

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.

O 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
- O Screw, Crimp and Solder terminations available





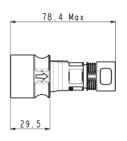
Flex Cable Connector



- O Mates with Inline or Panel Mounting versions PXP6011 & PXP6012
- Push/pull locking ring with 30° twist locking
- \bigcirc Plug or socket versions
- Leading earth on 3 Contact connectors 2, 3, 4, 8, 16 & 22 Contact Ó
- \bigcirc ○ Screw, solder and crimp termination

PXP6010



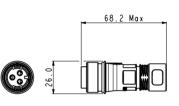


Contacts	Termination	Plug Contacts	Socket Contacts	Contacts
2	Screw	PXP6010/02P/ST	PXP6010/02S/ST	Supplied Fitted
2	Crimp / Solder	PXP6010/02P/CR	PXP6010/02S/CR	Contacts Required
3	Screw	PXP6010/03P/ST	PXP6010/03S/ST	Supplied Fitted
3	Crimp / Solder	PXP6010/03P/CR	PXP6010/03S/CR	Contacts Required
4	Crimp / Solder	PXP6010/04P/CR	PXP6010/04S/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



- O Mates with Flex Cable connector PXP6010
- For Inline cable connection
- \bigcirc Plug or socket versions
- Leading earth on 3 Contact connectors
- 2, 3, 4, 8, 16 and 22 Contact
- \bigcirc Screw, solder and crimp termination



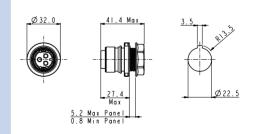
PXP6011

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
4	Crimp / Solder	PXP6011/04P/CR	PXP6011/04S/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



- \bigcirc Mates with Flex Cable connectors PXP6010
- Front panel mounting
- Single hole fixing \bigcirc
- Plug or socket versions \bigcirc
- \bigcirc Leading earth on 3 Contact connectors
- 2, 3, 4, 8, 16 and 22 Contact
- O Screw, solder and crimp termination



PXP6012

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
4	Crimp / Solder	PXP6012/04P/CR	PXP6012/04S/CR	Contacts Required
8	Crimp / Solder	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

Thermo Plastic



Screwed Front Panel Mounting Connector	 Mates with Flex Cable connectors PXP6010 Front panel mounting M24x1.5 thread to engage the connector to the panel Plug or socket versions Leading earth on 3 Contact connectors 2, 3, 4, 8, 16 and 22 Contact Screw, solder and crimp termination 	41 30 1/32 1/32 6 MH PANEL
PXP6014		

Contacts	Termination	Plug Contacts	Socket Contacts	Contacts
2	Screw	PXP6014/02P/ST	PXP6014/02S/ST	Supplied Fitted
2	Crimp / Solder	PXP6014/02P/CR	PXP6014/02S/CR	Contacts Required
3	Screw	PXP6014/03P/ST	PXP6014/03S/ST	Supplied Fitted
3	Crimp / Solder	PXP6014/03P/CR	PXP6014/03S/CR	Contacts Required
4	Crimp / Solder	PXP6014/04P/CR	PXP6014/04S/CR	Contacts Required
8	Crimp / Solder	PXP6014/08P/CR	PXP6014/08S/CR	Contacts Required
16	Crimp / Solder	PXP6014/16P/CR	PXP6014/16S/CR	Contacts Required
22	Crimp / Solder	PXP6014/22P/CR	PXP6014/22S/CR	Contacts Required

Metal Version

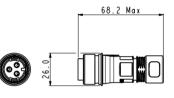


Flex Cable Connector		Mounting and PXM6 Push/pull twist locki Plug or so Leading ex connector 2, 3, 4, 8, Screw, sol Cable brai	locking ring with 30° ng cket versions arth on 3 Contact	Ø 32.0	78.4 Max
Contacts	Termination	Plug Contacts	Socket Contacts	Contacts	
2	Screw	PXM6010/02P/ST	PXM6010/02S/ST	Supplied 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	
4	Crimp / Solder	PXM6010/04P/CR	PXM6010/04S/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



- Mates with Flex Cable connector PXM6010
 For Inline cable connection
- O Plug or socket versions
- Leading earth on 3 Contact connectors
- 2, 3, 4, 8, 16 and 22 Contact
- O Screw, solder and crimp termination
- Cable braid termination accessory option, add /SNsuffix



PXM6011

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
4	Crimp / Solder	PXM6011/04P/CR	PXM6011/04S/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

Contacts

2

2

3

3

4

8

16

22



Termination

Crimp / Solder

Crimp / Solder

Crimp / Solder

. Crimp / Solder

Crimp / Solder

. Crimp / Solder

Screw

Screw

\bigcirc	Mates with	Flex Cable
	connectors	PXM6010

Single hole fixing

PXM6012/22P/CR

- Plug or socket versions
- Leading earth on 3 Contact connectors
- Q 2, 3, 4, 8, 16 and 22 Contact
- \bigcirc $\;$ Screw, solder and crimp termination

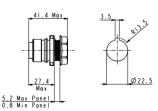
PXM6012



PXM6012/22S/CR

Contacts

Supplied Fitted Contacts Required Supplied Fitted Contacts Required Contacts Required Contacts Required Contacts Required



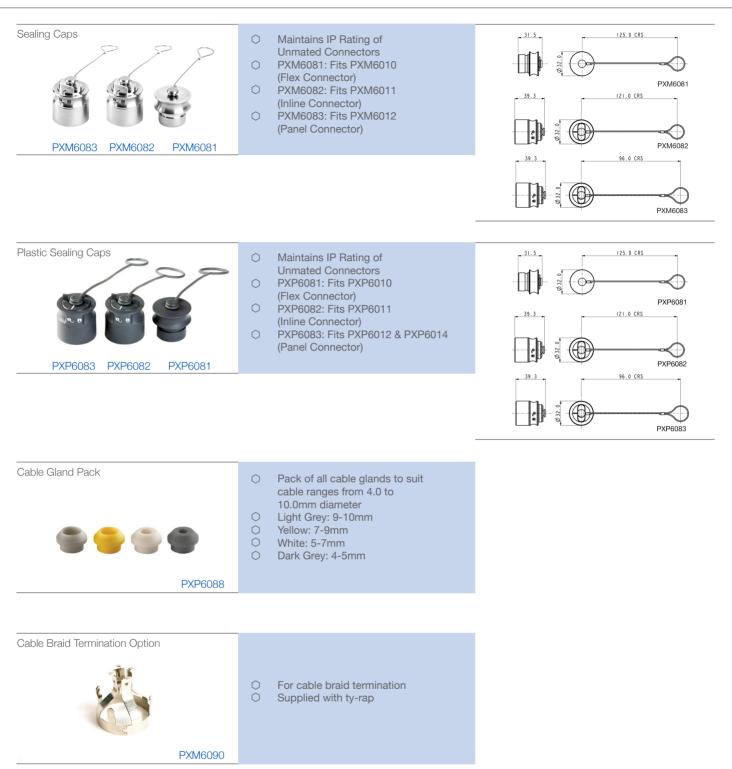


Crimp / Solder Contacts	0	Gold Plated Current ratings: 2 & 3 Contact : 16A	Contacts (for 2 & 3 Contact) (Supplied in packs of 10) Plugs Sockets	Crimp SA3545/P SA3545/S	Solder SA3624/P SA3624/S
2, 3, 4, 8, 16 & 22 Contact contacts		4 & 8 Contact : 10A 16 Contact : 3A 22 Contact : 2A	Contacts (for 4 & 8 Contact) (Supplied in packs of 10) Plugs Sockets		
			Contacts (for 16 & 22 Contact) (Supplied in packs of 10) Plugs Sockets	Crimp SA3542/P SA3542/S	Solder SA3622/P SA3622/S
Crimp Tooling	0	Crimp Tools for 2, 3, 4, 8, 16 and 22 Contact crimp contacts	Crimp Tooling Crimp Tool (2 & 3 Contact) Positioner (2 & 3 Contact) Crimp Tool (4, 8, 16 & 22 Cont Positioner (4 & 8 Contact) Positioner (16 & 22 Contact)		232/2/SP 025 021/SP
Extraction Tool			Extraction Tools Extraction Tool (2 & 3 Contact)	PNo.14946/	SP

Contact Carrier Removal Tool		Tools
PNo 14917	 For removal of all contact carriers 	Contact carrier removal tool PNo. 14917/SP (all Contacts)

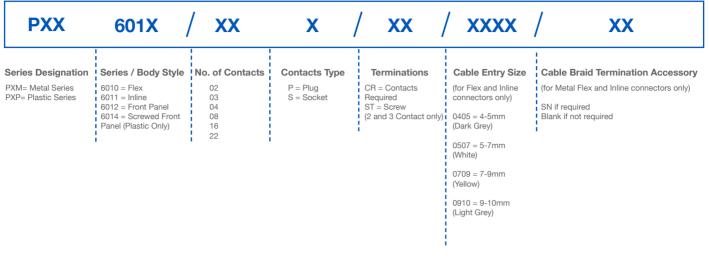
Accessories





Part No System





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:							Mechanical:	
No. Contacts:	2	3	4	8	16	22	Locking mechanism	Push/pull with 30° locking
Current Rating: See de-rating curves for further information							Sealing:	IP66 to En60529:1992+A2:2013 IP68 to En60529:1992+A2:2013 (10m depth
VDE UL	16A 16A	16A 16A	10A 7A	10A 7A	3A 3A	2A 3A		for 2 weeks) IP69k to DIN 40050-9
cUL	11A	11A	4A	4A	1.5A	1.5A	Salt Mist (plastic) :	EN60068-2-52 Test Kb Salt Mist (Cyclic)
Voltage	277V	277V	277V	277V	60V	60V		Marine Severity Level 1
Rated cable	14 AWG	14 AWG	16-20 AWG			26 AWG	Salt Mist (metal) :	EN60068-2-11 Test Ka Salt Mist
Contact Resistance: Insulation Resistance: AC Breakdown voltage: 2 Contact 3 Contact 4 to 22 Contact	>10k\ >8kV	IΩ @500	IV DC				Contact Accommodation: 2 & 3 Contact crimp / solder 2 & 3 Contact screw terminals 4 & 8 Contact crimp / solder 16 Contact crimp / solder 22 Contact crimp / solder	14 to 18AWG 16 AWG Max 18 to 20AWG 22 to 26AWG 22 to 26AWG
Operating Temp. Range:	>5kV	to +120					Cable Acceptance:	4-10mm dia.
Approvals: N UL (E214972) N CULus (E214972) N VDE (40039281)	UL197 C22.2	77 No.182	.3-M198	37 (R20	09)		Cable retention force (to BS EN61984): 4 - 9mm dia cable 9 - 10mm dia cable	80N 100N
UDE (40033201)	IEC 0	1984:20(ы				Terminations: 2 Contact: 3 Contact: 4 Contact: 8 Contact: 16 Contact: 22 Contact: Tightening Torques:	Screw Terminals Screw, crimp or solder terminals Crimp / Solder Contacts Crimp / Solder Contacts Crimp / Solder Contacts Crimp / Solder Contacts
							Gland Nut: Panel Nut: PXP 6014	1.13Nm (10lb.in.) 1.7Nm (15lbf.in.) 2Nm (17.7lbf.in.)
							Panel Nut Thread:	M22 x 1.5-6g
							Dimensions: Diameter: (over coupling ring) Diameter: (panel hole cut-out)	32mm 22.5mm
Materials:	Plastic					Ме	tal	
Body:	PC/ PB	Г				Bra	SS	
Colour:	Grey					Mat	t 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











4 Contact

16 Contact

22 Contact

Current Carrying Capacity



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.

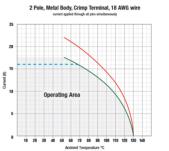
The maximum current varies with different contact layouts, and because of these factors it is necessary to produce de-rating curves for each contact variant. This de-rating curve is specified in the standard IEC 60512 part 3. De-rating curves are plotted for each contact

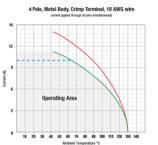
carrier combination with the current being carried simultaneously by all contacts. These graphs show the heat rise generated as the current is increased.

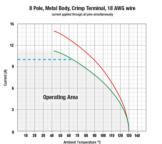
The red line indicates the direct correlation between current applied and the measured temperature rise within the connector. The dotted blue line shows rated current and the green line is derived by applying a factor of 0.8 to the original plot data to give a de-rating curve. The dashed blue line shows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

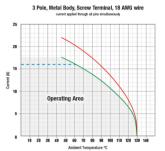
The shaded area under the 0.8 curve shows the permitted operating area, and allows safe current vs ambient temperature characteristics to be determined.

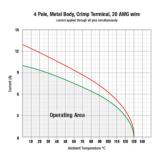
- = tested operating limits
- = de-rated operating limits
- = rated current

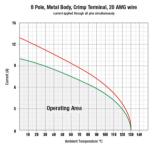


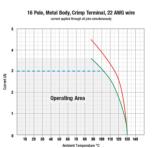




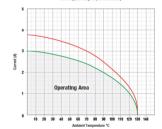












22 Pole, Metal Body, Crimp Terminal, 26 AWG wire

