

Robust, instant connections for harsh environments



The all metal construction 6000 Series Buccaneer - circular connectors that combine the ease of use of a push/pull coupling mechanism with proven environmental sealing for signal and mains power.



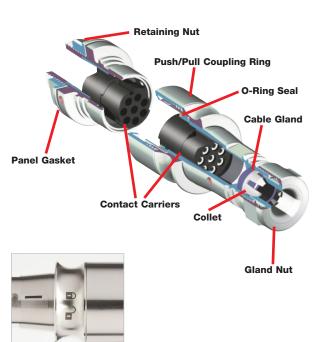
Designed and independently tested to IP66, IP68 & IP69K standards, they are ideal for applications where ingress of dust and water must be avoided and where ease of connection, space and appearance are important considerations



For Power

METAL VERSION





Push/pull latching mechanism*	Secure, instant latching. 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 metal body version; brass, nickel plated	Robust construction offering protection against EMI
 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
Cable braid termination accessory	Maintains continuity between cable screen and connector body
• cULus, VDE, CCC approvals (pending)	Internationally recognised certification

*patent applied for

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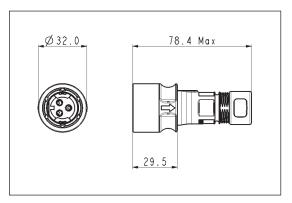


Metal Version

FLEX CABLE CONNECTOR



- Mates with In-Line Flex or Panel Mounting versions PXM6011 and PXM6012
- Push/pull locking ring with 30° twist locking
- Pin or socket versions
- Leading earth on 3 pole connectors
- 2, 3, 8, 16 and 22 pole
- Screw and crimp termination
- Cable braid termination accessory option, add /SN suffix

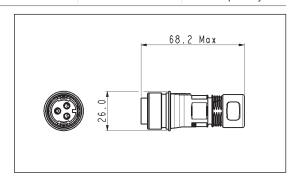


Poles	Termination	Pin Contacts	Socket Contacts	Contacts
2	Screw	PXM6010/02P/ST	PXM6010/02S/ST	Supplied Fitted
2	Crimp	PXM6010/02P/CR	PXM6010/02S/CR	Order Separately
3	Screw	PXM6010/03P/ST	PXM6010/03S/ST	Supplied Fitted
3	Crimp	PXM6010/03P/CR	PXM6010/03S/CR	Order Separately
8	Crimp	PXM6010/08P/CR	PXM6010/08S/CR	Order Separately
16	Crimp	PXM6010/16P/CR	PXM6010/16S/CR	Order Separately
22	Crimp	PXM6010/22P/CR	PXM6010/22S/CR	Order Separately

IN-LINE FLEX CABLE CONNECTOR



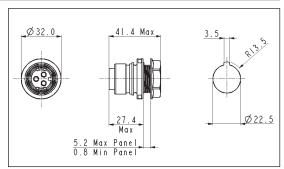
- Mates with Flex Cable connector PXM6010
- For in-line cable connection
- Pin or socket versions
- Leading earth on 3 pole connectors
- 2, 3, 8, 16 and 22 pole
- Screw and crimp termination
- Cable braid termination accessory option, add /SN suffix



Poles	Termination	Pin Contacts	Socket Contacts	Contacts
2	Screw	PXM6011/02P/ST	PXM6011/02S/ST	Supplied Fitted
2	Crimp	PXM6011/02P/CR	PXM6011/02S/CR	Order separately
3	Screw	PXM6011/03P/ST	PXM6011/03S/ST	Supplied Fitted
3	Crimp	PXM6011/03P/CR	PXM6011/03S/CR	Order separately
8	Crimp	PXM6011/08P/CR	PXM6011/08S/CR	Order separately
16	Crimp	PXM6011/16P/CR	PXM6011/16S/CR	Order separately
22	Crimp	PXM6011/22P/CR	PXM6011/22S/CR	Order separately



- 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 and crimp termination



Poles	Termination	Pin Contacts	Socket Contacts	Contacts
2	Screw	PXM6012/02P/ST	PXM6012/02S/ST	Supplied Fitted
2	Crimp	PXM6012/02P/CR	PXM6012/02S/CR	Order separately
3	Screw	PXM6012/03P/ST	PXM6012/03S/ST	Supplied Fitted
3	Crimp	PXM6012/03P/CR	PXM6012/03S/CR	Order separately
8	Crimp	PXM6012/08P/CR	PXM6012/08S/CR	Order separately
16	Crimp	PXM6012/16P/CR	PXM6012/16S/CR	Order separately
22	Crimp	PXM6012/22P/CR	PXM6012/22S/CR	Order separately

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Metal Version



- Crimp Contacts
- Gold Plated
- Current ratings:

2 & 3 pole : 16A 8 pole : 10A 16 pole : 3A 22 pole : 2A

Contacts - Crimp for 2, 3, 8, 16 and 22 pole

Contacts (for 2 & 3 pole) (Supplied in packs of 10)	Crimp
Pins	SA3545/P
Sockets	SA3545/S
Contacts (for 8 pole) (Supplied in packs of 10)	Crimp
Pins	SA3544/P
Sockets	SA3544/S
Contacts (for 16 & 22 pole) (Supplied in packs of 10)	Crimp
Pins	SA3542/P
Sockets	SA3542/S



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

Crimp Tooling Crimp Tool (2 & 3 pole) Positioner (2 & 3 pole) Crimp Tool (8, 16 & 22 pole)

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

INSERTION/EXT	
	PNo 14946

Insertion/Extraction Tool for 2, 3, 8, 16 and 22 pole contacts

Insertion/Extraction Tools

Insertion/Extraction Tool (2 & 3 pole)
Insertion/Extraction Tool (8 pole)
Insertion/Extraction Tool (16 & 22 pole)
PNo. 14946/SP
PNo. 14944/SP



 For removal of all contact carriers Tools

Contact carrier removal tool (all poles)

PNo. 14917/SP

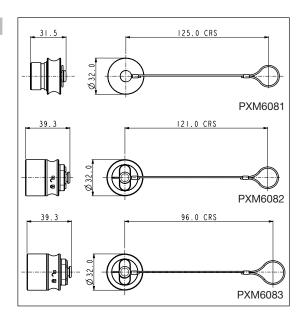
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Metal Version



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



CABLE GLAND PACKS PXP6088

 Pack of all cable glands to suit cable ranges from 4.0 to 10.0mm diameter



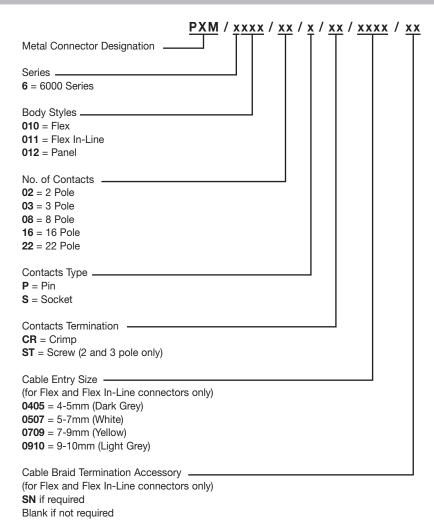
- For cable braid termination
- Supplied with ty-rap

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Metal Version

PART NO SYSTEM



Examples:

 ${\rm PXM6010/03/P/CR/0507=\ Flex\ cable\ connector,\ 3\ pole,\ pin\ contacts,\ crimp\ termination\ with\ 5\ to\ 7mm\ cable\ glands}$

PXM6012/03/S/ST= Front panel mounting connector, 3 pole, socket with screw termination

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Metal Version

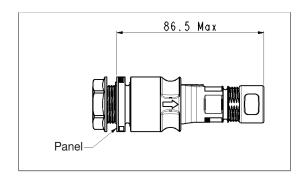
SPECIFICATION

Electrical:					
No. Poles:	2	3	8	16	22
Rated cable	18 AWG	18 AWG	18 AWG	22 AWG	26 AWG
Current Rating: See de-rating curves for further information					
CCC, UL and VDE (pending)	16A	16A	10A	ЗА	2A
cUL (pending)	13A	12A	8A	ЗА	2A
Voltage Rating (ac/dc):	277V	277V	277V	60V	60V
Contact Resistance:	<10m	ıΩ			
Insulation Resistance:	>106MΩ @500V dc				
AC Breakdown voltage: 2 pole 3 pole 8 to 22 pole	>10k\ >8kV >5kV				
Operating Temp. Range: Approvals (pending):	-40°C	C to +1	20°C		
UL CSA VDE CCC	UL1977 C22.2 No.182.3-M1987 (R2009) IEC 61984:2009 GB/T11918 and GB/T11919				

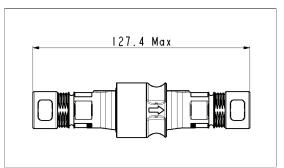
Material:	
Body:	Brass, Nickel plated
Colour:	Matt Silver
Contacts:	Brass, Nickel plated (2A – Gold plated)
O Rings & Gaskets:	Silicon
RoHS	Compliant

Mechanical:	
Locking mechanism	Push/pull with 30° locking Patent applied for
Sealing:	IP66 to EN60529:1992 IP68 to EN60529:1992 (10m depth for 2 weeks) IP69k to DIN 40050-9
Contact Accommodation: 2 & 3 pole crimp 2 & 3 pole screw terminals 8 pole crimp 16 pole crimp 22 pole crimp	14 to 18AWG 1.5mm ² max 18 to 20AWG 22 to 26AWG 22 to 26AWG
Cable Acceptance:	4-10mm dia.
Cable retention force (to BS EN61984): 4 - 9mm dia cable 9 - 10mm dia cable	80N 100N
Terminations: 2 Pole: 3 Pole: 8 Pole: 16 Pole: 22 Pole:	Screw Terminals & Crimp Contacts Screw Terminals & Crimp Contacts Crimp Contacts Crimp Contacts Crimp 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

Mated dimensions - Flex to panel connector



Mated dimensions - Flex connector to in-line connector



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Metal Version

CURRENT CARRYING CAPACITY

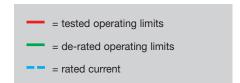
The thermal properties of the materials used in the construction of a connector limit the current carrying capacity. There are a number of factors that determine the amount of current that can be handled: contact spacing, size of cable, ambient temperature and the heat that is generated by the current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

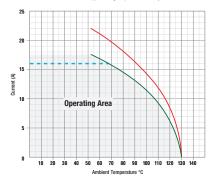
De-rating curves are plotted for each contact carrier combination with the current being carried simultaneously by all contacts. These graphs show the heat rise generated as the current is increased.

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

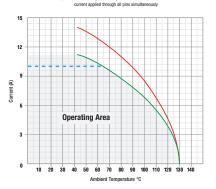
The shaded area under the 0.8 curve shows the permitted operating area, and allows safe current vs ambient temperature characteristics to be determined.



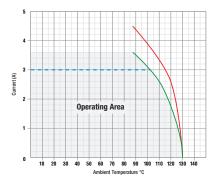




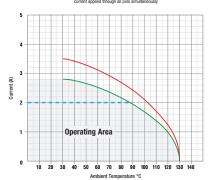
8 Pole, Metal Body, Crimp Terminal, 18 AWG wire



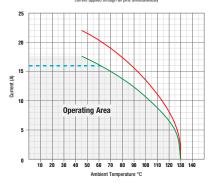
16 Pole, Metal Body, Crimp Terminal, 22 AWG wire



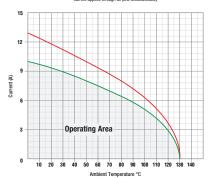
22 Pole, Metal Body, Crimp Terminal, 26 AWG wire



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

