



**THE DATASHEET OF  
10000**





# Rectangular Connectors

# Contents

Standard Rectangular Connectors	3
Miniature Rectangular Connectors	11
Power Rectangular Connectors	16
Automotive Rectangular Connectors	20
Standards	24
Comparison Chart	25
IP Ratings	26

The Bulgin **Rectangular** Connector range offers a reliable, **rugged solution** for cable to cable applications in harsh environments with its **environmentally sealed** range of products.

The series has a male and female option, as well as modifications such as enhanced seal retention, protective end caps, shrink boot adapters, welded flange, terminating resistors and a Y-Type connector for the automotive industry.

Key Features:

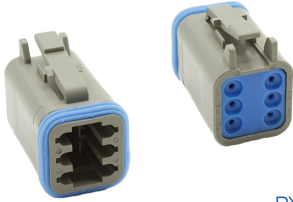
- ⊕ 2, 3, 4, 6, 8 & 12 Contact Count
- ⊕ IP68 when mated
- ⊕ Choice of Enhanced Seal Retention (ESR), Protective End Caps (PEC), Shrink Boot Adapters (SBA), Terminating Resistors (TER) and a Y-Type Connector (YTY)
- ⊕ Wedgelocks aid in the alignment and retention of contacts
- ⊕ Accepts 14 - 20 AWG



# RECTANGULAR Standard Rectangular Connectors

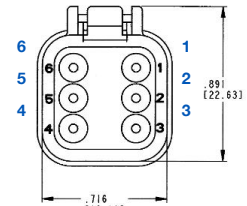


Standard Rectangular Connectors  
Male



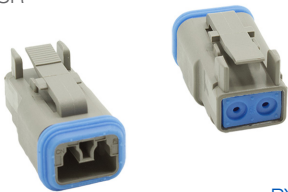
PX0100

- 2, 3, 4, 6, 8 & 12 Contacts
- Male housing
- Socket contacts
- Available in grey and black



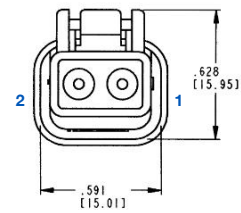
Part Number	Contacts	Key	Termination	Colour	Additional
PX0100S02BK	2	-	Crimp	Black	-
PX0100S02GY	2	-	Crimp	Grey	-
PX0100S03BK	3	-	Crimp	Black	-
PX0100S03GY	3	-	Crimp	Grey	-
PX0100S04BK	4	-	Crimp	Black	-
PX0100S04GY	4	-	Crimp	Grey	-
PX0100S06BK	6	-	Crimp	Black	-
PX0100S06GY	6	-	Crimp	Grey	-
PX0100S08ABK	8	A	Crimp	Black	-
PX0100S08AGY	8	A	Crimp	Grey	-
PX0100S12ABK	12	A	Crimp	Black	-
PX0100S12AGY	12	A	Crimp	Grey	-

Standard Rectangular Connectors  
Male - ESR



PX0102

- 2 Contacts
- Male housing
- Enhanced seal retention
- Socket contacts
- Available in black



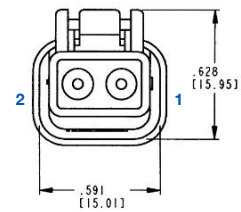
Part Number	Contacts	Key	Termination	Colour	Additional
PX0102S02BK	2	-	Crimp	Black	ESR

Standard Rectangular Connectors  
Male - ESR & PEC



PX0103

- 2 Contacts
- Male housing
- Enhanced seal retention & protective end cap
- Socket contacts
- Available in grey



Part Number	Contacts	Key	Termination	Colour	Additional
PX0103S02BK	2	-	Crimp	Black	ESR & PEC
PX0103S02GY	2	-	Crimp	Grey	ESR & PEC

# RECTANGULAR Standard Rectangular Connectors

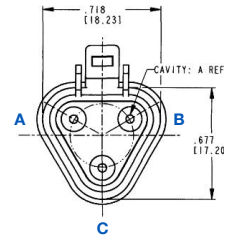


Standard Rectangular Connectors  
Male - PEC



PX0105

- 2, 3, 4, 6, 8 & 12 Contacts
- Male housing
- Protective end cap
- Socket contacts
- Available in grey and black



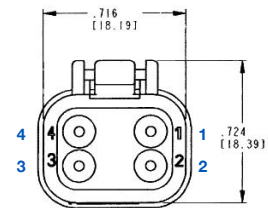
Part Number	Contacts	Key	Termination	Colour	Additional
PX0105S02BK	2	-	Crimp	Black	PEC
PX0105S02GY	2	-	Crimp	Grey	PEC
PX0105S03BK	3	-	Crimp	Black	PEC
PX0105S03GY	3	-	Crimp	Grey	PEC
PX0105S04BK	4	-	Crimp	Black	PEC
PX0105S04GY	4	-	Crimp	Grey	PEC
PX0105S06BK	6	-	Crimp	Black	PEC
PX0105S06GY	6	-	Crimp	Grey	PEC
PX0105S08ABK	8	A	Crimp	Black	PEC
PX0105S08AGY	8	A	Crimp	Grey	PEC
PX0105S12ABK	12	A	Crimp	Black	PEC
PX0105S12AGY	12	A	Crimp	Grey	PEC

Standard Rectangular Connectors  
Male - SBA



PX0108

- 2, 3 & 4, 6 & 12 Contacts
- Male housing
- Shrink boot adapter
- Socket contacts
- Available in grey



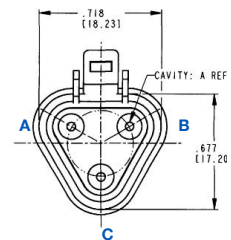
Part Number	Contacts	Key	Termination	Colour	Additional
PX0108S02GY	2	-	Crimp	Grey	SBA
PX0108S03GY	3	-	Crimp	Grey	SBA
PX0108S04GY	4	-	Crimp	Grey	SBA
PX0108S06GY	6	-	Crimp	Grey	SBA
PX0108S12AGY	12	-	Crimp	Grey	SBA

Standard Rectangular Connectors  
Male - TER



PX0110

- 3 Contacts
- Male housing
- Terminating resistor (End Cap)
- Socket contacts
- Available in grey



Part Number	Contacts	Key	Termination	Colour	Additional
PX0110S03GY	3	-	Crimp	Grey	TER

# RECTANGULAR Standard Rectangular Connectors

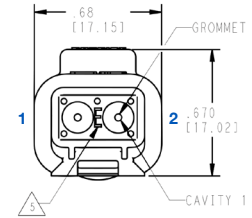


## Standard Rectangular Connectors Female



PX0101

- 2, 3, 4, 6, 8 & 12 Contacts
- Female housing
- Plug contacts
- Available in grey and black



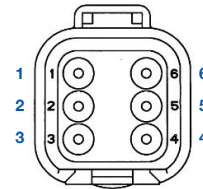
Part Number	Contacts	Key	Termination	Colour	Additional
PX0101P02BK	2	-	Crimp	Black	-
PX0101P02GY	2	-	Crimp	Grey	-
PX0101P03BK	3	-	Crimp	Black	-
PX0101P03GY	3	-	Crimp	Grey	-
PX0101P04BK	4	-	Crimp	Black	-
PX0101P04GY	4	-	Crimp	Grey	-
PX0101P06BK	6	-	Crimp	Black	-
PX0101P06GY	6	-	Crimp	Grey	-
PX0101P08ABK	8	A	Crimp	Black	-
PX0101P08AGY	8	A	Crimp	Grey	-
PX0101P12ABK	12	A	Crimp	Black	-
PX0101P12AGY	12	A	Crimp	Grey	-

## Standard Rectangular Connectors Female - PEC



PX0106

- 2, 3, 4, 6, 8 & 12 Contacts
- Female housing
- Protective end cap
- Plug contacts
- Available in grey and black
- Additional options available



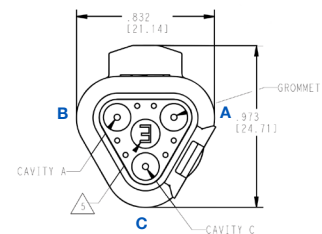
Part Number	Contacts	Key	Termination	Colour	Additional
PX0106P02BK	2	-	Crimp	Black	PEC
PX0106P02GY	2	-	Crimp	Grey	PEC
PX0106P03BK	3	-	Crimp	Black	PEC
PX0106P03GY	3	-	Crimp	Grey	PEC
PX0106P04BK	4	-	Crimp	Black	PEC
PX0106P04GY	4	-	Crimp	Grey	PEC
PX0106P06BK	6	-	Crimp	Black	PEC
PX0106P06GY	6	-	Crimp	Grey	PEC
PX0106P08ABK	8	A	Crimp	Black	PEC
PX0106P08AGY	8	A	Crimp	Grey	PEC
PX0106P12ABK	12	A	Crimp	Black	PEC
PX0106P12AGY	12	A	Crimp	Grey	PEC

## Standard Rectangular Connectors Female - SBA



PX0109

- 2, 3, 4, 6, 8 & 12 Contacts
- Female housing
- Shrink boot adapter
- Plug contacts
- Available in grey and black



Part Number	Contacts	Key	Termination	Colour	Additional
PX0109P02BK	2	-	Crimp	Black	SBA
PX0109P02GY	2	-	Crimp	Grey	SBA
PX0109P03BK	3	-	Crimp	Black	SBA
PX0109P03GY	3	-	Crimp	Grey	SBA
PX0109P04GY	4	-	Crimp	Grey	SBA
PX0109P06GY	6	-	Crimp	Grey	SBA
PX0109P08GY	8	-	Crimp	Grey	SBA
PX0109P12AGY	12	-	Crimp	Grey	SBA

RECTANGULAR  
Standard Rectangular Connectors

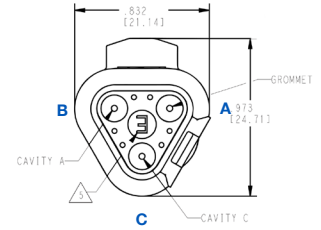


Standard Rectangular Connectors  
Female - TER



PX0111

- 3 Contacts
- Female housing
- Terminating resistor
- Plug contacts
- Available in grey



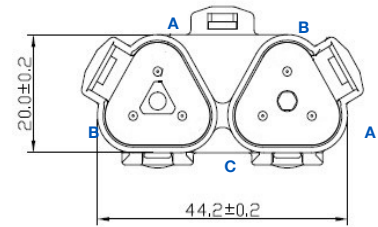
Part Number	Contacts	Key	Termination	Colour	Additional
PX0111P03GY	3	-	Crimp	Grey	TER

Standard Rectangular Connectors  
Female - YTY



PX0113

- 3 Contacts
- Female housing
- Y-type connector
- Plug contacts
- Available in grey



Part Number	Contacts	Key	Termination	Colour	Additional
PX0113P03GY	3	-	Crimp	Grey	YTY

Contacts



SA1000

- Crimp plug & sockets
- Choice of gold and nickel Plated
- Green stripe available
- Size 16 contacts

Part Number	Plating	AWG	Type	Plug / Socket	Additional
SA1000/G	Nickel Plating	14	Solid	Plug	Green Stripe
SA1001/G	Nickel Plating	14	Solid	Socket	Green Stripe
SA1002/G	Nickel Plating	16 - 20	Solid	Plug	Green Stripe
SA1003/G	Nickel Plating	16 - 20	Solid	Socket	Green Stripe
SA1000	Nickel Plating	14	Solid	Plug	-
SA1001	Nickel Plating	14	Solid	Socket	-
SA1002	Nickel Plating	16 - 20	Solid	Plug	-
SA1003	Nickel Plating	16 - 20	Solid	Socket	-
SA1004	Nickel Plating	16 - 20	Stamped	Plug	Bandolier
SA1005	Nickel Plating	16 - 20	Stamped	Socket	Bandolier
SA1006	Nickel Plating	14 - 18	Stamped	Plug	Bandolier
SA1007	Nickel Plating	14 - 18	Stamped	Socket	Bandolier
SA1008	Gold Plating	14 - 18	Stamped	Plug	Bandolier
SA1009	Gold Plating	14 - 18	Stamped	Socket	Bandolier
SA1010/G	Gold Plating	14	Solid	Socket	Green Stripe
SA1011/G	Gold Plating	14	Solid	Socket	Green Stripe
SA1012	Gold Plating	16 - 20	Solid	Plug	-
SA1013	Gold Plating	16 - 20	Solid	Socket	-

Wedgelocks



WLP12

- Plug & sockets available
- 2, 3, 4, 6, 8 & 12 Contact

\* Wedgelocks are sold separately and are required for confirmation of alignment of contact. Please refer to the chart above to determine part required: e.g. WLP02 is required for 2 Contact female housings

Part Number	Contacts	Plug / Socket	Additional
WLP02	02	Plug	-
WLS02	02	Socket	-
WLP03	03	Plug	-
WLS03	03	Socket	-
WLP04	04	Plug	-
WLS04	04	Socket	-
WLP06	06	Plug	-
WLS06	06	Socket	-
WLP08	08	Plug	-
WLS08	08	Socket	-
WLP12	12	Plug	-
WLS12	12	Socket	-

## Tooling



- ⊞ Crimp tools available for solid and stamped contacts (closed and open barrel)
- ⊞ Probe extraction tool

**Part Number****Additional**

10000	Crimping tool for Rectangular Connector solid (closed barrel) contacts - size 12, 16, and 20 - wire gauge 12-26 AWG
10001	Probe extraction tool
10002	Crimping tool for Rectangular Connector solid (closed barrel) contacts - size 16 - wire gauge 16-20 AWG
10003	Crimping tool for Rectangular Connector stamped (open barrel) contacts - size 12, 16, and 20 - wire gauge 10-23 AWG
10004	Crimping tool for Rectangular Connector stamped (open barrel) contacts sealing hole - size 12, 16, and 20 - wire gauge 14-24 AWG

**STANDARD SERIES DIMENSIONS**



Cavity	Male			Female		
	Overall Length A	Overall Height B	Overall Width C	Overall Length D	Overall Height E	Overall Width F
2	1.118 (28.4)	.628 (15.95)	.591 (15.01)	1.708 (43.38)	.670 (17.02)	.675 (17.15)
3	1.118 (28.4)	.934 (23.72)	.718 (18.23)	1.698 (43.13)	.973 (24.71)	.832 (21.13)
4	1.218 (30.94)	.724 (18.39)	.716 (18.19)	1.808 (45.92)	.776 (19.71)	.820 (20.83)
6	1.218 (30.94)	.891 (22.63)	.716 (18.19)	1.808 (45.92)	.951 (24.16)	.820 (20.83)
8	1.217 (30.91)	.776 (19.71)	1.465 (37.21)	1.798 (45.67)	1.000 (25.40)	1.435 (36.45)
12	1.218 (30.94)	.716 (18.19)	1.597 (40.56)	1.808 (46.92)	.876 (22.25)	1.597 (40.56)

\* Dimensions are for reference only.

**Electrical:**

Voltage: 250V  
 No Contacts: 2, 3, 4, 6, 8 & 12  
 Insulation Resistance: >1000MΩ  
 Dielectric Strength: No damage when exposed  
 Dielectric Withstanding Voltage: 1500 VAC  
 Operating Temperature Range: -55°C to +125°C  
 Current: 13A

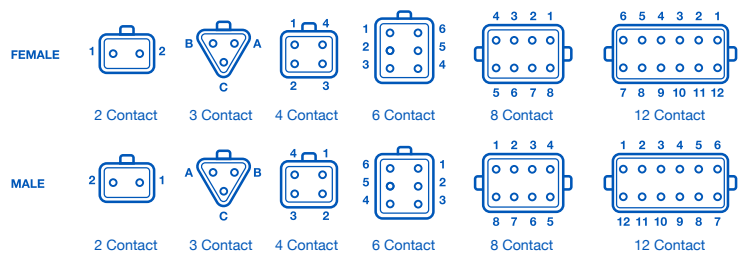
**Mechanical:**

Sealing: IP68 when mated  
 Contact Accommodation: 14-20AWG (2.0-0.5mm<sup>2</sup>)  
 Termination: Crimp terminals  
 Cycles: >100  
 Contact Size: 16

**Material**

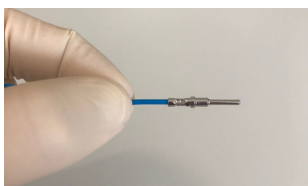
Grommet: Silicone rubber  
 Insert Retainer: PC/PBT  
 Receptacle Interfacial Seal: Silicone Rubber  
 Shell: PC/PBT  
 Wedgelocks: PC/PBT  
 RoHS: Compliant

**Contact Layout (Rear View)**



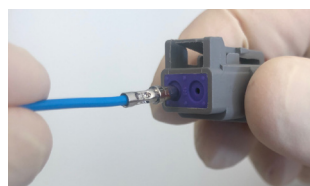
**Contact Insertion Instructions**

Step One:



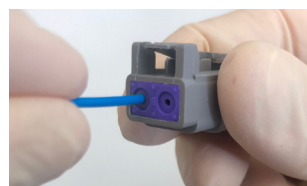
Use a previously crimped contact and wire and hold just behind the contact barrel.

Step Two:



Line the contact up with the grommet.

Step Three:



Push the contact until a click is felt. Check the contact is in place by gently tugging and confirming alignment. Repeat for number of contacts desired

Step Four:



When contacts are in place, insert the appropriate wedgelock until a click is heard. Once male and female housings are prepared the parts can be mated



PX0	XXX	X	XX	X	XX
<b>Range</b>	<b>Body Type</b>	<b>Contact Type</b>	<b>Contacts</b>	<b>Key</b>	<b>Colour</b>
PX0	100 = Male 101 = Female 102 = Male Enhanced Seal Retention 103 = Male Enhanced Seal Retention & Protective End Cap 105 = Male Protective End Cap 106 = Female Protective End Cap 108 = Male Shrink Boot Adapter 109 = Female Shrink Boot Adapter 110 = Male Terminating Resistor 111 = Terminating Resistor 113 = Female Y Type	S = Socket P = Plug	02 03 04 06 08 12	A = A Key	GY = Grey BK = Black

Bulgin **Miniature Rectangular** Connectors offer a solution to **smaller wire gauges** with the ability to design to use size multiple-sized contacts. These connectors are **environmentally sealed**.

These rugged thermoplastic connectors feature silicone rear wire and face seals that ensure the connectors withstand some of the harshest environments. Also, they provide reliability and performance on the engine or transmission, solenoid interfaces, on the chassis or in the cab & on motor controllers. These connectors are used in Agriculture, Automotive Industry, Forestry, Recreational, Marine & Mining.

Key Features:

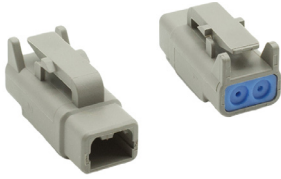
- ⊕ Insulation Resistance:  
1000 megohms minimum at 25°C Operating temperatures -55°C to +125°C
- ⊕ IP68 rating when mated
- ⊕ Male and Female options
- ⊕ Latch ensures secure mating
- ⊕ Available with Protective End Caps (PEC)
- ⊕ Wedgelocks aid in the alignment and retention of contacts
- ⊕ Accepts 14 - 22 AWG



RECTANGULAR  
Miniature Rectangular Connectors

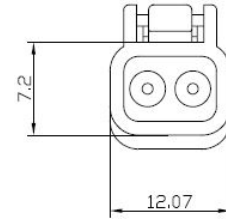


Miniature Rectangular Connectors  
Male



PX0010

- 2, 3, 4, 6, 8 & 12 Contacts
- Male housing
- Socket contacts
- Available in grey



Part Number	Contacts	Key	Termination	Colour	Additional
PX0010S02GY	2	-	Crimp	Grey	-
PX0010S03GY	3	-	Crimp	Grey	-
PX0010S04GY	4	-	Crimp	Grey	-
PX0010S06GY	6	-	Crimp	Grey	-
PX0010S08AGY	8	A	Crimp	Grey	-
PX0010S12AGY	12	A	Crimp	Grey	-

Miniature Rectangular Connectors  
Female



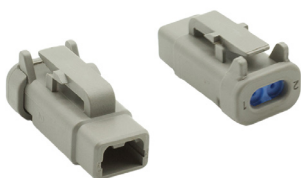
PX0011

- 2, 3, 4, 6, 8 & 12 Contacts
- Female housing
- Plug contacts
- Available in grey



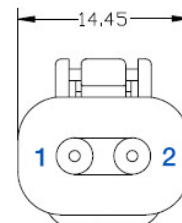
Part Number	Contacts	Key	Termination	Colour	Additional
PX0011P02GY	2	-	Crimp	Grey	-
PX0011P03GY	3	-	Crimp	Grey	-
PX0011P04GY	4	-	Crimp	Grey	-
PX0011P06GY	6	-	Crimp	Grey	-
PX0011P08AGY	8	A	Crimp	Grey	-
PX0011P12AGY	12	A	Crimp	Grey	-

Miniature Rectangular Connectors  
Male - PEC



PX0012

- 2, 3, 4, 6, 8 & 12 Contacts
- Male housing
- Socket contacts
- Available in grey
- Protective end cap



Part Number	Contacts	Key	Termination	Colour	Additional
PX0012S02GY	2	-	Crimp	Grey	PEC
PX0012S03GY	3	-	Crimp	Grey	PEC
PX0012S04GY	4	-	Crimp	Grey	PEC
PX0012S06GY	6	-	Crimp	Grey	PEC
PX0012S08AGY	8	A	Crimp	Grey	PEC
PX0012S12AGY	12	A	Crimp	Grey	PEC

RECTANGULAR  
Miniature Rectangular Connectors

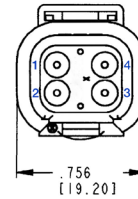


Miniature Rectangular Connectors  
Female - PEC



PX0013

- 2, 3, 4, 6, 8 & 12 Contacts
- Female housing
- Plug contacts
- Available in grey
- Protective end cap



Part Number	Contacts	Key	Termination	Colour	Additional
PX0013P02GY	2	-	Crimp	Grey	PEC
PX0013P03GY	3	-	Crimp	Grey	PEC
PX0013P04GY	4	-	Crimp	Grey	PEC
PX0013P06GY	6	-	Crimp	Grey	PEC
PX0013P08AGY	8	A	Crimp	Grey	PEC
PX0013P12AGY	12	A	Crimp	Grey	PEC

Contacts



SA1000

- Crimp plug & sockets
- Choice of gold and nickel plating

Part Number	Plating	AWG	Type	Plug / Socket
SA1014	Nickel	16 - 18	Stamped	Plug
SA1015	Nickel	16 - 22	Stamped	Socket
SA1016	Gold	16 - 18	Stamped	Plug
SA1017	Gold	16 - 22	Stamped	Socket

Tooling



- Crimp tools available for solid and stamped contacts (closed and open barrel)

Part Number	Additional
10000	Crimping tool for Rectangular Connector solid (closed barrel) contacts - size 12, 16, and 20 - wire gauge 12-26 AWG
10002	Crimping tool for Rectangular Connector solid (closed barrel) contacts - size 16 - wire gauge 16-20 AWG

WedgeLocks



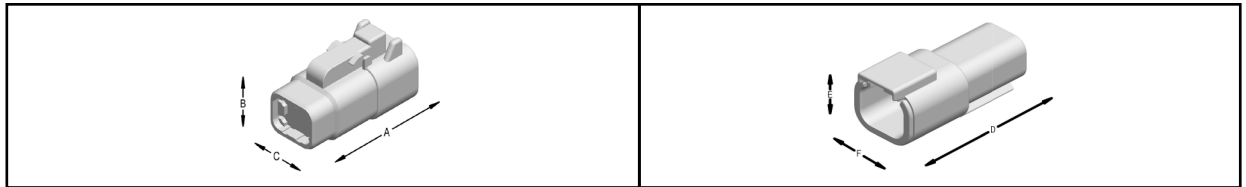
WLM

- ⊕ Plug & sockets available
- ⊕ 2, 3, 4, 6, 8 & 12 Contact

\* WedgeLocks are sold separately and are required for confirmation of alignment of contact. Please refer to the chart above to determine part required.

Part Number	Contacts	Plug / Socket
WLMP02	02	Plug
WLMS02	02	Socket
WLMP03	03	Plug
WLMS03	03	Socket
WLMP04	04	Plug
WLMS04	04	Socket
WLMP06	06	Plug
WLMS06	06	Socket
WLMP08	08	Plug
WLMS08	08	Socket
WLMP12	12	Plug
WLMS12	12	Socket

## MINIATURE SERIES DIMENSIONS



Cavity	Male			Female		
	Overall Length A	Overall Height B	Overall Width C	Overall Length D	Overall Height E	Overall Width F
2	1.620 (41.15)	.638 (16.21)	.475 (12.07)	1.085 (27.56)	.508 (12.90)	.651 (16.54)
3	1.620 (41.15)	.638 (16.21)	.640 (16.26)	1.085 (27.56)	.551 (14.00)	.861 (20.73)
4	1.720 (43.69)	.722 (19.61)	.600 (15.24)	1.185 (30.10)	.695 (17.65)	.756 (19.20)
6	1.720 (43.69)	.937 (23.80)	.600 (15.24)	1.185 (30.10)	.817 (20.75)	.756 (19.20)
8	1.720 (43.69)	.796 (20.22)	1.245 (31.62)	1.185 (30.10)	.600 (15.24)	1.245 (31.62)
12	1.720 (43.69)	.796 (20.22)	1.575 (40.01)	1.185 (30.10)	.600 (15.24)	1.575 (40.01)

\* Dimensions are for reference only.

**Electrical:**

Voltage:	250V
No Contacts:	2, 3, 4, 6, 8 & 12
Insulation Resistance:	>1000MΩ
Dielectric Withstanding Voltage:	1500 VAC
Operating Temperature Range:	-55°C to +125°C
Current:	7.5A

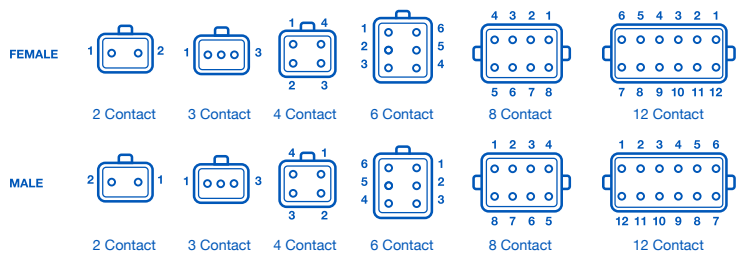
**Mechanical:**

Sealing:	IP68 when mated
Contact Accommodation:	14 - 22 AWG (2.50 - 0.35 mm <sup>2</sup> )
Termination:	Crimp terminals
Cycles:	>100
Contact Size:	20

**Material**

Grommet:	Silicone rubber
Insert Retainer:	PC/PBT
Receptacle Interfacial Seal:	Silicone rubber
Shell:	PC/PBT
Wedgelocks:	PC/PBT
RoHS:	Compliant

**Contact Layout (Rear View)**



**Contact Insertion Instructions**

Step One:



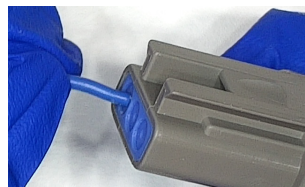
Use a previously crimped contact and wire and hold just behind the contact barrel.

Step Two:



Line the contact up with the grommet.

Step Three:



Push the contact until a click is felt. Check the contact is in place by gently tugging and confirming alignment. Repeat for number of contacts desired

Step Four:



When contacts are in place, insert the appropriate wedge lock until a click is heard. Once male and female housings are prepared the parts can be mated

PX0	XX	X	XX	X	XX
Range	Body Type	Contact Type	Contacts	Key	Colour
PX00	10 = Male 11 = Female 12 = Male Protective End Cap 13 = Female Protective End Cap	S = Socket P = Plug	02 03 04 06 08 12	A = A Key	GY = Grey BK = Black

The Bulgin **Power Rectangular** Connector series offers a higher current of power whilst keeping the **miniature size** of the Rectangular Connector series. **Rated to IP68** when mated, this series of connectors are able to withstand some of the **harshest environments**.

Available in two or four contact variants, the Power Rectangular Series offers a 25A current rating. These connectors are used in Agriculture, Construction, Emergency Vehicles, Forestry, Recreational, Marine, Mining and Automotive Industry.

Key Features:

- ⊕ Insulation Resistance: 1000 megohms minimum at 25°C
- ⊕ Operating temperatures -55°C to +125°C
- ⊕ IP68 when mated
- ⊕ Male and Female options
- ⊕ Latch ensures secure mating
- ⊕ Available with Protective End Cap (PEC)
- ⊕ Wedgelocks aid in the alignment and retention of contacts
- ⊕ Accepts 10 - 14 AWG Cable



RECTANGULAR  
Power Rectangular Connectors

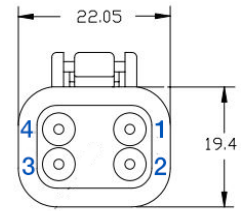


Power Rectangular Connectors  
Male



PX1000

- 2 & 4 Contacts
- Male housing
- Socket contacts
- Available in grey



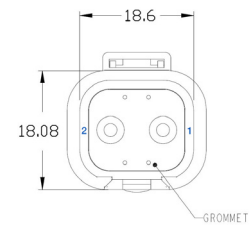
Part Number	Contacts	Termination	Colour	Additional
PX1000S02GY	2	Crimp	Grey	-
PX1000S04GY	4	Crimp	Grey	-

Power Rectangular Connectors  
Female



PX1001

- 2 & 4 Contacts
- Female housing
- Plug contacts
- Available in grey



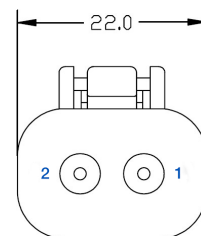
Part Number	Contacts	Termination	Colour	Additional
PX1001P02GY	2	Crimp	Grey	
PX1001P04GY	4	Crimp	Grey	

Power Rectangular Connectors  
Male - PEC



PX1002

- 2 & 4 Contacts
- Male housing
- Socket contacts
- Available in grey
- Protective end cap



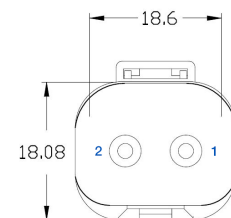
Part Number	Contacts	Termination	Colour	Additional
PX1002S02GY	2	Crimp	Grey	PEC
PX1002S04GY	4	Crimp	Grey	PEC

Power Rectangular Connectors  
Female - PEC



PX1003

- 2 & 4 Contacts
- Female housing
- Plug contacts
- Available in grey
- Protective end cap



Part Number	Contacts	Termination	Colour	Additional
PX1003P02GY	2	Crimp	Grey	PEC
PX1003P04GY	4	Crimp	Grey	PEC

# Power Rectangular Connectors



## Contacts

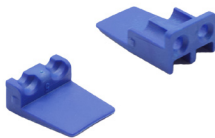


SA1000

- ⊞ Crimp plug & sockets
- ⊞ Choice of gold and nickel plated

Part Number	Plating	AWG	Type	Plug / Socket
SA1018	Nickel	12 - 14	Stamped	Plug
SA1019	Nickel	12 - 14	Stamped	Socket
SA1020	Gold	12 - 14	Stamped	Plug
SA1021	Gold	12 - 14	Stamped	Socket

## Wedgelocks



WLP12

- ⊞ Plug & sockets available
- ⊞ 2 & 4 Contact

\* Wedgelocks are sold separately and are required for confirmation of alignment of contact. Please refer to the chart above to determine part required.

Part Number	Contacts	Plug / Socket
WLPP02	02	Plug
WLPS02	02	Socket
WLPP04	04	Plug
WLPS04	04	Socket

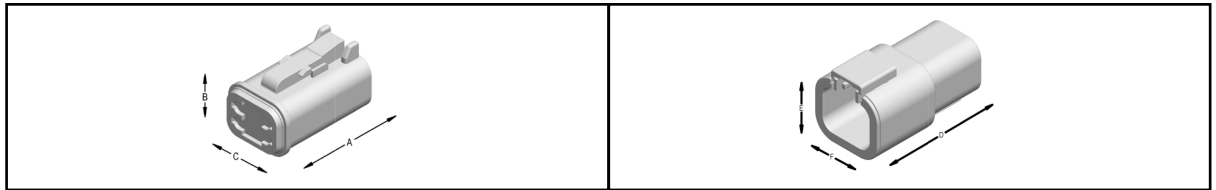
## Tooling



- ⊞ Crimp tools available for solid and stamped contacts (closed and open barrel)

Part Number	Additional
10003	Crimping tool for Rectangular Connector stamped (open barrel) contacts - size 12, 16, and 20 - wire gauge 10-23 AWG
10004	Crimping tool for Rectangular Connector stamped (open barrel) contacts sealing hole - size 12, 16, and 20 - wire gauge 14-24 AWG

## POWER SERIES DIMENSIONS



	Male			Female		
Cavity	Overall Length A	Overall Height B	Overall Width C	Overall Length D	Overall Height E	Overall Width F
2	1.364 (34.65)	.711 (18.06)	.732(18.59)	1.861 (47.27)	.869 (22.07)	.872 (22.15)
4	1.364 (34.65)	.960 (24.38)	.868 (22.05)	1.861 (47.27)	1.048 (26.62)	1.060 (26.92)

\* Dimensions are for reference only.

**Electrical:**

Voltage:	200V
No Contacts:	2 & 4
Insulation Resistance:	>1000MΩ
Dielectric Withstanding Voltage:	1500 VAC
Operating Temperature Range:	-55°C to +125°C
Current:	25A

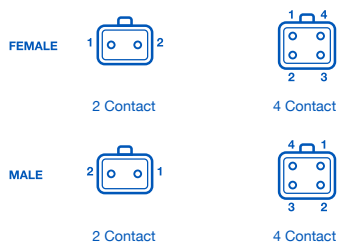
**Mechanical:**

Sealing:	IP68 when mated
Contact Accommodation:	10 - 14 AWG (3.0-2.0 mm <sup>2</sup> )
Termination:	Crimp terminals
Cycles:	>100
Contact Size:	12

**Material**

Grommet:	Silicone rubber
Insert Retainer:	PC/PBT
Receptacle Interfacial Seal:	Silicone rubber
Shell:	PC/PBT
Wedgelocks:	PC/PBT
RoHS:	Compliant

**Contact Layout (Rear View)**



**Contact Insertion Instructions**

Step One:



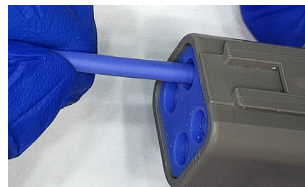
Use a previously crimped contact and wire and hold just behind the contact barrel.

Step Two:



Line the contact up with the grommet.

Step Three:



Push the contact until a click is felt. Check the contact is in place by gently tugging and confirming alignment. Repeat for number of contacts desired

Step Four:



When contacts are in place, insert the appropriate wedgelock until a click is heard. Once male and female housings are prepared the parts can be mated

PX10	XX	X	XX	XX
<b>Range</b>	<b>Body Type</b>	<b>Contact Type</b>	<b>Contacts</b>	<b>Colour</b>
PX10	00 = Male 01 = Female 02 = Male Protective End Cap 03 = Female Protective End Cap	S = Socket P = Plug	02 04	GY = Grey BK = Black

The Bulgin Automotive Rectangular Connectors provide environmentally sealed, field-proven and rugged reliability.

This series offers an IP67 when mated protection, enabling them to be deployed in some of the harshest environments.

Key Features:

- ⊗ Insulation Resistance: 2000 megohms
- ⊗ Operating temperatures -40°C to +125°C
- ⊗ IP67 when mated
- ⊗ Current Rating 14A
- ⊗ Male and Female option
- ⊗ Latch ensures secure mating
- ⊗ Wedgelocks aid in the alignment and retention of contacts
- ⊗ Accepts 13-22 AWG Cable



RECTANGULAR  
Automotive Rectangular Connectors

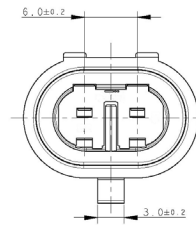


Automotive Rectangular Connector 1.5mm  
Male Terminals



PX2000

- 1, 2, 3, 4, 5 & 6 Contacts
- Male housing
- Socket contacts
- Available in black



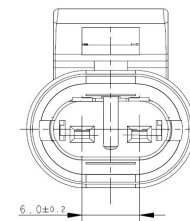
Part Number	Contacts	Termination	Colour
PX2000P01BK	1	Crimp	Black
PX2000P02BK	2	Crimp	Black
PX2000P03BK	3	Crimp	Black
PX2000P04BK	4	Crimp	Black
PX2000P05BK	5	Crimp	Black
PX2000P06BK	6	Crimp	Black

Automotive Rectangular Connector 1.5mm  
Female Terminals



PX2001

- 1,2,3,4,5 & 6 Contacts
- Female housing
- Plug contacts
- Available in black



Part Number	Contacts	Termination	Colour
PX2001S01BK	1	Crimp	Black
PX2001S02BK	2	Crimp	Black
PX2001S03BK	3	Crimp	Black
PX2001S04BK	4	Crimp	Black
PX2001S05BK	5	Crimp	Black
PX2001S06BK	6	Crimp	Black

# Automotive Rectangular Connectors



Contacts



SA1000

- Crimp plug & sockets
- Tin plated
- 1.5mm size Contacts

Part Number	Plating	AWG	Type	Plug / Socket
SA1022	Tin	13 - 15	Stamped	Plug
SA1023	Tin	13 - 15	Stamped	Socket
SA1024	Tin	15 - 18	Stamped	Plug
SA1025	Tin	15 - 18	Stamped	Socket
SA1026	Tin	20 - 22	Stamped	Plug
SA1027	Tin	20 - 22	Stamped	Socket

Seals



- Silicone seals
- Cavity diameter 5.5mm

Part Number	Description	Colour
SL0001	Rubber Plug Blanking Seal	Yellow
SL0002	Single Wire Seal 1.7mm to 2.4mm Cable	Yellow
SL0003	Single Wire Seal 2.5mm to 3.3mm Cable	Red
SL0004	Single Wire Seal 1.2mm to 1.6mm Cable	Green

Tooling



- Crimp tools available for solid and stamped contacts (closed and open barrel)

Part Number	Additional
10003	Crimping tool for Rectangular Connector stamped (open barrel) contacts - size 12, 16, and 20 - wire gauge 10-23 AWG
10004	Crimping tool for Rectangular Connector stamped (open barrel) contacts sealing hole - size 12, 16, and 20 - wire gauge 14-24 AWG

**Electrical:**

Voltage:	21VDC
No Contacts:	1,2,3,4,5 & 6
Insulation Resistance:	>200MΩ
Voltage Rating:	24V DC
Operating Temperature Range:	-40°C to +125°C
Current Rating	14A

**Mechanical:**

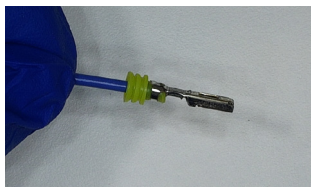
Sealing:	IP67 when mated
Contact Accommodation:	13-22 AWG (2.5-0.34mm <sup>2</sup> )
Termination:	Crimp terminals
Cycles:	>100
Contact Size:	1.5mm

**Material**

Grommet:	Silicone rubber
Seal:	Silicone rubber
Shell:	Rugged Glass Filled PBT
RoHS:	Compliant

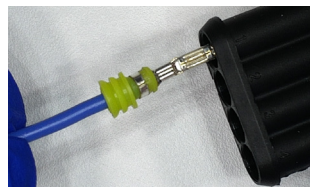
**Contact Insertion Instructions**

Step One:



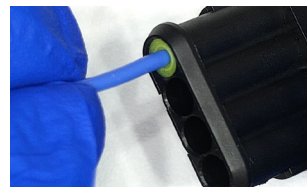
Use a previously crimped contact and wire and hold just behind the contact barrel.

Step Two:



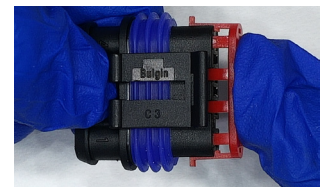
Line the contact up with the grommet.

Step Three:



Push the contact until a click is felt. Check the contact is in place by gently tugging and confirming alignment. Repeat for number of contacts desired

Step Four:



When contacts are in place, insert the appropriate wedgelock until a click is heard. Once male and female housings are prepared the parts can be mated

PX20	XX	X	XX	XX
Range	Body Type	Contact Type	Contacts	Colour
PX20	00 = 1.5mm Male Terminals 01 = 1.5mm Female Terminals	S = Socket P = Plug	01 02 03 04 05 06	GY = Grey BK = Black

## Looking for pricing, stock, or lifecycle information?

Click below to explore more details on WIN SOURCE:

- [View 10000 on WIN SOURCE](#)
- [Bulgin Information](#)

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