bulgin

6000 Series Buccaneer – circular connectors that combine the ease of use of a push/pull coupling mechanism with proven environmental sealing. Available with metal or plastic bodies, the range supports both data (USB and Ethernet), signal and mains power. Designed and independently tested to IP66, IP68 & IP69K standards, they are ideal for applications where ingress of dust and water must be avoided and where ease of connection, space and appearance are important considerations.

- Secure, quick connector mating and release

- 30° twist locking
  Tamperproof lock prevents accidental un-mating

- IP66, IP68 and IP69K when mated
  Suitable for a wide range of dust and water borne environments

- All plastic body version; UL94-V0 rated, UV stable,
  halogen free
  Light-weight, self-extinguishing material suitable for long-term outdoor use

- Flex, Inline & panel mount body styles,with sealing caps
  Complete family of products maintain sealing integrity in all styles

- Polarisation and visual alignment features
  Aids the correct mating of connectors

- 2 to 22 Contacts – up to 16A, 277V rated
  Suitable for mains power to signal applications

- 'Scoop proof' contacts
  Prevents damage through mis-mating – ideal for 'blind mating' applications

- cULus, UL, VDE
  Internationally recognised certification

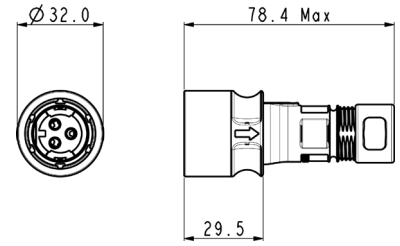- Screw, Crimp and Solder terminations available

Flex Cable Connector

- Mates with Inline or Panel Mounting versions PXP6011 & PXP6012
- Push/pull locking ring with 30° twist locking
- Plug or socket versions
- Leading earth on 3 Contact connectors
- 2, 3, 8, 16 & 22 Contact
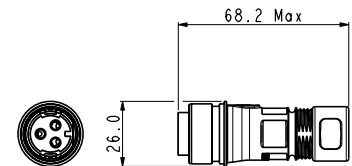- Screw, solder and crimp termination

PXP6010

Ø32.0   78.4 Max   29.5

Contacts	Termination	Plug Contacts	Socket Contacts	Contacts
2	Screw	PXP6010/02P/ST	PXP6010/02S/ST	Supplied Fitted
2	Crimp / Solder	PXP6010/02P/CR	PXP6010/02S/CR	Contacts Required
3	Screw	PXP6010/03P/ST	PXP6010/03S/ST	Supplied Fitted
3	Crimp / Solder	PXP6010/03P/CR	PXP6010/03S/CR	Contacts Required
8	Crimp / Solder	PXP6010/08P/CR	PXP6010/08S/CR	Contacts Required
16	Crimp / Solder	PXP6010/16P/CR	PXP6010/16S/CR	Contacts Required
22	Crimp / Solder	PXP6010/22P/CR	PXP6010/22S/CR	Contacts Required

Inline Cable Connector

- Mates with Flex Cable connector PXP6010
- For Inline cable connection
- Plug or socket versions
- Leading earth on 3 Contact connectors
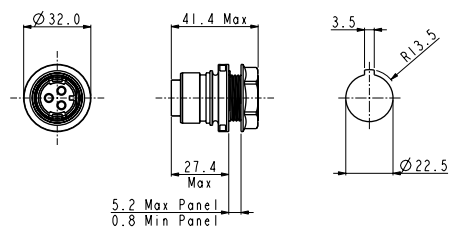- 2, 3, 8, 16 and 22 Contact
- Screw, solder and crimp termination

PXP6011

68.2 Max   26.0

Contacts	Termination	Plug Contacts	Socket Contacts	Contacts
2	Screw	PXP6011/02P/ST	PXP6011/02S/ST	Supplied Fitted
2	Crimp / Solder	PXP6011/02P/CR	PXP6011/02S/CR	Contacts Required
3	Screw	PXP6011/03P/ST	PXP6011/03S/ST	Supplied Fitted
3	Crimp / Solder	PXP6011/03P/CR	PXP6011/03S/CR	Contacts Required
8	Crimp / Solder	PXP6011/08P/CR	PXP6011/08S/CR	Contacts Required
16	Crimp / Solder	PXP6011/16P/CR	PXP6011/16S/CR	Contacts Required
22	Crimp / Solder	PXP6011/22P/CR	PXP6011/22S/CR	Contacts Required

Front Panel Mounting Connector

- Mates with Flex Cable connectors PXP6010
- Front panel mounting
- Single hole fixing
- Plug or socket versions
- Leading earth on 3 Contact connectors
- 2, 3, 8, 16 and 22 Contact
- Screw, solder and crimp termination

PXP6012

Ø32.0   41.4 Max   3.5   R13.5   27.4 Max   Ø22.5   5.2 Max Panel   0.8 Min Panel

Contacts	Termination	Plug Contacts	Socket Contacts	Contacts
2	Screw	PXP6012/02P/ST	PXP6012/02S/ST	Supplied Fitted
2	Crimp / Solder	PXP6012/02P/CR	PXP6012/02S/CR	Contacts Required
3	Screw	PXP6012/03P/ST	PXP6012/03S/ST	Supplied Fitted
3	Crimp / Solder	PXP6012/03P/CR	PXP6012/03S/CR	Contacts Required
8	Crimp / Bolder	PXP6012/08P/CR	PXP6012/08S/CR	Contacts Required
16	Crimp / Solder	PXP6012/16P/CR	PXP6012/16S/CR	Contacts Required
22	Crimp / Solder	PXP6012/22P/CR	PXP6012/22S/CR	Contacts Required

Flex Cable Connector

PXM6010

- Mates with Inline or Panel Mounting versions PXM6011 and PXM6012
- Push/pull locking ring with 30° twist locking
- Plug or socket versions
- Leading earth on 3 Contact connectors
- 2, 3, 8, 16 and 22 Contact
- Screw, solder and crimp termination
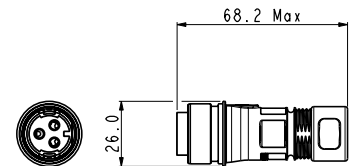- Cable braid termination accessory option, add /SNsuffix
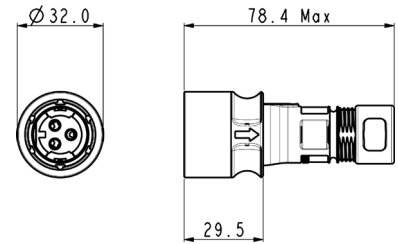
Contacts	Termination	Plug Contacts	Socket Contacts	Contacts
2	Screw	PXM6010/02P/ST	PXM6010/02S/ST	Supplied Fitted
2	Crimp / Solder	PXM6010/02P/CR	PXM6010/02S/CR	Contacts Required
3	Screw	PXM6010/03P/ST	PXM6010/03S/ST	Supplied Fitted
3	Crimp / Solder	PXM6010/03P/CR	PXM6010/03S/CR	Contacts Required
8	Crimp / Solder	PXM6010/08P/CR	PXM6010/08S/CR	Contacts Required
16	Crimp / Solder	PXM6010/16P/CR	PXM6010/16S/CR	Contacts Required
22	Crimp / Solder	PXM6010/22P/CR	PXM6010/22S/CR	Contacts Required

Inline Cable Connector

PXM6011

- Mates with Flex Cable connector PXM6010
- For Inline cable connection
- Plug or socket versions
- Leading earth on 3 Contact connectors
- 2, 3, 8, 16 and 22 Contact
- Screw, solder and crimp termination
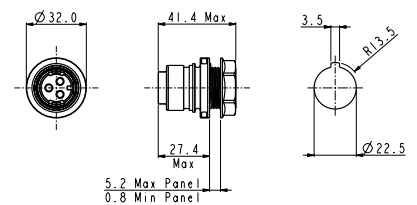- Cable braid termination accessory option, add /SNsuffix

Contacts	Termination	Plug Contacts	Socket Contacts	Contacts
2	Screw	PXM6011/02P/ST	PXM6011/02S/ST	Supplied Fitted
2	Crimp / Solder	PXM6011/02P/CR	PXM6011/02S/CR	Contacts Required
3	Screw	PXM6011/03P/ST	PXM6011/03S/ST	Supplied Fitted
3	Crimp / Solder	PXM6011/03P/CR	PXM6011/03S/CR	Contacts Required
8	Crimp / Solder	PXM6011/08P/CR	PXM6011/08S/CR	Contacts Required
16	Crimp / Solder	PXM6011/16P/CR	PXM6011/16S/CR	Contacts Required
22	Crimp / Solder	PXM6011/22P/CR	PXM6011/22S/CR	Contacts Required

Front Panel Mounting Connector

PXM6012

- Mates with Flex Cable connectors PXM6010
- Single hole fixing
- Plug or socket versions
- Leading earth on 3 Contact connectors
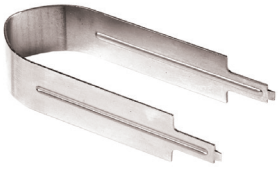- 2, 3, 8, 16 and 22 Contact
- Screw, solder and crimp termination

Contacts	Termination	Plug Contacts	Socket Contacts	Contacts
2	Screw	PXM6012/02P/ST	PXM6012/02S/ST	Supplied Fitted
2	Crimp / Solder	PXM6012/02P/CR	PXM6012/02S/CR	Contacts Required
3	Screw	PXM6012/03P/ST	PXM6012/03S/ST	Supplied Fitted
3	Crimp / Solder	PXM6012/03P/CR	PXM6012/03S/CR	Contacts Required
8	Crimp / Solder	PXM6012/08P/CR	PXM6012/08S/CR	Contacts Required
16	Crimp / Solder	PXM6012/16P/CR	PXM6012/16S/CR	Contacts Required
22	Crimp / Solder	PXM6012/22P/CR	PXM6012/22S/CR	Contacts Required

Crimp / Solder Contacts

2, 3, 8, 16 & 22 Contact contacts

⬡ Gold Plated
⬡ Current ratings:
  2 & 3 Contact : 16A
  8 Contact : 10A
  16 Contact : 3A
  22 Contact : 2A

Contacts (for 2 & 3 Contact) (Supplied in packs of 10)	Crimp	Solder
Plugs	SA3545/P	SA3624/P
Sockets	SA3545/S	SA3624/S

Contacts (for 8 Contact) (Supplied in packs of 10)	Crimp	Solder
Plugs	SA3544/P	SA3623/P
Sockets	SA3544/S	SA3623/S

Contacts (for 16 & 22 Contact) (Supplied in packs of 10)	Crimp	Solder
Plugs	SA3542/P	SA3622/P
Sockets	SA3542/S	SA3622/S

Crimp Tooling

PNo 14232

⬡ Crimp Tools for 2, 3, 8, 16 and 22 Contact crimp contacts

Crimp Tooling

Crimp Tool (2 & 3 Contact)	PNo.14232
Positioner (2 & 3 Contact)	PNo.14232/2/SP
Crimp Tool (8, 16 & 22 Contact)	PNo.14025
Positioner (8 Contact)	PNo.15021/SP
Positioner (16 & 22 Contact)	PNo.15019/SP

Extraction Tool

⬡ Extraction Tool for 2, 3, 8, 16 and 22 Contact contacts

Extraction Tools

|	
Extraction Tool (2 & 3 Contact)	PNo.14946/SP
Extraction Tool (8 Contact)	PNo.14945/SP
Extraction Tool (16 & 22 Contact)	PNo.14944/SP

Contact Carrier Removal Tool

PNo 14917

⬡ For removal of all contact carriers

Tools

Contact carrier removal tool (all Contacts)	PNo. 14917/SP

6000 Series Buccaneer

Accessories

Sealing Caps

PXM6083   PXM6082   PXM6081

- Maintains IP Rating of Unmated Connectors
- PXM6081: Fits PXM6010 (Flex Connector)
- PXM6082: Fits PXM6011 (Inline Connector)
- PXM6083: Fits PXM6012 (Panel Connector)

31.5   125.0 CRS   Ø32.0   PXM6081
39.3   121.0 CRS   Ø32.0   PXM6082
39.3   96.0 CRS   Ø32.0   PXM6083
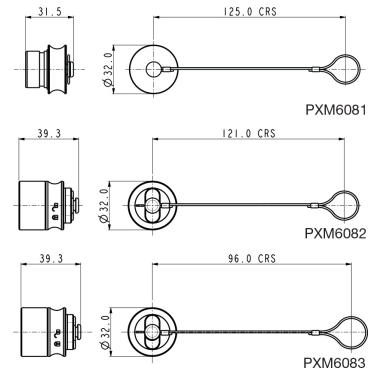
Plastic Sealing Caps

PXP6083   PXP6082   PXP6081

- Maintains IP Rating of Unmated Connectors
- PXP6081: Fits PXP6010 (Flex Connector)
- PXP6082: Fits PXP6011 (Inline Connector)
- PXP6083: Fits PXP6012 (Panel Connector)

31.5   125.0 CRS   Ø32.0   PXP6081
39.3   121.0 CRS   Ø32.0   PXP6082
39.3   96.0 CRS   Ø32.0   PXP6083
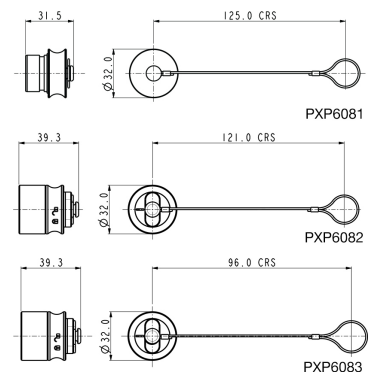
Cable Gland Pack

PXP6088

- Pack of all cable glands to suit cable ranges from 4.0 to 10.0mm diameter
- Light Grey: 9-10mm
- Yellow: 7-9mm
- White: 5-7mm
- Dark Grey: 4-5mm

Cable Braid Termination Option

PXM6090

- For cable braid termination
- Supplied with ty-rap

| **PXX** | **601X** | / | **XX** | **X** | / | **XX** | / | **XXXX** | / | **XX** |

Series Designation	Series / Body Style	No. of Contacts	Contacts Type	Terminations	Cable Entry Size	Cable Brand Termination Accessory
PXM= Metal Series	6010 = Flex	02	P = Plug	CR = Contacts Required	(for Flex and Inline connectors only)	(for Flex and Inline connectors only)
PXP= Plastic Series	6011 = Inline	03	S = Socket	ST = Screw	0405 = 4-5mm (Dark Grey)	SN if required
	6012 = Front Panel	08		(2 and 3 Contact only)		Blank if not required
		16			0507 = 5-7mm (White)	
		22				
					0709 = 7-9mm (Yellow)	
					0910 = 9-10mm (Light Grey)	

Examples

PXM6010/03P/CR/0507= Flex cable connector, 3 Contact, Plug contacts with 5 to 7mm cable glands
PXM6012/03/S/ST= Front panel mounting connector, 3 Contact, socket with screw
termination

Electrical:

No. Contacts:	2	3	8	16	22

Current Rating:
See de-rating curves for further information

	2	3	8	16	22
VDE	16A	16A	10A	3A	2A
UL	16A	16A	7A	3A	3A
cUL	11A	11A	4A	1.5A	1.5A

Voltage	277V	277V	277V	60V	60V

Rated cable	14 AWG	14 AWG	16-20 AWG	22 AWG	26 AWG

Contact Resistance:	<10mΩ
Insulation Resistance:	>10^{6}MΩ @500V DC
AC Breakdown voltage:	
2 Contact	>10kV
3 Contact	>8kV
8 to 22 Contact	>5kV

Operating Temp. Range:	–40°C to +120°C

Approvals:

UL (E214972)
cULus (E214972)
VDE (40039281)

UL1977
C22.2 No.182.3-M1987 (R2009)
IEC 61984:2009

Mechanical:

Locking mechanism	Push/pull with 30° locking Patent applied for
Sealing:	IP66 to En60529:1992+A2:2013 IP68 to En60529:1992+A2:2013 (10m depth for 2 weeks) IP69k to DIN 40050-9
Salt Mist (plastic) :	EN60068-2-52 Test Kb Salt Mist (Cyclic) Marine Severity Level 1
Salt Mist (metal) :	EN60068-2-11 Test Ka Salt Mist

Contact Accommodation:

2 & 3 Contact crimp / solder	14 to 18AWG
2 & 3 Contact screw terminals	1.5mm² max
8 Contact crimp / solder	18 to 20AWG
16 Contact crimp / solder	22 to 26AWG
22 Contact crimp / solder	22 to 26AWG

Cable Acceptance:	4-10mm dia.

Cable retention force (to BS EN61984):

4 - 9mm dia cable	80N
9 - 10mm dia cable	100N

Terminations:

2 Contact:	Screw Terminals
3 Contact:	Screw, crimp or solder terminals
8 Contact:	Crimp / Solder Contacts
16 Contact:	Crimp / Solder Contacts
22 Contact:	Crimp / Solder Contacts

Tightening Torques:

Gland Nut:	1.13Nm (10lb.in)
Panel Nut:	1.7Nm (15lbf.in.)
Panel Nut Thread:	M22 x 1.5-6g

Dimensions:

Diameter: (over coupling ring)	32mm
Diameter: (panel hole cut-out)	22.5mm

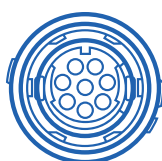## Materials:

	Plastic	Metal
Body:	PC/ PBT	Brass
Colour:	Grey	Matt silver
Contacts:	Brass, Nickel Plate (Screw and Crimp) Brass, (3A – Gold plated)	Brass, Nickel Plate (Screw and Crimp) Brass, (3A – Gold plated)
O Rings & Gaskets:	Silicone	Silicone
Flammability Rating:	UL94 V-0	-
Halogen free	Yes	-
UV Resistance:	ISO 4892 part 3 cycle 1 (QUV)	-
RoHS	Compliant	Compliant
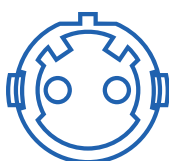
2 Contact (16 Amp)	3 Contact (16 Amp)	8 Contact (10 Amp)	16 Contact (3 Amp)	22 Contact (2 Amp)
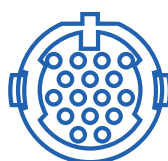
6000 Series Buccaneer

bulgin
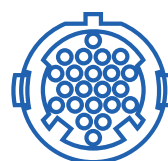
The thermal properties of the materials used in the construction of a connector limit the current carrying capacity. There are a number of factors that determine the amount of current that can be handled: contact spacing, size of cable, ambient temperature and the heat that is generated by the current passing through the connector.

The maximum current varies with different contact layouts, and because of these factors it is necessary to produce de-rating curves for each contact variant. This de-rating curve is specified in the standard IEC 60512 part 3. De-rating curves are plotted for each contact
carrier combination with the current being carried simultaneously by all contacts. These graphs show the heat rise generated as the current is increased.

The red line indicates the direct correlation between current applied and the measured temperature rise within the connector. The dotted blue line shows rated current and the green line is derived by applying a factor of 0.8 to the original plot data to give a de-rating curve. The dashed blue line shows the rated current.

The shaded area under the 0.8 curve shows the permitted operating area, and allows safe current vs ambient temperature characteristics to be determined.

—— = tested operating limits
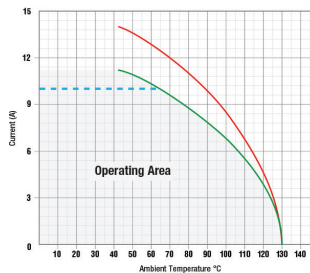—— = de-rated operating limits
– – = rated current

2 Pole, Metal Body, Crimp Terminal, 18 AWG wire
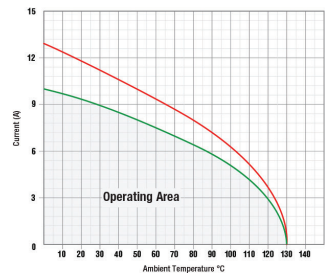current applied through all pins simultaneously
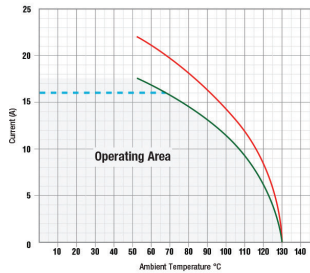
3 Pole, Metal Body, Screw Terminal, 18 AWG wire
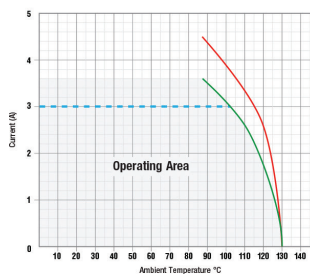current applied through all pins simultaneously
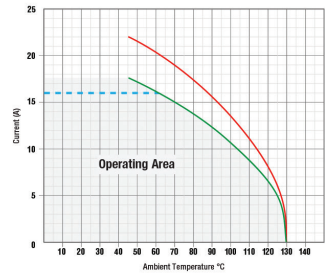
8 Pole, Metal Body, Crimp Terminal, 18 AWG wire
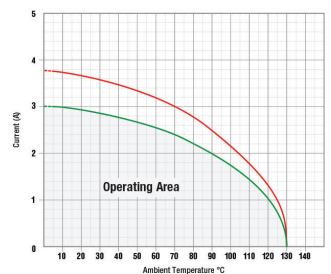current applied through all pins simultaneously

8 Pole, Metal Body, Crimp Terminal, 20 AWG wire
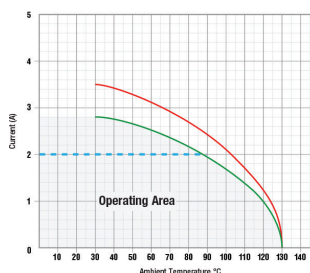current applied through all pins simultaneously

16 Pole, Metal Body, Crimp Terminal, 22 AWG wire
current applied through all pins simultaneously

16 Pole, Metal Body, Crimp Terminal, 26 AWG wire
current applied through all pins simultaneously

22 Pole, Metal Body, Crimp Terminal, 26 AWG wire
current applied through all pins simultaneously

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