

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, flex in-line & 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 poles 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



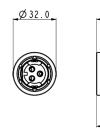
Thermo Plastic

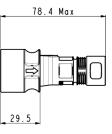


Flex Cable Connector



- Mates with In-Line Flex or Panel Mounting versions PXP6011 & PXP6012
- Push/pull locking ring with 30° twist locking
- O Pin or socket versions
- C Leading earth on 3 pole connectors
- Q 2, 3, 8, 16 & 22 pole
- O Screw, solder and crimp termination



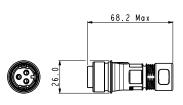


Poles	Termination	Pin Contacts	Socket Contacts	Contacts
2	Screw	PXP6010/02P/ST	PXP6010/02S/ST	Supplied Fitted
2	Crimp / Solder	PXP6010/02P/CR	PXP6010/02S/CR	Contacts Required
3	Screw	PXP6010/03P/ST	PXP6010/03S/ST	Supplied Fitted
3	Crimp / Solder	PXP6010/03P/CR	PXP6010/03S/CR	Contacts Required
8	Crimp / 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

In-line Flex Cable Connector



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



PXP6011

PXP6010

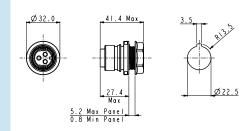
Poles	Termination	Pin Contacts	Socket Contacts	Contacts
2	Screw	PXP6011/02P/ST	PXP6011/02S/ST	Supplied Fitted
2	Crimp / Solder	PXP6011/02P/CR	PXP6011/02S/CR	Contacts Required
3	Screw	PXP6011/03P/ST	PXP6011/03S/ST	Supplied Fitted
3	Crimp / Solder	PXP6011/03P/CR	PXP6011/03S/CR	Contacts Required
8	Crimp / 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
- Pin or socket versionsLeading earth on 3 pole
- connectors
- Q 2, 3, 8, 16 and 22 pole

Screw, solder and crimp termination



PXP6012

Poles	Termination	Pin 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 / 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

Metal Version



Flex Cable Conr		Mounting and PXM6 Push/pull twist locki Pin or soc Leading e connector 2, 3, 8, 16 Screw, sol Cable brai	locking ring with 30° ng ket versions arth on 3 pole	Ø 32.0	78.4 Max
Poles	Termination	Pin Contacts	Socket Contacts	Contacts	
2 2 3 8 16 22	Screw Crimp / Solder Screw Crimp / Solder Crimp / Solder Crimp / Solder Crimp / Solder	PXM6010/02P/ST PXM6010/02P/CR PXM6010/03P/ST PXM6010/03P/CR PXM6010/08P/CR PXM6010/16P/CR PXM6010/22P/CR	PXM6010/02S/ST PXM6010/02S/CR PXM6010/03S/ST PXM6010/03S/CR PXM6010/08S/CR PXM6010/16S/CR PXM6010/22S/CR	Supplied Fitted Contacts Required Supplied Fitted Contacts Required Contacts Required Contacts Required Contacts Required	
In-line Flex Cabl		 connector For in-line Pin or soc Leading exconnector 2, 3, 8, 16 Screw, sol Cable brain 	n Flex Cable PXM6010 cable connection ket versions arth on 3 pole s and 22 pole der and crimp termination d termination	9 0	

PXM6011

PXM6012

Po	oles	Termination	Pin 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

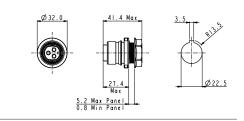
Front Panel Mounting Connector



Mates with Flex Cable connectors PXM6010
 Front panel mounting

- Single hole fixing
- Pin or socket versions
 Leading earth on 3 pole
- connectors ○ 2, 3, 8, 16 and 22 pole

Screw, solder and crimp termination



Poles	Termination	Pin 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

PNo 14917

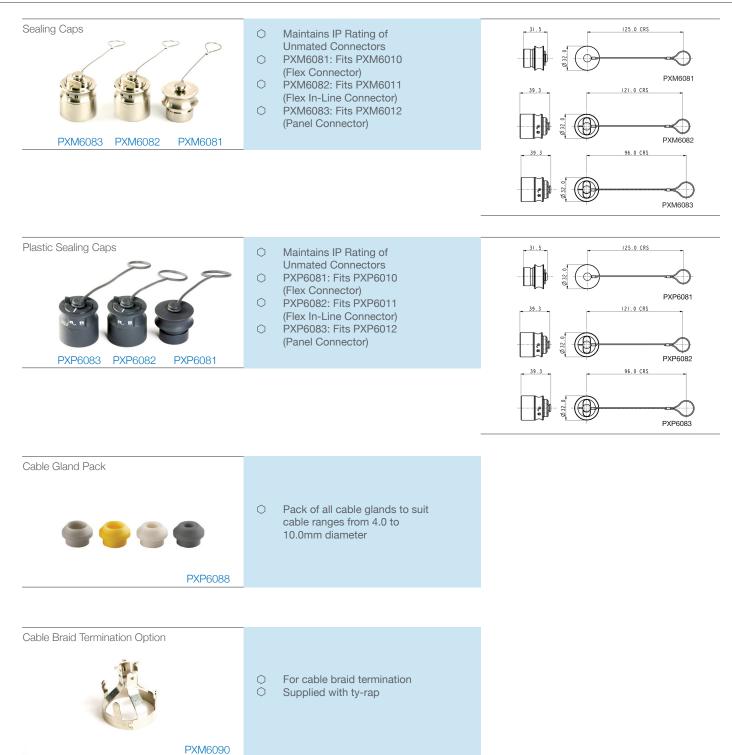
Accessories



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Crimp / Solder Contacts	0	Gold Plated	Contacts (for 2 & 3 pole) (Supplied in packs of 10)	Crimp	Solder
	0	Current ratings: 2 & 3 pole : 16A 8 pole : 10A	Pins Sockets	SA3545/P SA3545/S	SA3624/P SA3624/S
		16 pole : 3A 22 pole : 2A	Contacts (for 8 pole) (Supplied in packs of 10)	Crimp	Solder
2, 3, 8, 16 & 22 pole contacts			Pins Sockets	SA3544/P SA3544/S	SA3623/P SA3623/S
			Contacts (for 16 & 22 pole) (Supplied in packs of 10)	Crimp	Solder
			Pins Sockets	SA3542/P SA3542/S	SA3622/P SA3622/S
Crimp Tooling			Crimp Tooling		
EBUL GIN ?	0	Crimp Tools for 2, 3, 8, 16 and 22 pole crimp contacts	Crimp Tool (2 & 3 pole) Positioner (2 & 3 pole) Crimp Tool (8, 16 & 22 pole) Positioner (8 pole) Positioner (16 & 22 pole)	PNo.14232 PNo.14232/ PNo.14025 PNo.15021/ PNo.15019/	/SP
PNo 14232					
Extraction Tool			Extraction Tools		
Sector 1	~		Extraction Tool (2 & 3 pole)	PNo.14946/	'SP
	0	Extraction Tool for 2, 3, 8, 16 and 22 pole contacts	Extraction Tool (8 pole)	PNo.14945/	/SP
			Extraction Tool (16 & 22 pole)	PNo.14944/	'SP
Contact Carrier Removal Tool			Tools		
	0	For removal of all contact carriers	Contact carrier removal tool (all poles)	PNo. 14917	/SP

Accessories





Part No System



РХХ	6XXX ,	/ xx	X	/ xx /	/ xxxx	/ xx
Series Designation PXM= Metal Series PXP= Plastic Series	Series / Body Style Body Styles 6010 = Flex 6011 = Flex In-Line 6012 = Panel	No. of Contacts 02 = 2 Pole 03 = 3 Pole 08 = 8 Pole 16 = 16 Pole 22 = 22 Pole	Contacts Type P = Pin S = Socket	Terminations Contacts Termination CR = Contacts Required ST = Screw (2 and 3 pole only)	Cable Entry Size Cable Entry Size (for Flex and Flex In- Line connectors only) 0405 = 4-5mm (Dark Grey) 0507 = 5-7mm (White) 0709 = 7-9mm (Vellow) 0910 = 9-10mm (Light Grey)	Cable Brand Termination Accessory Cable Braid Termination Accessory (for Flex and Flex In-Line connectors only) SN if required Blank if not required

Examples

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





Elect	rical:						Mechanical:	
No. Po	les:	2	3	8	16	22		sh/pull with 30° locking tent applied for
See de-	It Rating: rating curves for nformation	16A 16A 11A	16A 16A 11A	10A 7A 4A	3A 3A 1.5A	2A 3A 1.5A	IP6 for	6 to En60529:1992+A2:2013 8 to En60529:1992+A2:2013 (10m depth 2 weeks) 9k to DIN 40050-9
CCC Voltag	e	277V	277V	277V	60V	60V		60068-2-52 Test Kb Salt Mist (Cyclic) rine Severity Level 1
Rated	cable	18 AWG	18 AWG	18 AWG	22 AWG	26 AWG	Salt Mist (metal) : EN	60068-2-11 Test Ka Salt Mist
Insulat	et Resistance: ion Resistance: eakdown voltage: ? pole	<10mΩ >10 ⁶ M >10kV >8kV >5kV	Ω @500	V dc			2 & 3 pole screw terminals1.58 pole crimp / solder1816 pole crimp / solder2222 pole crimp / solder22	to 18AWG mm ² max to 20AWG to 26AWG to 26AWG
Opera	ting Temp. Range:	-40°C	to +120	°C			Cable Acceptance: 4-1	0mm dia.
Approv RL cRLus	vals: UL (E214972) cULus (E214972) VDE (40039281)	UL197 C22.2		3-M198	7 (R200	09)	Cable retention force (to BS EN61984): 4 - 9mm dia cable 80N 9 - 10mm dia cable 100	
۲	CCC (Pending)						3 Pole: Scr 8 Pole: Crin 16 Pole: Crin	rew Terminals rew, crimp or solder terminals mp / Solder Contacts mp / Solder Contacts mp / Solder Contacts
								3Nm (10lb.in) Nm (15lbf.in.)
							Panel Nut Thread: M2	2 x 1.5-6g

8 Pole: 16 Pole: 22 Pole:
Tightening Tor Gland Nut: Panel Nut:
Panel Nut Thre
Dimensions: Diameter: (ove Diameter: (par

ver coupling ring) anel hole cut-out)

32mm 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

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.

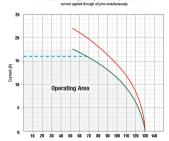
The maximum current varies with different contact layouts, and because of these factors it is necessary to produce de-rating curves for each pole variant. This de-rating curve is specified in the standard IEC 60512 part 3. De-rating curves are plotted for each contact carrier combination with the current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

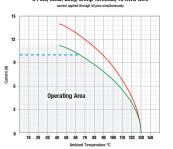
The shaded area under the 0.8 curve shows the permitted operating area, and allows safe current vs ambient temperature characteristics to be determined.

tested operating limits
 de-rated operating limits
 rated current

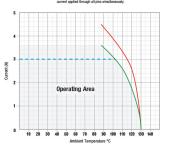




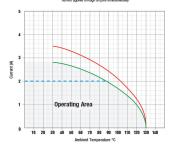




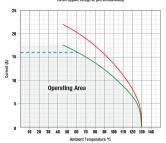




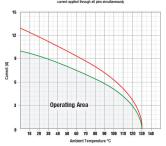
22 Pole, Metal Body, Crimp Terminal, 26 AWG wire



3 Pole, Metal Body, Screw Terminal, 18 AWG wire



8 Pole, Metal Body, Crimp Terminal, 20 AWG wire



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

