6000 Series Buccaneer®

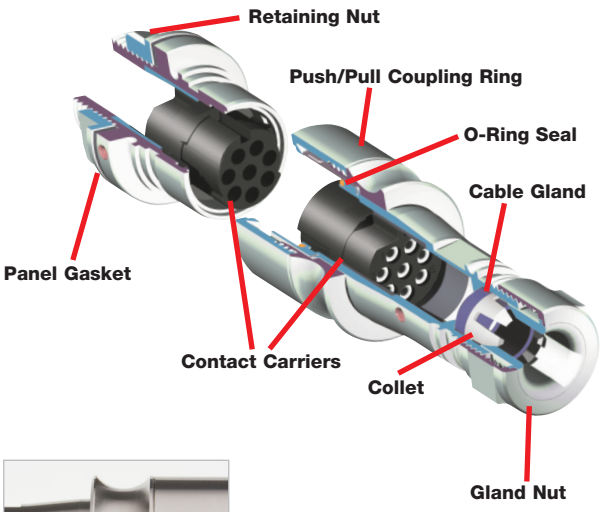
Robust, instant connections for harsh environments

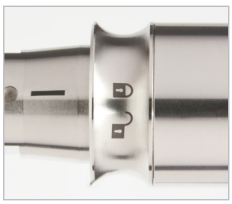
The all metal construction 6000 Series Buccaneer - circular connectors that combine the ease of use of a push/pull coupling mechanism with proven environmental sealing for signal and mains power.

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





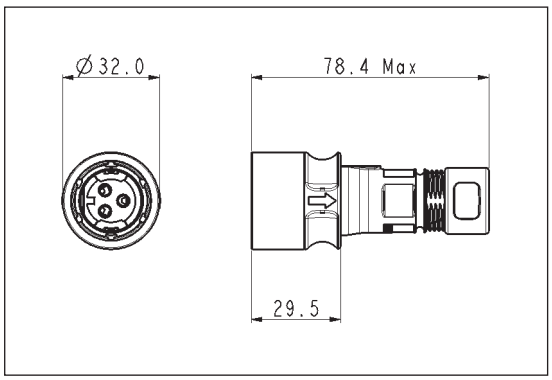
Push/pull latching mechanism*	Secure, instant latching. Quick connector mating and release
30° twist locking*	Tamperproof lock prevents accidental un-mating
IP66, IP68 and IP69K when mated	Suitable for a wide range of dust and water borne environments
All metal body version; brass, nickel plated	Robust 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

Metal Version

FLEX CABLE CONNECTOR

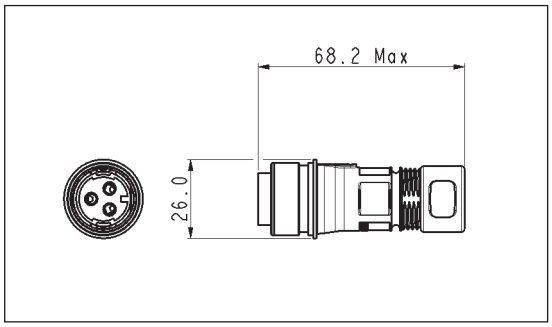
- Mates with In-Line Flex or Panel Mounting versions PXM6011 and PXM6012
- Push/pull locking ring with 30° twist locking
- Pin or socket versions
- Leading earth on 3 pole connectors
- 2, 3, 8, 16 and 22 pole
- Screw and crimp termination
- Cable braid termination accessory option, add /SN suffix



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

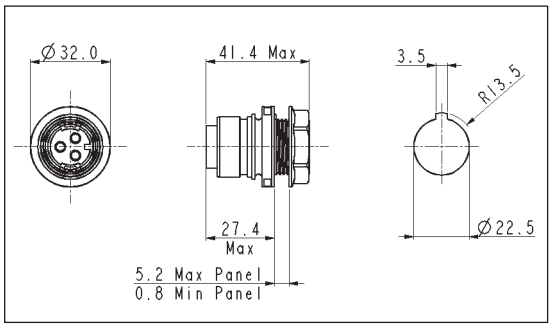
- Mates with Flex Cable connector PXM6010
- For in-line cable connection
- Pin or socket versions
- Leading earth on 3 pole connectors
- 2, 3, 8, 16 and 22 pole
- Screw and crimp termination
- Cable braid termination accessory option, add /SN suffix



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

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 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

Metal Version

CRIMP CONTACTS

2, 3, 8, 16 & 22 pole contacts

- 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 TOOLING

PNo 14232

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

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

INSERTION/EXTRACTION TOOLS

PNo 14946

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

Insertion/Extraction Tools	
Insertion/Extraction Tool (2 & 3 pole)	PNo. 14946/SP
Insertion/Extraction Tool (8 pole)	PNo. 14945/SP
Insertion/Extraction Tool (16 & 22 pole)	PNo. 14944/SP

CONTACT CARRIER REMOVAL TOOL

PNo 14917

- For removal of all contact carriers

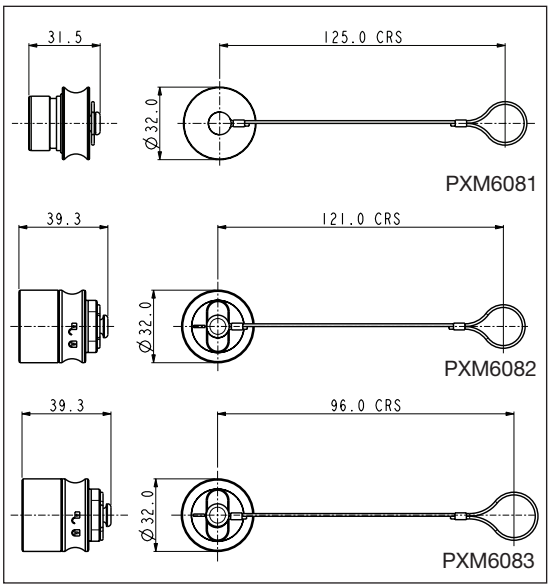
Tools	
Contact carrier removal tool (all poles)	PNo. 14917/SP

Metal Version

SEALING CAPS

PXM6083 PXM6082 PXM6081

- 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

CABLE BRAID TERMINATION OPTION

PXM6090

- For cable braid termination
- Supplied with ty-rap

Metal Version

PART NO SYSTEM

PXM / xxxx / xx / x / xx / xxxx / xx

Metal Connector Designation

Series
6 = 6000 Series

Body Styles
010 = Flex
011 = Flex In-Line
012 = 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

Contacts Termination
CR = Crimp
ST = Screw (2 and 3 pole only)

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 Braid Termination Accessory
(for Flex and Flex In-Line connectors only)
SN if required
Blank if not required

Examples:
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

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	3A	2A
cUL (pending)	13A	12A	8A	3A	2A
Voltage Rating (ac/dc):	277V	277V	277V	60V	60V
Contact Resistance:	<10mΩ				
Insulation Resistance:	>10^6MΩ @500V dc				
AC Breakdown voltage:					
2 pole	>10kV				
3 pole	>8kV				
8 to 22 pole	>5kV				
Operating Temp. Range:	–40°C to +120°C				
Approvals (pending):					
UL	UL1977				
CSA	C22.2 No.182.3-M1987 (R2009)				
VDE	IEC 61984:2009				
CCC	GB/T11918 and GB/T11919				

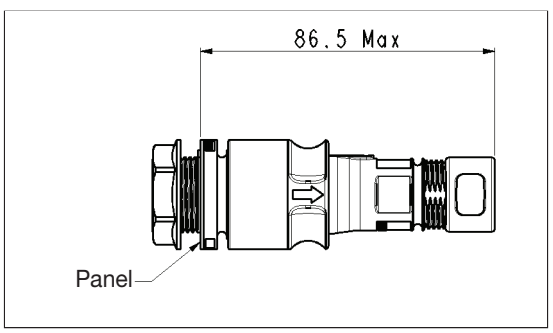
Material:

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

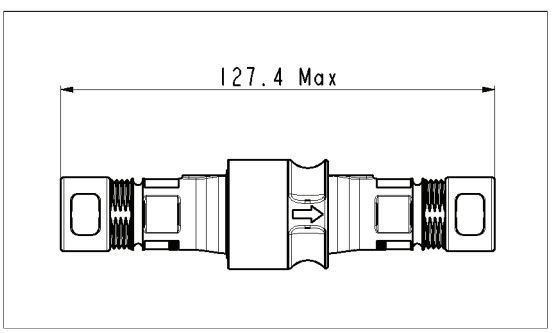
Mechanical:

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	14 to 18AWG
2 & 3 pole screw terminals	1.5mm² max
8 pole crimp	18 to 20AWG
16 pole crimp	22 to 26AWG
22 pole crimp	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 Pole:	Screw Terminals & Crimp Contacts
3 Pole:	Screw Terminals & Crimp Contacts
8 Pole:	Crimp Contacts
16 Pole:	Crimp Contacts
22 Pole:	Crimp 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

Mated dimensions - Flex to panel connector



Mated dimensions - Flex connector to in-line connector



6000 Series Buccaneer®

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.

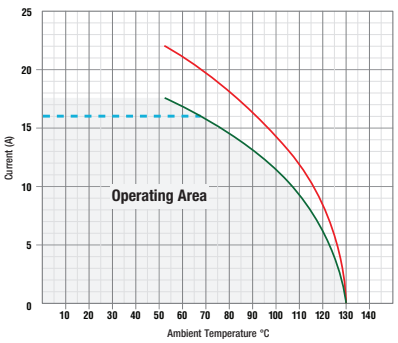
= tested operating limits

= de-rated operating limits

= rated current

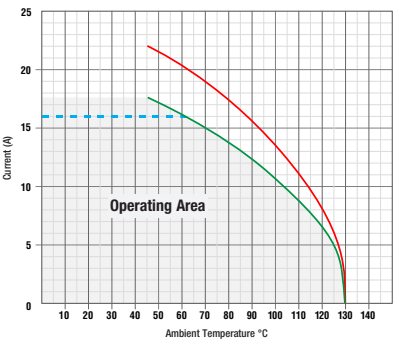
2 Pole, Metal Body, Crimp Terminal, 18 AWG wire

current applied through all pins simultaneously



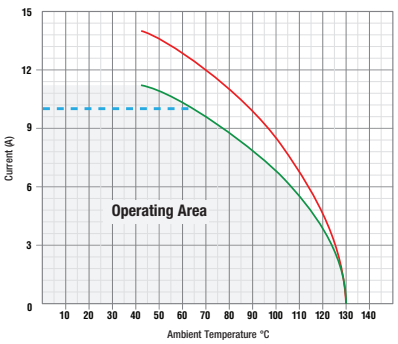
3 Pole, Metal Body, Screw Terminal, 18 AWG wire

current applied through all pins simultaneously



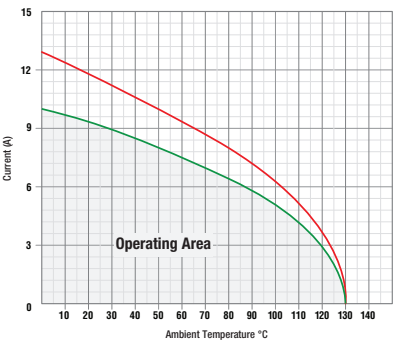
8 Pole, Metal Body, Crimp Terminal, 18 AWG wire

current applied through all pins simultaneously



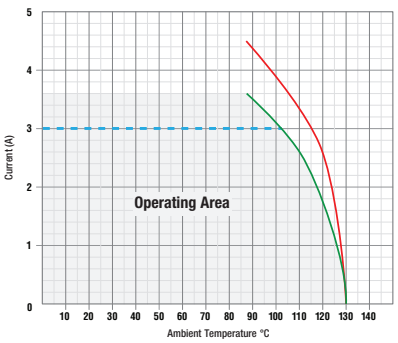
8 Pole, Metal Body, Crimp Terminal, 20 AWG wire

current applied through all pins simultaneously



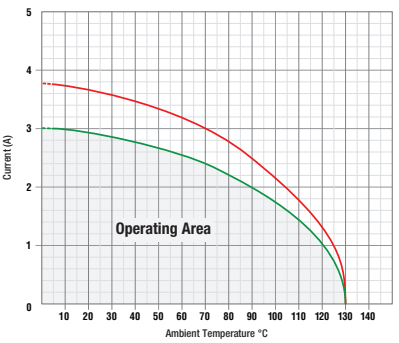
16 Pole, Metal Body, Crimp Terminal, 22 AWG wire

current applied through all pins simultaneously



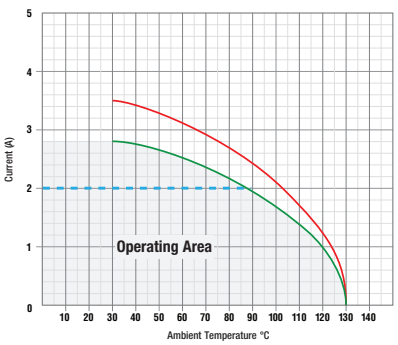
16 Pole, Metal Body, Crimp Terminal, 26 AWG wire

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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