

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.

Push/Pull mechanism
 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





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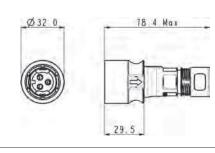
Thermo Plastic



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
- Leading earth on 3 pole connectors
- O 2, 3, 8, 16 & 22 pole
- O Screw, solder and crimp termination

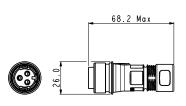


Poles	Termination	Pin Contacts	Socket Contacts	Contacts	
2	Screw	PXP6010/02P/ST	PXP6010/02S/ST	Supplied Fitted	
2	Crimp / Solder	PXP6010/02P/CR	PXP6010/02S/CR	Contacts Required	
3	Screw	PXP6010/03P/ST	PXP6010/03S/ST	Supplied Fitted	
3	Crimp / Solder	PXP6010/03P/CR	PXP6010/03S/CR	Contacts Required	
8	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
 - Por infinite cable connection
 Pin or socket versions
 - Leading earth on 3 pole connectors
 - 2, 3, 8, 16 and 22 pole
 - O Screw, solder and crimp termination



PXP6011

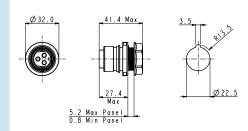
PXP6010

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
- 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

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Metal Version





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PXM6011

Poles	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

Screw, solder and crimp termination

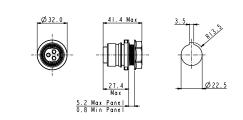
Cable braid termination accessory option, add /SNsuffix

Front Panel Mounting Connector



 Mates with Flex Cable connectors PXM6010
 Front panel mounting

- O Single hole fixing
- O Pin or socket versionsO Leading earth on 3 pole
- connectors○ 2, 3, 8, 16 and 22 pole
- Screw, solder and crimp termination



PXM6012

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	

41 Buccaneer for Power

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Accessories



Crimp / Solder Contacts	\bigcirc	Gold Plated	Contacts (for 2 & 3 pole) (Supplied in packs of 10)	Crimp	Solder
	õ	Current ratings: 2 & 3 pole : 16A	Pins Sockets	SA3545/P SA3545/S	SA3624/P SA3624/S
		8 pole : 10A 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/F SA3623/S
			Contacts (for 16 & 22 pole) (Supplied in packs of 10)	Crimp	Solder
			Pins Sockets	SA3542/P SA3542/S	SA3622/P SA3622/S
Primp Tooling			Crimp Tooling		
PNo 14232	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
Extraction Tool			Extraction Tools		
Ster.	\sim	Extraction Tool for 2, 3, 8, 16	Extraction Tool (2 & 3 pole)	PNo.14946/	/SP
190	0	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

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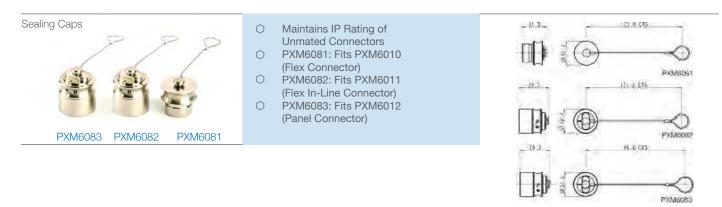
PNo 14917

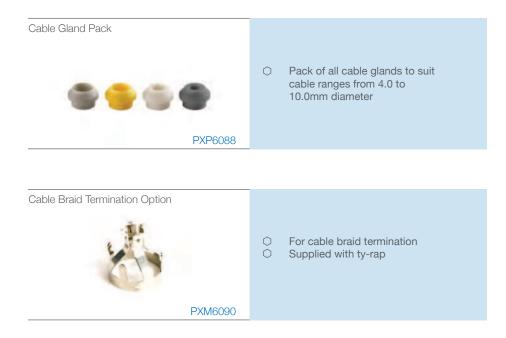
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Accessories







Part No System



PXX	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 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 (Yellow) 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	bles:	2	3	8	16	22	Locking mechanism	Push/pull with 30° locking Patent applied for
See de-	nt Rating: -rating curves for information	16A 16A 11A	16A 16A 11A	10A 7A 4A	3A 3A 1 5A	2A 3A 1.5A	Sealing:	IP66 to En60529:1992+A2:2013 IP68 to En60529:1992+A2:2013 (10m depth for 2 weeks) IP69k to DIN 40050-9
CCC Voltag	е	277V	277V	277V	60V	60V	Salt Mist (plastic) :	EN60068-2-52 Test Kb Salt Mist (Cyclic) Marine Severity Level 1
Rated	cable	18 AWG	18 AWG	18 AWG	22 AWG	26 AWG	Salt Mist (metal) :	EN60068-2-11 Test Ka Salt Mist
Contact Resistance: Insulation Resistance: AC Breakdown voltage: 2 pole 3 pole 8 to 22 pole		<10mΩ >10 ⁶ MΩ @500V dc >10kV >8kV >5kV					Contact Accommodation: 2 & 3 pole crimp / solder 2 & 3 pole screw terminals 8 pole crimp / solder 16 pole crimp / solder 22 pole crimp / solder	14 to 18AWG 1.5mm ² max 18 to 20AWG 22 to 26AWG 22 to 26AWG
Opera	ting Temp. Range:	–40°C	to +120	°C			Cable Acceptance:	4-10mm dia.
Appro RI c RI us	vals: UL (E214972) cULus (E214972) VDE (40039281)	UL197 C22.2		3-M198	7 (R200)9)	Cable retention force (to BS EN61984): 4 - 9mm dia cable 9 - 10mm dia cable	80N 100N
۲	CCC (Pending)						Terminations: 2 Pole: 3 Pole: 8 Pole: 16 Pole: 22 Pole:	Screw Terminals Screw, crimp or solder terminals Crimp / Solder Contacts Crimp / Solder Contacts Crimp / Solder Contacts
							Tightening Torques: Gland Nut: Panel Nut:	1.13Nm (10lb.in) 1.7Nm (15lbf.in.)
							Panel Nut Thread:	M22 x 1.5-6g

Dimensions: Diameter: (over coupling ring) Diameter: (panel hole cut-out)

32mm 22.5mm

Plastic	Metal	
PC/ PBT	Brass	
Grey	Matt silver	
Brass, Nickel Plate (Screw and Crimp) Brass, (3A – Gold plated)	Brass, Nickel Plate (Screw and Crimp) Brass, (3A – Gold plated)	
Silicone	Silicone	
UL94 V-0	-	
Yes	-	
ISO 4892 part 3 cycle 1 (QUV)	-	
Compliant	Compliant	
	PC/ PBT Grey Brass, Nickel Plate (Screw and Crimp) Brass, (3A – Gold plated) Silicone UL94 V-0 Yes ISO 4892 part 3 cycle 1 (QUV)	

45 Buccaneer for Power

Current Carrying Capacity



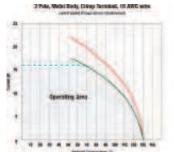
The thermal properties of the materials used in the construction of a connector limit the current carrying capacity. There are a number of factors that determine the amount of current that can be handled: contact spacing, size of cable, ambient temperature and the heat that is generated by the current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

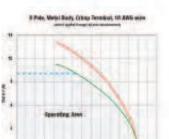
The maximum current varies with different contact layouts, and because of these factors it is necessary to produce de-rating curves for each pole variant. This de-rating curve is specified in the standard IEC 60512 part 3. De-rating curves are plotted for each contact carrier combination with the current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

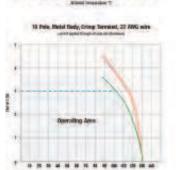
The red line indicates the direct correlation between current applied and the measured temperature rise within the connector. The dotted blue line shows rated current and the green line is derived by applying a factor of 0.8 to the original plot data to give a de-rating curve. The dashed blue line shows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









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othing Area

