### 6000 Series Buccaneer



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.

- 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, 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
- O 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



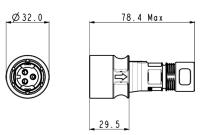
### 6000 Series Buccaneer



Flex Cable Connector



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



PXP	60	11()
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Poles	Termination	Pin Contacts	<b>Socket Contacts</b>	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

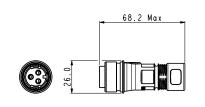
In-line Flex Cable Connector



- Pin or socket versions Leading earth on 3 pole connectors

 Mates with Flex Cable connector PXP6010 For in-line cable connection

- 2, 3, 8, 16 and 22 pole
- O Screw, solder and crimp termination



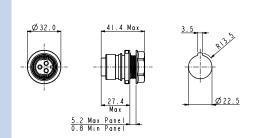
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Poles	Termination	Pin Contacts	<b>Socket Contacts</b>	Contacts	
2	Screw	PXP6011/02P/ST	PXP6011/02S/ST	Supplied Fitted	
2	Crimp / Solder	PXP6011/02P/CR	PXP6011/02S/CR	Contacts Required	
3	Screw	PXP6011/03P/ST	PXP6011/03S/ST	Supplied Fitted	
3	Crimp / 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
- $\bigcirc$ Single hole fixing
- Pin or socket versions
- Leading earth on 3 pole connectors
- 2, 3, 8, 16 and 22 pole
- O Screw, solder and crimp termination



PXP6012

Poles	Termination	Pin Contacts	<b>Socket Contacts</b>	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

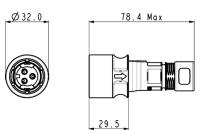
## 6000 Series Buccaneer



Flex Cable Connector



- Mates with In-Line Flex or Panel Mounting versions PXM6011 and PXM6012
- O 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, solder and crimp termination
- O Cable braid termination accessory option, add /SNsuffix



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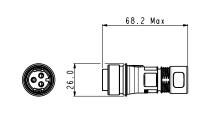
Poles	<b>Termination</b>	<b>Pin Contacts</b>	<b>Socket Contacts</b>	Contacts
2	Screw	PXM6010/02P/ST	PXM6010/02S/ST	Supplied Fitted
2	Crimp / Solder	PXM6010/02P/CR	PXM6010/02S/CR	Contacts Required
3	Screw	PXM6010/03P/ST	PXM6010/03S/ST	Supplied Fitted
3	Crimp / Solder	PXM6010/03P/CR	PXM6010/03S/CR	Contacts Required
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

In-line Flex Cable Connector



PXM6011

- Mates with Flex Cable connector PXM6010
- For in-line cable connection
- Pin or socket versions 0
- Leading earth on 3 pole connectors
- $\bigcirc$ 2, 3, 8, 16 and 22 pole
- Screw, solder and crimp termination
- Cable braid termination accessory option, add /SNsuffix



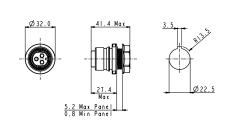
Poles	Termination	Pin Contacts	<b>Socket Contacts</b>	Contacts
2	Screw	PXM6011/02P/ST	PXM6011/02S/ST	Supplied Fitted
2	Crimp / Solder	PXM6011/02P/CR	PXM6011/02S/CR	Contacts Required
3	Screw	PXM6011/03P/ST	PXM6011/03S/ST	Supplied Fitted
3	Crimp / Solder	PXM6011/03P/CR	PXM6011/03S/CR	Contacts Required
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



PXM6012

- Mates with Flex Cable connectors PXM6010
- Front panel mounting
- Single hole fixing
- O Pin or socket versions
- Leading earth on 3 pole connectors
- $\bigcirc$ 2, 3, 8, 16 and 22 pole
- O Screw, solder and crimp termination



ntacts Contacts
S/ST Supplied Fitted
S/CR Contacts Required
S/ST Supplied Fitted
S/CR Contacts Required

### 6000 Series Buccaneer

Accessories



Crimp / Sol	der Contacts	
		10000
- 6		

2, 3, 8, 16 & 22 pole contacts

Gold Plated
Current ratings:
2 & 3 pole: 16A
8 pole: 10A
16 pole: 3A
22 pole: 2A

Contacts (for 2 & 3 pole) (Supplied in packs of 10)	Crimp	Solder
Pins Sockets	SA3545/P SA3545/S	SA3624/P SA3624/S
Contacts (for 8 pole) (Supplied in packs of 10)	Crimp	Solder
Pins	SA3544/P	SA3623/P
Sockets	SA3544/S	SA3623/S
Contacts (for 16 & 22 pole) (Supplied in packs of 10)	Crimp	Solder
Pins	SA3542/P	SA3622/P
Sockets	SA3542/S	SA3622/S



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

### Crimp Tooling

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

PNo.14232 PNo.14232/2/SP PNo.14025 PNo.15021/SP PNo.15019/SP

Extraction Tool



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

#### **Extraction Tools**

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

Contact Carrier Removal Tool



For removal of all contact carriers

#### Tools

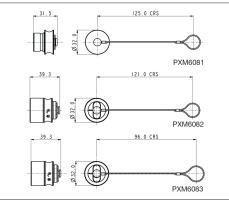
Contact carrier removal tool PNo. 14917/SP (all poles)

### 6000 Series Buccaneer





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

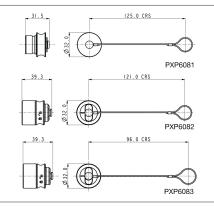




PXP6083 PXP6082

PXP6081

- Maintains IP Rating of **Unmated Connectors**
- 0 PXP6081: Fits PXP6010 (Flex Connector)
- $\bigcirc$ PXP6082: Fits PXP6011 (Flex In-Line Connector)
- PXP6083: Fits PXP6012 (Panel Connector)



Cable Gland Pack



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

# BUCCANEER FOR POWER 6000 Series Buccaneer



PXX	6XXX	/ <b>xx</b>	X	/ <b>xx</b> ,	/ xxxx	/ <b>xx</b>
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 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

# BUCCANEER FOR POWER 6000 Series Buccaneer



Electrical:		Mechanical:	
No. Poles:	2 3 8 16 22	Locking mechanism	Push/pull with 30° locking Patent applied for
Current Rating: See de-rating curves for further information VDE UL cUL	16A 16A 10A 3A 2A 16A 16A 7A 3A 3A 11A 11A 4A 1.5A 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 Voltage	277V 277V 277V 60V 60V	Salt Mist (plastic):	EN60068-2-52 Test Kb Salt Mist (Cyclic) Marine Severity Level 1
Rated cable	14 14 16-20 22 26 AWG AWG AWG AWG	Salt Mist (metal):	EN60068-2-11 Test Ka Salt Mist
Contact Resistance: Insulation Resistance: AC Breakdown voltage: 2 pole	<10mΩ >10 <sup>6</sup> MΩ @500V dc >10kV	Contact Accommodation: 2 & 3 pole crimp / solder 2 & 3 pole screw terminals 8 pole crimp / solder 16 pole crimp / solder	14 to 18AWG 1.5mm <sup>2</sup> max 18 to 20AWG 22 to 26AWG
3 pole 8 to 22 pole	>8kV >5kV	22 pole crimp / solder  Cable Acceptance:	22 to 26AWG 4-10mm dia.
Operating Temp. Range:	-40°C to +120°C	·	4-Tunim dia.
Approvals:  **Nus** UL (E214972)  **Aus** cULus (E214972)  **Aus** VDE (40039281)  **CCC (Pending)	UL1977 C22.2 No.182.3-M1987 (R2009) IEC 61984:2009	Cable retention force (to BS EN61984): 4 - 9mm dia cable 9 - 10mm dia cable  Terminations: 2 Pole: 3 Pole: 8 Pole: 16 Pole: 22 Pole:	80N 100N Screw Terminals Screw, crimp or solder terminals Crimp / Solder Contacts Crimp / Solder Contacts Crimp / Solder Contacts
		Tightening Torques: Gland Nut: Panel Nut: Panel Nut Thread: Dimensions: Diameter: (over coupling ring)	1.13Nm (10lb.in) 1.7Nm (15lbf.in.)  M22 x 1.5-6g
		Diameter: (panel hole cut-out)	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

### 6000 Series Buccaneer

**Current Carrying Capacity** 



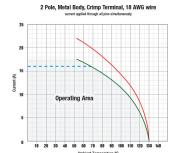
The thermal properties of the materials used in the construction of a connector limit the current carrying capacity. There are a number of factors that determine the amount of current that can be handled: contact spacing, size of cable, ambient temperature and the heat that is generated by the current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

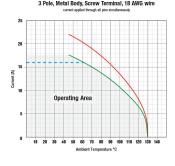
The maximum current varies with different contact layouts, and because of these factors it is necessary to produce de-rating curves for each pole variant. This de-rating curve is specified in the standard IEC 60512 part 3. De-rating curves are plotted for each contact carrier combination with the current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

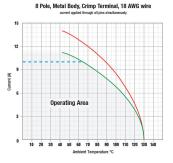
The red line indicates the direct correlation between current applied and the measured temperature rise within the connector. The dotted blue line shows rated current and the green line is derived by applying a factor of 0.8 to the original plot data to give a de-rating curve. The dashed blue line shows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

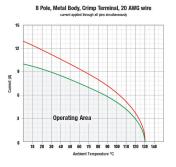
The shaded area under the 0.8 curve shows the permitted operating area, and allows safe current vs ambient temperature characteristics to be determined.

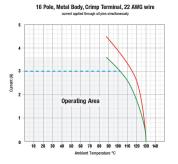
= tested operating limits= de-rated operating limits= rated current

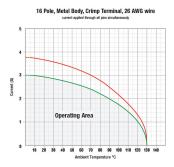


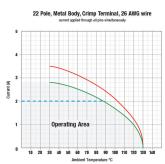












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### Bulgin:

PXM6012/03S/CR PXM6012/02S/CR PXM6012/02P/CR PXM6012/03P/CR