8	1.25	9.1	0.36	9.1	0.36	22.9	0.90	8.1	0.32	N/A	
265G6	31.8	1.25	7.4	0.29	6.9	0.27	22.9	0.90	8.1	0.32	N/A	
265G7	31.0	1.22	9.1	0.36	9.1	0.36	22.9	0.90	8.1	0.32	N/A	
265G8	31.0	1.22	7.4	0.29	6.9	0.27	22.9	0.90	8.1	0.32	N/A	
75BBS	69.0	2.70	17.1	0.68	6.9	0.27	#10-24 thd.		1.0	0.04	2.0	0.08

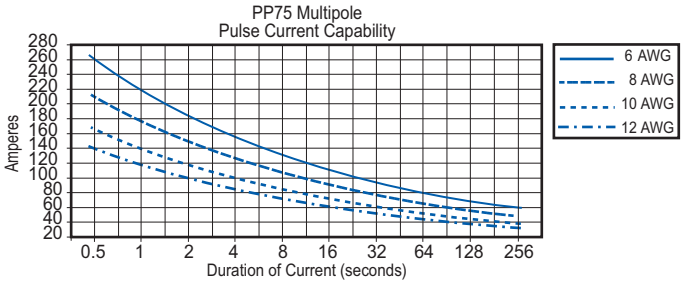


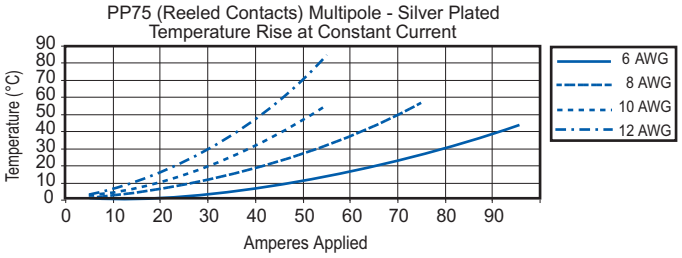
See Bus Bar layout and mounting table on page 47

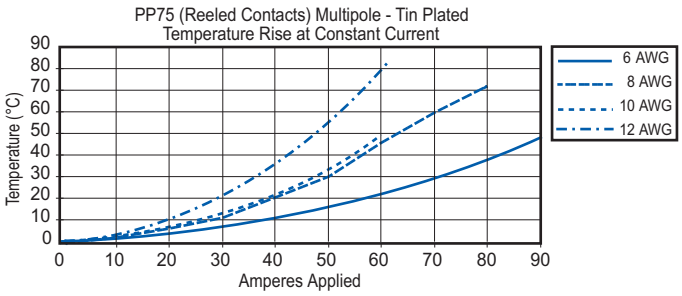
TEMPERATURE RISE CHARTS











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PP120 Powerpole® Connector

Powerpole® connectors provide cost-effective reliability, design flexibility and safety for your products' manufacture, installation and maintenance. Powerpoles are stackable and color-coded for easy customization into multipole blocks.

The housings are modular and genderless. Powerpole® connectors provide 600 Volts continuous AC or DC operation. Wire sizes range from #2 to #8 AWG (33.6 to 8.4 mm²).

FEATURES

• Flat wiping contact system
Minimal contact resistance at high current, wiping action cleans contact surface during connection/disconnection

• Colored modular housings
Provides visual identification of proper mating connector

• Molded-in dovetails
Secures individual connectors into "keyed" assemblies which prevents misconnection with similar configurations

PRODUCT SPECIFICATIONS

Connector Model	PP120
UL Current Rating (Amperes)*	120*
UL Voltage Ratings (Volts)**	600*
Contact Barrel Wire Size (AWG)	#2 to #8
(mm²)	33.6 to 8.4
Maximum Wire Insulation Diameter (inches)	0.600
(mm)	15.24
AVG Contact Resistance* (micro-ohms)	136
Insulation Withstanding Test Voltage (Volts AC/DC)	2200
Contact Retention Force (lbf)	100

Connector Model	PP120
Life	
a. No load (Contact/Disconnect Cycles)	To 10,000
b. Under Load (Hot Plug 250 cycles @ 120V)	60A
Avg. Connection/Disconnect (lbf)	8
Operating Temperature Range °C***	-20° to 105°
°F	-4° to 221°
Flammability Rating of Housing Material	UL94 V-0

RoHS COMPLIANT APP

** UL Rated for 65°C largest wire or cable size*
*** Both AC & DC Voltage*
**** Contact factory for higher temperature rated connectors*

ORDERING INFORMATION

Housing & 120 amp Contact

Part Number	Housing Color	Wire AWG	Wire sq. mm
1320	Blue	#2	33.6
1320G1	Black	#2	33.6
1320G2	White	#2	33.6
1320G3	Red	#2	33.6
1320G4	Green	#2	33.6

120 amp Contacts

Part Number	Description	Wire AWG	Wire sq. mm
1319	Individual	#2	33.6
1319G4	Individual	#4	21.2
1319G6	Individual	#6	13.3

Housings Only

Part Number	Description
1321	Blue housing
1321G1	Black housing
1321G2	White housing
1321G3	Red housing
1321G4	Green housing

Bushings

Part Number	Description	Wire AWG	Wire sq. mm
5919	Use with 1319	#2 to #4	33.6/21.2
5920	Use with 1319	#2 to #6	33.6/13.3
5921	Use with 1319	#2 to #8	33.6/8.4

Accessories

Part Number	Description
110G20	Retaining Pins, 2 high block of connectors
110G19	Retaining Pins, 1 high block of connectors

Tooling

Part Number	Description
1368	Hydraulic tool, #2 to #8
1387G1	Pneumatic tool, #2 to #8
1388G4	- die for #2 to #8
1389G4	- locator #2 to #8

Note: For additional colors please contact customer service

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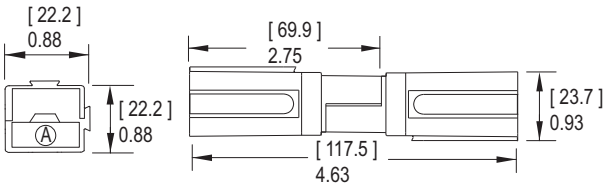
PP120 Powerpole® Connector

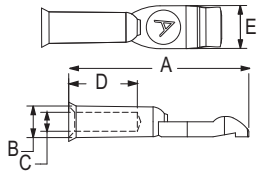
DIMENSIONS

Housing



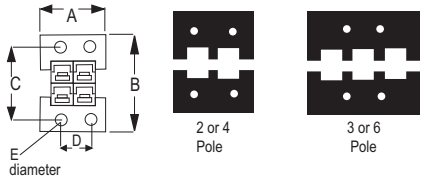
Contact

Part Number	-A- mm	-A- in.	-B- mm	-B- in.	-C- mm	-C- in.	-D- mm	-D- in.	-E- mm	-E- in.
1319	50.8	2.00	11.1	0.44	8.7	0.34	21.6	0.85	10.4	0.41
1319G4	50.8	2.00	11.1	0.44	7.5	0.30	21.6	0.85	10.4	0.41
1319G6	50.8	2.00	11.1	0.44	5.6	0.22	21.6	0.85	10.4	0.41



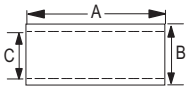
Mounting Clamps

Part Number	-A- mm	-A- in.	-B- mm	-B- in.	-C- mm	-C- in.	-D- mm	-D- in.	-E- mm	-E- in.	Number of Poles
1464G1	60.5	2.38	47.7	1.88	38.1	1.50	44.5	1.75	4.0	0.16	(2 Pole)
1464G1	60.5	2.38	70.0	2.75	60.3	2.37	44.5	1.75	4.0	0.16	(4 Pole)
1464G2	82.6	3.25	47.7	1.88	38.1	1.50	66.7	2.63	4.0	0.16	(3 Pole)
1464G2	82.6	3.25	70.0	2.75	60.3	2.37	66.7	2.63	4.0	0.16	(6 Pole)

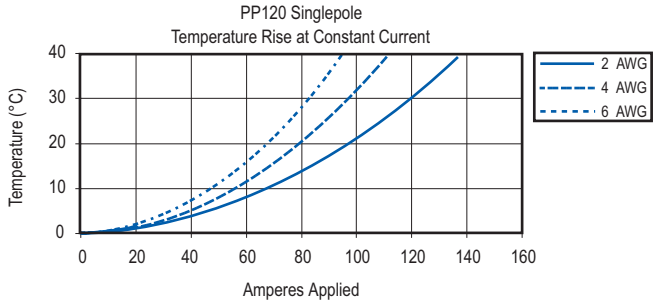


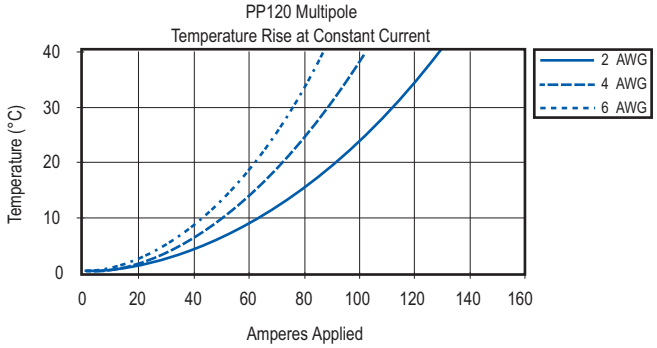
Bushings - (for use with 1319 contacts)

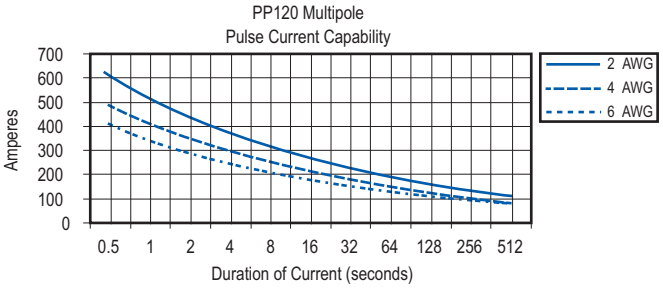
Part Number	Reduces From	-A- mm	-A- in.	-B- mm	-B- in.	-C- mm	-C- in.
5919	#2 to #4 AWG	21.4	.84	8.4	.33	7.2	.29
5920	#2 to #6 AWG	21.4	.84	8.4	.33	5.8	.23
5921	#2 to #8 AWG	21.4	.84	8.4	.33	4.6	.18



TEMPERATURE RISE CHARTS







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www.andersonpower.com

PP180 Powerpole® Connector

Powerpole® connectors provide cost-effective reliability, design flexibility and safety for your products' manufacture, installation and maintenance. Powerpoles are stackable and color-coded for easy customization into multipole blocks.

The housings are modular and genderless. Powerpole® connectors provide 600 Volts continuous, AC or DC operation. Wire sizes range from #1/0 to #10 AWG (53.5 to 5.3 mm²).

FEATURES

• Flat wiping contact system
Minimal contact resistance at high current, wiping action cleans contact surface during connection/disconnection

• Colored modular housings
Provides visual identification of proper mating connector

• Molded-in dovetails
Secures individual connectors into "keyed" assemblies which prevents misconnection with similar configurations

PRODUCT SPECIFICATIONS

Connector Model	PP180	Connector Model	PP180
UL Current Rating (Amperes)*	180*	Life	
		a. No load (Contact/Disconnect Cycles)	To 10,000
UL Voltage Ratings (Volts)**	600*	b. Under Load (Hot Plug 250 cycles @ 120V)	75A
Contact Barrel Wire Size (AWG)	1/0 to #10	Avg. Connection/Disconnect (lbf)	20
(mm²)	53.5 to 5.3		
		Operating Temperature Range °C***	-20° to 105°
Maximum Wire Insulation Diameter (inches)	0.900	°F	-4° to 221°
(mm)	22.86		
		Flammability Rating of Housing Material	UL94 V-0
AVG Contact Resistance* (micro-ohms)	100		
Insulation Withstanding Test Voltage (Volts AC/DC)	2200	RoHS COMPLIANT APP	
Contact Retention Force (lbf)	170		

** UL Rated for 65°C largest wire or cable size*
*** Both AC & DC Voltage*
**** Contact factory for higher temperature rated connectors*

ORDERING INFORMATION

Housing & 180 amp Contact

Part Number	Housing Color	Wire AWG	Wire sq. mm
1380	Blue	1/0	53.5
1380G1	Black	1/0	53.5
1380G2	White	1/0	53.5
1380G3	Red	1/0	53.5
1380G4	Green	1/0	53.5

180 amp Contacts

Part Number	Description	Wire AWG	Wire sq. mm
1347	Individual	#1	42.4
1348*	Individual	#6	13.3
1382	Individual	1/0	53.5
1383	Individual	#2	33.6
1384	Individual	#4	21.2
180BBS	Bus bar contact	NA	NA

** thin wall contact*

Housings Only

Part Number	Description
1381	Blue housing
1381G1	Black housing
1381G2	White housing
1381G3	Red housing
1381G4	Green housing

Bushings

Part Number	Description	Wire AWG	Wire sq. mm
5648	Use with 1382	1/0 to #10	53.5/5.1
5663	Use with 1382	1/0 to #6	53.5/13.3
5687	Use with 1382	1/0 to #1	53.5/42.4
5690	Use with 1382	1/0 to #2	53.5/33.6
5693	Use with 1382	1/0 to #4	53.5/21.2

Accessories

Part Number	Description
110G18	Retaining Pins, 1 high block of connectors
110G20	Retaining Pins, 2 high block of connectors
10G56	Keps nut for use with Bus bar contact
1465G1	2 & 4 pole mounting clamp set
1465G2	3 & 6 pole mounting clamp set

Tooling

Part Number	Description
1368	Hydraulic tool
1387G1	Pneumatic tool, #10 to 1/0
1388G3	- die for #10 to 1/0
1388G5	- die for #4 (1382 contact)
1389G3	- locator for #10 to 1/0
1389G5	- locator for #4 (1382 contact)

Note: For additional colors please contact customer service

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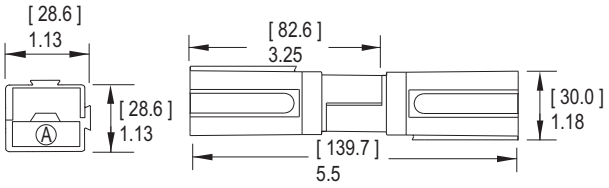
PP180 Powerpole® Connector

DIMENSIONS

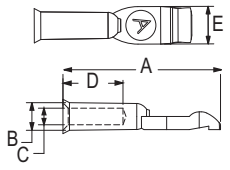
Housing



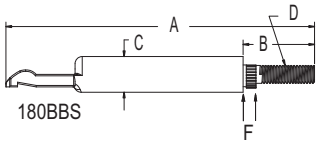
Contacts

Part Number	-A- mm	in.	-B- mm	in.	-C- mm	in.	-D- mm	in.	-E- mm	in.	-F- mm	in.
1347	59.8	2.35	13.0	0.51	9.9	0.39	26.4	1.04	12.7	0.50	N/A	
1348	53.3	2.10	9.3	0.37	5.6	0.22	20.3	0.80	12.7	0.50	N/A	
1382	59.6	2.35	13.1	0.52	11.2	0.44	27.2	1.07	12.7	0.50	N/A	
1383	59.7	2.35	13.2	0.52	N/A		N/A		12.7	0.50	N/A	
1384	59.7	2.35	13.0	0.51	7.5	0.30	26.4	1.04	12.7	0.50	N/A	
180BBS	109.7	4.3	25.4	1.0	2.7	0.50	N/A	¼-20	N/A		4.6	0.18

Powerpole®

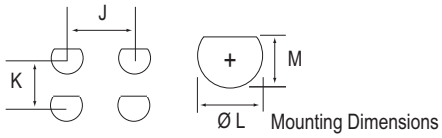


Bus bar



Bus Bar Layout

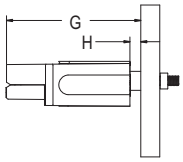
Part Number	- J - mm	in.	- K - mm	in.	- L - mm	in.	- M - mm	in.
180BBS	26.8	1.05	26.8(min)	1.05(min)	9.53	0.375	3.43	0.135



Mounting Dimensions

Bus bar Mounting Table

Series	-G- mm	in.	-H- mm	in.
PP180	89.8	3.5 ref	3.9	0.2 ref



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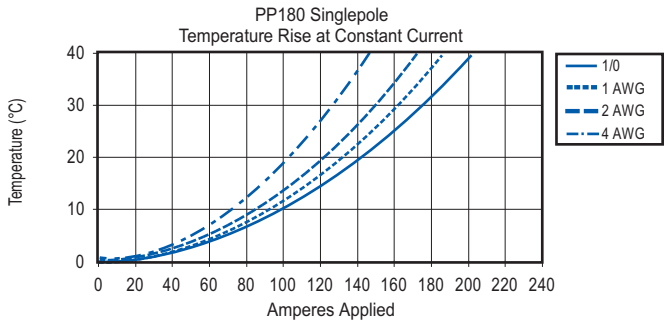
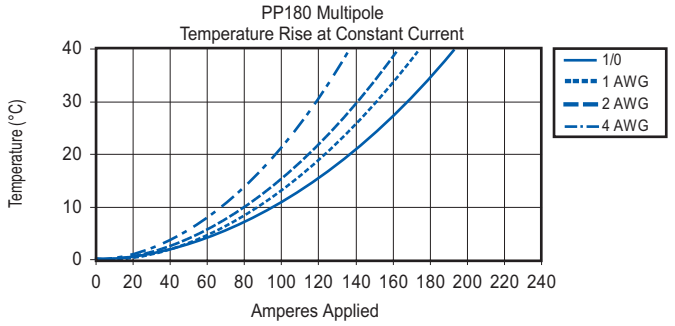
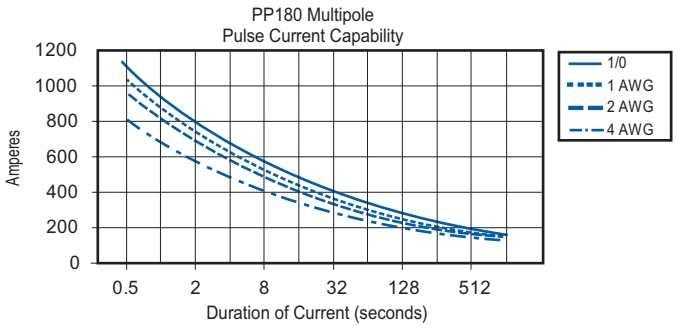
All Data Subject To Change Without Notice

TEMPERATURE RISE CHARTS







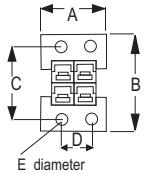
Mounting Clamps

Part Number	-A- mm	in.	-B- mm	in.	-C- mm	in.	-D- mm	in.
1465G1	71.4	2.81	55.7	2.19	43.0	1.69	28.6	1.13
1465G1	71.4	2.81	84.4	3.32	71.7	2.82	28.6	1.13
1465G2	100.8	3.97	55.7	2.19	43.0	1.69	57.2	2.25
1465G2	100.8	3.97	84.4	3.32	71.7	2.82	57.2	2.25

Part Number	-E- mm	in.	Number of Poles
1465G1	4.8	0.19	(2 Pole)
1465G1	4.8	0.19	(4 Pole)
1465G2	4.8	0.19	(3 Pole)
1465G2	4.8	0.19	(6 Pole)

2 or 4 Pole

3 or 6 Pole



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Connector Notes

For customer drawings, assembly instructions and individual data sheets, please visit www.andersonpower.com.

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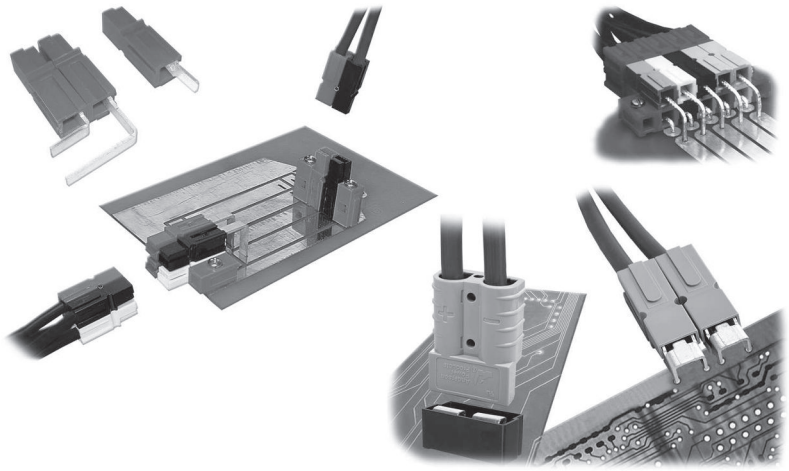
FEATURES

- **Vertical and right angle terminations**
  Allows for design flexibility
- **Tin plated copper contacts**
  Minimal contact resistance at high currents
- **Fits standard housing & accessories**
  Allows for configurations that can be color coded & polarized
- **Two right angle stacking bends**
  Allows two rows parallel stacking of connectors on the PCB
- **Quick disconnect**
  Avoids the need for unfastening ring type terminals
- **Snap-On interface**
  Ensures foolproof assembly and proper connection
- **Vertical mini-powerclaw UL rated**
  For current interruption (hot-plug) so that equipment can be hot swapped
- **Anti-static packaging**
  Meets electronics industry PCB requirements
- **Vacuum packaging**
  Prevents tarnishing of contacts during shelf life



PRODUCT RANGE

UL Current Rating (Amperes)*	25 to 55
UL Voltage Ratings (Volts)	600
Housing Material	Polycarbonate
Contact Material	Copper Alloy
Contact Plating	Tin or Silver
Mating/Unmating Forces	2 to15 lbf.
Suggested Board Thickness	0.093 to 0.150" max.
Operating Temperature Range °C**	-20° to 105°
°F	-4° to 221°
Flammability Rating of Housing Material	UL94 V-0

RoHS COMPLIANT APP

* *See Temperature Rise Chart*
** *Contact factory for higher temperature rated connectors*

PRODUCT INFORMATION

The printed circuit board (PCB) contact series, when utilized with the Powerpole® 15/45, PP75 and SB®50 connector housings, provides a reliable wire to printed circuit board connection. It's rated at 25 to 55 amps, 600 volts, AC/DC. This contact is available in both straight (vertical) and right angle (horizontal) terminations for perpendicular and parallel mounting.

The innovative design of our PCB family of connectors for the power electronics market makes connecting and disconnecting a snap, enabling safe and convenient "hot swapping*" during equipment maintenance without the need to power down. Compact and robust, they're rated at 55 amps for singlepole and 50 amps for blocked connections.

Our mini horizontal and vertical PCB contacts offer the same high current capacity as our original, while providing the design engineer more options when board real estate is at a minimum.

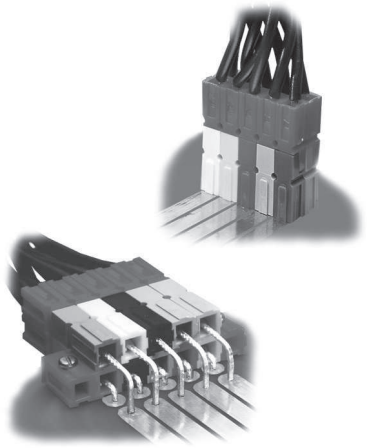
** Contact factory for ratings*

25 amp PCB Powerpole®
Contacts

Anderson Power Products® printed circuit board (PCB) contact series, when utilized with the Powerpole® 15/45 connector housings, provides a reliable wire to printed circuit board connection. They are rated at 25 amps, 600 volts, AC/DC. This contact is available in both straight and right angle terminations for perpendicular and parallel mounting and is ideal for all applications that require high current connections to the PCB.

FEATURES

- **Straight & right angle terminals**
  Flexibility of parallel or perpendicular mounting to the PCB
- **Tin plated copper contacts**
  Minimal contact resistance at high currents
- **Fits standard housing & accessories**
  Allows for configurations that can be color coded & polarized
- **Two level right angle contacts**
  Duel level right angle powerpole assemblies provide high power density



PRODUCT SPECIFICATIONS

Connector Model	25A PCB	PCB traces	See temperature curve or contact the factory
Current rating for a single mated pair	25 amps *	Housing material	Polycarbonate 94 V-0(Max. op. temp. = 105°C / 221°F)
Maximum operating voltage AC/DC	600 volts		Operating temp. = ambient temp. + temp. rise at current
Contact material	Tin plated copper alloy		
PCB hole (inches)	.070 hole		
PCB hole (mm)	1.80		

RoHS COMPLIANT APP

** See Temperature Rise Chart. Based on 0.002 in² copper foil on PCB & 12AWG wire cross-section.*

ORDERING INFORMATION

25 amp Right Angle PCB Contact*

Part Number	Description	Contact Length in.	Contact Length sq. mm
1377G1	Right Angle - LD	0.70	17.8
1377G2	Right Angle - LD	0.40	10.2
1377G11	Right Angle - LD	0.70	17.8
1377G12	Right Angle - LD	0.40	10.2
1377G14	Right Angle - LD	0.18	4.6
1377G15	Right Angle - LD	1.02	25.9
1377G16	Right Angle - LD	0.72	18.3
1377G17	Right Angle - LD	0.88	22.4
1377G18	Right Angle - LD	0.58	14.7
1317G1	Right Angle - HD	0.70	17.8
1317G2	Right Angle - HD	0.40	10.2
1317G11	Right Angle - HD	0.70	17.8
1317G14	Right Angle - HD	0.18	4.6
1317G15	Right Angle - HD	1.02	25.9
1317G16	Right Angle - HD	0.72	18.3
1317G17	Right Angle - HD	0.88	22.4
1317G18	Right Angle - HD	0.58	14.7

25 amp Straight PCB Contact*

Part Number	Description	Contact Length in.	Contact Length sq. mm
1377G3	Straight Terminal - LD	2.16	54.9
1377G4	Straight Terminal - LD	1.7	43.2
1377G13	Straight Terminal - LD	1.11	28.2
1317G3	Straight Terminal - HD	2.16	54.9
1317G4	Straight Terminal - HD	2.16	43.2
1317G13	Straight Terminal - HD	1.11	28.2

Housings Only

Part Number	Description
1327	Red housing
1327G5	Green housing
1327G6	Black housing
1327G7	White housing
1327G8	Blue housing
1327G16	Yellow housing

housings only continued

Part Number	Description
1327G17	Orange housing
1327G18	Gray housing
1327G21	Brown housing
1327G22	Pink housing
1327G23	Purple housing

Accessories

Part Number	Description
1399G9	Red mounting wing
1399G8	Blue mounting wing
1399G1**	Red short spacer with end hole
1399G2**	Red long spacer
1399G6**	Red short spacer without hole
110G68	PP15/45 retention clip
114555P1	Staple 1x1 (H x W)
114555P2	Staple 1x2 (H x W)
114555P3	Staple 1x3 (H x W)
114555P7	Staple 1x4 (H x W)
114555P8	Staple 1x6 (H x W)
114555P5	Staple 2x1 (H x W)
114555P6	Staple 2x2 (H x W)
114555P9	Staple 2x2 - long (H x W)

** LD - low detent or HD - high detent*

*** Contact customer service for additional colors*

Note: For additional colors please contact customer service. For finger proof housings see page 18.

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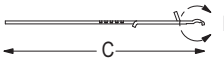
25 amp PCB Powerpole® Contacts

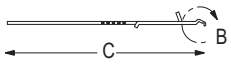
DIMENSIONS

Straight Terminals

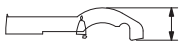
Part Number	-C- mm	-C- in.	-E- mm	-E- in.
1377G3	54.9	2.16	56.4	2.22
1377G4	43.2	1.70	44.7	1.76
1317G3	54.9	2.16	56.4	2.22
1317G4	43.2	2.16	44.7	1.76
1377G13	28.2	1.11	29.7	1.17
1317G13	28.2	1.11	29.7	1.17



Low Detent Contact, Straight Terminal

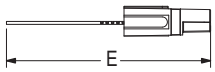


High Detent Contact, Straight Terminal

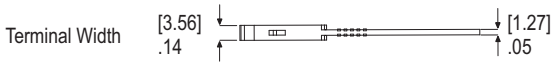


Low Detent Contact, Bent or Straight

High Detent Contact, Bent or Straight

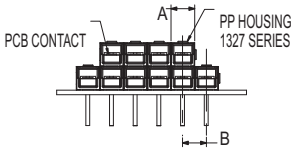


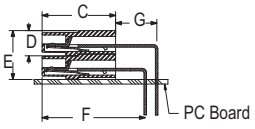
Straight Terminal Inside a Housing



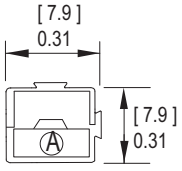
PCB Center Line

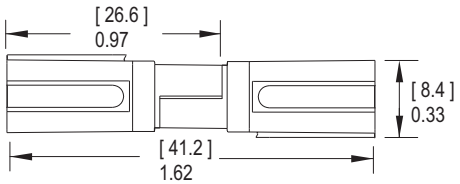
-A- mm	-A- in.	-B- mm	-B- in.	-C- mm	-C- in.	-D- mm	-D- in.	-E- mm	-E- in.	-F- mm	-F- in.	-G- mm	-G- in
7.9	.31	7.9	.31	24.7	.97	8.4	.33	16.3	.64	34.5	1.36	13.7	.54



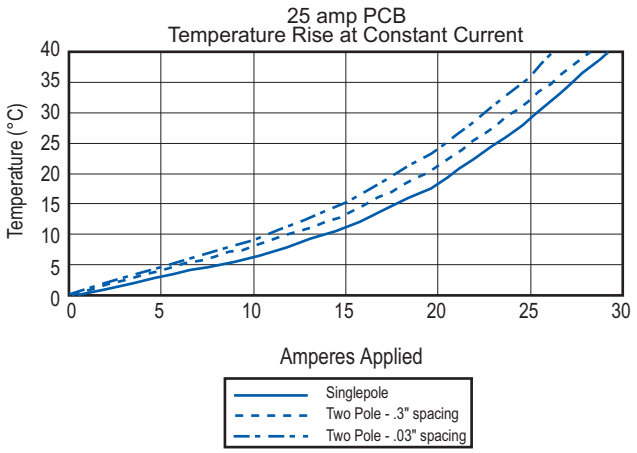


Housing





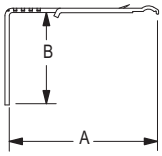
TEMPERATURE RISE CHART



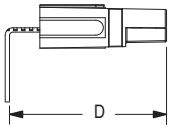
Note: Based on 0.002 in² copper foil on PCB & 12AWG wire cross-section.

Right Angle Contacts

Part Number	-A- mm	-A- in.	-B- mm	-B- in.	-D- mm	-D- in.
1377G1	36.8	1.46	17.8	0.70	38.6	1.52
1377G2	33.0	1.30	10.2	0.40	34.5	1.36
1377G11	29.0	1.14	17.8	0.70	30.7	1.21
1377G12	24.2	0.95	10.2	0.40	25.7	1.01
1377G14	33.0	1.30	4.6	0.18	34.5	1.36
1377G15	29.0	1.14	25.9	1.02	30.7	1.21
1377G16	24.1	0.95	18.3	0.72	25.4	1.00
1377G17	29.0	1.14	22.4	0.88	30.7	1.21
1377G18	25.4	1.00	14.7	0.58	27.2	1.07
1317G1	36.8	1.46	17.8	0.70	38.6	1.52
1317G2	33.0	1.30	10.2	0.40	34.5	1.36
1317G11	29.0	1.14	17.8	0.70	30.7	1.21
1317G14	33.0	1.30	4.6	0.18	34.5	1.36
1317G15	29.0	1.14	25.9	1.02	30.7	1.21
1317G16	24.1	0.95	18.3	0.72	25.4	1.00
1317G17	29.0	1.14	22.4	0.88	30.7	1.21
1317G18	25.4	1.00	14.7	0.58	27.2	1.07



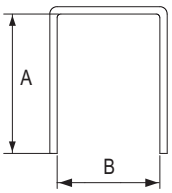
Right Angle Contact
Without a Housing



Right Angle Contact
With a Housing

Staple

Part Number	H x W	- A - mm	- A - in.	- B - mm	- B - in.
114555P1	1x1	12.0	0.472	6.0	0.236
114555P2	1x2	12.0	0.472	13.5	0.531
114555P3	1x3	12.0	0.472	21.5	0.846
114555P7	1x4	12.0	0.472	29.5	1.161
114555P8	1x6	12.0	0.472	45.5	1.791
114555P5	2x1	20.0	0.787	6.0	0.236
114555P6	2x2	20.0	0.787	13.5	0.531
114555P9	2x2 (long)	23.0	0.905	13.5	0.531



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File No. LR25154
File No. E26226
PCB: Patent No. 5,458,510
All Data Subject To Change Without Notice

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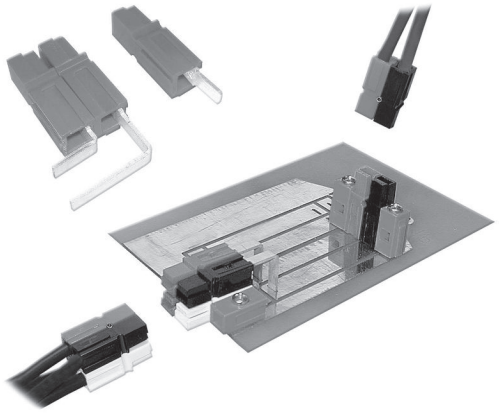
45 amp High Power PCB
Contacts

Anderson Power Products High Current printed circuit board (PCB) contact series, when utilized with the Powerpole® 15/45 connector housings, provides a reliable wire to PCB connection. They are UL Recognized at 45 amps, AC or DC. The connector may be configured in 1 and 2 row configurations, in both vertical and right angle mounted terminations. This connector provides an ideal solution for applications that require high current connections to a PCB.



FEATURES

- **Current rating 45 amps**
  Enables high current connections directly to the PCB
- **Vertical and right angle terminations**
  Allows for design flexibility
- **High durability**
  - Rated up to 1,500 cycles (no load)
  - Under Load (Hot Plug 250 cycles @ 120V)
- **Offered in pre-assembled 1 and 2 row configurations (See Ordering Information)**
  - Reduces assembly costs of housings and contacts
  - Pre-assembled configurations prevent accidental separation of housings
- **Individual housings and contacts also sold separately**
  - Allows for customization of configurations
  - Allows for color coding of housings to wires for ease of manufacturing

PRODUCT SPECIFICATIONS

UL Current Rating For Single Mated Pair	45 amps (for others see rating curves)*	PCB Thickness - in. [mm]	0.093 [2.4] - 0.125 [3.2]
Max Recommended Voltage - (per IEC 60950-1)	150V (pollution degree 3) - 250V (pollution degree 2)	Contact Material	Tin plating copper alloy
Minimum Creepage	2.8mm	Housing Material	Polycarbonate 94 V-0 rated
Voltage Drop For Mated Pair	≤ 2.50 mV		
Connector Mating Force For Mated Pair	2 - 3 Lbf.		
PCB Footprint	See following page		

RoHS COMPLIANT APP

** See Temperature Rise Chart*

ORDERING INFORMATION

High Power Connector

Part Number	Description
PP45PC12S	1x2 vertical mount, short tail, black housing
PP45PC13S	1x3 vertical mount, short tail, black housing
PP45PC12R	1x2 horizontal, single row, right angle tail, black housing
PP45PC13R	1x3 horizontal, single row, right angle tail, black housing
PP45PC21R	2x1 horizontal, dual row, right angle tail, black housing
PP45PC22R	2x2 horizontal, dual row, right angle tail, black housing
PP45PC23R	2x3 horizontal, dual row, right angle tail, black housing

High Power Contact

Part Number	Description
1335G1	Vertical mount, short tail contact
1336G1	Horizontal (Bottom), right angle mount
1337G1	Horizontal (Top), right angle mount

Housings Only

Part Number	Description
1327	Red housing
1327G5	Green housing
1327G6	Black housing
1327G7	White housing
1327G8	Blue housing
1327G16	Yellow housing
1327G17	Orange housing
1327G18	Gray housing
1327G21	Brown housing
1327G22	Pink housing
1327G23	Purple housing

Accessories

Part Number	Description
1399G9	Red mounting wing
1399G8	Blue mounting wing
1399G1	Red short spacer with end hole
1399G2	Red long spacer
1399G6	Red short spacer without hole
110G68	PP15/45 retention clip
114555P1	Staple 1x1 (H x W)
114555P2	Staple 1x2 (H x W)
114555P3	Staple 1x3 (H x W)
114555P7	Staple 1x4 (H x W)
114555P8	Staple 1x6 (H x W)
114555P5	Staple 2x1 (H x W)
114555P6	Staple 2x2 (H x W)
114555P9	Staple 2x2 - long (H x W)

Note: For additional colors please contact customer service. For finger proof housings see page 18.

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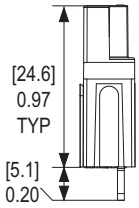
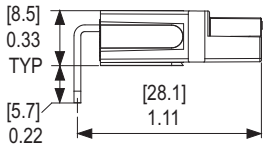
45 amp High Power PCB Contacts

DIMENSIONS

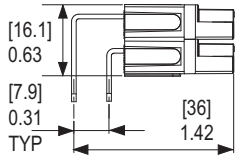
Straight Terminal



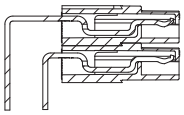
Right Angle Terminal



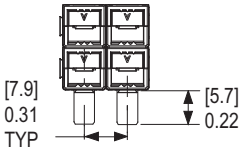
Right Angle Terminal 2 High



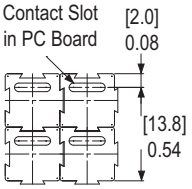
Typical Contact Orientation



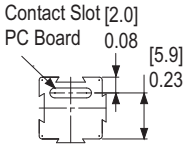
Blocked Housings 2 x 2



Footprint



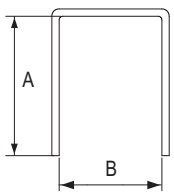
Multipole Vertical Mount Connector Typical Placement



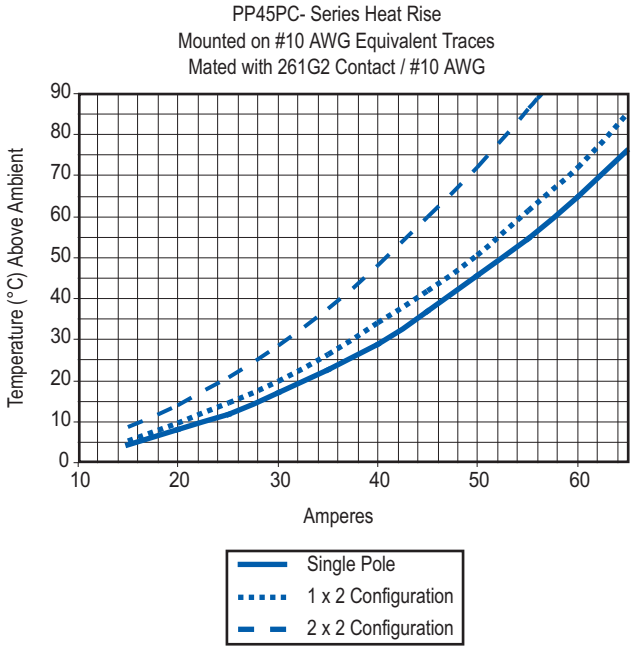
Singlepole Vertical Mount Connector Typical Placement

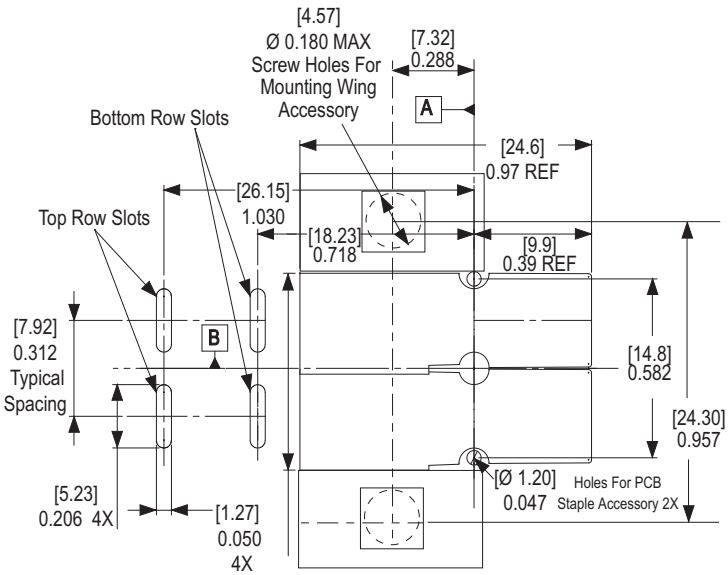
Staple

Part Number	H x W	- A - mm	- A - in.	- B - mm	- B - in.
114555P1	1x1	12.0	0.472	6.0	0.236
114555P2	1x2	12.0	0.472	13.5	0.531
114555P3	1x3	12.0	0.472	21.5	0.846
114555P7	1x4	12.0	0.472	29.5	1.161
114555P8	1x6	12.0	0.472	45.5	1.791
114555P5	2x1	20.0	0.787	6.0	0.236
114555P6	2x2	20.0	0.787	13.5	0.531
114555P9	2x2 (long)	23.0	0.905	13.5	0.531



TEMPERATURE RISE CHART





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55 amp PCB Powerclaw®
Contacts

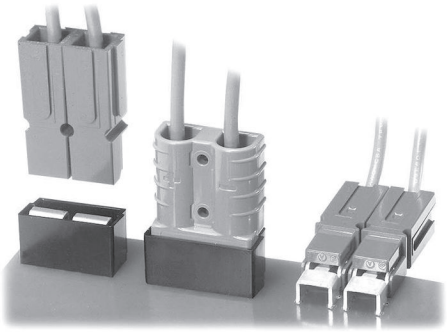
The innovative design of our Powerclaw® family of connectors for the power electronics market makes connecting and disconnecting a snap, enabling safe and convenient "hot swapping*" during equipment maintenance without the need to power down. Compact and robust, they're rated at 55 amps for single pole and 50 amps for multipole connections.

Our mini horizontal and vertical Powerclaw contacts offer the same high current capacity as our original Powerclaws while providing the design engineer more options when board real estate is at a minimum.

** Contact factory for ratings*

FEATURES

- **Quick disconnect**
  Avoids the need for unfastening ring type terminals
- **Snap-On interface**
  Ensures foolproof assembly and proper connection
- **Vertical mini-powerclaw UL rated**
  For current interruption (hot-plug) so that equipment can be hot swapped
- **Anti-static packaging**
  Meets electronics industry PCB requirements
- **Vacuum packaging**
  Prevents tarnishing of contacts during shelf life



PRODUCT SPECIFICATIONS

Product Information	PP Powerclaw	SB® Powerclaw Powerclaw	Locking Mini-Powerclaw	Vertical & Horizontal
Maximum Current* (per Tin Contact)	55 amps	50 amps	55 amps	55 amps
Maximum Voltage (AC or DC)	600 volts	600 volts	600 volts	600 volts
Housing Material	Polycarbonate	Polycarbonate	Polycarbonate	Polycarbonate for vertical guide housings
Contact Material	Copper Alloy	Copper Alloy	Copper Alloy	Copper Alloy
Contact Plating: Tin	100 microinches Sn over 50 microinches Ni	100 microinches Sn over 50 microinches Ni	100 microinches Sn over 50 microinches Ni	100 microinches Sn over 50 microinches Ni
Contact Plating: Silver	100 microinches Ag over 50 microinches Ni	100 microinches Ag over 50 microinches Ni	100 microinches Ag over 50 microinches Ni	100 microinches Ag over 50 microinches Ni
Mating/Unmating Forces	7 lbf. Average (31 Newtons)	15 lbf. Average (66 Newtons)	7 lbf. Average (31 Newtons)	4 lbf. per contact (17 Newtons)
Suggested Board Thickness	.150" max.	.150" max.	.150" max.	.250" max.

** See Temperature Rise Chart*

High Power PCB Contacts	
Test Condition	Specification Tested to and Met:
Mechanical	
Sine Vibration	MIL-STD-1344, Method 2005, Test Condition I.
Mechanical Shock	MIL-STD-1344, Method 2004, Test Condition I.
Mating Force	APP Specification, 7 lbf. average mating force.
Durability	10,000 cycles, APP Specification
Electrical	
Temperature Rise at rated current	UL1977
Dielectric Voltage Withstand	MIL-STD-1344, Method 3001, Type 1.
Contact Resistance	MIL-STD-1344, Method 3004, Type 1

High Power PCB Contacts	
Test Condition	Specification Tested to and Met:
Environmental	
Temperature Cycling	MIL-STD-1344, Method 1003, Test Condition A.
Humidity	MIL-STD-1344, Method 3001, Type 1.
Flammability	
PP-, LP-, SB-series	UL94 V-0

RoHS COMPLIANT APP

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55 amp PCB Powerclaw® Contacts

ORDERING INFORMATION

Standard Powerclaw

Position Definition	PC	XXX	X	XX
	(Powerclaw)	(Color)	(Plating)	(Housing)
		BLK–Black	T–Tin	PP–Powerpole 75
		RED–Red	S–Silver	LP–Locking Powerpole 75
		BLU–Blue		SB–SB50
		WHT–White		
		GRA–Gray		
		GRN–Green		

Example: Blue 75 locking Powerclaw with tin plating (PC-BLU-T-LP)

Note: For additional colors please contact customer service

Individual Contacts and Guide Housings*

Part No.	Description
PC5930S	Std PC horizontal mount contact – Silver (Ag)
PC5930T	Std PC horizontal mount contact – Tin (Sn)
PC5933T	Mini-PC vertical contact – Tin (Sn)
PC5933S	Mini-PC vertical contact – Silver (Ag)
PC5934T	Mini-PC horizontal contact – Tin (Sn)
PC5934S	Mini-PC horizontal contact – Silver (Ag)
PC-HSG-SB	Guide housing for SB50 (Black)
PC-HSG-PP	Guide housing for PP75 (Black)

* For non-ESD bulk packaged product, add –BK to part number when ordering.

Packaging Quantity

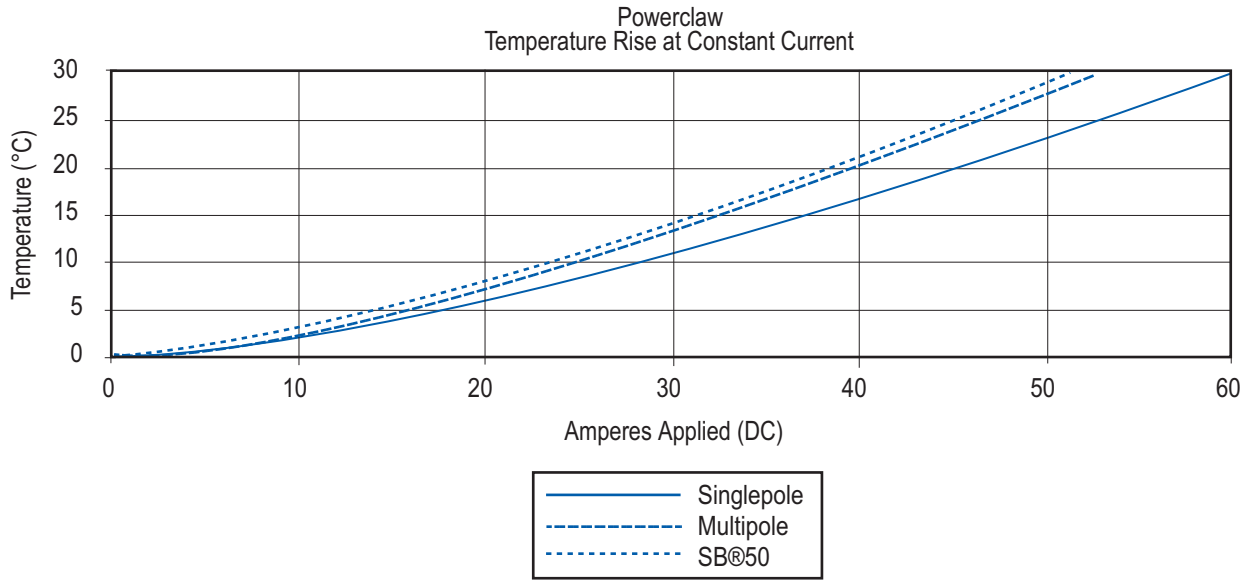
APP's Powerclaw® contacts and connectors are packaged in ESD plastic and foam. This prevents our contacts and connectors from carrying any electrostatic charge that could damage ICs and other sensitive components on a PC board during assembly. The vacuum-sealed package also prevents tarnishing or adverse environmental reactions to occur on the contact. Contacts and housings are also available in bulk quantities, packaged in non-ESD cartons.

Packaging	Quantity
PP Powerclaw	20 per bag
Locking PP Powerclaw	20 per bag
SB Powerclaw	10 per bag
Mini-Powerclaw contacts	20 per bag
Guide Housings	10 per bag or bulk

TEMPERATURE RISE CHART

Temperature Rise at Constant Currents

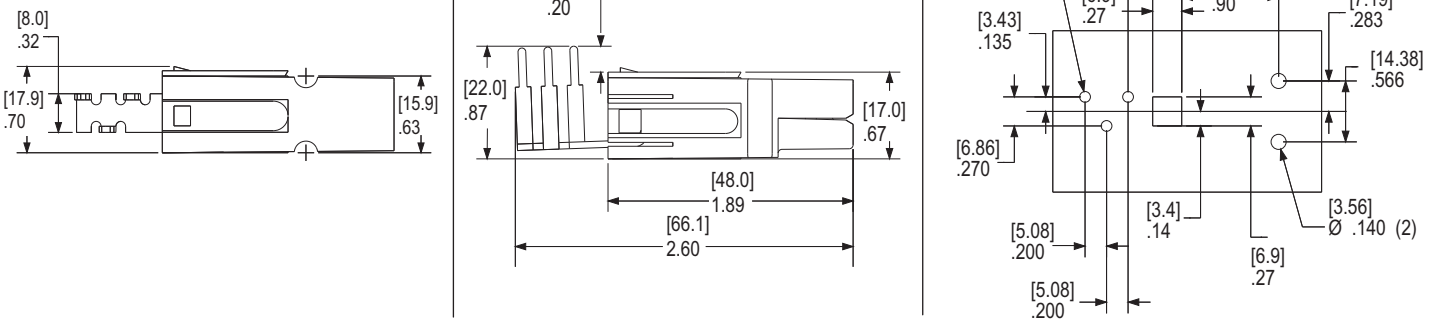
Powerclaw® Tested in Accordance with EIA 364-70, No enclosure, 25+/-5 deg. C. ambient (#8 AWG Foil on Board Side, #6 AWG conductor on wire side, Contact Cat. No. 5900).
Temperature Rise of Contact at exit from Housing Interface (No Air Flow over Test Loop).



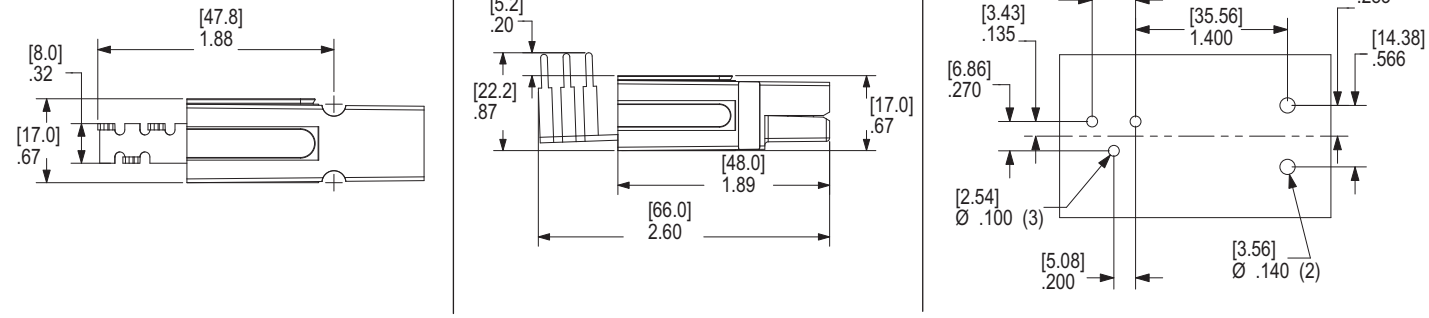
55 amp PCB Powerclaw® Contacts

STANDARD POWERCLAW DIMENSIONS

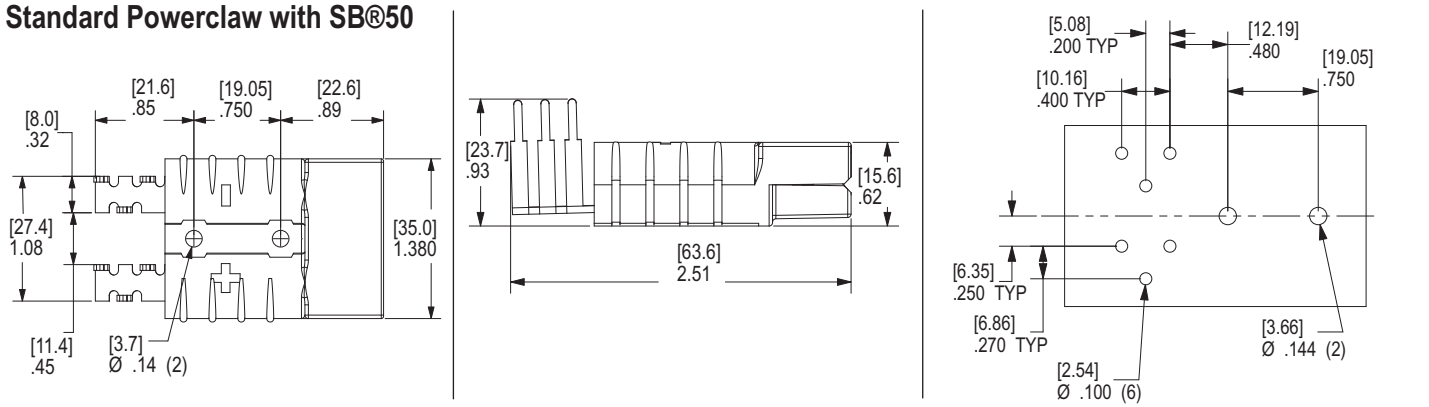
Standard Powerclaw with locking PP75



Standard Powerclaw with PP75

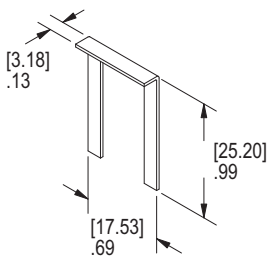


Standard Powerclaw with SB®50



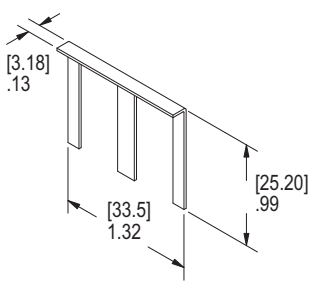
Staple for single powerpole

Part Number: PCSTAPLE-1



Staple for double powerpole

Part Number: PCSTAPLE-2



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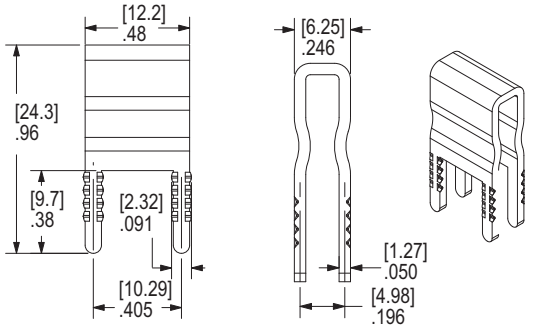
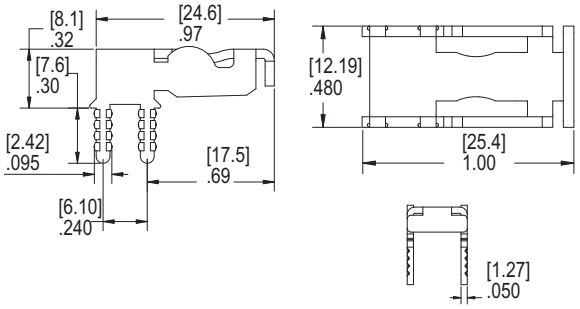
MINI-POWERCLAW DIMENSIONS

Vertical Powerclaw

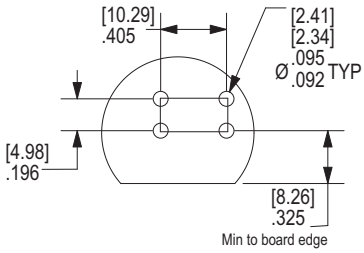


Horizontal Powerclaw

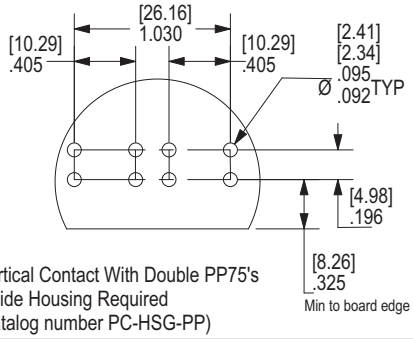


Vertical PCB Placement - Hole Configuration

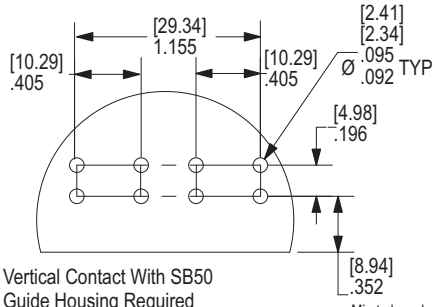
(with or without housing)



Vertical Contact With Single PP75
Guide Housing NOT Required

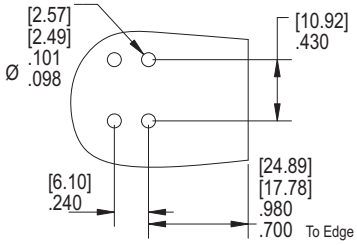


Vertical Contact With Double PP75's
Guide Housing Required
(catalog number PC-HSG-PP)

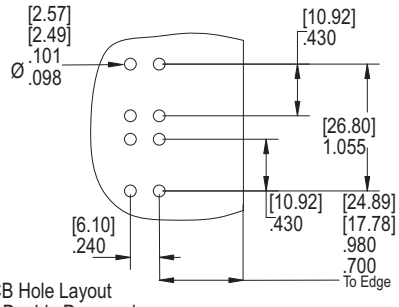


Vertical Contact With SB50
Guide Housing Required
(catalog number PC-HSG-SB)

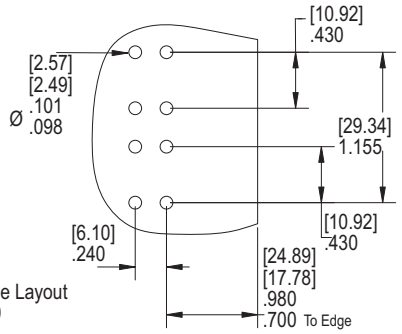
Horizontal PCB Placement - Hole Configuration



PCB Hole Layout
for Singlepole Powerpole



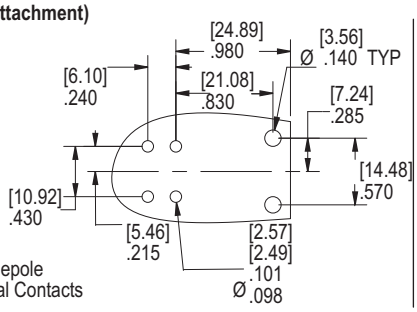
PCB Hole Layout
for Double Powerpole



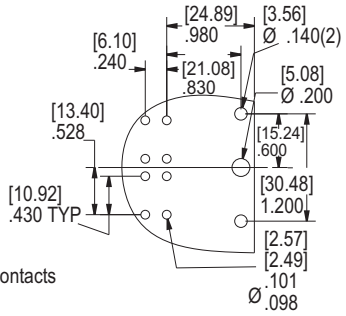
PCB Hole Layout
for SB50

Mated Horizontal Contacts

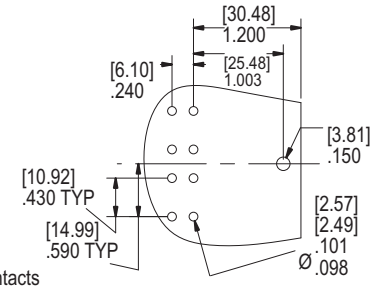
(board attachment)



For Singlepole
Horizontal Contacts



For Double
Horizontal Contacts



For SB50
Horizontal Contacts

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c UL us File No. E26226

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Anderson Power Products

Connector Notes

For customer drawings, assembly instructions and individual data sheets, please visit www.andersonpower.com.

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FEATURES

• Secondary latching - variety of sizes
Provides security in applications where shock and/or vibration may be severe

• Variety of contacts
Enables flexibility in wiring sizes Allows customization

• Order as individual components
Allows custom configurations

• Order blindmate power pak preassembled
Streamline manufacturing process

• Chamfered housing
Allows units to self-align during Blindmate (Rack & Panel applications)

• Flat wiping contact system
Allows for minimal contact resistance at high current, wiping action cleans contact surface during connection/disconnection

• Optional silver plated contacts
Offers greatest longevity when using high power, elevated temperature applications

• Optional 10 or 30 amp ground contacts
First mate/last break ground terminals help provide system safety

• UL94 V-0 housing material
Provides security in knowledge that the connector chosen meets strict UL flammability ratings

PRODUCT RANGE

UL Current Rating (Amperes)*	10* to 45*
UL Voltage Ratings (Volts)**	600*
Contact Barrel Wire Size (AWG)	#10 to #20
(mm^2)	4.0 to 0.5
Maximum Wire Insulation Diameter (inches)	0.137 to 0.175
(mm)	3.48 to 4.45
AVG Contact Resistance* (micro-ohms)	2200 to 525
Insulation Withstanding Test Voltage (Volts AC/DC)	2200
Contact Retention Force (lbf)	25 to 35
Avg. Connection/Disconnect (lbf)	5 to 3
Operating Temperature Range °C***	-20° to 105°
°F	-4° to 221°
Flammability Rating of Housing Material	UL94 V-0

RoHS COMPLIANT APP

** UL Rated for 65°C largest wire or cable size*
*** Both AC & DC Voltage*
**** Contact factory for higher temperature rated connectors*

PRODUCT INFORMATION

Invented by Anderson Power Products®, the innovative Power Pak connectors provide cost-effective reliability, design flexibility and safety for your products' manufacture, installation and maintenance.

The Powerpole® Paks series provide a high impact and corrosion-resistant black thermoplastic outer shells that contain our dovetail 10, 15, 30 and 45 amp Powerpole® connectors. They allow easy connection and disconnection of electrical equipment in commercial and industrial applications. Cable clamps provide strain relief and integral latches prevent accidental disconnection of your equipment. The three housings – Plug With Latch, Plug Without Latch, and Snap-In Receptacle – accommodate 2, 3, 4, 6, 8 and 10 circuits for orderly cable management systems and "clean looking" appearances.

The Blindmate Power Pak series, which has been developed in response to the unique power requirements in the Communications and Uninterruptible Power Supply (UPS) markets. This series offers a high impact and corrosion-resistant black thermoplastic outer shells, that houses our dovetail 10, 15, 25 amp(PCB contacts), 30 and 45 amp Powerpole® connectors.

Powerpole® Pak Connector

Powerpole® Paks are high impact and corrosion-resistant black thermoplastic outer shells for containing our 10 to 45 amp Powerpole® connectors. They allow easy connection and disconnection of electrical equipment in commercial and industrial applications. Cable clamps provide strain relief and integral latches prevent accidental disconnection of your equipment. The three housings – Plug With Latch, Plug Without Latch, and Snap-In Receptacle – accommodate 2 to 10 circuits for orderly cable management and "clean looking" connectors.

FEATURES

- **Positive latching**
  Provides security in applications where shock and/or vibration may be severe
- **Variety of contact sizes**
  Enables flexibility in wiring sizes and allows customization
- **Integral strain relief**
  Organizes individual wires and reduces risk of wire breakage

PRODUCT SPECIFICATIONS

Connector Model	PP10P&S	PP15	PP30	PP30P&S	PP45
UL Current Rating (Amperes)*	10	15	30	30****	45
UL Voltage Ratings (Volts)**	600*				
Contact Barrel Wire Size (AWG)	#14 / #16	#16 / #20	#12 / #16	#10	#10 / #14
(mm^2)	2 to 1.3	1.3 to .5	3.3 to 1.3	5.3	5.3 to 2.1
Maximum Wire Insulation Diameter (inches)	0.137	0.175	0.175	0.175	0.175
(mm)	3.48	4.45	4.45	4.45	4.45
AVG Contact Resistance* (micro-ohms)	2200	875	600	600	525
Insulation Withstanding Test Voltage (Volts AC/DC)	2200				
Contact Retention Force (lbf)	25	25	25	25	35
Avg. Connection/Disconnect (lbf)	5 - LD	3 - LD	3 - LD	3 - LD	3 - LD
	N/A	5 - HD	5 - HD	5 - HD	5 - HD
Operating Temperature Range °C***	-20° to 105°				
°F	-4° to 221°				
Flammability Rating of Housing Material	UL94 V-0				

Material Properties	
Powerpole Pak Housing	Polycarbonate, UL94 V-0
Powerpole Housing	Polycarbonate, UL94 V-0
Powerpole Contacts	Base metal copper
Plating	Wire contacts - tin or silver
Powerpole Springs	Stainless steel

RoHS COMPLIANT APP

** UL Rated for 65°C largest wire or cable size*
*** Both AC & DC Voltage*
**** Contact factory for higher temperature rated connectors*
***** Based on 10 AWG*

ORDERING INFORMATION

Plug Without Latch

Includes Plug Housing, 30 amp black Powerpole® connectors and Cable Clamp Hardware Pak.

Part Number	Number of Poles
1450G2	2
1451G2 (female)	3
1451G6 (male)	3
1452G2	4
1453G2	6
1454G2	8

Note: The recommended tightening torque for conduit/cable clamp screws is 5in.lb max. – over-tightening may cause stripping to occur.

Shell Housing Only, Plug Without Latch

Part Number	Number of Poles
1461G1	2, 3, 4
1461G2	5, 6
1461G3	7, 8

Plug With Latch

Includes Plug Housing, 30 amp black Powerpole connectors and Cable Clamp Hardware Pak.

Part Number	Number of Poles
1450G3	2
1451G3 (male)	3
1452G3	4
1453G3	6
1454G3	8

Note: The recommended tightening torque for conduit/cable clamp screws is 5in.lb max. – over-tightening may cause stripping to occur.

Shell Housing Only, Plug With Latch

Part Number	Number of Poles
1460G1	2, 3, 4
1460G2	5, 6
1460G3	7, 8
1460G4	9, 10

Snap-in Receptacle

Includes Snap-in Housing, 30 amp black Powerpole® connectors and Retaining Pin(s).

Part Number	Number of Poles
1450G1	2
1451G1 (female)	3
1452G1	4
1453G1	6
1454G1	8

Shell Housing Only, Snap-in Receptacle

Part Number	Number of Poles
1470G1	2, 3, 4
1470G2	5, 6
1470G3	7, 8
1470G4	9, 10

Note: For additional colors please contact customer service

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ORDERING INFORMATION

Accessories

Cable Clamp Hardware Pak

Part Number	Maximum Number of Poles
115G1	4
115G2	6
115G3	8
115G4	10

Cable Clamp Hardware Pak for Plug With Latch or Plug Without Latch – includes cable clamp, 2 screws & retaining pin(s) for strain relief.

Retaining Pins for Snap-in Receptacle

Part Number	Number of Pins Required
110G9	1 Required for a 4 Pole
110G9	2 Required for a 6 Pole
110G9	3 Required for a 8 pole
110G9	4 Required for a 10 pole

Flexible Conduit Hardware Pak

Part Number	Maximum Number of Poles
110G10	4
110G11	6
110G15	8

Flexible Conduit Hardware Pak for Plug With Latch and Plug without Latch – includes conduit clamp, 2 screws & retaining pin(s) for capturing flexible conduit at back end of plug.

Tooling

Part Number	Description
111038G2	Contact insertion/extraction tool
1309G1	Hand tool - #14 to #16
1309G2	Hand tool #12 to #20
1309G3	Hand tool for p/n 261G2-LPBK
1309G5	Hand tool for p/n 200G2L & 201G2H

tooling continued

Part Number	Description
1396G1	Hand Tool
1387G1	Pneumatic Tool
1388G8	- Die #10
1389G8	- Locator #10
260G1	Applicator only (110V & 220V)
260G3	Applicator only (110V & 220V)
260G14*	Applicator only (110V & 220V)
260G15*	Applicator only (110V & 220V)
260G18**	Applicator only (110V & 220V)
280G1	Applicator and press (110V, 60Hz)
280G2	Applicator and press (110V, 60Hz)
250G1	Press only (110V, 60Hz)
280G4	Applicator and press (220V, 50Hz)
250G2	Press only (220V, 50Hz)

** Denotes mini-style applicator for use with existing "K' or "T" press*

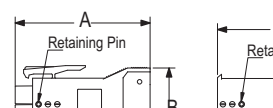
*** Denotes mini-style applicator for use with existing "K" or "T" and "G" press*

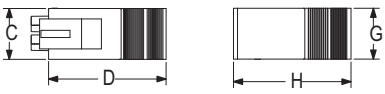
DIMENSIONS

Plug with Latch	-A-		-B-		-C-		-D-	
Pole	mm	in.	mm	in.	mm	in.	mm	in.
2, 3, 4	57.15	2.25	31.50	1.24	21.59	.85	49.28	1.94
5, 6	57.15	2.25	39.62	1.56	21.59	.85	49.28	1.94
7, 8	57.15	2.25	47.50	1.87	21.59	.85	49.28	1.94
9, 10	71.63	2.82	46.74	1.84	21.59	.85	63.75	2.51

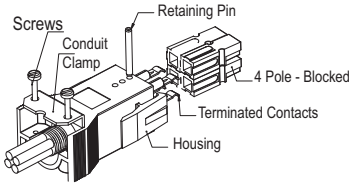
Plug without Latch	-E-		-F-		-G-		-H-	
Pole	mm	in.	mm	in.	mm	in.	mm	in.
2, 3, 4	53.09	2.09	31.50	1.24	21.59	.85	49.28	1.94
5, 6	53.09	2.09	39.62	1.56	21.59	.85	49.28	1.94
7, 8	53.09	2.09	47.50	1.87	21.59	.85	49.28	1.94

Snap-in Receptacle	-J-		-K-		-L-		-M-		Knock-out Size	
Pole	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.
2, 3, 4	38.10	1.50	1.78	.07	19.56	.77	27.94	1.10	25.40 x 31.75	1.00 x 1.25
5, 6	47.75	1.88	1.78	.07	19.56	.77	27.94	1.10	25.40 x 41.15	1.00 x 1.62
7, 8	54.10	2.13	1.78	.07	19.56	.77	27.94	1.10	25.40 x 47.75	1.00 x 1.88
9, 10	61.98	2.44	1.78	.07	19.56	.77	27.94	1.10	25.40 x 55.58	1.00 x 2.19

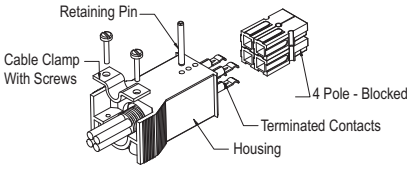




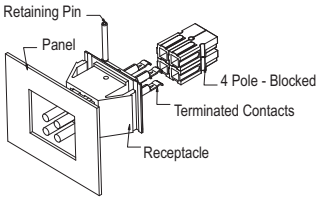
Plug With Latch | Plug Without Latch | Snap-in Receptacle



Powerpole® Pak With Latch



Powerpole® Pak Without Latch



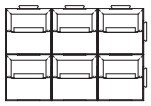
Powerpole® Pak Snap-in Receptacle

2 Pole Male & Female

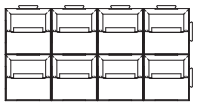
3 Pole Male

3 Pole Female

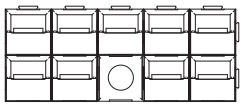
4 Pole Male & Female



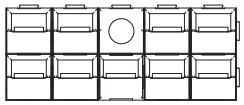
6 Pole Male & Female



8 Pole Male & Female



9 Pole Male (above)
9 Pole Female (below)



Powerpole® 1327, 1345 and 1330 series

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Blindmate Connector

Anderson Power Products® (APP) now offers the Blindmate Powerpole® Pak for wire to printed circuit board applications. The Blindmate Powerpole® Pak corrects for up to .45" of misalignment.

The Blindmate Powerpole® Pak, was a custom assembly for unique power requirements in the Communications and Uninterruptible Power Supply (UPS) markets. It can now be ordered as individual components enabling customers to customize the Blindmate Powerpole® Pak for unique applications.

FEATURES

• Corrects for .45" misalignment
Allows units to self-align during Blindmate (Rack & Panel applications)

• Dovetail contact housings
Can be configured in almost any combination to provide signal power and make first / break last circuits as well as unique keying

• Wide range of contact sizes
Provides engineers flexibility during system design

PRODUCT SPECIFICATIONS

Connector Model	PP10	PP15	PCB25	PP30	PP45
UL Current Rating (Amperes)*	10	15	25	30	45
UL Voltage Ratings (Volts)**	600*				
Contact Barrel Wire Size (AWG)	#14 / #16	#16 / #20	N/A	#12 / #16	#10 / #14
(mm^2)	2.1 to 1.3	1.3 to .5	N/A	3.3 to 1.3	5.3 to 2.1
Maximum Wire Insulation Diameter (inches)	0.137	0.175	N/A	0.175	0.175
(mm)	3.48	4.45	N/A	4.45	4.45
AVG Contact Resistance* (micro-ohms)	2200	875	600	600	525
Insulation Withstanding Test Voltage (Volts AC/DC)	2200				
Contact Retention Force (lbf)	25	25	25	25	35
Avg. Connection/Disconnect (lbf)	5 - LD	3 - LD	3 - LD	3 - LD	3 - LD
	N/A	5 - HD	5 - HD	5 - HD	5 - HD
Operating Temperature Range °C***	-20° to 105°				
°F	-4° to 221°				
Flammability Rating of Housing Material	UL94 V-0				

** UL Rated for 65°C largest wire or cable size* *** Both AC & DC Voltage* **** Contact factory for higher temperature rated connectors*

Material Properties	
Blindmate Housing	Polycarbonate, UL94 V-0
Powerpole Housing	Polycarbonate, UL94 V-0
Powerpole Contacts	Base metal copper
Plating	Wire contacts - tin or silver
	PCB contacts - tin
Powerpole Springs	Stainless steel

Mechanical Properties	
Mating Cycle	500 min (loaded blindmate housing)
Mating Force	25 lbs average (fully loaded housing)
Misalignment Allowance	Radial - .45 max inches (1.14mm)
	Vertical - .45 max inches (11.43mm)
	Horizontal - .47 max inches (11.93mm)
Engagement Distance	.900 (±/.010) inches
	22.86 (±/.25) mm

RoHS COMPLIANT APP

ORDERING INFORMATION

Housings Only

Part Number	Description
BMPP10-45P	2 x 4 Blindmate plug , hardware & pin
BMPP10-45R	2 x 4 Blindmate receptacle, hardware & pin
BMHSG-P	2 x 4 Plug housing only
BMHSG-R	2 x 4 Receptacle housing only
1327	PP15/45 red housing
1327G5	PP15/45 green
1327G6	PP15/45 black
1327G7	PP15/45 white
1327G8	PP15/45 blue
1327G16	PP15/45 yellow
1327G17	PP15/45 orange
1327G18	PP15/45 gray
1327G21	PP15/45 brown
1327G22	PP15/45 pink
1327G23	PP15/45 purple
PP30GND-P	Powerpole pin, green
PP30GND-S	Powerpole socket, green

** LD - low detent or HD - high detent*
Note: For additional colors please contact customer service.
For finger proof housings see page 18.

Contacts Only*

Part Number	Description	Wire AWG	Wire sq. mm
1331	PP30 amp, loose piece - LD	12/16	3.31/1.31
1332	PP15 amp, loose piece - LD	16/20	1.31/.52
261G2-LPBK	PP45 amp, loose piece - LD	10/14	5.26/2.08
1230G1	PP30 amp pin	10	5.26
1232G1	PP30 amp socket	10	5.26
261G1	PP30 amp, reel - LD	12/16	3.31/1.31
261G2	PP45 amp, reel - LD	10/14	5.26/2.08
262G1	PP15 amp, reel - LD	16/20	1.31/.52
1377G1	Right Angle - LD	0.70	17.8
1377G2	Right Angle - LD	0.40	10.2
1377G11	Right Angle - LD	0.70	17.8
1377G12	Right Angle - LD	0.40	10.2
1377G14	Right Angle - LD	0.18	4.6
1377G15	Right Angle - LD	1.02	25.9
1377G16	Right Angle - LD	0.72	18.3
1377G17	Right Angle - LD	0.88	22.4
1377G18	Right Angle - LD	0.58	14.7
1317G1	Right Angle - HD	0.70	17.8
1317G2	Right Angle - HD	0.40	10.2
1317G11	Right Angle - HD	0.70	17.8

contacts only continued

Part Number	Description	Wire AWG	Wire sq. mm
1317G12	Right Angle - LD	0.40	10.2
1317G14	Right Angle - LD	0.18	4.6
1317G15	Right Angle - LD	1.02	25.9
1317G16	Right Angle - LD	0.72	18.3
1317G17	Right Angle - LD	0.88	22.4
1317G18	Right Angle - LD	0.58	14.7
1377G3	Straight Terminal - LD	2.16	54.9
1377G4	Straight Terminal - LD	1.7	43.2
1377G13	Straight Terminal - LD	1.11	28.2
1317G3	Straight Terminal - HD	2.16	54.9
1317G4	Straight Terminal - HD	2.16	43.2
1317G13	Straight Terminal - HD	1.11	28.2

Hardware

Part Number	Description
110G50	Used with BMHSG-P
110G51	Used with BMHSG-R

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ORDERING INFORMATION

Tooling

Part Number	Description
1387G1	Pneumatic Tool
1388G8	- Die #10
1389G8	- Locator #10
260G1	Applicator only (110V & 220V)
260G14*	Applicator only (110V & 220V)
260G15*	Applicator only (110V & 220V)
260G18**	Applicator only (110V & 220V)
280G1	Applicator and press (110V, 60Hz)
250G1	Press only (110V, 60Hz)
280G4	Applicator and press (220V, 50Hz)
250G2	Press only (220V, 50Hz)

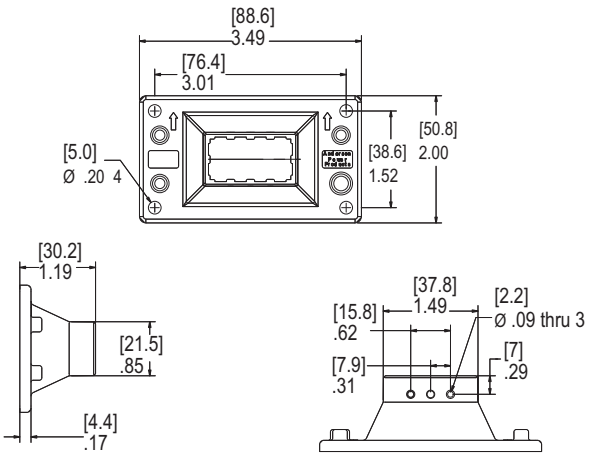
** Denotes mini-style applicator for use with existing "K" or "T" press*
*** Denotes mini-style applicator for use with existing "K" or "T" and "G" press*

Tooling

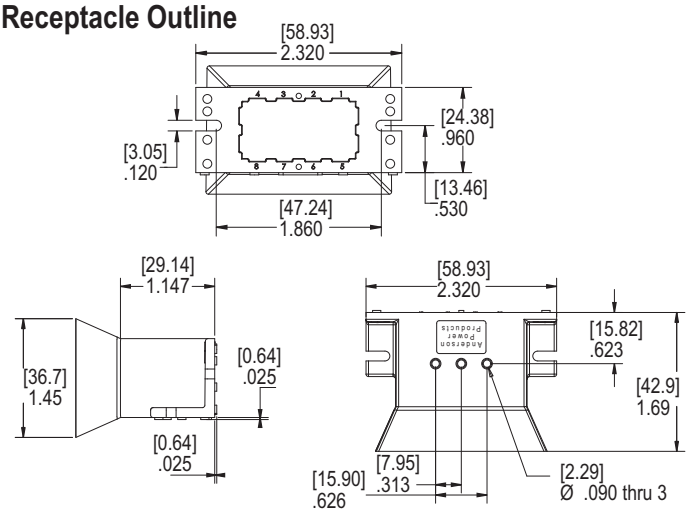
Part Number	Description
111038G2	Contact insertion/extraction tool
1309G3	Hand tool for p/n 261G2-LPBK
1309G2	Hand tool #12 to #20
1309G5	Hand tool for p/n 200G2L & 201G2H
1396G1	Hand Tool

DIMENSIONS

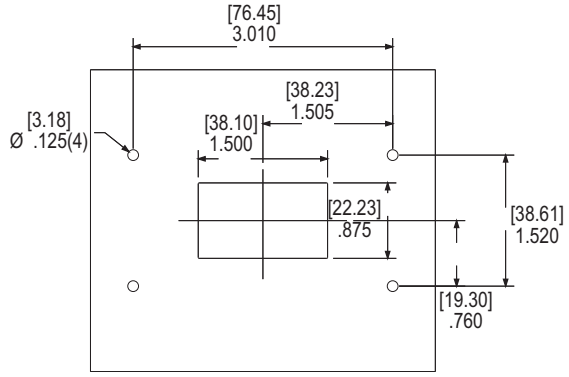
Plug Outline

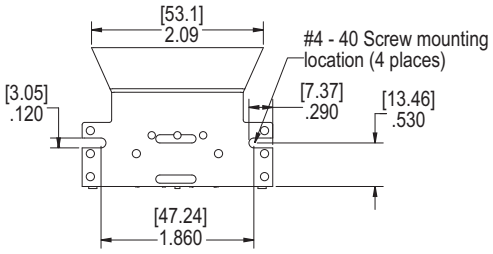


Receptacle Outline

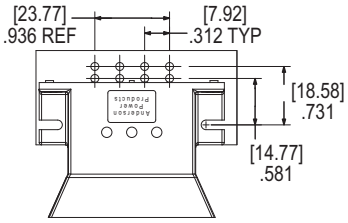


Plug Panel Cutout





Receptacle PCB Layout



Powerpole® 1327, 1345 and 1330 series

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US File No. E26226

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Anderson Power Products

Connector Notes

For customer drawings, assembly instructions and individual data sheets, please visit www.andersonpower.com.

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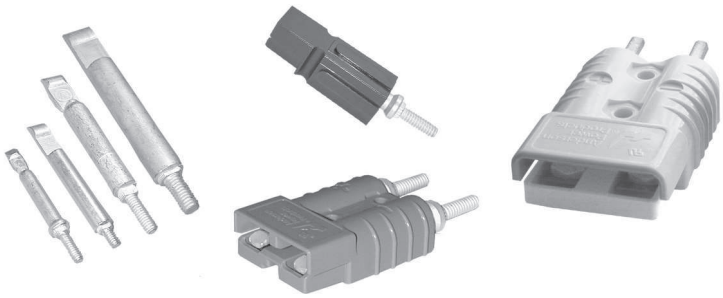
FEATURES

• Disconnect contacts
Provide for modular assembly or simple field repair lowering manufacturing and maintenance costs

• Hot swap *
Allows for repair and maintenance of components without the need for powering down equipment

• Solid copper contacts with silver plating
Superior conductivity for lower heating



** Tested per UL1977 - overload and resistance to ARC - Based on singlepole*

PRODUCT RANGE

Contact Information	PP75	PP180	SB® 50	SB®120	SB®175	SB®350
Maximum Current (per contact)	75 amps	180 amps	50 amps	120 amps	175 amps	350 amps
Maximum Voltage (AC or DC)	600					
Contact Material	99 % copper					
Plating	Silver					
Contact Resistance	<100 micro-ohms					
Mating Life-No Load (cycles)	10,000					
Mating Connector Information						
Contact Barrel Wire Size (AWG)*	#6 to #16	1/0 to #10	#6 to #16	#2 to #6	1/0 to #10	2/0 to 300mcm
Contact Barrel Wire Size (mm²)*	13.3 to 1.3	53.5 to 5.3	13.3 to 1.3	33.3 to 13.3	53.5 to 5.3	67.4 to 152

Housing Information

Powerpole and SB housings are manufactured using polycarbonate resin that meets UL94 V-0 requirements. Temperature range is -20° to 105°C / -4° to 221°F.

RoHS COMPLIANT APP

** Reducing bushing must be used to accommodate smaller wire sizes*

PRODUCT INFORMATION

APP's rugged Bus bar contacts are used with the Powerpole® and SB® connector housings. The connectors attach directly to a copper bus, while offering a quick disconnect design that minimizes the expense of system assembly, replacement or repair. The Bus bar contact reduces assembly costs by facilitating the use of plug-in sub-systems and sub-system testing. Further savings are also made possible as the connectors eliminate the need for a licensed electrician to conduct field site service and repair. This efficient transmission of power makes them ideal for use in electronic cabinets. (Amperage may require de-rating for the mating wire size selected.)

To ensure high conductivity and minimal electrical loss, APP's Bus bar contacts are manufactured from solid copper and silver-plated. The contacts are threaded to provide simple attachment to a bus without the need for special tooling. The knurled shoulder of the Bus bar contact assures a secure fit, and the "D" shape guaranties proper contact orientation.

Bus Bar Connector

APP's rugged Bus bar contacts are designed to attach directly to a copper bus, while offering a quick disconnect design that minimizes the expense of system assembly, replacement or repair. The contacts will handle 75 amps up to 350 amps and are used with the standard APP Powerpole® and SB® housings.

To ensure high conductivity and minimal electrical loss, APP's Bus bar contacts are manufactured from solid copper and silver-plated. The contacts are threaded to provide simple attachment to a bus without the need for special tooling.

FEATURES

• Disconnect contacts
Provide for modular assembly or simple field repair lowering manufacturing and maintenance costs

• Hot swap *
Allows for repair and maintenance of components without the need for powering down equipment

• Solid copper contacts with silver plating
Superior conductivity for lower heating

** Tested per UL1977 - overload and resistance to ARC - Based on singlepole*

PRODUCT SPECIFICATIONS

Contact Information	PP75	PP180	SB® 50	SB®120	SB®175	SB®350
Maximum Current (per contact)	75 amps	180 amps	50 amps	120 amps	175 amps	350 amps
Maximum Voltage (AC or DC)	600					
Contact Material	99 % copper					
Plating	Silver					
Contact Resistance	<100 micro-ohms					
Mating Life-No Load (cycles)	10,000					
Mating Connector Information						
Contact Barrel Wire Size (AWG)*	#6 to #16	1/0 to #10	#6 to #16	#2 to #6	1/0 to #10	2/0 to 300mcm
Contact Barrel Wire Size (mm²)*	13.3 to 1.3	53.5 to 5.3	13.3 to 1.3	33.3 to 13.3	53.5 to 5.3	67.4 to 152

Housing Information

Powerpole and SB housings are manufactured using polycarbonate resin that meets UL94 V-0 requirements. Temperature range is -20° to 105°C / -4° to 221°F.

** Reducing bushing must be used to accommodate smaller wire sizes*

RoHS COMPLIANT APP

ORDERING INFORMATION

Bus Bar Contact

Part Number	Description
75BBS	For use with PP75 / SB50
120BBS	For use with SB120 (SB only)
180BBS	For use with PP180 / SB175
350BBS	For use with SB350 (SB only)

Lock Nuts

Part Number	Description
110G54	For use with PP75 / SB50 / SB120 contact
110G55	For use with PP180 / SB175 contact
110G73	For use with SB350 contact

Powerpole® PP75 Housings

Part Number	Description
5916	PP75 Housing, Blue
5916G4	PP75 Housing, Black
5916G5	PP75 Housing, White
5916G6	PP75 Housing, Green
5916G7	PP75 Housing, Red

Powerpole® PP180 Housings

Part Number	Description
1381	PP180 Housing, Blue
1381G1	PP180 Housing, Black
1381G2	PP180 Housing, White
1381G3	PP180 Housing, Red
1381G4	PP180 Housing, Green

SB® 50 Housings

Part Number	Description
992	Gray
992G1	Red
992G2	Black
992G4	Blue
992G5	Yellow
992G6	Green
992G7	Orange

SB® 120 Housings

Part Number	Description
6810G1	Gray
6810G2	Blue
6810G3	Red

SB® 175 Housings

Part Number	Description
940	SB Housing, Gray
941	SB Housing, Blue
942	SB Housing, Orange
943	SB Housing, Yellow
949	SB Housing, Red

SB® 350 Housings

Part Number	Description
906	Gray
912	Blue
913	Red
914	Yellow
931	Green
932	Orange

Note: For additional Bus Bar connector designs and/or additional housing colors, please contact customer service.

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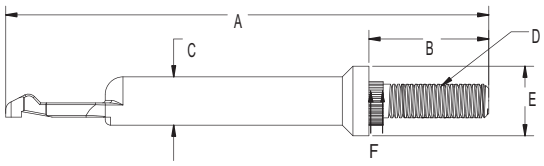
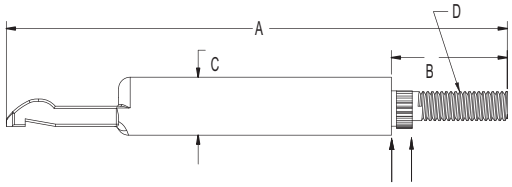
ORDERING INFORMATION

Contacts

Part Number		- A - in.	- A - mm	- B - in.	- B - mm	- C - in.	- C - mm	- D -	- E - in.	- E - mm	- F - in.	- F - mm
75BBS	75	2.70	68.6	0.67	17.0	0.27	6.9	#10-24 thd.	0.04	1.0	0.08	2.0
120BBS	120	3.03	77.0	0.44	11.2	0.38	9.7	#10-24 thd.	N/A		0.10	2.5
180BBS	180	4.30	109.2	1.00	25.4	0.50	12.7	1/4-20 thd.	N/A		0.18	4.6
350BBS	350	5.19	131.8	0.88	22.4	0.67	17.0	3/8-16 thd.	N/A		0.10	2.5



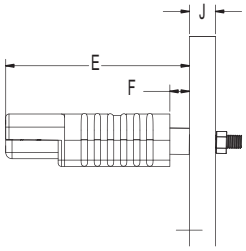
75BBS



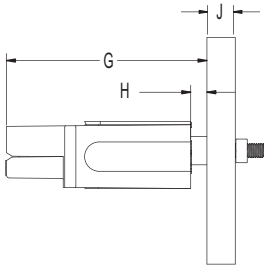
120BBS / 180BBS / 350BBS

Mounting Table

Part Number	Amps	- E - in.	- E - mm	- F - in.	- F - mm	- G - in.	- G - mm	- H - in.	- H - mm	- J - in.	- J - mm
75BBS	75	2.10	53.3	0.20	5.1	2.10	53.3	0.20	5.1	0.12 -.050	3.0 -12.7
120BBS	120	2.70	68.6	0.20	5.1	N/A		N/A		0.12 -0.77	3.0 -19.6
180BBS	180	3.50	88.9	0.40	10.2	3.50	88.9	0.30	7.6	0.20 -0.75	5.0 -19.0
350BBS	350	4.45	113.0	0.20	5.1	N/A		N/A		0.12 -0.77	3.0 -19.6



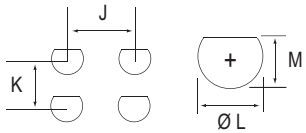
SB® View



Powerpole® View

Bus Bar Layout

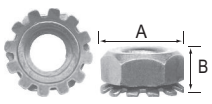
Part Number	Amps	- J - mm	- J - in.	- K - mm	- K - in.	- L - mm	- L - in.	- M - mm	- M - in.
75BBS	75	19.1	0.75	17.3(min)	0.68(min)	6.73	0.265	2.92	0.115
120BBS	120	23.6	0.93	21.1(min)	0.83(min)	7.37	0.29	6.35	0.25
180BBS	180	26.8	1.05	26.8(min)	1.05(min)	9.53	0.375	3.43	0.135
350BBS	350	34.9	1.38	33.8(min)	1.33(min)	13.34	0.525	11.76	0.463



Mounting Dimensions

Lock Nuts

Part Number	Lock Nut	- A - mm	- A - in.	- B - mm	- B - in.
75BBS	#10-24 thd.	10.9	0.43	4.0	0.16
120BBS	#10-24 thd.	10.9	0.43	4.1	0.16
180BBS	1/4-20 thd.	12.9	0.51	6.0	0.23
350BBS	3/8-16 thd.	16.5	0.65	10.0	0.40



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Connector Notes

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FEATURES

• Finger proof
Minimizes the potential contact with live contacts, per UL 1977, section 10.2

• Mechanical keyed housings
Prevents accidental mating of connectors operating at different voltage levels

• Ergonomic design
Is "user friendly" during connection and disconnection of the system

• Molded side grooves
Allows for direct panel mounting, for panel thicknesses of .048 to .062 inches (1.22 to 1.57 mm) or a panel mount bracket

• Mechanical keyed color coded housings
Prevents accidental mating of components operating at different voltage levels

• Genderless design
Makes assembly quick and easy and reduces number of parts stocked

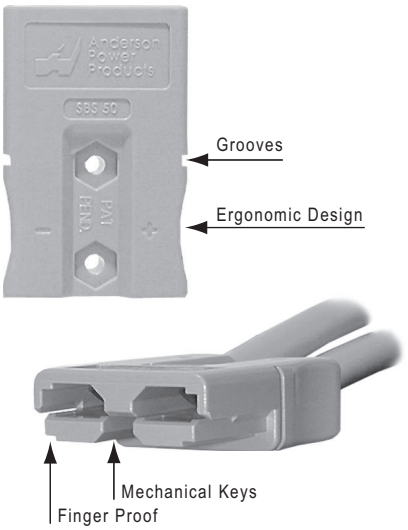
• Flat wiping contact system
Allows for minimal contact resistance at high current, wiping action cleans contact surface during disconnection

• UL approved for current interrupt
Safe for "Hot Plug" of battery power

• UL94 V-0 housing material
Provides security in knowledge that the connector chosen meets strict UL flammability ratings

Recommended Voltage Key Color Code

Voltage	24V	36V	48V	80V	96V	192V
Color	Red	Gray	Blue	Black	Brown	White



PRODUCT RANGE

UL Current Rating (Amperes)*	50
UL Voltage Ratings (Volts)	600*
Contact Barrel Wire Size (AWG)	#6 to #16
Maximum Wire Insulation Diameter (inches)	0.44
(mm)	11.2
AVG Contact Resistance* (micro-ohms)	200
Insulation Withstanding Test Voltage (Volts AC/DC)	2200
Contact Retention Force (lbf)	50
Life	
a. No load (Contact/Disconnect Cycles)	To 10,000
b. Under Load (Hot Plug 250 cycles @ 120V)	50A
Avg. Connection/Disconnect (lbf)	15
Operating Temperature Range °C**	-20° to 105°
Flammability Rating of Housing Material	UL94 V-0

RoHS COMPLIANT APP

** UL Rated for 65°C largest wire or cable*
*** Contact factory for higher temperature rated connector*

PRODUCT INFORMATION

Anderson Power Products (APP), a leader in interconnect solutions, offers the highly-durable SBS50 Finger Proof connector. This 2 pole housing, offers APP customers a finger proof design. The design minimizes contact with live contacts, per UL 1977 and UL 60950 regulations, for systems operating over 50 volts, where risk of shock can be health threatening.

The SBS50's slim, contoured ergonomic design allows the operator greater ease when connecting and disconnecting. This along with APP's flat wipe contact technology, make hot plugging and unplugging easy and safe while using minimal real estate. These housings are also keyed to prevent accidental mating of components operating at different voltage levels. Molded side grooves allow secure panel mounting for panel thickness of .048 to .062 inches (1.22 to 1.57 mm).

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SBS®50 Connector

The Patented SBS0 is designed for high voltage applications where personal safety is critical. The connector meets the accessibility requirements of UL1977 section 10.2 and is recommended for over 50 volts.

The slim, ergonomic design, along with Anderson's flat wipe contact technology makes hot plugging and unplugging easy and safe. The SBS™ 50 is manufactured using the same high quality materials that provide APP customers the robustness needed for systems demanding reliability and longevity.

Applications for this connector include: AC & DC power distribution, uninterruptible power supplies (UPS) and traction batteries.

FEATURES

• Finger proof
Minimizes the potential contact with live contacts, per UL 1977, section 10.2

• Mechanical keyed housings
Prevents accidental mating of connectors operating at different voltage levels

• Ergonomic design
Is "user friendly" during connection and disconnection of the system

• Molded side grooves
Allows for direct panel mounting, for panel thicknesses of .048 to .062 inches (1.22 to 1.57 mm) or a panel mount bracket

PRODUCT SPECIFICATIONS

Connector Model	SBS 50
UL Current Rating (Amperes)	50
UL Voltage Ratings (Volts)	600*
Contact Barrel Wire Size (AWG)	#6 to #16
Maximum Wire Insulation Diameter (inches)	0.44
(mm)	11.2
AVG Contact Resistance* (micro-ohms)	200
Insulation Withstanding Test Voltage (Volts AC/DC)	2200
Contact Retention Force (lbf)	50

Connector Model	SBS 50
Life	
a. No load (Contact/Disconnect Cycles)	To 10,000
b. Under Load (Hot Plug 250 cycles @ 120V)	50A
Avg. Connection/Disconnect (lbf)	15
Operating Temperature Range °C**	-20° to 105°
°F	-4° to 221°
Flammability Rating of Housing Material	UL94 V-0

Recommended Voltage Key Color Code

Voltage	24V	36V	48V	80V	96V	192V
Color	Red	Gray	Blue	Black	Brown	White

** UL Rated for 65°C largest wire or cable / ** Contact factory for higher temperature rated connector / SB®, UL and CSA Reference: This equipment is an Underwriters Laboratories Inc® recognized component. It is also listed by the Canadian Standards Association as certified.*

ORDERING INFORMATION

2 Pole Housing & 50 amp Contacts

Part Number	Housing Color	Wire AWG
SBS50GRA#6	Gray	#6
SBS50GRA#10/12	Gray	#10/12
SBS50BLU#6	Blue	#6
SBS50BLU#10/12	Blue	#10/12
SBS50RED #6	Red	#6
SBS50RED #10/12	Red	#10/12
SBS50BLK #6	Black	#6
SBS50BLK #10/12	Black	#10/12
SBS50BRN#6	Brown	#6
SBS50BRN#10/12	Brown	#10/12
SBS50WHT#6	White	#6
SBS50WHT#10/12	White	#10/12

Note: For additional colors please contact customer service

Housings Only

Part Number	Description
SBS50GRA	Gray
SBS50BLU	Blue
SBS50RED	Red
SBS50BLK	Black
SBS50BRN	Brown
SBS50WHT	White

50 amp Contacts

Part Number	Description	Wire AWG
1339G2	Contact set (2)-low det	#6
1339G3	Contact set (2)-low det	#10/12

Accessories

Part Number	Description
SBS50-HDL-Red	Handle & hardware-red
990	Cable clamp & hardware-self attaching-2C
990G1	Cable clamp & hardware-screw mounting-2C
5905	Cable clamp-1 twin conductor with hardware
1466G1	Panel mount bracket

Bushings

Part Number	Description	Wire AWG
5912	Use with 1339G2	#6 to #8
5910	Use with 1339G2	#6 to #10/12
5913	Use with 1339G2	#6 to #14/16

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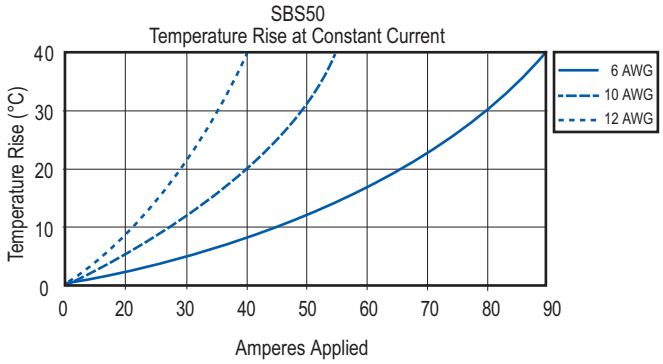
SBS®50 Connector

ORDERING INFORMATION

Tooling

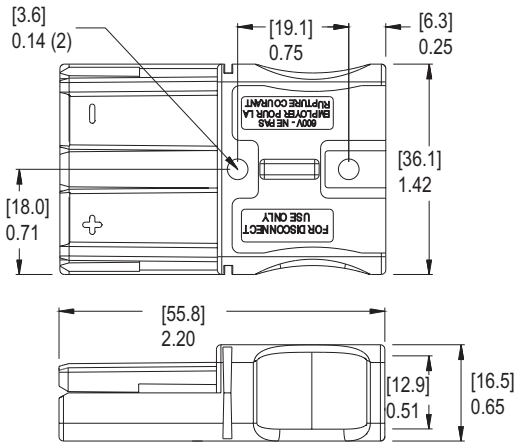
Part Number	Description
1309G4	Hand tool
1387G1	Pneumatic tool
1388G6	- die for #6 to #16 AWG
1388G7	- die for #10 to #12 AWG
1389G9	- locator for #6 to #12 AWG

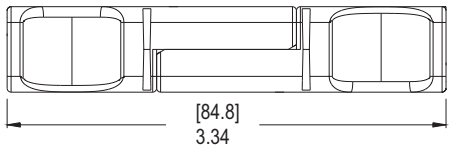
TEMPERATURE RISE CHART



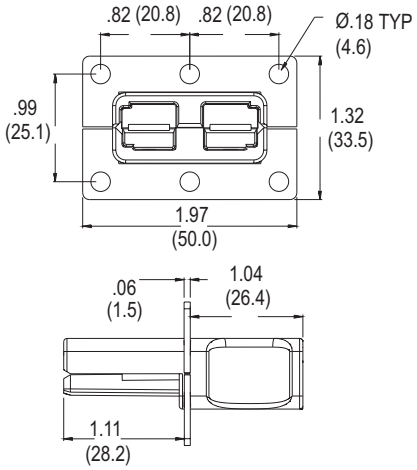
DIMENSIONS

Housing

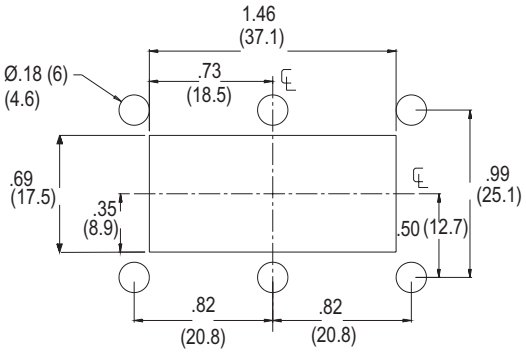




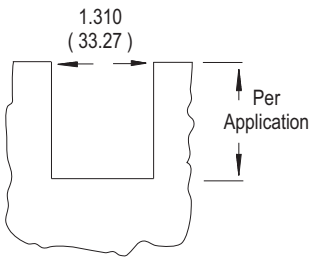
Panel Mounting Bracket



Panel Cutout With A Mounting Bracket



Panel Cutout Without A Mounting Bracket



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Connector Notes

For customer drawings, assembly instructions and individual data sheets, please visit www.andersonpower.com.

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FEATURES

• Mechanical keyed housings
Prevents accidental mating of components operating at different voltage levels

• Single-piece housing and unitized construction
Provides industrial quality and durability

• PCB mounted Quick disconnect
Avoids the need for unfastening ring type terminals

• Straight and right angle terminal
Provides flexibility of parallel or perpendicular mounting to the PCB

• Genderless design
Makes assembly quick and easy and reduces number of parts stocked

• Flat wiping contact system
Allows for minimal contact resistance at high current, wiping action cleans contact surface during disconnection

• Silver plated contacts
Offers greater longevity when using high power, elevated temperature applications

• UL approved for current interrupt
Safe for "Hot Plug" of battery power

• Wide product range - for 50, 120, 175 and 350 amps
Allows versatility to choose product best suited to design requirements

• UL94 V-0 housing material
Provides security in knowledge that the connector chosen meets strict UL flammability ratings

Recommended Voltage Key Color Code

Voltage	12V	18V	24V	36V	48V	72V	80V	96V	120V	144V
Color	Yellow	Orange	Red	Gray	Blue	Green	Black	Brown	Purple	White

PRODUCT RANGE

UL Current Rating (Amperes)*	50* to 350*
UL Voltage Ratings (Volts)	600*
Contact Barrel Wire Size (AWG)	#16 to 300 mcm
(mm²)	1.3 to 152.0
Maximum Wire Insulation Diameter (inches)	0.44 to 1.10
(mm)	11.2 to 27.9
AVG Contact Resistance* (micro-ohms)	200 to 50
Insulation Withstanding Test Voltage (Volts AC/DC)	2200
Contact Retention Force (lbf)	50 to 500
Life	
a. No load (Contact/Disconnect Cycles)	To 10,000
b. Under Load (Hot Plug) Max Amps (250 cycles @ 120V)	50A to 100A
Avg. Connection/Disconnect (lbf)	15 to 35
Operating Temperature Range °C**	-20° to 105°
°F	-4° to 221°
Flammability Rating of Housing Material	UL94 V-0

RoHS COMPLIANT APP

** UL Rated for 65°C largest wire or cable size*
*** Contact factory for higher temperature rated connectors*

PRODUCT INFORMATION

Invented by Anderson Power Products®, the innovative SB® connectors provide cost-effective reliability, design flexibility and mistake-proof capability for your products' manufacture, installation and maintenance. APP's 2 & 3 pole connectors are available for 50, 120, 175 and 350 amp ratings for use to 600 Volts continuous AC or DC operation. There are SB® connectors for many applications and wire sizes, #16 (1.3 mm²) to 300 mcm (152.0 mm²). Mechanical keys ensure connectors will only mate with connectors of the same color. Different color housings are selected to identify voltages, thus preventing mismatching of the power supply system.

The housings are interchangeable and genderless interconnects. Insert contacts into housings and plug together for a clever, simple and low-cost solution to power interconnection. Low-detent contacts are also offered for low insertion/withdrawal force applications. Contacts are available in reeled and loose piece designs to support all production needs from very high volumes to engineering prototype and low-volume customized products.

Markets: UPS Systems, Telecommunications, Forklift Trucks, Wheelchairs, Electric Vehicles, Chargers, Power Electronics & Much More.

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SB®50 Connector

The innovative SB® connectors provide cost-effective reliability, design flexibility and safety for your products' manufacture, installation and maintenance.

APP's 2 pole connector is available with a 50 amp rating, 600 Volts continuous AC or DC operation. There are SB® connectors for many applications and wire sizes, #6 to #16 AWG (13.3 to 1.3 mm²). Mechanical keys ensure connectors will only mate with connectors of the same color. Different color housings are selected to identify voltages, thus preventing mismatching of the power supply system.

FEATURES

• Mechanical keyed housings
Prevents accidental mating of components operating at different voltage levels

• Single-piece housing and unitized construction
Provides industrial quality and durability

• Genderless design
Makes assembly quick and easy and reduces number of parts stocked

PRODUCT SPECIFICATIONS

Connector Model	SB ®50	Connector Model	SB ®50
UL Current Rating (Amperes)*	50*	Life	
		a. No load (Contact/Disconnect Cycles)	To 10,000
UL Voltage Ratings (Volts)	600*	b. Under Load (Hot Plug 250 cycles @ 120V)	50A
Contact Barrel Wire Size (AWG)	#6 to #16	Avg. Connection/Disconnect (lbf)	10 - low detent
(mm²)	13.3 to 1.3		15 - high detent
Maximum Wire Insulation Diameter (inches)	0.44	Operating Temperature Range °C**	-20° to 105°
(mm)	11.2	°F	-4° to 221°
AVG Contact Resistance* (micro-ohms)	200	Flammability Rating of Housing Material	UL94 V-0
Insulation Withstanding Test Voltage (Volts AC/DC)	2200		
Contact Retention Force (lbf)	50		

RoHS COMPLIANT APP

** UL Rated for 65°C largest wire or cable size*
*** Contact factory for higher temperature rated connector*
SB®, UL and CSA Reference: This equipment is an Underwriters Laboratories Inc® recognized component. It is also listed by the Canadian Standards Association as certified.

ORDERING INFORMATION

2 Pole Housing & 50 amp Contacts

Part Number	Housing Color	Wire AWG	Wire sq. mm
6319	Gray	#6	13.3
6319G1	Gray	#10/12	5.3/3.3
6331G1	Red	#6	13.3
6331G2	Red	#10/12	5.3/3.3
6331G3	Black	#6	13.3
6331G4	Black	#10/12	5.3/3.3
6331G5	Blue	#6	13.3
6331G6	Blue	#10/12	5.3/3.3
6331G7	Yellow	#6	13.3
6331G8	Yellow	#10/12	5.3/3.3
6331G9	Green	#6	13.3
6331G10	Green	#10/12	5.3/3.3
6331G11	Orange	#6	13.3
6331G12	Orange	#10/12	5.3/3.3

** LD - low detent or HD - high detent*
Note: For additional colors please contact customer service

Housings Only

Part Number	Description
992	Gray
992G1	Red
992G2	Black
992G4	Blue
992G5	Yellow
992G6	Green
992G7	Orange

50 amp Contacts*

Part Number	Description	Wire AWG	Wire sq. mm
903G1	Contact set (2) 5900	#6	13.3
904G1	Contact set (2) 5915	#10/12	5.3/3.3
5900	Individual - HD	#6	13.3
1307	Individual - LD	#6	13.3
5952	Individual - HD	#8	8.4
5953	Individual - LD	#10/12	5.3/3.3
5914	Individual - HD	#10	5.26
5915	Individual - HD	#10/12	5.3/3.3

50 amp contacts continued

Part Number	Description	Wire AWG	Wire sq. mm
265G1	Reel, silver - HD	#6/8	13.3/8.4
265G2	Reel, silver - HD	#10/12	5.3/3.3
265G3	Reel, silver - LD	#6/8	13.3/8.4
265G4	Reel, silver - LD	#10/12	5.3/3.3
265G5	Reel, tin - HD	#6/8	13.3/8.4
265G6	Reel, tin - HD	#10/12	5.3/3.3
265G7	Reel, tin - LD	#6/8	13.3/8.4
265G8	Reel, tin - LD	#10/12	5.3/3.3
75BBS	Bus bar contact	N/A	N/A

Accessories

Part Number	Description
SB50-HDL-Red	Handle & hardware, red
134G1	Dust cover, red
990	Cable clamp & hardware, self attaching, 2C
990G2	Cable clamp, 2 single conductors

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ORDERING INFORMATION

accessories continued

Part Number	Description
990G1	Cable clamp & hardware-screw mounting-2C
5905	Cable clamp-1 twin conductor with hardware
110G57	Lock nut for use with bus bar contact

Bushings

Part Number	Description	Reduces From AWG	sq. mm
5910	Use with 5900 or 1307	#6 to #10/12	13.3 to 5.3/3.3
5912	Use with 5900 or 1307	#6 to #8	13.3 to 8.4
5913	Use with 5900 or 1307	#6 to #14/16	13.3 to 2.1/1.3

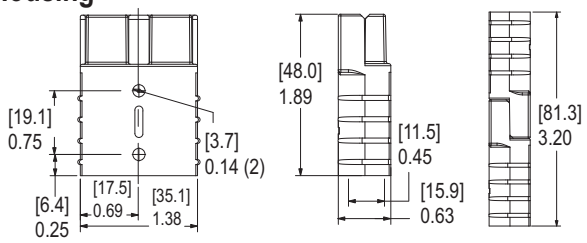
Tooling

Part Number	Description
1309G4	Hand tool
1387G1	Pneumatic tool
1388G6	- die for #6 to #16 AWG
1388G7	- die for #10 to #12 AWG
1389G6	- locator for #6 to #16 AWG
1389G7	- locator for #10 to #12 AWG
260G16	Applicator only (110V & 220V)
*	Applicator & Press (220V, 50Hz)
*	Press only (110V, 60Hz)

** Consult factory*

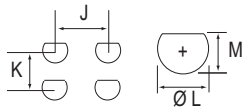
DIMENSIONS

Housing



Bus Bar Layout

Part Number	- J - mm	in.	- K - mm	in.	- L - mm	in.	- M - mm	in.
75BBS	19.1	0.75	17.3(min)	0.68(min)	6.73	0.265	2.92	0.115

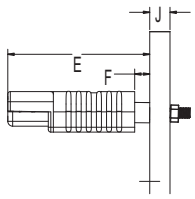


Mounting Dimensions

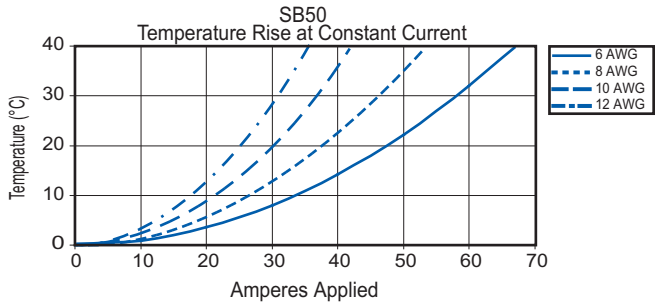
Bus Bar Mounting Table

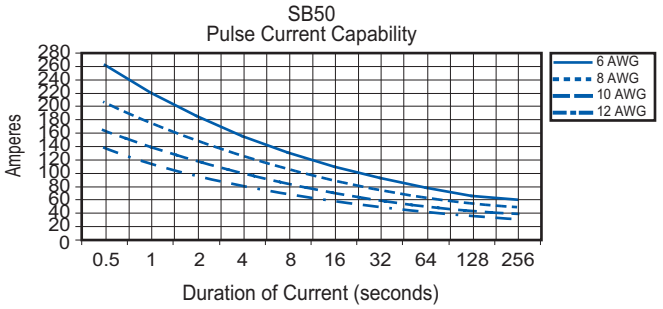
Part Number	-E- mm	in.	-F- mm	in.
75BBS	53.3	2.10	5.10	0.20

Part Number	-J- mm	in.
75BBS	3.0 - 12.7	0.12 - 0.50



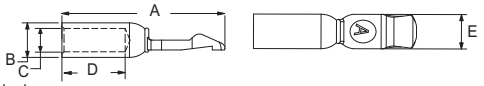
TEMPERATURE RISE CHARTS



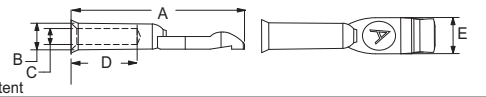


Contacts

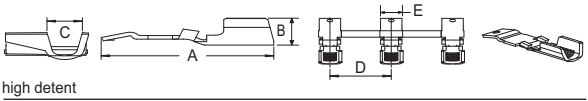
Part Number	-A- mm	in.	-B- mm	in.	-C- mm	in.	-D- mm	in	-E- mm	in.
1307	30.0	1.18	7.2	0.28	5.6	0.22	11.4	0.45	7.1	0.28
5900	30.0	1.18	7.2	0.28	5.6	0.22	11.4	0.45	7.1	0.28
5914	29.7	1.17	4.8	0.19	3.5	0.14	11.4	0.45	7.1	0.28
5915	30.0	1.18	7.2	0.28	3.5	0.14	11.4	0.45	7.1	0.28
5952	30.0	1.18	7.2	0.28	4.7	0.19	11.4	0.45	7.1	0.28
5953	30.0	1.18	7.2	0.28	3.5	0.14	11.4	0.45	7.1	0.28
904G1	30.0	1.18	7.2	0.28	3.5	0.14	11.4	0.45	7.1	0.28
903G1	30.0	1.18	7.2	0.28	5.6	0.22	11.4	0.45	7.1	0.28
265G1	31.8	1.25	9.1	0.36	9.1	0.36	22.9	0.90	8.1	0.32
265G2	31.8	1.25	7.4	0.29	6.9	0.27	22.9	0.90	8.1	0.32
265G3	31.0	1.22	9.1	0.36	9.1	0.36	22.9	0.90	8.1	0.32
265G4	31.0	1.22	7.4	0.29	6.9	0.27	22.9	0.90	8.1	0.32
265G5	31.8	1.25	9.1	0.36	9.1	0.36	22.9	0.90	8.1	0.32
265G6	31.8	1.25	7.4	0.29	6.9	0.27	22.9	0.90	8.1	0.32
265G7	31.0	1.22	9.1	0.36	9.1	0.36	22.9	0.90	8.1	0.32
265G8	31.0	1.22	7.4	0.29	6.9	0.27	22.9	0.90	8.1	0.32
75BBS	See Bus Bar Section									



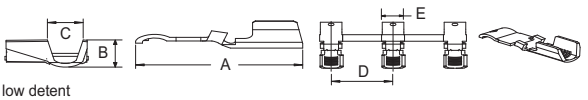
Individual - high detent



Individual - low detent



Reeled - high detent



Reeled - low detent

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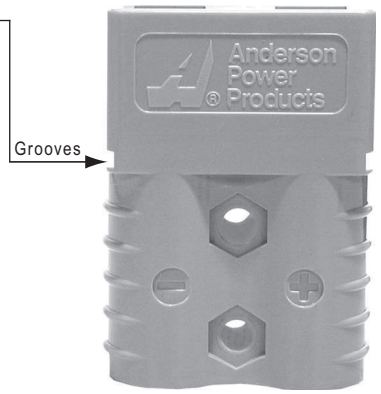
SB®120 Connector

The innovative SB® connectors provide cost-effective reliability, design flexibility and safety for your products' manufacture, installation and maintenance.

APP's 2 pole connector is available with a 120 amp rating, 600 Volts continuous AC or DC operation. There are SB® connectors for many applications and wire sizes, #2 to #6 AWG (33.6 to 13.3 mm²). Mechanical keys ensure connectors will only mate with connectors of the same color. Different color housings are selected to identify voltages, thus preventing mismatching of the power supply system.

FEATURES

- **Molded side grooves**
  Allows for a secure panel mounting fit
- **Mechanical keyed housings**
  Prevents accidental mating of components operating at different voltage levels
- **Single-piece housing and unitized construction**
  Provides industrial quality and durability



PRODUCT SPECIFICATIONS

Connector Model	SB ®120
UL Current Rating (Amperes)*	120*
UL Voltage Ratings (Volts)	600*
Contact Barrel Wire Size (AWG)	#2 to #6
(mm²)	33.3 to 13.3
Maximum Wire Insulation Diameter (inches)	0.575
(mm)	14.6
AVG Contact Resistance* (micro-ohms)	136
Insulation Withstanding Test Voltage (Volts AC/DC)	2200
Contact Retention Force (lbf)	100

Connector Model	SB ®120
Life	
a. No load (Contact/Disconnect Cycles)	To 10,000
b. Under Load (Hot Plug 250 cycles @ 120V)	60A
Avg. Connection/Disconnect (lbf)	20
Operating Temperature Range °C**	-20° to 105°
°F	-4° to 221°
Flammability Rating of Housing Material	UL94 V-0

RoHS COMPLIANT APP

** UL Rated for 75°C largest wire or cable size*
*** Contact factory for higher temperature rated connector*
SB®, UL and CSA Reference: This equipment is an Underwriters Laboratories Inc® recognized component. It is also listed by the Canadian Standards Association as certified.

ORDERING INFORMATION

2 Pole Housing & 120 amp Contacts

Part Number	Housing Color	Wire AWG	Wire sq. mm
6800G1	Gray	#2	33.6
6801G1	Blue	#2	33.6
6802G1	Red	#2	33.6
6800G2	Gray	#4	21.1
6801G2	Blue	#4	21.1
6802G2	Red	#4	21.1
6800G3	Gray	#6	13.3
6801G3	Blue	#6	13.3
6802G3	Red	#6	13.3

Housing Only

Part Number	Description
6810G1	Gray housing
6810G2	Blue housing
6810G3	Red housing

120 amp Contacts

Part Number	Description	Wire AWG	Wire sq.mm
6811G1	Contact set (2)	#2	33.6
6811G2	Contact set (2)	#4	21.1
6811G3	Contact set (2)	#6	13.3
120BBS	Bus Bar	N/A	N/A

Bushings

Part Number	Description	Wire AWG	Wire sq. mm
5919	Use with 6811G1	#2 to #4	33.6/21.2
5920	Use with 6811G1	#2 to #6	33.6/13.3
5921	Use with 6811G1	#2 to #8	33.6/8.4

Accessories

Part Number	Description
SB120-HDL-RED	SB handle with hardware-red
981G1	Cable clamp for 2 single conductor cables
110G57	Lock nut for use with Bus bar contact
134G4	Dust cover, red
1467G1	Panel mount bracket, set (2)
981G2	Twin conduit cable clamp

Tooling

Part Number	Description
1368	Hand tool - #2 to #8
1387G1	Pneumatic tool - #2 to #8
1388G4	- die for #2 to #8
1389G4	- locator #2 to #8

Note: For additional colors please contact customer service

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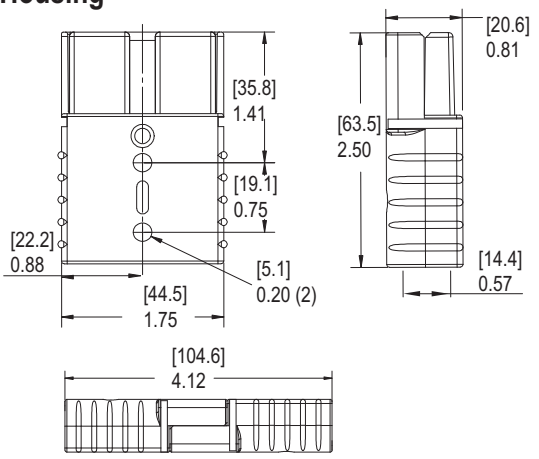
DIMENSIONS

Housing

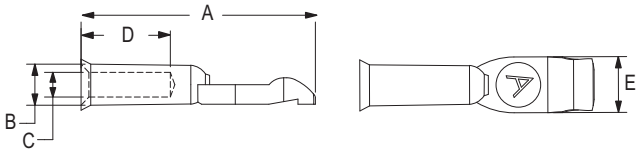


Contacts

Part Number	-A- mm	in.	-B- mm	in.	-C- mm	in.	-D- mm	in.
6811G1	50.8	2.00	11.1	0.44	8.7	0.34	21.6	0.85
6811G2	50.8	2.00	11.1	0.44	7.5	0.30	21.6	0.85
6811G3	50.8	2.00	11.1	0.44	5.6	0.22	21.6	0.85
120BBS	77.0	3.03	11.2	0.44	9.5	0.38	N/A	#10-24Thd.

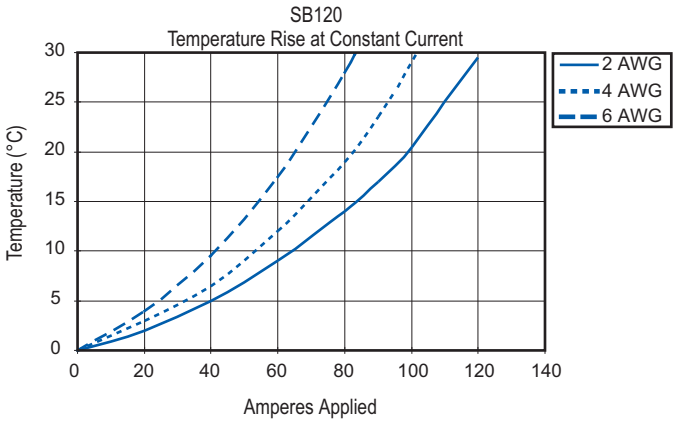
Part Number	Contact Detent	-E- mm	in.	-F- mm	in.	-J- mm	in.	-K- mm	in.
6811G1	Low	10.4	0.41	N/A		N/A		N/A	
6811G2	Low	10.4	0.41	N/A		N/A		N/A	
6811G3	Low	10.4	0.41	N/A		N/A		N/A	
120BBS	N/A	68.6	2.70	5.1	0.20	23.6	0.93	21.1 (min)	0.83(min)

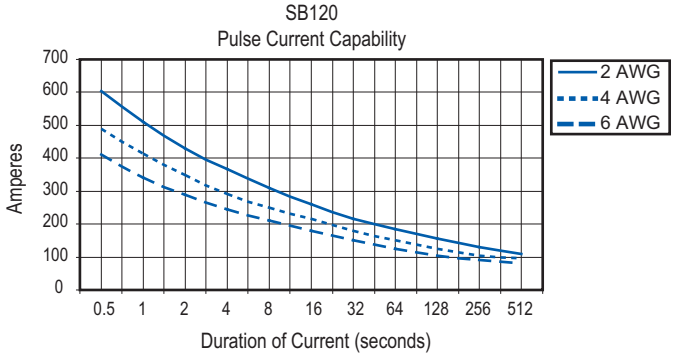
Part Number	Contact Detent	-L- mm	in.	-M- mm	in.
120BBS	N/A	7.37	0.29	6.35	0.25

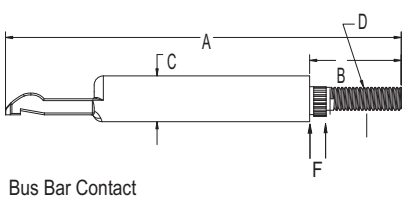


SB Contact

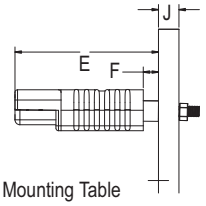
TEMPERATURE RISE CHARTS



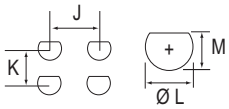




Bus Bar Contact



Mounting Table



Mounting Dimensions

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SB®175 Connector

The innovative SB® connectors provide cost-effective reliability, design flexibility and safety for your products' manufacture, installation and maintenance.

APP's 2 & 3 pole connectors are available with a 175 amp rating, 600 Volts continuous AC or DC operation. There are SB® connectors for many applications and wire sizes, #4 to 1/0 AWG (21.1 to 53.5mm²). Mechanical keys ensure connectors will only mate with connectors of the same color. Different color housings are selected to identify voltages, thus preventing mismatching of the power supply system.

FEATURES

• Mechanical keyed housings
Prevents accidental mating of components operating at different voltage levels

• Flat wiping contact system
Allows for minimal contact resistance at high current, wiping action cleans contact surface during disconnection

• Genderless design
Makes assembly quick and easy and reduces number of parts stocked

PRODUCT SPECIFICATIONS

Connector Model	SB ®175	Connector Model	SB ®175
UL Current Rating (Amperes)*	175*	Life a. No load (Contact/Disconnect Cycles) b. Under Load (Hot Plug 250 cycles @ 120V)	 To 10,000 75A
UL Voltage Ratings (Volts)	600*		
Contact Barrel Wire Size (AWG) (mm²)	#4 to 1/0 21.1 to 53.5	Avg. Connection/Disconnect (lbf)	25 (SB 2 Pole) 35 (SB 3 Pole)
Maximum Wire Insulation Diameter (inches) (mm)	0.75 19.01	Operating Temperature Range °C** °F	-20° to 105° -4° to 221°
AVG Contact Resistance* (micro-ohms)	100	Flammability Rating of Housing Material	UL94 V-0
Insulation Withstanding Test Voltage (Volts AC/DC)	2200		
Contact Retention Force (lbf)	300		

RoHS COMPLIANT APP

** UL Rated for 65°C largest wire or cable size*
*** Contact factory for higher temperature rated connector*
SB®, UL and CSA Reference: This equipment is an Underwriters Laboratories Inc® recognized component. It is also listed by the Canadian Standards Association as certified.

ORDERING INFORMATION

2 Pole Housing & 175 amp Contacts

Part Number	Housing Color	Wire AWG	Wire sq. mm
6325G1	Gray	1/0	53.5
6326G1	Blue	1/0	53.5
6327G1	Orange	1/0	53.5
6328G1	Yellow	1/0	53.5
6329G1	Red	1/0	53.5
6325G5	Gray	#2	33.6
6326G5	Blue	#2	33.6
6327G5	Orange	#2	33.6
6328G5	Yellow	#2	33.6
6329G5	Red	#2	33.6
6325G6	Gray	#4	21.1
6326G6	Blue	#4	21.1
6327G6	Orange	#4	21.1
6328G6	Yellow	#4	21.1
6329G6	Red	#4	21.1

Housings Only

Part Number	Description
940	Gray
941	Blue
942	Orange
943	Yellow
949	Red
2-7252G11	Black, no voltage key

175 amp Contacts

Part Number	Description	Wire AWG	Wire sq. mm
944	Contact set (2)	1/0	53.5
1382	Individual	1/0	53.5
947	Contact set (2)	#2	33.6
1383	Individual	#2	33.6
948	Contact set (2)	#4	21.1
1384	Individual	#4	21.2
948G1*	Contact set (2)	#6	13.3
1348*	Individual	#6	13.3
944G1	Contact set (2)	#1	42.4
1347	Individual	#1	42.4
180BBS	Bus bar contact	N/A	N/A

3 Pole Housing & 175 amp Contacts

Part Number	Housing Color	Wire AWG	Wire sq. mm
6316	Gray	1/0	53.5
6316G9	Gray	#1	42.4
6316G10	Gray	#2	33.6

3 Pole Housing Only

Part Number	Description
902	Gray, springs & hardware

** Thin wall*
Note: For additional colors please contact customer service

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SB®175 Connector

ORDERING INFORMATION & DIMENSIONS

Accessories

Part Number	Description
995G1	Handle, hardware & lock washers - Gray
995G3	Handle, hardware & lock washers - Red
923	Manual release, locking half with clamps and hardware
924	Manual release, mounting half with clamps and hardware
110G56	Lock nut for use with Bus bar contact
SB175-lockout	Safety lockout
111197G1	Charger key
134G2	Dust cover
945	Cable clamps
945G3	Cable clamps-2 single conductor with hardware. Use with "A" frame only.
946G1	Cable clamps-1 twin conductor with hardware. Use with "A" frame only.

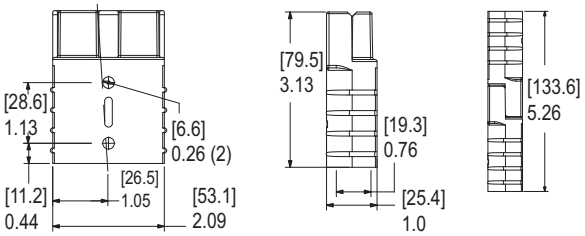
Bushings

Part Number	Description	Wire AWG	Wire sq. mm
5648	Use with 944	1/0 to #10	53.5 to 5.1
5663	Use with 944	1/0 to #6	53.5 to 13.3
5687	Use with 944	1/0 to #1	53.5 to 42.4
5690	Use with 944	1/0 to #2	53.5 to 33.6
5693	Use with 944	1/0 to #4	53.5 to 21.2

Tooling

Part Number	Description
1368	Hand tool for 1/0 to #1 (53.5/42.4)
1387G1	Pneumatic tool
1388G3	- die for 1/0 to #1 (53.5/42.4)
1388G5	- die for #4
1389G5	- locator for #4
1389G3	- locator for 1/0 to #1 (53.5/42.4)
1303G4	- die for 1/0 to #4 (53.5/21.1)
1304G4	- locator for 1/0 to #4 (53.5/21.1)

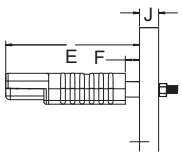
Housing



Bus Bar Mounting Table

Part Number	- E - mm	- E - in.	- F - mm	- F - in.
180BBS	88.9	3.50	10.2	0.40

Part Number	- J - mm	- J - in.
180BBS	5.0 -19.0	0.20 -0.75



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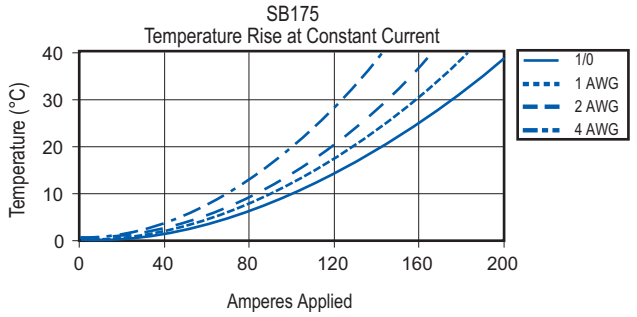
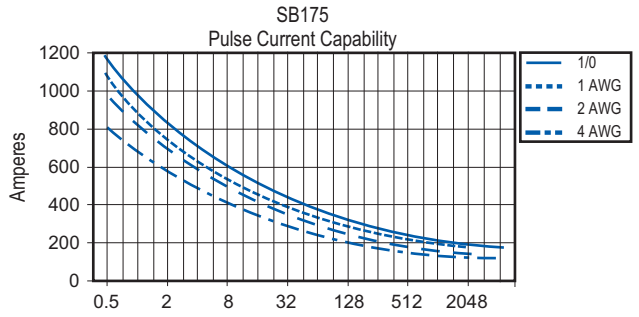
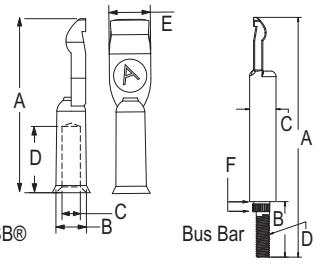




Contacts

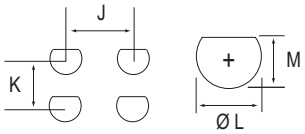
Part Number	-A- mm	-A- in.	-B- mm	-B- in.	-C- mm	-C- in.	-D- mm	-D- in.
944	59.7	2.35	13.1	0.52	11.1	0.44	27.4	1.08
947	59.7	2.35	13.1	0.52	8.9	0.35	27.4	1.08
948	59.7	2.35	13.1	0.52	7.5	0.30	25.9	1.02
944G1	59.7	2.35	13.1	0.52	9.9	0.39	27.4	1.08
948G1	53.3	2.10	9.3	0.37	11.7	0.46	21.3	0.84
180BBS	109.0	4.29	25.4	1.00	12.7	0.50	N/A	¼-20Thd.

Part Number	-E- mm	-E- in.	-F- mm	-F- in.
944	12.7	0.5	N/A	
947	12.7	0.5	N/A	
948	12.7	0.5	N/A	
944G1	12.7	0.5	N/A	
948G1	12.7	0.5	N/A	
180BBS	N/A		4.6	0.18



Bus Bar Layout

Part Number	- J - mm	- J - in.	- K - mm	- K - in.	- L - mm	- L - in.	- M - mm	- M - in.
180BBS	26.8	1.05	26.8(min)	1.05(min)	9.53	0.375	3.43	0.135



Mounting Dimensions

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SB®350 Connector

The innovative SB® connectors provide cost-effective reliability, design flexibility and safety for your products' manufacture, installation and maintenance.

APP's 2 pole connector is available with a 350 amp rating, 600 Volts continuous AC or DC operation. There are SB® connectors for many applications and wire sizes, 2/0 AWG to 300 mcm (67.4 to 152.0 mm²). Mechanical keys ensure connectors will only mate with connectors of the same color. Different color housings are selected to identify voltages, thus preventing mismatching of the power supply system.

FEATURES

• Mechanical keyed housings
Prevents accidental mating of components operating at different voltage levels

• Single-piece housing and unitized construction
Provides industrial quality and durability

• Genderless design
Makes assembly quick and easy and reduces number of parts stocked

PRODUCT SPECIFICATIONS

Connector Model	SB ®350
UL Current Rating (Amperes)*	350*
UL Voltage Ratings (Volts)	600*
Contact Barrel Wire Size (AWG) (mm²)	2/0 to 300 mcm 67.4 to 152.0
Maximum Wire Insulation Diameter (inches) (mm)	1.10 27.9
AVG Contact Resistance* (micro-ohms)	50
Insulation Withstanding Test Voltage (Volts AC/DC)	2200
Contact Retention Force (lbf)	500

Connector Model	SB ®350
Life	
a. No load (Contact/Disconnect Cycles)	To 10,000
b. Under Load (Hot Plug 250 cycles @ 120V)	100A
Avg. Connection/Disconnect (lbf)	30
Operating Temperature Range °C** °F	-20° to 105° -4° to 221°
Flammability Rating of Housing Material	UL94 V-0

RoHS COMPLIANT APP

** UL Rated for 65°C largest wire or cable size*
*** Contact factory for higher temperature rated connector*
SB®, UL and CSA Reference: This equipment is an Underwriters Laboratories Inc® recognized component. It is also listed by the Canadian Standards Association as certified.

ORDERING INFORMATION

2 Pole Housing & 350 amp Contacts

Part Number	Housing Color	Wire AWG	Wire sq. mm
6320G1	Gray	2/0	67.4
6320G2	Gray	4/0	107.2
6320G4	Gray	300 mcm	152.0
6320G5	Gray	3/0	85.0
6321G1	Blue	2/0	67.4
6321G2	Blue	4/0	107.2
6321G4	Blue	300 mcm	152.0
6321G5	Blue	3/0	85.0
6322G1	Red	2/0	67.4
6322G2	Red	4/0	107.2
6322G4	Red	300 mcm	152.0
6322G5	Red	3/0	85.0
6323G1	Yellow	2/0	67.4
6323G2	Yellow	4/0	107.2
6323G4	Yellow	300 mcm	152.0
6323G5	Yellow	3/0	85.0

2 Pole Housing & 350 amp Contacts continued

Part Number	Description	Wire AWG	Wire sq. mm
6324G1	Green	2/0	67.4
6324G2	Green	4/0	107.2
6324G4	Green	300 mcm	152.0
6324G5	Green	3/0	85.0
6400G1	Orange	2/0	67.4
6400G2	Orange	4/0	107.2
6400G4	Orange	300 mcm	152.0
6400G5	Orange	3/0	85.0

Housings Only

Part Number	Color
906	Gray
912	Blue
913	Red

housings continued

Part Number	Color
914	Yellow
931	Green
932	Orange

Contacts

Part Number	Description	Wire AWG	Wire sq. mm
917	Contact set (2)	1/0	53.5
907	Contact set (2)	2/0	67.4
916	Contact set (2)	3/0	85.0
908	Contact set (2)	4/0	107.2
910	Contact set (2)	300 mcm	152.0
350BBS	Bus bar contact	N/A	N/A

Note: For additional colors please contact customer service

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SB®350 Connector

ORDERING INFORMATION

Accessories

Part Number	Description
995G2	Handle & hardware-gray
995G4	Handle & hardware-red
919	Manual release-locking half-cable clamps, hardware & lock out spring for the battery
919G1	Mounting half-mounting half-hardware & lock out spring for battery
922G1	Mounting half-hardware for truck or charger
111197G1	Charger key
134G3	Dust cover
996G1	Cable clamps-2 single conductor with hardware
911	Cable clamps-2 single conductor, cables with hardware and steel handle
SB350-lockout	Safety lockout

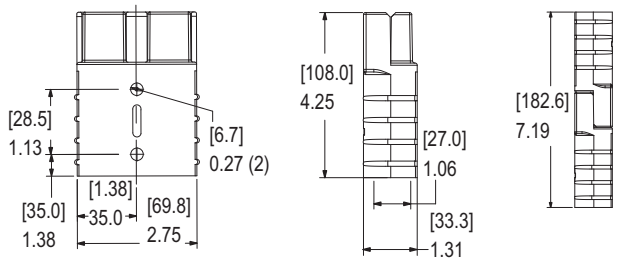
Bushings

Part Number	Description	Wire AWG	Wire sq. mm
5918	Use with 907	2/0 to 1/0	67.4 to 53.5

Tooling

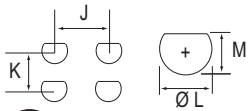
Part Number	Description
1368	Hand tool for 1/0 to 300 mcm
1387G1	Pneumatic tool
1387G2	Pneumatic tool
1388G2	- die for 2/0 to 3/0
1389G2	- locator for 2/0 to 3/0
1388G1	- die for 4/0
1389G1	- locator for 4/0
1304G9	- loctor for 4/0
1303G3	- die for 4/0

Housing



Bus Bar Layout

Part Number	- J - mm	in.	- K - mm	in.	- L- mm	in.	- M - mm	in.
350BBS	34.9	1.38	33.8(min)	1.33(min)	13.34	0.525	11.76	0.463



Mounting Dimensions

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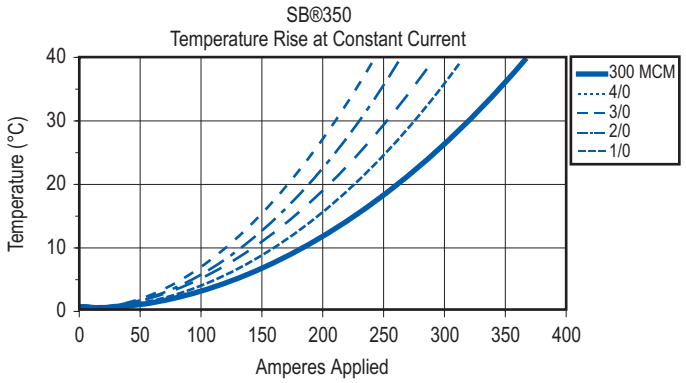
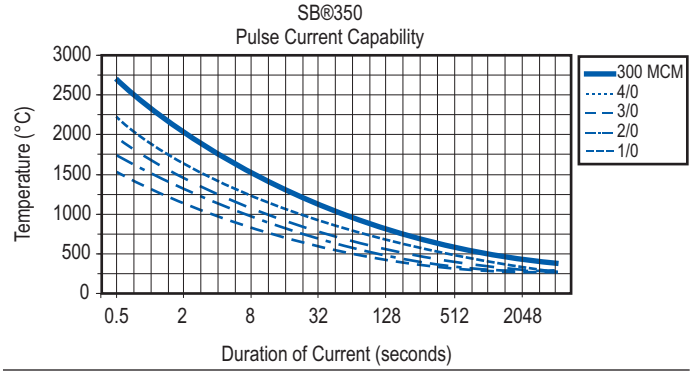
TEMPERATURE RISE CHART

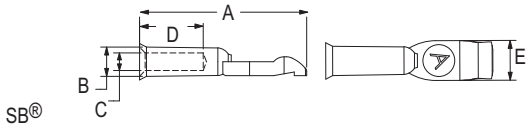


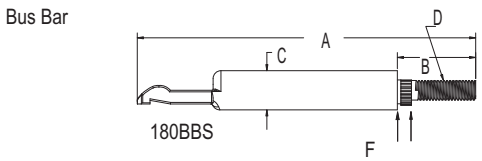


DIMENSIONS

SB® Contacts

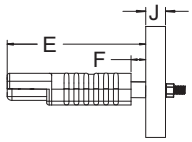
Part Number	-A- mm	in.	-B- mm	in.	-C- mm	in.	-D- mm	in	-E- mm	in.
907	75.1	2.96	16.3	0.64	12.4	0.49	32.8	1.29	20.6	0.81
908	75.1	2.96	19.1	0.75	16.3	0.64	32.8	1.29	20.6	0.81
910	73.9	2.91	22.2	0.87	19.1	0.75	32.5	1.28	20.6	0.81
916	75.1	2.96	17.9	0.7	14.7	0.58	32.8	1.29	20.6	0.81
917	73.9	2.91	13	0.51	11.1	0.44	31.8	1.25	20.6	0.81
350BBS	131.7	5.19	22.3	0.88	17.0	0.67	N/A	#3/8-19Thd.	2.5	0.10





Bus Bar Mounting Table

Part Number	- E - mm	in.	- F - mm	in.	- J - mm	in.
350BBS	113.0	4.45	5.1	0.20	3.0 -19.6	0.12 -0.77



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Connector Notes

For customer drawings, assembly instructions and individual data sheets, please visit www.andersonpower.com.

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FEATURES

• Finger proof
Helps prevent fingers (or probes) from accidentally touching live contacts. SBE®160 and SBE®320 connector meets EN1175 requirements

• Mechanical keyed housings
Prevents accidental mating of components operating at different voltage levels

• Auxiliary contacts
Provides ability to incorporate a secondary sensor control circuit

• Single-piece housing and unitized construction
Provides industrial quality and durability

• Optional air supply system
Supplies air to battery during charging

• Genderless design
Makes assembly quick and easy and reduces number of parts stocked

• UL94 V-0 housing material
Provides security in knowledge that the connector chosen meets strict UL flammability ratings

PRODUCT RANGE

UL Current Rating (Amperes)*	80 to 700*
UL Voltage Ratings (Volts)	150*
Contact Barrel Wire Size (AWG)	#6 to 300 mcm
(mm^2)	13.3 to 152.0
Maximum Wire Insulation Diameter (inches)	0.44 to 1.10
(mm)	11.18 to 27.94
AVG Contact Resistance* (micro-ohms)	200 to 50
Insulation Withstanding Test Voltage (Volts AC/DC)	2200
Contact Retention Force (lbf)	50 to 500
Life	
a. No load (Contact/Disconnect Cycles)	To 10,000
b. Under Load (Hot Plug250 cycles @ 120V)	60 to 100A*
Avg. Connection/Disconnect (lbf)	15 to 30
Operating Temperature Range °C**	-20° to 105°
°F	-4° to 221°
Flammability Rating of Housing Material	UL94 V-0

Recommended Voltage Key Color Code

Voltage	12V	18V	24V	36V	48V	72V	80V	96V	120V	144V
Color	Yellow	Orange	Red	Gray	Blue	Green	Black	Brown	Purple	White

RoHS COMPLIANT APP

** UL Rated for 65°C largest wire or cable size*
*** Contact factory for higher temperature rated connectors*

PRODUCT INFORMATION

Invented by Anderson Power Products®, the innovative SBE® connectors provide cost-effective reliability, design flexibility and safety for your products' manufacture, installation and maintenance. APP's 2 pole connectors are available for 80, 160, 320 and 700 amp ratings for use to 150 Volts continuous AC or DC operation. There are SBE® connectors for many applications and wire sizes, #6 (13.3mm²) to 300 mcm (152.0²mm). Mechanical keys ensure connectors will only mate with connectors of the same color. Different color housings are selected to identify voltages, thus preventing mismatching of the power supply system.

The housings are interchangeable, genderless interconnects. Insert contacts into housings and plug together for a clever, simple and low-cost solution to power interconnection.

Markets: UPS Systems, Telecommunications, Forklift Trucks, Wheelchairs, EV, Chargers, Power Electronics & Much More.

TÜV Rheinland BAUART GEPRÜFT TYPE APPROVED *SBE160 and SBE320*

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SBE®80 Connector

This connector is for hot-plug use at 60 amps. It contains recessed contacts and a ribbed nose housing, thus providing finger proofing in environments where human contact is a consideration. Available in different colors, this genderless connector is mechanically keyed to ensure connectors will only mate with connectors of the same color.

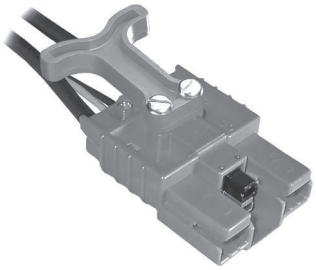
With the silver-plated copper contacts, there is a maximum connect/disconnect life of 10,000 cycles, with 150 volts continuous AC or DC operation. Accessories, such as integral cable clamp and handle, provide strain relief and ease of use.

FEATURES

• Meets UL 1950 finger probe test
Each half offers finger proofing and can be connected to two energized sources up to 150 volts AC/DC

• Auxiliary contacts
Provides additional poles up to 30 amps for auxiliary power, control or sensing

• Handle
Eases connector use and relieves unnecessary strain on cables when disconnecting



PRODUCT SPECIFICATIONS

Connector Model	SBE®80	Connector Model	SBE®80
Current rating (main contacts)	80	Insulation with standing test voltage (volts AC/DC)	1300
Largest wire size (AWG) (mm²)	#6 (60 amps) 16 (80 amps)	Maximum wire insulation diameter (inches) (mm)	0.44 11.2
Maximum operating voltage AC/DC	150	Contact retention force (lbf)	50
Contact material	Silver plated copper	Life:	
Operating temperature range °C °F	-20° to 105° -4° to 221°	a. No load (connect/disconnect cycles) b. Under load (hot plug 250 cycles @ 120V)	To 10,000 60A
Flammability rating of housing material	UL94 V-0		
AVG contact resistance* (microhoms)	200		

RoHS COMPLIANT APP

**UL rated for 65 °C largest wire or cable size*

ORDERING INFORMATION

Housing Only

Part Number	Housing Color
SBE80RED	Red
SBE80YEL	Yellow
SBE80ORN	Orange
SBE80WHT	White

Contacts

Part Number	Description	Wire AWG	Wire sq. mm
1339G1	Contact set (2)	#6	16

Bushings

Part Number	Description	Wire AWG	Wire sq. mm
5912	Use with 1339G1	#6 to #8	16 to 8.4
5910	Use with 1339G1	#6 to #10/12	16 to 5.3 / 3.3

Cable Clamp & Hardware

Part Number	Housing Color
SBE80CLPRED	Red

Handle/Hardware & Accessories

Part Number	Description
SBE80HDLRED	Red housing
6344	Auxiliary contact kit

Housing, Contacts, Handle, Clamp & Hardware

Part Number	Housing Color
SBE80RED16MMHDL	Red

Tooling

Part Number	Description
1309G4	Hand tool
1387G1	Pneumatic tool
1388G6	- die for #6 AWG/16 mm
1389G9	- locator for #6 AWG/16 mm

Note: For additional colors please contact customer service

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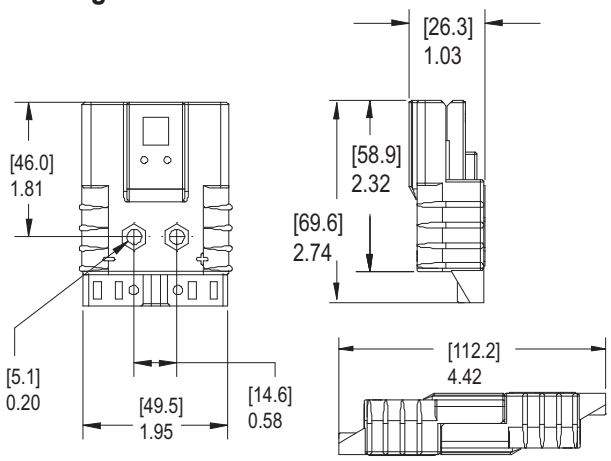
DIMENSIONS

Housing



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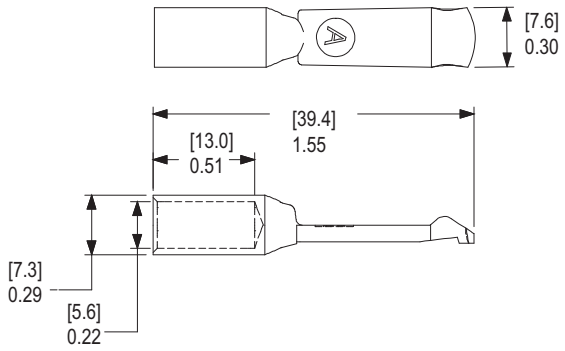
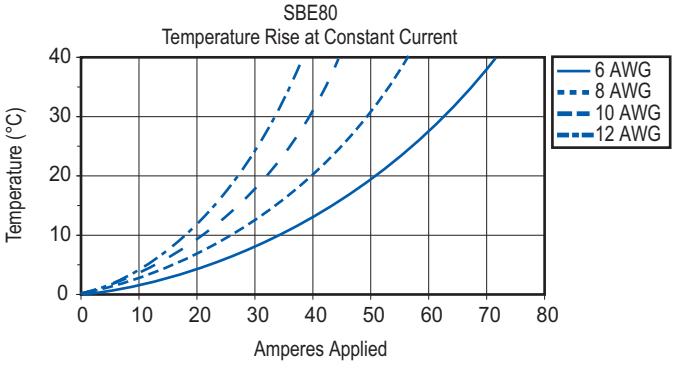


TEMPERATURE RISE CHART



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SBE®160 Connector

The innovative SBE® connectors provide cost-effective reliability, design flexibility and safety for your products' manufacture, installation and maintenance.

APP's 2 pole connector is available with a 160 amp rating, 150 Volts continuous AC or DC operation. There are SBE® connectors for many applications and wire sizes, 1/0 or 35 mm. Mechanical keys ensure connectors will only mate with connectors of the same color. Different color housings are selected to identify voltages, thus preventing mismatching of the power supply system.

FEATURES

• Finger proofing
Helps prevent fingers (or probes) from accidentally touching live contacts. SBE®160 connector meets EN1175 requirements.

• Auxiliary contacts
Provides ability to incorporate a secondary sensor control circuit

• Optional air supply system
Supplies air to battery during charging

PRODUCT SPECIFICATIONS

Connector Model	SBE ®160	Connector Model	SBE ®160
UL Current Rating (Amperes)*	160*	Life	
		a. No load (Contact/Disconnect Cycles)	To 10,000
UL Voltage Ratings (Volts)	150*	b. Under Load (Hot Plug 250 cycles @ 120V)	75A
Contact Barrel Wire Size (AWG)	1/0 or 35 mm	Avg. Connection/Disconnect (lbf)	25
Maximum Wire Insulation Diameter (inches)	0.75	Operating Temperature Range °C**	-20° to 105°
(mm)	19.1	°F	-4° to 221°
AVG Contact Resistance* (micro-ohms)	100	Flammability Rating of Housing Material	UL94 V-0
Insulation Withstanding Test Voltage (Volts AC/DC)	1300	RoHS COMPLIANT APP	
Contact Retention Force (lbf)	300		

** UL Rated for 65°C largest wire or cable size*
*** Contact factory for higher temperature rated connector*

ORDERING INFORMATION

2 Pole Housing, 160 amp Contacts, & Auxiliary Contacts

Part Number	Housing Color	Wire sq. mm
E6370G2	Gray	35
E6371G2	Blue	35
E6372G2	Orange	35
E6373G2	Yellow	35
E6378G2	Red	35
E6387G2	Green	35
E6388G2	Black	35

2 Pole Housing & Contacts

Part Number	Housing Color	Wire sq. mm
E6374G2	Gray	35
E6375G2	Blue	35
E6376G2	Orange	35
E6377G2	Yellow	35

2 pole housing & contacts continued

Part Number	Housing Color	Wire sq. mm
E6379G2	Red	35
E6391G2	Green	35
E6389G2	Black	35

Housings Only

Part Number	Color
E6380G1	Gray
E6381G1	Blue
E6382G1	Orange
E6383G1	Yellow
E6385G1	Red
E6390G1	Green
E6392G1	Black

Contacts

Part Number	Description	Wire AWG	Wire sq. mm
6384G2	Contact set (2)	N/A	35
6384G1	Contact set (2)	1/0	53.5

Accessories

Part Number	Description
6344	Auxiliary contact kit
6337G1	Charger key
995G1	Handle with hardware"A" frame
993G2	Manual release-battery bracket with hardware
994G2	Manual release-charger/truck bracket with hardware
945G2	Cable clamps-use alone with manual release or "A" frame handle
Pin/tube kit	
6367G1	#16/12(1.31/3.31mm)-for battery-pin
6366G2	#16/12(1.31/3.31mm)-for charger & truck-tube

Note: For additional colors please contact customer service

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ORDERING INFORMATION

accessories continued

Bushings

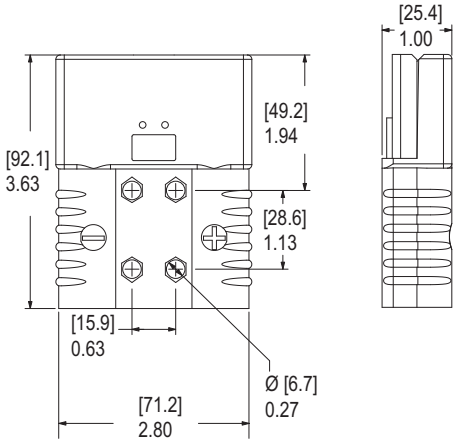
Part Number	Description	Wire AWG	Wire sq. mm
5687	For use with 6384G1	1/0 to #1	53.5 to 42.4
5690	For use with 6384G1	1/0 to #2	53.5 to 33.6
5693	For use with 6384G1	1/0 to #4	53.5 to 21.2
5663	For use with 6384G1	1/0 to #6	53.5 to 13.3
5648	For use with 6384G1	1/0 to #10	53.5 to 5.3
5920	For use with 6384G2	N/A	35mm to 16mm

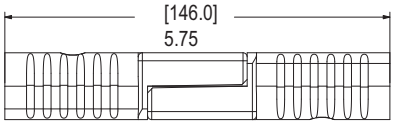
Tooling

Part Number	Description
969P1	Extraction tool-insulatd handle
111038G2	Contact insertion/extraction tool for auxiliary contact kit
1368	Hand tool for 1/0 to 35mm (53.5/35)
1387G1	Pneumatic tool
1388G3	- die for 1/0 to #10 (53.5/5.26)
1389G3	- locator for 1/0 to #10 (53.5/5.26)
1387G2	- Pneumatic tool
1303G4	- die for #4 (21.1)
1304G4	- locator for #4 (21.1)

DIMENSIONS

Housing





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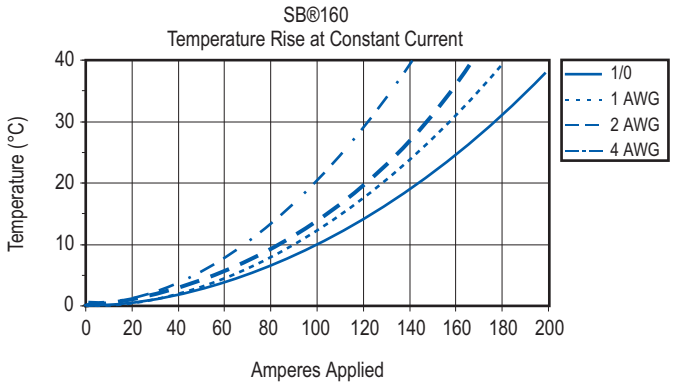
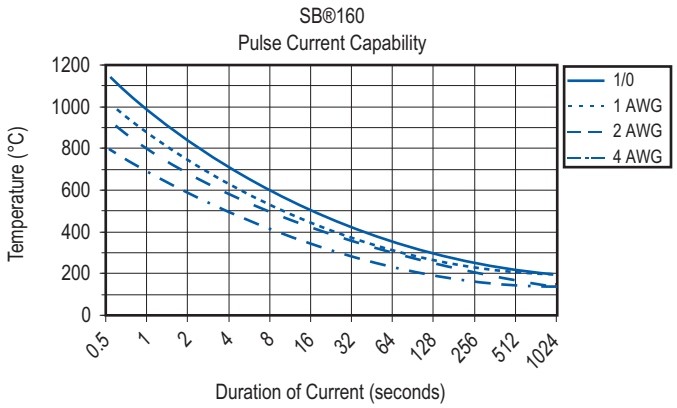
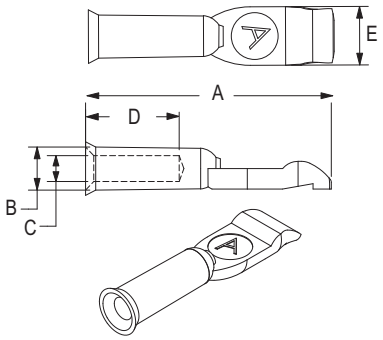




Contacts

	-A-		-B-		-C-		-D-		-E-	
	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.
6384G1	59.2	2.33	13.1	0.52	11.1	0.44	20.7	0.82	12.7	0.50
6384G2	59.2	2.33	13.1	0.52	9.5	0.38	20.7	0.82	12.7	0.50



TÜV Rheinland BAUART GEPRÜFT TYPE APPROVED
c UL us File No. E26226
All Data Subject To Change Without Notice

SBE®320 Connector

The innovative SBE® connectors provide cost-effective reliability, design flexibility and safety for your products' manufacture, installation and maintenance.

APP's 2 pole connector is available with a 320 amp rating, 150 Volts continuous AC or DC operation. There are SBE® connectors for many applications and wire sizes, 2/0 to 300 mcm (67.4 to 152.0 mm²). Mechanical keys ensure connectors will only mate with connectors of the same color. Different color housings are selected to identify voltages, thus preventing mismatching of the power supply system.

FEATURES

- **Genderless design**
  Makes assembly quick and easy and reduces number of parts stocked
- **Auxiliary contacts**
  Provides ability to incorporate a secondary circuit
- **Air supply system**
  Supplies air to battery during charging

PRODUCT SPECIFICATIONS

Connector Model	SBE ®320
UL Current Rating (Amperes)*	320*
UL Voltage Ratings (Volts)	150*
Contact Barrel Wire Size (AWG)	2/0 to 300 mcm
(mm²)	67.4 to 152
Maximum Wire Insulation Diameter (inches)	1.10
(mm)	27.9
AVG Contact Resistance* (micro-ohms)	50
Insulation Withstanding Test Voltage (Volts AC/DC)	1300
Contact Retention Force (lbf)	500

Connector Model	SBE ®320
Life	
a. No load (Contact/Disconnect Cycles)	To 10,000
b. Under Load (Hot Plug 250 cycles @ 120V)	100A*
Avg. Connection/Disconnect (lbf)	30
Operating Temperature Range °C**	-20° to 105°
°F	-4° to 221°
Flammability Rating of Housing Material	UL94 V-0

RoHS COMPLIANT APP

** UL Rated for 65°C largest wire or cable size*
*** Contact factory for higher temperature rated connector*

ORDERING INFORMATION

2 Pole Housing & 320 amp Contacts

Part Number	Housing Color	Wire AWG	Wire sq. mm
E6334G1	Brown	2/0	67.4
E6334G2	Brown	3/0	85.0
E6334G6	Brown	#2	33.6
E6335G1	Purple	2/0	67.4
E6335G2	Purple	3/0	85.0
E6335G6	Purple	#2	33.6
E6345G1	Gray	2/0	67.4
E6345G2	Gray	3/0	85.0
E6345G6	Gray	#2	33.6
E6346G1	Blue	2/0	67.4
E6346G2	Blue	3/0	85.0
E6346G6	Blue	#2	33.6
E6347G1	Red	2/0	67.4
E6347G2	Red	3/0	85.0
E6347G6	Red	#2	33.6
E6348G1	Green	2/0	67.4
E6348G2	Green	3/0	85.0
E6348G6	Green	#2	33.6
E6363G1	Black	2/0	67.4
E6363G2	Black	3/0	85.0
E6363G6	Black	#2	33.6

2 pole housing & 320 amp contacts continued

Part Number	Housing Color	Wire AWG	Wire sq. mm
E6364G1	Yellow	2/0	67.4
E6364G2	Yellow	3/0	85.0
E6364G6	Yellow	#2	33.6
E6369G1	Orange	2/0	67.4
E6369G2	Orange	3/0	85.0
E6369G6	Orange	#2	33.6

2 Pole Housing, Contacts & Auxiliary Contacts

Part Number	Housing Color	Wire AWG	Wire sq. mm
E6332G1	Brown	2/0	67.4
E6332G2	Brown	3/0	85.0
E6332G6	Brown	N/A	35.0
E6333G1	Purple	2/0	67.4
E6333G2	Purple	3/0	85.0
E6333G6	Purple	N/A	35.0
E6340G1	Gray	2/0	67.4
E6340G2	Gray	3/0	85.0

2 pole housing, contacts & auxiliary contacts continued

Part Number	Housing Color	Wire AWG	Wire sq. mm
E6340G6	Gray	N/A	35.0
E6341G1	Blue	2/0	67.4
E6341G2	Blue	3/0	85.0
E6341G6	Blue	N/A	35.0
E6342G1	Red	2/0	67.4
E6342G2	Red	3/0	85.0
E6342G6	Red	N/A	35.0
E6343G1	Green	2/0	67.4
E6343G2	Green	3/0	85.0
E6343G6	Green	N/A	35.0
E6359G1	Black	2/0	67.4
E6359G2	Black	3/0	85.0
E6359G6	Black	N/A	35.0
E6360G1	Yellow	2/0	67.4
E6360G2	Yellow	3/0	85.0
E6360G6	Yellow	N/A	35.0
E6368G1	Orange	2/0	67.4
E6368G2	Orange	3/0	85.0
E6368G6	Orange	N/A	35.0

Note: For additional colors please contact customer service

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ORDERING INFORMATION

Housings Only

Part Number	Color
E6350	Gray
E6351	Blue
E6350	Gray
E6351	Blue
E6352	Red
E6353	Green
E6361	Black
E6362	Yellow
E6339	Orange
E6336	Brown
E6349	Purple

Contacts

Part Number	Description	Wire AWG	Wire sq. mm
6354	Contact set (2)	2/0	67.4
6355	Contact set (2)	3/0	85.0
6356	Contact set (2)	4/0	107.2
6394	Contact set (2)		35.0
1341G1	DIN standard		50.0
1341G2	DIN standard		70.0
1341G3	DIN standard		95.0

Bushings

Part Number	Description	Wire AWG	Wire sq. mm
5687	For use with 6354 contact & 5918 bushing	1/0 to #1	53.5 to 42.4
5690	For use with 6354 contact & 5918 bushing	1/0 to #2	53.5 to 33.6
5693	For use with 6354 contact & 5918 bushing	1/0 to #4	53.5 to 21.2
5663	For use with 6354 contact & 5918 bushing	1/0 to #6	53.5 to 13.3
5648	For use with 6354 contact & 5918 bushing	1/0 to #10	53.5 to 5.3
5918	For use with 6354 contact	2/0 to 1/0	67.43 to 53.5
5920	For use with 6394 contact	N/A	35 to 16mm

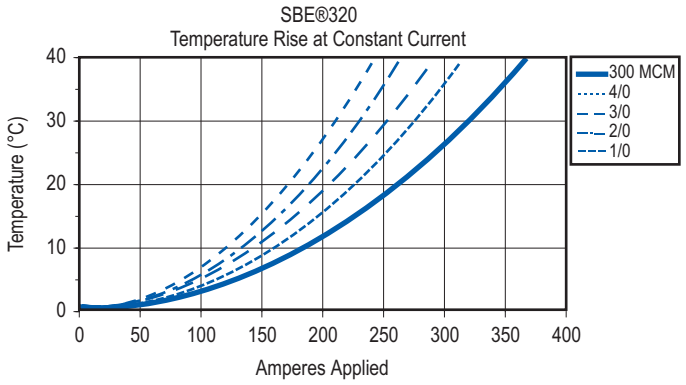
Accessories

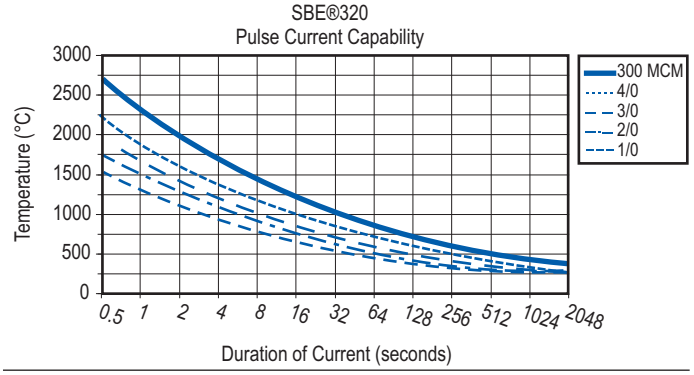
Part Number	Description
6367G1	Pin kit #16/12 (1.31/3.31mm)-for battery
6366G2	Tube kit #16/12 (1.31/3.31mm)-for charger & truck
6337G1	Charger key
995G2	Handle with hardware"A" frame
993G1	Manual release-battery bracket with hardware
994G1	Manual release-charger/truck bracket with hardware
911G2	Cable clamps-use alone with manual release or "A" frame handle
6305G1	Auxiliary contact kit with contact part number 1331
6310G1	Auxiliary contact kit with contact part number 1332

Tooling

Part Number	Description
970P1	Extraction tool-insulatd handle
111038G2	Contact insertion/extraction tool for auxiliary contact kit
1368	Hand tool for 1/0 to 95mm (53.5/95)
1387G1	Pneumatic tool
1387G2	Pneumatic tool
1388G2	- die for 2/0 to 4/0 (53.5/107.2)
1388G9	- die for 35mm
1389G2	- locator for 2/0 to 4/0 (53.5/107.2)
1303G7	- die for 70mm
1303G8	- die for 50mm
1304G7	- locator for70mm
1304G8	- locator for 50mm

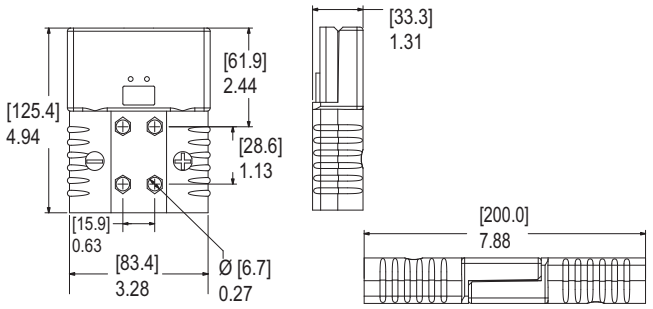
TEMPERATURE RISE CHART





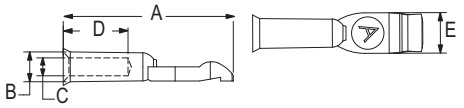
DIMENSIONS

Housing



Contacts

	-A- mm	-A- in.	-B- mm	-B- in.	-C- mm	-C- in.	-D- mm	-D- in.	-E- mm	-E- in.
6354	78.2	3.08	16.3	0.64	12.4	0.49	32.8	1.29	20.6	0.81
6355	78.2	3.08	17.9	0.70	14.7	0.58	31.2	1.23	20.6	0.81
6356	78.2	3.08	19.1	0.75	16.3	0.64	32.5	1.28	20.6	0.81
6394	78.2	3.08	13.0	0.51	9.5	0.38	32.3	1.27	20.6	0.81
1341G1	67.3	2.65	14.5	0.57	10.9	0.43	20.7	0.82	20.6	0.81
1341G2	69.6	2.74	17.3	0.68	13.0	0.51	20.7	0.82	20.6	0.81
1341G3	73.4	2.89	19.8	0.78	15.0	0.59	24.6	0.97	20.6	0.81



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SBE®700 Connector

The SBE 700 connector is UL listed and certified to meet EPRI Conductive Fast Charge Connector specifications, with a continuous current capacity of 700 amperes. The SBE 700 allows the use of a single connector to meet the tough demands of high current traction battery rapid charging.

Rugged and durable, the connector is capable of 10,000 mating cycles. The SBE 700 connector is keyed and touch safe offering improved user safety. The integrated non-metallic cable clamp further improves user safety by restricting cable insulation creep and increases the ruggedness of the connector/cable assembly. Up to ten optional auxiliary contacts are also available for sensing and communications.

The SBE 700 is designed and manufactured to the same high standards and stringent specifications that have made APP the leader in high power connectors.

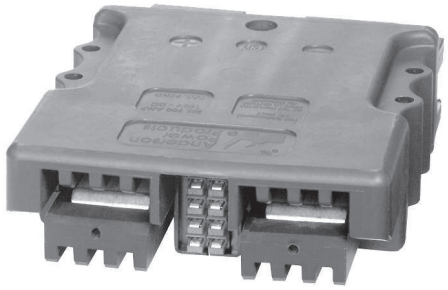
FEATURES

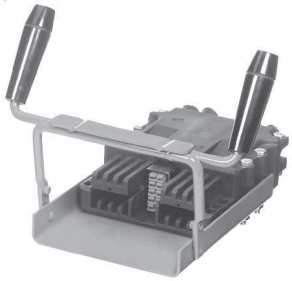
• 700 amp continuous current
The SBE 700 eliminates the need for more than one connector to achieve high current charging

• Up to ten optional auxiliary contacts
Provide sensing and communications circuits for any battery charging/monitoring system

• Field replaceable power contacts utilize industry standard cables
Tool removable, crimp contacts use 250 MCM or 4/0 cables eliminating high cost specialty cables

• Touch safe, keyed design
The connector body prevents inadvertent touching of the main power contacts. Connector specific keying can be ordered to insure only matching connectors can be mated





PRODUCT SPECIFICATIONS

Power Contacts	
Number of High Current Contacts	2
Contact Barrel Size (AWG or MCM) (flexible Stranded Class I, K, M, Types W or EV)	2 x 4/0 = 600amp 2 x 250MCM = 700 amp
UL Current Rating (amperes DC)*	700
Contact to Wire Retention Force (lbf)	250
Life at No Load (Contact Connect/Disconnect Cycles)	10,000
Finger proof	UL 1977

Complete Unit	
Voltage Rating (volts DC)	150
Insulation Withstanding Test Voltage (volts DC)	1300
Operating Temperature Range °C	-40° to 120°
Temperature Rise at Nominal Load °C	50
Average Insertion/extraction Force (lbf. with handle)	30
Flammability Rating of Housing Material	PBT, UL94 HB

Signal / Auxiliary Contacts	
Number of Signal/Auxiliary Contacts (Powerpole and/or Pin & Socket)	0 to 10
Contact Wire Size (AWG)	10 to 20
Contact Wire Size (mm²)	4 to .5
Contact Current Rating (amperes DC)	30
Control pilot delay vs. power contacts (millisecond)	35
Contact housing retention force (lbf)	25
Life at No Load (Contact Connect/Disconnect Cycles)	10,000

RoHS COMPLIANT APP

** For largest wire or cable size.*

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SBE®700 Connector

ORDERING INFORMATION

Connectors

Part Number	Description
700G1	700A housing, contacts, and clamp
707G1	700A housing, contacts, clamp, and release lever & bracket for battery connector
708G1	700A housing, contacts. clamp, and latch plate for truck/charger connector
709G1	700A housing, contacts, clamp, release lever & bracket for battery connector and auxiliary housing
710G1	700A contacts, clamp, latch plate for truck/charger connector and auxiliary housing

Components

Part Number	Description
702G1	Housing only
703G1	Auxiliary contact housing only (ten auxiliary connectors and/or spacers needed to fill auxiliary housing)
704G1	Cable Clamp only
705G1	Release lever & bracket for battery connector (mates with 706G1)
706G1	Latch plate for truck/charger connector (mates with 705G1)
6170G1	700A Contact Set
5954	Bushing 4/0 AWG (107.2 mm)

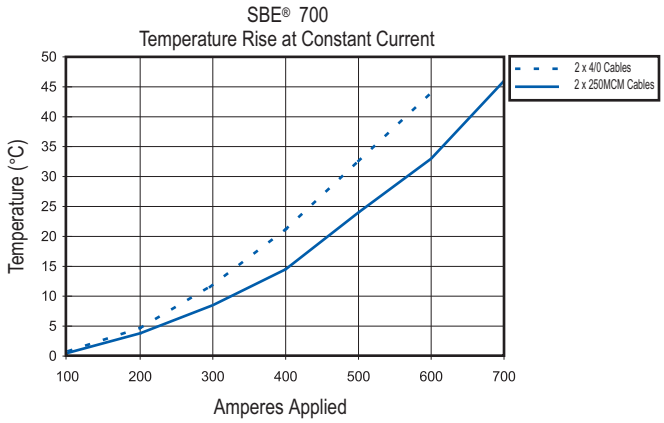
Powerpole® Auxiliary Connectors

Part Number	Description
1327	Red housing
1327G5	Green housing
1327G6	Black housing
1327G7	White housing
1327G8	Blue housing
1327G16	Yellow housing
1327G17	Orange housing
1327G18	Gray housing
1327G21	Brown housing
1327G22	Pink housing
1327G23	Purple housing
1399G6	Red short spacer without hole
1331	30 amp contact 12/16 AWG (3.3/1.3 mm)
1332	15 amp contact 16/20 AWG (1.3/.52 mm)

Tooling

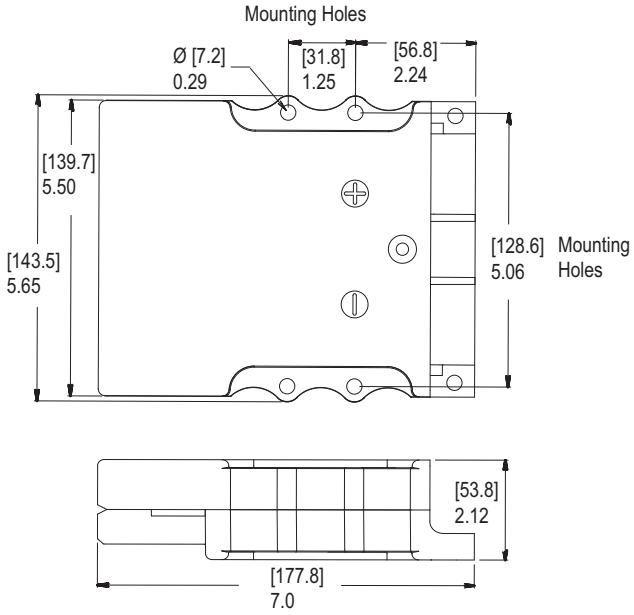
Part Number	Description
Y750	Hydraulic Crimp Tool - FCI Burndy
U34RT	Crimp Die - FCI Burndy
1309G2	Hand tool for auxiliary contacts
1367G1	Pneumatic tool for auxiliary contacts

TEMPERATURE RISE CHART

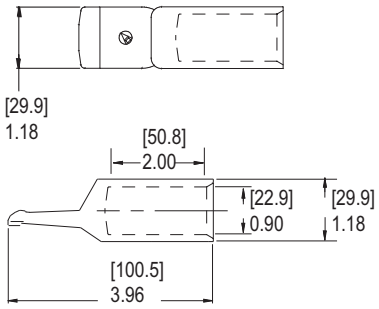


DIMENSIONS

Housing



Contact



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Anderson Power Products

Connector Notes

For customer drawings, assembly instructions and individual data sheets, please visit www.andersonpower.com.

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FEATURES

• Auxiliary contacts
Provides additional poles up to 30 amps for auxiliary power, control or sensing

• Meets UL 1950 finger probe test
Each half offers finger proofing and can be connected to two energized sources up to 600 volts AC/DC

• Handle
Eases connector use and relieves unnecessary strain on cables when disconnecting

• Mechanical keyed housings
Prevents accidental mating of components operating at different voltage levels

• Genderless design
Makes assembly quick and easy and reduces number of parts stocked

• Flat wiping contact system
Allows for minimal contact resistance at high current, wiping action cleans contact surface during disconnection

• UL approved for current interrupt
Safe for "Hot Plug" of battery power

• UL94 V-0 housing material
Provides security in knowledge that the connector chosen meets strict UL flammability ratings

PRODUCT RANGE

UL Current Rating (Amperes)*	60
Contact Barrel Wire Size (AWG)	#6
(mm²)	16
Maximum Wire Insulation Diameter (inches)	0.44
(mm²)	11.12
AVG Contact Resistance* (micro-ohms)	200
Insulation Withstanding Test Voltage (Volts AC/DC)	2200
Contact Retention Force (lbf)	50 to 500
Life	
a. No load (Contact/Disconnect Cycles)	To 10,000
b. Under load (hot plug 250 cycles @ 120V)	60A
Operating Temperature Range °C	-20° to 105°
°F	-4° to 221°
Flammability Rating of Housing Material	UL94 V-0

RoHS COMPLIANT APP

**UL rated for 65°C largest wire or cable size*

PRODUCT INFORMATION

Anderson Power Products (APP), a leader in interconnect solutions, offers the highly durable SBO60 multipole connector. The new genderless SBO60 power connector contains recessed contacts and a ribbed nose housing, providing finger proofing in environments where human contact is a consideration.

The SBO60 connector's single piece housing provides industrial quality and durability for hot pluggable demands. The 4-pole SBO60 connector offers a V0 rating and is available in different colors, while being mechanically keyed to ensure connectors will only mate with connectors of the same color. The different color housings indicate different voltages.

The compact SBO60 has silver-plated copper contacts, offering a maximum connect/disconnect life of 10,000 cycles in AC/DC applications. SBO60 connectors are designed to have a self-wiping action which assures greater conductivity and longer life. Additionally, SBO60 connectors feature auxiliary contacts allowing two additional poles of up to 30 amps capability to be used for auxiliary power, control, or sensing.

APP's SBO60 is a fully insulated 60 amp connector designed for applications requiring high-current power connections to an AC or DC source up to 600 volts. The SBO60 has applications in: Office Settings, UPS Battery Backup Systems, Telecommunications, Medical, Electrical, Electronic and Electric Vehicles.

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SBO®60 Connector

The SBO®60 connector is for hot-plug use at 60 amps. It contains recessed contacts and a ribbed nose housing, thus providing finger proofing in environments where human contact is a consideration. Available in different colors, this genderless connector is mechanically keyed to ensure connectors will only mate with connectors of the same color.

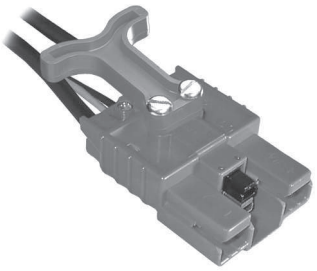
With the silver-plated copper contacts, there is a maximum connect/disconnect life of 10,000 cycles, with a 600 volts continuous AC or DC operation. Accessories, such as integral cable clamp and handle, provide strain relief and ease of use.

FEATURES

• Auxiliary contacts
Provides additional poles up to 30 amps for auxiliary power, control or sensing

• Meets UL 1950 finger probe test
Each half offers finger proofing and can be connected to two energized sources up to 600 volts AC/DC

• Handle
Eases connector use and relieves unnecessary strain on cables when disconnecting



PRODUCT SPECIFICATIONS

Connector Model	SBO®60	Connector Model	SBO®60
Current rating (main contacts)	60	Insulation with standing test voltage (volts AC/DC)	2200
Largest wire size (AWG)	#6	Maximum wire insulation diameter (inches)	0.44
(mm²)	16	(mm)	11.2
Maximum operating voltage AC/DC	600	Contact retention force (lbf)	50
Contact material	Silver plated copper	Life:	
Operating temperature range °C	-20° to 105°	a. No load (connect/disconnect cycles)	10,000
°F	-4° to 221°	b. Under load (hot plug 250 cycles @ 120V)	60A
Flammability rating of housing material	UL94 V-0		
AVG contact resistance* (microhoms)	200		

RoHS COMPLIANT APP

*UL rated for 65°C largest wire or cable size

ORDERING INFORMATION

Housing Only

Part Number	Housing Color
SBO60RED	Red
SBO60YEL	Yellow
SBO60ORN	Orange
SBO60WHT	White

Contacts

Part Number	Description	Wire AWG	Wire sq. mm
1339G1	Contact set (2)	#6	16

Bushings

Part Number	Description	Wire AWG	Wire sq. mm
5912	Use with 1339G1	#6 to #8	16/8.4
5910	Use with 1339G1	#6 to #10/12	16 to 5.3/3.3

Cable Clamp & Hardware

Part Number	Housing Color
SBO60CLPRED	Red

Handle/Hardware & Accessories

Part Number	Description
SBO60HDLRED	Red housing
6344	Auxiliary contact kit

Housing, Contacts, Handle, Clamp & Hardware

Part Number	Housing Color
SBO60RED16MMHDL	Red
SBO60YEL16MMHDL	Yellow
SBO60ORN16MMHDL	Orange
SBO60WHT16MMHDL	White

Tooling

Part Number	Description
1309G4	Hand tool
1387G1	Pneumatic tool
1388G6	- die for #6 AWG/16 mm
1389G9	- locator for #6 AWG/16 mm

Note: For additional colors please contact customer service

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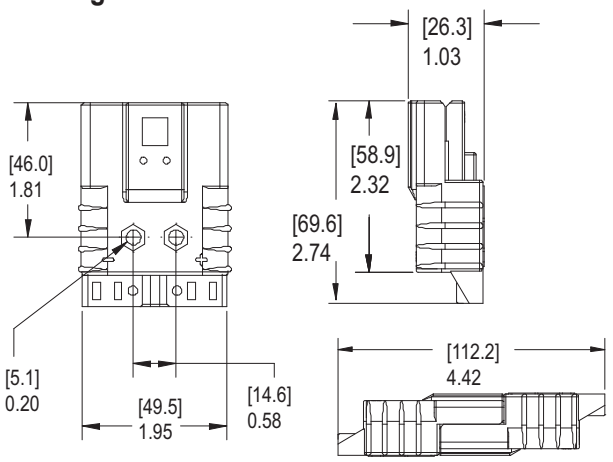
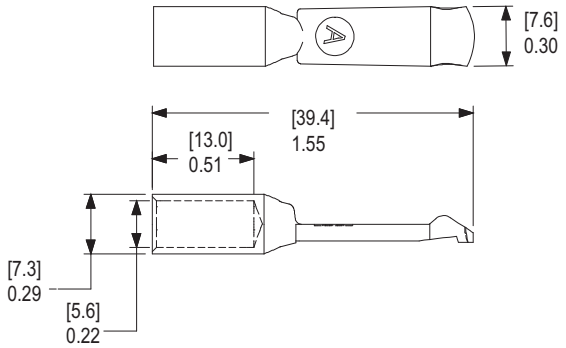
DIMENSIONS

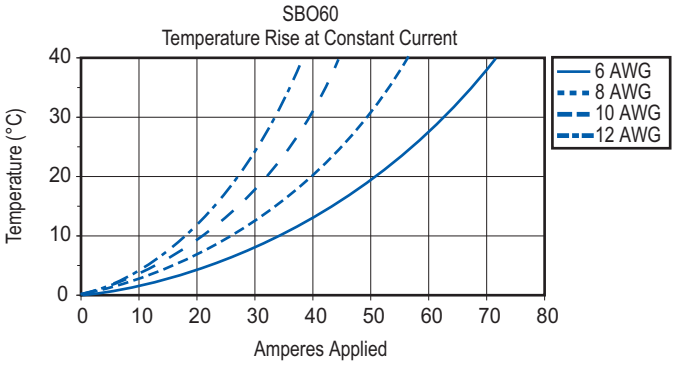
Housing



Contacts



TEMPERATURE RISE CHART



Anderson Power Products

Connector Notes

For customer drawings, assembly instructions and individual data sheets, please visit www.andersonpower.com.

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FEATURES

• Mechanical keyed housings
Prevents accidental mating of components operating at different voltage levels

• Auxiliary contacts
Provides ability to incorporate a secondary sensor control circuit

• Single-piece housing and unitized construction
Provides industrial quality and durability

• Optional air supply system
Supplies air to battery during charging

• Genderless design
Makes assembly quick and easy and reduces number of parts stocked

• Optional mechanical release
Aids mating and unmating for high cycle battery charging

• UL94 V-0 housing material
Provides security in knowledge that the connector chosen meets strict UL flammability ratings

PRODUCT RANGE

UL Current Rating (Amperes)*	175 to 350*
UL Voltage Ratings (Volts)	600*
Contact Barrel Wire Size (AWG)	1/0 to 300 mcm
(mm^2)	53.5 to 152
Maximum Wire Insulation Diameter (inches)	0.75 to 1.10
(mm)	19.1 to 27.9
AVG Contact Resistance* (micro-ohms)	100 to 50
Insulation Withstanding Test Voltage (Volts AC/DC)	2200
Contact Retention Force (lbf)	300 to 500
Life	
a. No load (Contact/Disconnect Cycles)	To 10,000
b. Under Load (Hot Plug250 cycles @ 120V)	75A to 100A*
Avg. Connection/Disconnect (lbf)	25 to 30
Operating Temperature Range °C**	-20° to 105°
Flammability Rating of Housing Material	UL94 V-0

Recommended Voltage Key Color Code

Voltage	12V	18V	24V	36V	48V	72V	80V	96V	120V	144V
Color	Yellow	Orange	Red	Gray	Blue	Green	Black	Brown	Purple	White

RoHS COMPLIANT APP

** UL Rated for 65°C largest wire or cable size*
*** Contact factory for higher temperature rated connectors*

PRODUCT INFORMATION

Invented by Anderson Power Products®, the innovative SBX® connectors provide cost-effective reliability, design flexibility and safety for your products' manufacture, installation and maintenance. APP's 2 pole connectors are available for 175 and 350 amp ratings for use to 600 Volts continuous AC or DC operation. There are SBX® connectors for many applications and wire sizes, 1/0 (53.5mm^2) to 300 mcm (152mm^2). Mechanical keys ensure connectors will only mate with connectors of the same color. Different color housings are selected to identify voltages, thus preventing mismatching of the power supply system.

The housings are interchangeable, genderless interconnects. Insert contacts into housings and plug together for a clever, simple and low-cost solution to power interconnection.

Markets: UPS Systems, Telecommunications, Forklift Trucks, Wheelchairs, EV, Chargers, Power Electronics & Much More.

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SBX®175 Connector

The innovative SBX® connectors provide cost-effective reliability, design flexibility and safety for your products' manufacture, installation and maintenance.

APP's 2 pole connector is available with a 175 amp rating, 600 Volts continuous AC or DC operation. There are SBX® connectors for many applications and wire sizes, 1/0 or 35 mm. Mechanical keys ensure connectors will only mate with connectors of the same color. Different color housings are selected to identify voltages, thus preventing mismatching of the power supply system.

FEATURES

• Mechanical keyed housings
Prevents accidental mating of components operating at different voltage levels

• Auxiliary contacts
Provides ability to incorporate a secondary sensor control circuit

• Optional mechanical release
Aids mating and unmating for high cycle battery charging

PRODUCT SPECIFICATIONS

Connector Model	SBX ®175	Connector Model	SBX ®175
UL Current Rating (Amperes)*	175*	Life a. No load (Contact/Disconnect Cycles) b. Under Load (Hot Plug 250 cycles @ 120V)	 To 10,000 75A
UL Voltage Ratings (Volts)	600*		
Contact Barrel Wire Size	1/0 to 35 mm	Avg. Connection/Disconnect (lbf)	25
Maximum Wire Insulation Diameter (inches) (mm)	0.75 19.1	Operating Temperature Range °C** °F	-20° to 105° -4° to 221°
Maximum Wire Insulation Diameter		Flammability Rating of Housing Material	UL94 V-0
AVG Contact Resistance* (micro-ohms)	100		
Insulation Withstanding Test Voltage (Volts AC/DC)	2200		
Contact Retention Force (lbf)	300		

** UL Rated for 65°C largest wire or cable size*
*** Contact factory for higher temperature rated connector*

ORDERING INFORMATION

2 Pole Housing, 175 amp Contacts, & Auxiliary Contacts

Part Number	Housing Color	Wire AWG	Wire sq. mm
6370G1	Gray	1/0	53.5
6371G1	Blue	1/0	53.5
6372G1	Orange	1/0	53.5
6373G1	Yellow	1/0	53.5
6378G1	Red	1/0	53.5
6387G1	Green	1/0	53.5
6378G2	Red	35	-
6387G2	Green	35	-
6370G2	Gray	35	-
6371G2	Blue	35	-
6372G2	Orange	35	-
6373G2	Yellow	35	-

2 Pole Housing & Contacts

Part Number	Housing Color	Wire AWG	Wire sq. mm
6374G1	Gray	1/0	53.5
6375G1	Blue	1/0	53.5
6376G1	Orange	1/0	53.5
6377G1	Yellow	1/0	53.5
6379G1	Red	1/0	53.5
6391G1	Green	1/0	53.5
6374G2	Gray	35	-
6375G2	Blue	35	-
6376G2	Orange	35	-
6377G2	Yellow	35	-
6379G2	Red	35	-
6391G2	Green	35	-

Housings Only

Part Number	Color
6380G1	Gray
6381G1	Blue
6382G1	Orange
6383G1	Yellow
6385G1	Red
6390G1	Green

Contacts

Part Number	Description	Wire AWG	Wire sq. mm
6384G1	Contact set (2)	1/0	53.5
6384G2	Contact set (2)	N/A	35

Note: For additional colors please contact customer service

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SBX®175 Connector

ORDERING INFORMATION

Accessories

Part Number	Description
6344	Auxiliary contact kit
6367G1	Pin kit #16/12 (1.31/3.31mm)-for battery
6337G1	Charger key
6366G2	Charger key & socket
995G1	Handle with hardware"A" frame
993G2	Manual release-battery bracket with hardware
994G2	Manual release-charger/truck bracket with hardware
945G2	Cable clamps-use alone with manual release or "A" frame handle

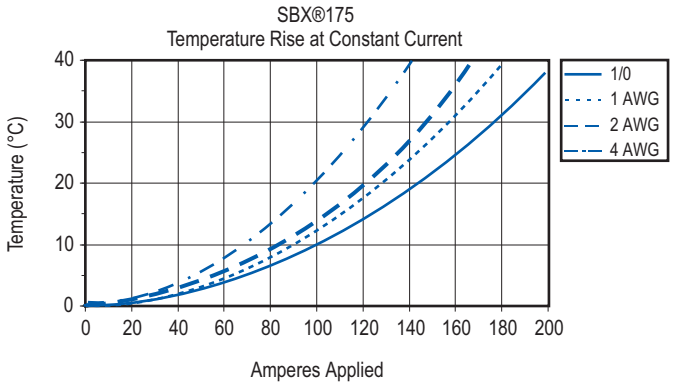
Bushings

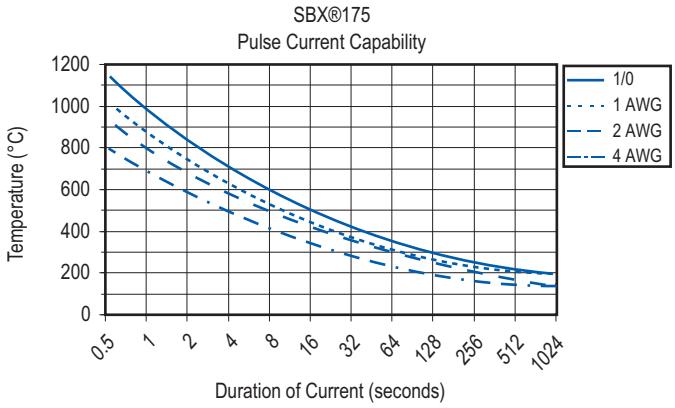
Part Number	Description	Wire AWG	Wire sq. mm
5687	For use with 6384G1	1/0 to #1	53.5 to 42.4
5690	For use with 6384G1	1/0 to #2	53.5 to 33.6
5693	For use with 6384G1	1/0 to #4	53.5 to 21.2
5663	For use with 6384G1	1/0 to #6	53.5 to 13.3
5648	For use with 6384G1	1/0 to #10	53.5 to 5.3
5920	For use with 6384G2	N/A	35mm to 16mm

Tooling

Part Number	Description
969P1	Extraction tool-insulatd handle
111038G2	Contact insertion/extraction tool for auxiliary contact kit
1368	Hand tool for 1/0 to 35mm (53.5/35)
1387G1	Pneumatic tool
1388G3	- die for 1/0 to #10 (53.5/5.26)
1389G3	- locator for 1/0 to #10 (53.5/5.26)
1387G2	- Pneumatic tool
1303G4	- die for #4 (21.1)
1304G4	- locator for #4 (21.1)

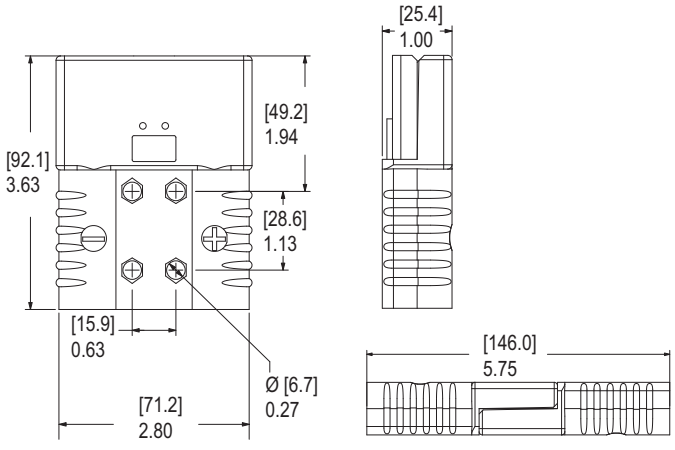
TEMPERATURE RISE CHART





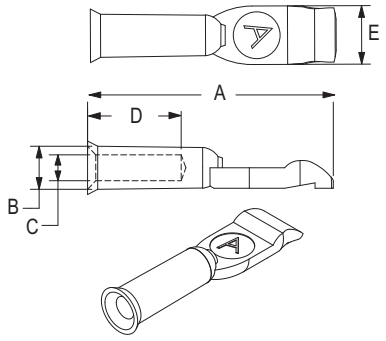
DIMENSIONS

Housing



Contacts

	-A- mm	-A- in.	-B- mm	-B- in.	-C- mm	-C- in.	-D- mm	-D- in.	-E- mm	-E- in.
6384G1	59.2	2.33	13.1	0.52	11.1	0.44	20.7	0.82	12.7	0.50
6384G2	59.2	2.33	13.1	0.52	9.5	0.38	20.7	0.82	12.7	0.50



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SBX®350 Connector

The innovative SBX® connectors provide cost-effective reliability, design flexibility and safety for your products' manufacture, installation and maintenance.

APP's 2 pole connector is available with a 350 amp rating, 600 Volts continuous AC or DC operation. There are SBX® connectors for many applications and wire sizes, 2/0 to 300 mcm (67.4 mcm to 152 mm). Mechanical keys ensure connectors will only mate with connectors of the same color. Different color housings are selected to identify voltages, thus preventing mismatching of the power supply system.

FEATURES

• Mechanical keyed housings
Prevents accidental mating of components operating at different voltage levels

• Auxiliary contacts
Provides ability to incorporate a secondary sensor control circuit

• Optional mechanical release
Aids mating and unmating for high cycle battery charging

PRODUCT SPECIFICATIONS

Connector Model	SBX ®350
UL Current Rating (Amperes)*	350*
UL Voltage Ratings (Volts)	600*
Contact Barrel Wire Size (AWG) (mm²)	2/0 to 300 mcm 67.4 to 152
Maximum Wire Insulation Diameter (inches) (mm)	1.10 27.9
AVG Contact Resistance* (micro-ohms)	50
Insulation Withstanding Test Voltage (Volts AC/DC)	2200
Contact Retention Force (lbf)	500

Connector Model	SBX ®350
Life	
a. No load (Contact/Disconnect Cycles)	To 10,000
b. Under Load (Hot Plug (250 cycles @ 120V)	100A
Avg. Connection/Disconnect (lbf)	30
Operating Temperature Range °C** °F	-20° to 105° -4° to 221°
Flammability Rating of Housing Material	UL94 V-0

RoHS COMPLIANT APP

** UL Rated for 65°C largest wire or cable size*
*** Contact factory for higher temperature rated connector*

ORDERING INFORMATION

2 Pole Housing, 350 amp Contacts, & Auxiliary Contacts

Part Number	Housing Color	Wire AWG	Wire sq. mm
6340G1	Gray	2/0	67.4
6340G2	Gray	3/0	85.0
6340G3	Gray	4/0	107.2
6340G5	Gray	300mcm	152.0
6341G1	Blue	2/0	67.4
6341G2	Blue	3/0	85.0
6341G3	Blue	4/0	107.2
6341G5	Blue	300mcm	152.0
6342G1	Red	2/0	67.4
6342G2	Red	3/0	85.0
6342G3	Red	4/0	107.2
6342G5	Red	300mcm	152.0
6343G1	Green	2/0	67.4
6343G2	Green	3/0	85.0
6343G3	Green	4/0	107.2

2 pole housing, 350 amp contacts, & auxiliary contacts continued

Part Number	Housing Color	Wire AWG	Wire sq. mm
6343G5	Green	300mcm	152.0
6359G1	Black	2/0	67.4
6359G2	Black	3/0	85.0
6359G3	Black	4/0	107.2
6359G5	Black	300mcm	152.0
6360G1	Yellow	2/0	67.4
6360G2	Yellow	3/0	85.0
6360G3	Yellow	4/0	107.2
6360G5	Yellow	300mcm	152.0
6368G1	Orange	2/0	67.4
6368G2	Orange	3/0	85.0
6368G3	Orange	4/0	107.2
6368G5	Orange	300mcm	152.0

2 Pole Housing & 350 amp Contacts

Part Number	Housing Color	Wire AWG	Wire sq. mm
6345G1	Gray	2/0	67.4
6345G2	Gray	3/0	85.0
6345G3	Gray	4/0	107.2
6345G5	Gray	300mcm	152.0
6346G1	Blue	2/0	67.4
6346G2	Blue	3/0	85.0
6346G3	Blue	4/0	107.2
6346G5	Blue	300mcm	152.0
6347G1	Red	2/0	67.4
6347G2	Red	3/0	85.0
6347G3	Red	4/0	107.2
6347G5	Red	300mcm	152.0
6348G1	Green	2/0	67.4
6348G2	Green	3/0	85.0
6348G3	Green	4/0	107.2
6348G5	Green	300mcm	152.0

Note: For additional colors please contact customer service

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ORDERING INFORMATION

continued

2 Pole Housing & 350 amp Contacts

Part Number	Housing Color	Wire AWG	Wire sq. mm
6363G2	Black	3/0	85.0
6363G3	Black	4/0	107.2
6363G5	Black	300mcm	152.0
6364G1	Yellow	2/0	67.4
6364G2	Yellow	3/0	85.0
6364G3	Yellow	4/0	107.2
6364G5	Yellow	300mcm	152.0
6369G1	Orange	2/0	67.4
6369G2	Orange	3/0	85.0
6369G3	Orange	4/0	107.2
6369G5	Orange	300mcm	152.0

2 Pole Housing, 350 amp 35mm Contacts

Part Number	Housing Color	Wire sq. mm
6345G6	Gray	35
6346G6	Blue	35
6347G6	Red	35
6348G6	Green	35
6363G6	Black	35
6364G6	Yellow	35
6369G6	Orange	35

2 Pole Housing, 350 amp 35mm Contacts & Auxiliary Contacts

Part Number	Housing Color	Wire sq. mm
6340G6	Gray	35
6341G6	Blue	35
6342G6	Red	35
6343G6	Green	35
6359G6	Black	35
6360G6	Yellow	35
6380G6	Orange	35

Housings Only

Part Number	Color
6350	Gray
6351	Blue
6352	Red
6353	Green
6361	Black
6362	Yellow
6339	Orange

Contacts

Part Number	Description	Wire AWG	Wire sq. mm
6354	Contact set (2)	2/0	67.4
6355	Contact set (2)	3/0	85.0
6356	Contact set (2)	4/0	107.2
6358	Contact set (2)	300 mcm	152.0
6394	Contact set (2)-thin wall	N/A	35

Bushings

Part Number	Description	Wire AWG	Wire sq. mm
5918	For use with 6354	2/0 to 1/0	67.4 to 53.5

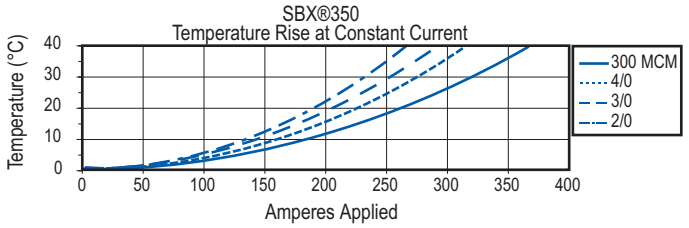
Accessories

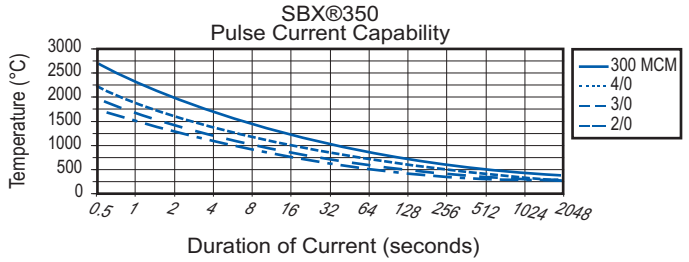
Part Number	Description
6305G1	Auxiliary contact kit with contact part number 1331
6310G1	Auxiliary contact kit with contact part number 1332
6337G1	Charger key
6367G1	Pin kit #16/12(1.31/3.31mm)-for battery
6366G2	Charger key & socket
995G2	Handle with hardware"A" frame
993G1	Manual release-battery bracket with hardware
994G1	Manual release-charger/truck bracket with hardware
911G2	Cable clamps-use alone with manual release or "A" frame handle

Tooling

Part Number	Description
970P1	Extraction tool-insulatd handle
111038G2	Contact insertion/extraction tool for auxiliary contact kit
1368	Hand tool for 1/0 to 95mm (53.5/95)
1387G1	Pneumatic tool
1387G2	Pneumatic tool
1388G2	- die for 2/0 & 3/0 (67.4/85.0)
1388G9	- die for 1/0 (53.5)
1389G2	- locator for 1/0 to 4/0 (53.5/107.2)
1303G7	- die for 70mm
1303G8	- die for 50mm
1304G7	- locator for 70mm
1304G8	- locator for 50mm

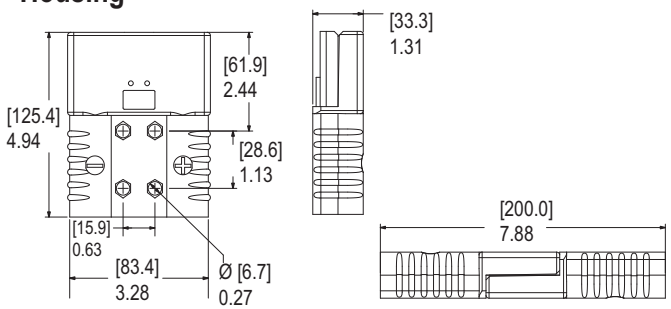
TEMPERATURE RISE CHART





DIMENSIONS

Housing



CSA Certified File No. LR25154 cULus File No. E26226 *All Data Subject To Change Without Notice*

Recommended Voltage Key Color Code

Voltage	12V	18V	24V	36V	48V	72V	80V	96V	120V	144V
Color	Yellow	Orange	Red	Gray	Blue	Green	Black	Brown	Purple	White

Products to be used in the U.S. must meet the requirements of the National Electric Code and applicable local codes, such as state codes. Testing to determine if a product conforms to the National Electric Code is performed by UL in their "LISTING" program.

UL current ratings of the Anderson Power Products connectors are references established when the connectors were accepted as recognized components by UL and do not constitute limits of suitability relative to conducted currents.

Connector devices are rated or derated by the wiring configuration and the environment. Factors to be considered are the wire enclosure characteristics, connector housing and wire insulation characteristics, the number of wires in an enclosed area such as raceway or conduit, as well as ambient temperatures.

The housing insulation temperature rating is specified by UL and is the limiting factor for determining suitability to an application. The housing insulation rating is the maximum temperature that can be applied to the housing which includes the temperature produced by conducting the maximum application current added to the maximum ambient temperature. The wire insulation temperature limits are also specified by UL and considered in like manner.

Suitability of an application should meet the following guidelines:

T° (amb) + T° (@max. current) $\leq$ T° (conn. housing) and T° (wire insulation)

where:

$\leq$	= less than or equal to
T°(amb.)	= ambient temperature
T°(@max. current)	= temperature rise at application current
T°(conn. housing)	= temperature rating of connector housing
T°(wire insulation)	= temperature rating of wire insulation

TEMPERATURE RISE & PULSE CURRENT CHARTS

Temperature Rise Curves

A) Reading the Chart:
Temperature rise charts show the associated heat rise as a result of applied current to the connector. Heat rise is expressed as a ΔT°C.

T ambient- T (maximum w/ applied current)= ΔT The chart on the right shows the heat rise curve for the PP30 connector. Separate curves are shown for #16, #14 and #12 AWG wire. Interpreting the curves, if 17 amps is applied continuously to the connector, the heat rise will be 23°C for #16, 13°C for #14, and 9°C for #12 wire.

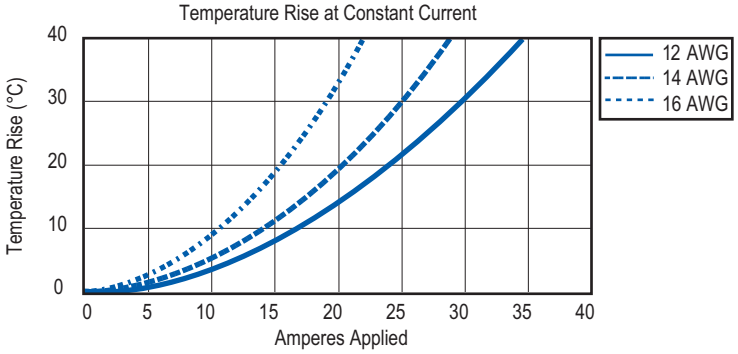
B) Ambients and Maximum Operating Temperature:
Connector devices are rated or derated by the wiring configuration and the environment. Factors to be considered are the wire enclosure characteristics, connector housing and wire insulation characteristics, the number of wires in an enclosed area such as a raceway, and the ambient operating temperatures.

The housing and wire insulation limits are specified by UL and are the limiting factor in determining the suitability of an application. The following guidelines should be met:

T°C (ambient) + ΔT°C (at applied current) < T°C (connector) and T°C (wire insulation) where T°C (connector) = temperature limit of the connector housing and T°C (wire insulation)= the temperature limit of the wire insulation.

For example: A two pole PP30 connection with #14AWG wire operating at 17 amps with an ambient of 35°C. The temperature rise for the connection is 13°C. 35°C + 13°C= 48°C. The wire insulation is rated to 65°C, the connector housing is rated to a maximum temperature of 105°C. Both temperature limits are below 48°C, therefore, this application is suitable.

PP30 Singlepole
Temperature Rise at Constant Current

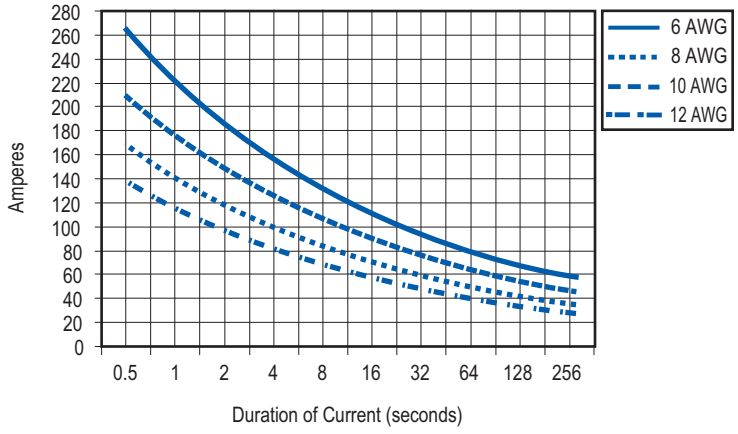


Pulse Current Curves

Pulse current curves shows the highest instantaneous current that can be applied to a mated connection. Specifically, these curves show the time to produce a 30 °C temperature rise. These curves should be used as a guide in applications that have non-continuous/constant current.

The curve shown (on the right) is the pulse current curve for a multipole configuration of the SB50 connector. Interpreting the curves, if 120 amps is applied as a pulse current in an application, the maximum time that current can be applied will be 1s for #12, 2s for #10, 5s for #8 and 12s for #6 wire.

SB50
Pulse Current Capability



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CONVERSION CHART FOR AMERICAN WIRE GUAGE TO METRIC SYSTEM

AWG Size	Metric mm²	Circ. Mils	Equivalent Circ.Mils	Approximate Wire Diameter in.	mm
-	0.5	-	937	0.032	0.81
20	-	1020	-	0.036	0.91
-	0.75	-	1480	0.039	0.99
18	-	1620	-	0.046	1.16
-	1	-	1974	0.051	1.30
16	-	2580	-	0.051	1.29
-	1.5	-	2960	0.063	1.60
14	-	4110	-	0.073	1.84
-	2.5	-	4934	0.081	2.06
12	-	6530	-	0.092	2.32
-	4	-	7894	0.102	2.59
10	-	10380	-	0.116	2.93
-	6	-	11840	0.126	3.21
8	-	16510	-	0.146	3.70
-	10	-	19740	0.162	4.12
6	-	26240	-	0.184	4.66
-	16	-	31580	0.204	5.18
4	-	41740	-	0.232	5.88
-	25	-	49340	0.260	6.60
2	-	66360	-	0.292	7.42
-	35	-	69070	0.305	7.75
1	-	83690	-	0.332	9.43
-	50	-	98680	0.365	9.27

AWG Size	Metric mm²	Circ. Mils	Equivalent Circ.Mils	Approximate Wire Diameter in.	mm
1/0	-	106mcm*	-	0.373	9.46
2/0	-	133mcm*	-	0.419	10.60
-	70	-	138.1mcm	0.430	10.90
3/0	-	168mcm*	-	0.471	12.00
-	95	-	187.5mcm	0.504	12.80
4/0	-	212mcm*	-	0.528	13.40
-	120	-	237.8mcm	0.567	14.40
-	-	250mcm	-	0.575	14.60
-	150	300mcm	-	0.630	16.00
-	-	350mcm	-	0.681	17.30
-	185	-	365.1mcm	0.700	17.80
-	-	400mcm	-	0.728	18.50
-	240	-	473.6mcm	0.801	20.30
-	-	500mcm	-	0.814	20.70
-	300	-	592.1mcm	0.891	22.60
-	-	600mcm	-	0.893	22.70
-	-	700mcm	-	0.964	24.50
-	-	750mcm	-	0.999	25.40
	400	-	789.4mcm	1.026	26.10
-	-	800mcm	-	1.032	26.20
-	500		986.8mcm	1.152	29.30
-	-	1000mcm	-	1.153	29.30
-	625	-	1233.7mcm	1.287	32.70

** Rounded for simplicity*

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Applicator
A semi-automatic termination machine consisting of an upper and lower half that is used to crimp contacts onto wire. Used in conjunction with an electrical/mechanical press.

AWG
American Wire Gauge. A standard system for designating wire diameters.

Blindmate
To join two connector halves in a normal engaging mode without visual orientation.

Color Coding
A system of identification for terminals and related devices.

Contact Resistance
The electrical resistance of metallic surfaces at their interface in the contact area under specified conditions when carrying a specified test current.

Contact Retention
Minimum axial load in either direction which a contact must withstand while remaining firmly fixed in its normal position within a housing.

Crimp Retention
The axial load which a contact can withstand without separation from the wire.

Crimp Termination
A connection in which a metal sleeve is secured to a conductor by mechanically deforming the sleeve with presses or automated crimping machines, eliminating the need for solder. Suitable for all wire types.

Cycle Controlled
To determine if repetitive on/off conditions result in degrading the contact system which may lead to failures such as “thermal run away”.

Detent
A bump or raised section projecting from the surface of a contact for keeping the contact in position relative to another and released by greater force.

Dielectric Strength (Withstanding Voltage)
The highest potential difference (voltage) that an insulation material of given thickness can withstand for a specified time without occurrence of electrical breakdown through its bulk.

Finger Proof
A connector intended for usage external to the end equipment shall have live parts protected against exposure to contact by persons when assembled, installed, and mated as intended, as determined by UL Articulated probe.

Flammability
The measure of a material’s ability to support combustion. Often tested per UL94.

Flat Wiping
The sliding action which occurs when contacts are mated. Wiping has the effect of removing small amounts of contamination from the contact surfaces, thus establishing better conductivity.

Heat Rise
Temperature rise associated with the electrical load applied to a mated connection.

Hermaphroditic (Genderless) Connector
A connector in which both mating members are exactly alike at their mating face. There are no male or female members, but designs provide correct polarity.

Hot Plug
Live connector insertion/extractions in battery pack installations.

Insulation Resistance
Ratio of applied voltage to the total current between the two electrodes in contact with a specific insulation.

Glossary of Terminology

Locator
Device for positioning contacts into crimping dies.

Make First/Break Last (Sequencing)
Protective measure against excess currents, short-circuits, and ground faults by contacts used to interrupt the fault current flow before connector mating.

Mating Force
Force required to join two connector halves in a normal engaging mode.

Modular
Refers to similar parts or modules used as building blocks. A modular connector is one in which similar or identical sections can be assembled together to provide the appropriate connector type or size for the application.

Operating Temperature Range
Connector temperature rating established by materials used – plastic, finish, and the base metal. Applying an electrical load will result in a temperature rise that is additive to the operating ambient.

Polarization
A technique of eliminating symmetry so that parts may only be mated one way.

Pulse (Surge) Current
Highest instantaneous current that will run through a system.

Reducing Bushing
Separate tubular sleeve used to downsize the diameter of a crimp barrel to accept a smaller size wire.

Reeled Contacts
Contacts attached to a feeder strip for use in a high volume crimping tool.

Self-Wiping
The sliding action which occurs when contacts are mated. Wiping has the effect of removing small amounts of contamination from the contact surfaces, establishing better conductivity.

Spring Loaded
A means of providing contact normal force with the use of a mechanical spring.

Storage Battery
A voltaic battery consisting of two or more storage cells. Energy is accumulated by chemical activity in the charging process and released on demand in the form of electric current.

Strain Relief
A means of termination or installation that reduces the transfer of mechanical stress from the conductor.

Termination
Means of joining contacts to a conductor.

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