



Rectangular Connectors



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Rectangular Connectors



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
- 0 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



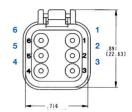


Standard Rectangular Connectors

Male



- O 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	Α	Crimp	Black	-
PX0100S08AGY	8	Α	Crimp	Grey	-
PX0100S12ABK	12	Α	Crimp	Black	-
PX0100S12AGY	12	Α	Crimp	Grey	-

Standard Rectangular Connectors

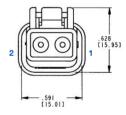
Male - ESR





PX0102

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



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

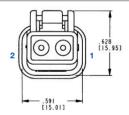
Standard Rectangular Connectors

Male - ESR & PEC





- PX0103
- O 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



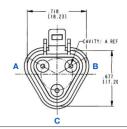
Standard Rectangular Connectors Male - PEC







- O 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	Α	Crimp	Black	PEC
PX0105S08AGY	8	Α	Crimp	Grey	PEC
PX0105S12ABK	12	Α	Crimp	Black	PEC
PX0105S12AGY	12	Α	Crimp	Grey	PEC

Standard Rectangular Connectors

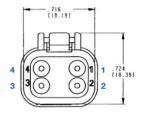
Male - SBA





PX0108

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



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

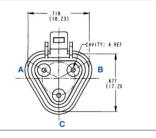
Standard Rectangular Connectors

Male - TER





- 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



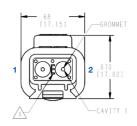
Standard Rectangular Connectors

Female



PX0101

- O 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	Grev	-
PX0101P03BK	3	-	Crimp	Black	-
PX0101P03GY	3	-	Crimp	Grev	-
PX0101P04BK	4	-	Crimp	Black	-
PX0101P04GY	4	-	Crimp	Grey	_
PX0101P06BK	6	-	Crimp	Black	-
PX0101P06GY	6	-	Crimp	Grey	_
PX0101P08ABK	8	Α	Crimp	Black	-
PX0101P08AGY	8	Α	Crimp	Grey	-
PX0101P12ABK	12	Α	Crimp	Black	-
PX0101P12AGY	12	Α	Crimp	Grey	_

Standard Rectangular Connectors

Female - PEC





PX0106

O 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	Grev	PEC
PX0106P03BK	3	-	Crimp	Black	PEC
PX0106P03GY	3	-	Crimp	Grey	PEC
PX0106P04BK	4	-	Crimp	Black	PEC
PX0106P04GY	4	-	Crimp	Grev	PEC
PX0106P06BK	6	-	Crimp	Black	PEC
PX0106P06GY	6	-	Crimp	Grey	PEC
PX0106P08ABK	8	Α	Crimp	Black	PEC
PX0106P08AGY	8	Α	Crimp	Grey	PEC
PX0106P12ABK	12	Α	Crimp	Black	PEC
PX0106P12AGY	12	Α	Crimp	Grey	PEC

Standard Rectangular Connectors

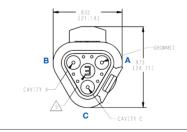
Female - SBA





PX0109

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



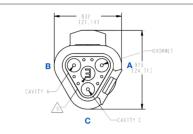
Part Number	Contacts	Key	Termination	Colour	Additional
PX0109P02BK	2	-	Crimp	Black	SBA
PX0109P02GY	2	-	Crimp	Grey	SBA
PX0109P03BK	3	-	Crimp	Black	SBA
PX0109P03GY	3	-	Crimp	Grey	SBA
PX0109P04GY	4	-	Crimp	Grey	SBA
PX0109P06GY	6	-	Crimp	Grey	SBA
PX0109P08GY	8	-	Crimp	Grey	SBA
PX0109P12AGY	12	-	Crimp	Grey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



Standard Rectangular Connectors



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



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

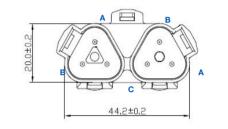
Standard Rectangular Connectors Female - YTY



PX0113

PX0111

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



Part Number	Contacts	Key	Termination	Colour	Additional
PX0113P03GY	3	_	Crimp	Grev	YTY



Contacts



- O Crimp plug & sockets
- Choice of gold and nickel Plated
- Green stripe available

O Size 16 contacts

SA1000

Part Number	Plating	AWG	Туре	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



- O Plug & sockets available
- O 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

WLP12

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	-

RECTANGULAR - Accessories Standard Rectangular Connectors



Tooling



- O Crimp tools available for solid and stamped contacts (closed and open barrel)
- O 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 harrel) contacts sealing hole - size 12, 16, and 20 - wire gauge 14-24 AWG



STANDARD SERIES DIMENSIONS





		Male		Female		
Cavity	Overall Length A	Overall Height B	Overall Width C	Overall Length D	Overall Height E	Overall Width F
2	1.118 (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: Mechanical:

Voltage: 250V IP68 when mated Sealing:

No Contacts: 2, 3, 4, 6, 8 & 12 Contact Accommodation: 14-20AWG (2.0-0.5mm2)

Insulation Resistance: $>1000M\Omega$ Termination: Crimp terminals

Cycles: >100 Dielectric

Withstanding Voltage: 1500 VAC Contact Size: 16

Operating Temperature Range: -55°C to +125°C

No damage when exposed

Current: 13A

Dielectric Strength:

Grommet:

Material Silicone rubber

Insert Retainer: PC/PBT

PC/PBT

Receptacle Interfacial Seal: Silicone Rubber

PC/PBT Shell:

Wedgelocks: RoHS: Compliant





Contact Layout (Rear View)







0000



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

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

RECTANGULAR - Specifications - Part Number System Standard Rectangular Connectors



PX0	XXX	X	XX	X	XX
Range	Body Type	Contact Type	Contacts	Key	Colour
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
- O IP68 rating when mated
- Male and Female options
- Latch ensures secure mating
- Avaliable with Protective End Caps (PEC)
- Wedgelocks aid in the alignment and retention of contacts
- O Accepts 14 22 AWG

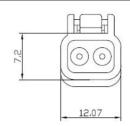




Miniature Rectangular Connectors



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



PX0010

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	Α	Crimp	Grey	-

Miniature Rectangular Connectors

Female



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



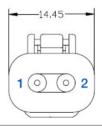
Part Number	Contacts	Key	Termination	Colour	Additional	
PX0011P02GY	2	-	Crimp	Grey	-	
PX0011P03GY	3	-	Crimp	Grey	-	
PX0011P04GY	4	-	Crimp	Grey	-	
PX0011P06GY	6	-	Crimp	Grey	-	
PX0011P08AGY	8	Α	Crimp	Grey	-	
PX0011P12AGY	12	Α	Crimp	Grey	-	

Miniature Rectangular Connectors Male - PEC



PX0012

- O 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	Grev	PEC	
PX0012S03GY	3	_	Crimp	Grey	PEC	
PX0012S04GY	4	-	Crimp	Grey	PEC	
PX0012S06GY	6	-	Crimp	Grev	PEC	
PX0012S08AGY	8	Α	Crimp	Grey	PEC	
PX0012S12AGY	12	А	Crimp	Grey	PEC	

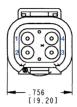


Miniature Rectangular Connectors Female - PEC



- Female housing
- Plug contacts
- Available in grey Protective end cap

O 2, 3, 4, 6, 8 & 12 Contacts



	•		T		A stattet a seal
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	Α	Crimp	Grey	PEC
PX0013P12AGY	12	Α	Crimp	Grev	PEC

Contacts



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

SA1000

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

Tooling



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

Part Number

Additional

10000 10002

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



Wedgelocks

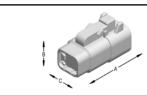


- O Plug & sockets available
- O 2, 3, 4, 6, 8 & 12 Contact
 - * Wedgelocks are sold separately and are required for confirmation of alignment of contact. Please refer to the chart above to determine part required.

WLM

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





				-			
		Male			Female		
Cavity	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: $>1000M\Omega$

Dielectric Withstanding

Voltage: 1500 VAC

Operating

Temperature Range: -55°C to +125°C

Current: 7.5A

Material

Grommet: Silicone rubber

Insert Retainer: PC/PBT

Receptacle Interfacial

Silicone rubber

Compliant

Shell: PC/PBT

Wedgelocks: PC/PBT

Use a previously crimped contact

and wire and hold just behind the

Contact Insertion Instructions

RoHS:

Step One:

Step Two:



Line the contact up with the grommet.

Mechanical:
Sealing:

IP68 when mated

Contact Accommodation:

14 - 22 AWG (2.50 - 0.35 mm²)

Termination: Crimp terminals

Cycles: >100

Contact Size: 20

Contact Layout (Rear View)

FEMALE







0 0 0 0 0 0 0 0 5 6 7 8 8 Contact



ALE.





6 0 0 5 0 0

8 7 6 5

1 2 3 4 5 6 0 0 0 0 0 0 0 0 0 0 0 0 12 11 10 9 8 7 12 Contact

Contact 12 Con

Step Three: Step Four:



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



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

contact barrel.

XX

X

XX

X

XX

Range

PX00

Body Type

10 = Male

11 = Female

12 = Male Protective End Cap

13 = Female Protective End Cap

Contact Type

S = Socket

P = Plug

Contacts

03

06 08

12

Key A = A Key

Colour

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:

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

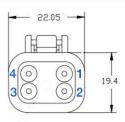




Power Rectangular Connectors



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



PX1000

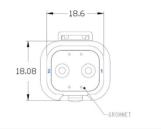
PX1001

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

Power Rectangular Connectors Female



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

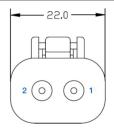


Termination Additional Part Number Colour **Contacts** Grey PX1001P02GY Crimp Crimp PX1001P04GY Grey

Power Rectangular Connectors Male - PEC



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

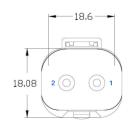


Part Number Contacts Termination Colour **Additional** PEC PEC 2 Grey PX1002S02GY Crimp PX1002S04GY Crimp Grey

Power Rectangular Connectors Female - PEC



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



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



Contacts



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

SA1000

Part Number	Plating	AWG	Туре	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



- O Plug & sockets available
- O 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.

WLP12

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

Tooling



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

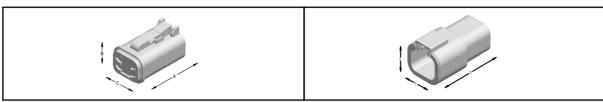
Part Number Additional

10004

Crimping tool for Rectangular Connector stamped (open barrel) contacts - size 12, 16, and 20 - wire gauge 10-23 AWG 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: $>1000M\Omega$

Dielectric Withstanding

Voltage: 1500 VAC

Operating

Temperature Range: -55°C to +125°C

Current: 25A

Material

Grommet: Silicone rubber

Insert Retainer: PC/PBT

Receptacle Interfacial

eal: Silicone rubber

Shell: PC/PBT

Wedgelocks: PC/PBT

RoHS: Compliant

Mechanical:

Sealing: IP68 when mated

Contact Accommodation: 10 - 14 AWG (3.0-2.0 mm²)

Termination: Crimp terminals

Cycles: >100

Contact Size: 12

Contact Layout (Rear View)

FEMALE





2 Contact







2 Contact

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

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

Range
PX10

Body Type

00 = Male

01 = Female

02 = Male Protective End Cap

03 = Female Protective End Cap

Contact Type

S = Socket

P = Plug

Contacts

04

02

Colour GY = Grey

BK = Black

Automotive Rectangular Connectors



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:

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



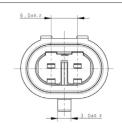
Automotive Rectangular Connectors



Automotive Rectangular Connector 1.5mm Male Terminals



- PX2000
- 0 1, 2, 3, 4, 5 & 6 Contacts
- Male housing
- Socket contacts
- Available in black



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

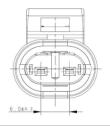
Automotive Rectangular Connector 1.5mm Female Terminals





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



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

SA1000

Part Number	Plating	AWG	Туре	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



- O Silicone seals
- O 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

RECTANGULAR - Specifications - Part Number System Automative Rectangular Connectors



Electrical:

Voltage: 21VDC

No Contacts: 1,2,3,4,5 & 6

Insulation Resistance: >200MΩ

24V DC Voltage Rating:

Operating
Temperature Range: -40°C to +125°C

Current Rating

Material

Grommet: Silicone rubber Seal:

Shell: Rugged Glass Filled PBT

Silicone rubber

RoHS: Compliant

Mechanical:

Sealing: IP67 when mated

13-22 AWG (2.5-0.34mm2) Contact Accommodation:

Termination: Crimp terminals

Cycles: >100

Contact Size: 1.5mm

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	S = Socket	01	GY = Grey
	01 = 1.5mm Female Terminals	P = Plug	02	BK = Black
			03	
			04	
			05	
			06	
		1 1		1