

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, Inline & 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 Contacts 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





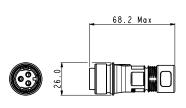
Flex Cable Connector	<ul> <li>Mates with Inline or Panel Mounting versions PXP6011 &amp; PXP6012</li> <li>Push/pull locking ring with 30° twist locking</li> <li>Plug or socket versions</li> <li>Leading earth on 3 Contact connectors</li> <li>2, 3, 8, 16 &amp; 22 Contact</li> <li>Screw, solder and crimp termination</li> </ul>	¢ 32.0	78.4 Mox
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Contacts	Termination	Plug 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

#### Inline Cable Connector



- Mates with Flex Cable connector PXP6010  $\bigcirc$ For Inline cable connection
  - O Plug or socket versions
  - $\bigcirc$ Leading earth on 3 Contact connectors
  - $\bigcirc$ 2, 3, 8, 16 and 22 Contact
  - Screw, solder and crimp termination



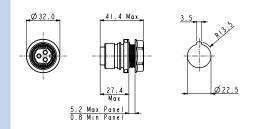
PXP6011

Contacts	Termination	Plug 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  $\bigcirc$
- O Single hole fixing
- O Plug or socket versions
- C Leading earth on 3 Contact connectors
- Q 2, 3, 8, 16 and 22 Contact
- O Screw, solder and crimp termination



# PXP6012

Contacts	Termination	Plug 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



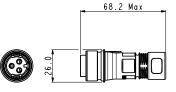
Flex Cable Connec	a o	<ul> <li>Mounting and PXM</li> <li>Push/pul twist loci</li> <li>Plug or s</li> <li>Leading connecto</li> <li>2, 3, 8, 1</li> <li>Screw, se</li> <li>Cable brock</li> </ul>	l locking ring with 30° king ocket versions earth on 3 Contact	Ø 32.0	78.4 Mox
Contacts	Termination	Plug Contacts	Socket Contacts	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	

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

Inline Cable Connector



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



PXM6011

PXM6012

Contacts	Termination	Plug 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

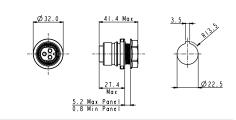
Front Panel Mounting Connector



Mates with Flex Cable connectors PXM6010

- Single hole fixing
- Plug or socket versions
- Leading earth on 3 Contact
- connectors 2, 3, 8, 16 and 22 Contact





#### **Termination Contacts** Contacts **Plug Contacts Socket Contacts** 2 Screw PXM6012/02P/ST PXM6012/02S/ST Supplied Fitted 2 Crimp / Solder PXM6012/02P/CR PXM6012/02S/CR Contacts Required Supplied Fitted PXM6012/03P/ST PXM6012/03S/ST 3 Screw 3 Crimp / Solder PXM6012/03P/CR PXM6012/03S/CR Contacts Required Crimp / Solder PXM6012/08P/CR PXM6012/08S/CR Contacts Required 8 Contacts Required 16 Crimp / Solder PXM6012/16P/CR PXM6012/16S/CR 22 Crimp / Solder PXM6012/22P/CR PXM6012/22S/CR Contacts Required

Accessories



Crimp / Solder Contacts			Contacts (for 2 & 3 Contact) (Supplied in packs of 10)	Crimp	Solder
	$\hat{\mathbf{O}}$	Gold Plated Current ratings:	Plugs	SA3545/P	SA3624/F
	Ť	2 & 3 Contact : 16A	Sockets	SA3545/S	SA3624/S
		8 Contact : 10A 16 Contact : 3A	Contacts (for 8 Contact)	Crimp	Solder
		22 Contact : 2A	(Supplied in packs of 10) Plugs	SA3544/P	SA3623/I
2, 3, 8, 16 & 22 Contact contacts			Sockets	SA3544/S	SA3623/
			Contacts (for 16 & 22 Contact) (Supplied in packs of 10)	Crimp	Solder
			Plugs Sockets	SA3542/P SA3542/S	SA3622/ SA3622/
Drimp Tooling			Crimp Tooling		
Crimp Tooling	0	Crimp Tools for 2, 3, 8, 16 and 22 Contact crimp	Crimp Tooling Crimp Tool (2 & 3 Contact) Positioner (2 & 3 Contact) Crimp Tool (8, 16 & 22 Contact) Positioner (8 Contact)		232/2/SP 025
		contacts	Positioner (16 & 22 Contact)	PNo.150	019/SP
PNo 14232					
Extraction Tool			Extraction Tools		
			Extraction Tool	PNo.14946/	SP



$\bigcirc$	Extraction Tool for 2, 3, 8,
	and 22 Contact contacts

Extraction Tool (2 & 3 Contact) Extraction Tool (8 Contact) Extraction Tool (16 & 22 Contact)

16

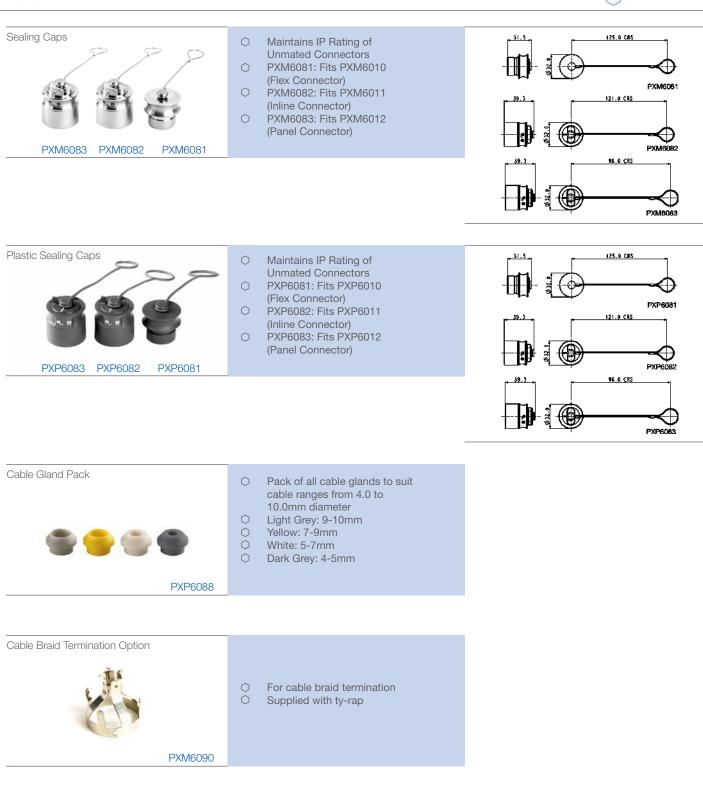
PNo.14946/SP PNo.14945/SP PNo.14944/SP

Contact Carrier Removal Tool Contact Carrier Removal Tool Contact Carrier removal tool PNo. 14917/SP
(all Contacts) PNo 14917

# BUCCANEER FOR POWER 6000 Series Buccaneer

Accessories







PXX	601X /	/ <b>xx</b>	X,	/ <b>xx</b> /	/ <b>xxxx</b>	/ xx
Series Designation PXM= Metal Series PXP= Plastic Series	Series / Body Style 6010 = Flex 6011 = Inline 6012 = Front Panel	No. of Contacts 02 03 08 16 22	Contacts Type P = Plug S = Socket	Terminations CR = Contacts Required ST = Screw (2 and 3 Contact only)	Cable Entry Size (for Flex and Inline connectors only) 0405 = 4-5mm (Dark Grey) 0507 = 5-7mm (White) 0709 = 7-9mm (Yellow) 0910 = 9-10mm (Light Grey)	Cable Brand Termination Accessory (for Flex and Inline connectors only) SN if required Blank if not required

## Examples

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

# BUCCANEER FOR POWER 6000 Series Buccaneer





Electrical:			Mechanical:	
No. Contacts:	2 3 8 16	6 22	Locking mechanism	Push/pull with 30° locking Patent applied for
Current Rating: See de-rating curves for further information			Sealing:	IP66 to En60529:1992+A2:2013 IP68 to En60529:1992+A2:2013 (10m depth
VDE	16A 16A 10A 3A	A 2A		for 2 weeks)
UL	16A 16A 7A 3A	A 3A		IP69k to DIN 40050-9
cUL	11A 11A 4A 1.5	A 1.5A		
Voltage	277V 277V 277V 60	V 60V	Salt Mist (plastic) :	EN60068-2-52 Test Kb Salt Mist (Cyclic) Marine Severity Level 1
Rated cable	14 14 16-20 22 AWG AWG AWG AWG	26 AWG	Salt Mist (metal) :	EN60068-2-11 Test Ka Salt Mist
	ANG ANG ANG ANG	a Awg	Contact Accommodation:	
Contact Resistance:	<10mΩ		2 & 3 Contact crimp / solder	14 to 18AWG
Insulation Resistance:	>10 <sup>6</sup> MΩ @500V DC		2 & 3 Contact screw terminals	1.5mm <sup>2</sup> max
AC Breakdown voltage:			8 Contact crimp / solder	18 to 20AWG
2 Contact	>10kV		16 Contact crimp / solder	22 to 26AWG
3 Contact	>8kV		22 Contact crimp / solder	22 to 26AWG
8 to 22 Contact	>5kV			
Operating Temp. Range:	-40°C to +120°C		Cable Acceptance:	4-10mm dia.
			Cable retention force	
Approvals:			(to BS EN61984):	
<b>N</b> UL (E214972)	UL1977		4 - 9mm dia cable	80N
c 𝒫us cULus (E214972) ▲ VDE (40039281)	C22.2 No.182.3-M1987 (R2 IEC 61984:2009	009)	9 - 10mm dia cable	100N
			Terminations:	
			2 Contact:	Screw Terminals
			3 Contact:	Screw, crimp or solder terminals
			8 Contact:	Crimp / Solder Contacts
			16 Contact:	Crimp / Solder Contacts
			22 Contact:	Crimp / Solder 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) Diameter: (panel hole cut-out)	32mm 22.5mm
Materials:	Plastic		Metal	
Body:			Brass	

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

2 Contact (16 Amp)





3 Contact (16 Amp)







22 Contact (2 Amp)

# BUCCANEER FOR POWER 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 contact 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.

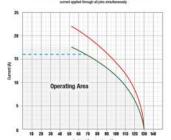
The red line indicates the direct correlation between current applied and the measured temperature rise within the connector. The dotted blue line shows rated current and the green line is derived by applying a factor of 0.8 to the original plot data to give a de-rating curve. The dashed blue line shows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

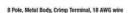
The shaded area under the 0.8 curve shows the permitted operating area, and allows safe current vs ambient temperature characteristics to be determined.

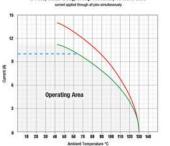
tested operating limits
 de-rated operating limits

= rated current

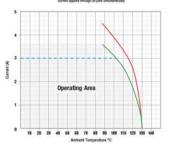




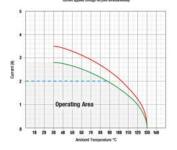




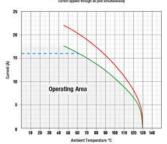
16 Pole, Metal Body, Crimp Terminal, 22 AWG wire



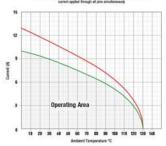
22 Pole, Metal Body, Crimp Terminal, 26 AWG wire



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

