

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

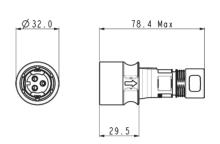




Flex Cable Connector



- Mates with Inline or Panel Mounting versions PXP6011 & PXP6012
- Push/pull locking ring with 30° twist locking
- Plug or socket versions
- Leading earth on 3 Contact connectors 2, 3, 4, 8, 16 & 22 Contact
- O Screw, solder and crimp termination



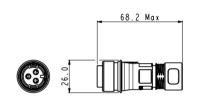
Contacts	Termination	Plug Contacts	Socket Contacts	Contacts

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
4	Crimp / Solder	PXP6010/04P/CR	PXP6010/04S/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
- For Inline cable connection
- Plug or socket versions
- Leading earth on 3 Contact connectors
- 2, 3, 4, 8, 16 and 22 Contact
- Screw, solder and crimp termination



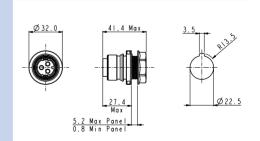
PXP6010

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
4	Crimp / Solder	PXP6011/04P/CR	PXP6011/04S/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
- Plug or socket versions
- Leading earth on 3 Contact connectors
- 2, 3, 4, 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
4	Crimp / Solder	PXP6012/04P/CR	PXP6012/04S/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

BUCCANEER FOR POWER

6000 Series Buccaneer

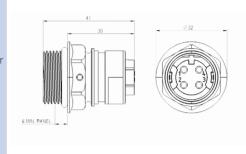
Thermo Plastic



Screwed Front Panel Mounting Connector



- Mates with Flex Cable connectors PXP6010
- Front panel mounting
- M24x1.5 thread to engage the connector to the panel
- Plug or socket versions
- Leading earth on 3 Contact connectors
- 2, 3, 4, 8, 16 and 22 Contact
- Screw, solder and crimp termination



PXP6014

Contacts	Termination	Plug Contacts	Socket Contacts	Contacts
)	Screw	PXP6014/02P/ST	PXP6014/02S/ST	Supplied Fitted
2	Crimp / Solder	PXP6014/02P/CR	PXP6014/02S/CR	Contacts Required
3	Screw	PXP6014/03P/ST	PXP6014/03S/ST	Supplied Fitted
3	Crimp / Solder	PXP6014/03P/CR	PXP6014/03S/CR	Contacts Required
4	Crimp / Solder	PXP6014/04P/CR	PXP6014/04S/CR	Contacts Required
В	Crimp / Solder	PXP6014/08P/CR	PXP6014/08S/CR	Contacts Required
16	Crimp / Solder	PXP6014/16P/CR	PXP6014/16S/CR	Contacts Required
22	Crimp / Solder	PXP6014/22P/CR	PXP6014/22S/CR	Contacts Required

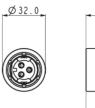
Metal Version

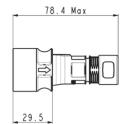


Flex Cable Connector



- Mates with Inline or Panel Mounting versions PXM6011 and PXM6012
- Push/pull locking ring with 30° twist locking
- Plug or socket versions
- Leading earth on 3 Contact connectors
- 2, 3, 4, 8, 16 and 22 Contact
- Screw, solder and crimp termination
- Cable braid termination accessory option, add /SNsuffix





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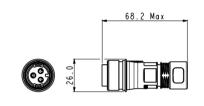
Contacts	Termination	Plug Contacts	Socket Contacts	Contacts
2	Screw	PXM6010/02P/ST	PXM6010/02S/ST	Supplied Fitted
2	Crimp / Solder	PXM6010/02P/CR	PXM6010/02S/CR	Contacts Required
3	Screw	PXM6010/03P/ST	PXM6010/03S/ST	Supplied Fitted
3	Crimp / Solder	PXM6010/03P/CR	PXM6010/03S/CR	Contacts Required
4	Crimp / Solder	PXM6010/04P/CR	PXM6010/04S/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



PXM6011

- Mates with Flex Cable connector PXM6010
- For Inline cable connection
- Plug or socket versions
- Leading earth on 3 Contact connectors
- 2, 3, 4, 8, 16 and 22 Contact
- Screw, solder and crimp termination
- Cable braid termination accessory option, add /SNsuffix

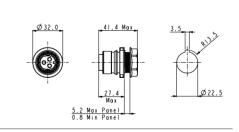


Contacts	Termination	Plug Contacts	Socket Contacts	Contacts
2	Screw	PXM6011/02P/ST	PXM6011/02S/ST	Supplied Fitted
2	Crimp / Solder	PXM6011/02P/CR	PXM6011/02S/CR	Contacts Required
3	Screw	PXM6011/03P/ST	PXM6011/03S/ST	Supplied Fitted
3	Crimp / Solder	PXM6011/03P/CR	PXM6011/03S/CR	Contacts Required
4	Crimp / Solder	PXM6011/04P/CR	PXM6011/04S/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, 4, 8, 16 and 22 Contact
- Screw, solder and crimp termination



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Contacts	Termination	Plug 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
4	Crimp / Solder	PXM6012/04P/CR	PXM6012/04S/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
22	Crimp / Solder	PXM6012/22P/CR	PXM6012/22S/CR	Contacts Required

Accessories



Crimp / Solder Contacts	S

2, 3, 4, 8, 16 & 22 Contact contacts

O Gold Plated
Current ratings:
2 & 3 Contact: 16A
4 & 8 Contact: 10A
16 Contact: 3A
22 Contact: 2A

Contacts (for 2 & 3 Contact) (Supplied in packs of 10)	Crimp	Solder
Plugs	SA3545/P	SA3624/P
Sockets	SA3545/S	SA3624/S
Contacts (for 4 & 8 Contact) (Supplied in packs of 10)	Crimp	Solder
Plugs	SA3544/P	SA3623/P
Sockets	SA3544/S	SA3623/S
Contacts (for 16 & 22 Contact) (Supplied in packs of 10)	Crimp	Solder
Plugs	SA3542/P	SA3622/P
Sockets	SA3542/S	SA3622/S

Crimp Tooling

PNo 14232

Crimp Tools for 2, 3, 4, 8, 16 and 22 Contact crimp contacts

Crimp Tooling

 Crimp Tool (2 & 3 Contact)
 PNo.14232

 Positioner (2 & 3 Contact)
 PNo.14232/2/SP

 Crimp Tool (4, 8, 16 & 22 Contact)
 PNo.14025

 Positioner (4 & 8 Contact)
 PNo.15021/SP

 Positioner (16 & 22 Contact)
 PNo.15019/SP

Extraction Tool



Extraction Tool for 2, 3, 4, 8,16 and 22 Contact contacts

Extraction Tools

Extraction Tool PNo.14946/SP (2 & 3 Contact)
Extraction Tool PNo.14945/SP (4 & 8 Contact)
Extraction Tool PNo.14944/SP (16 & 22 Contact)

Contact Carrier Removal Tool



For removal of all contact carriers

Tools

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

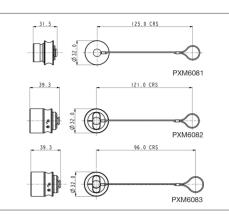
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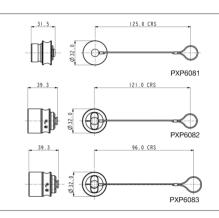


- Maintains IP Rating of **Unmated Connectors**
- 0 PXM6081: Fits PXM6010 (Flex Connector)
- 0 PXM6082: Fits PXM6011
- (Inline Connector) PXM6083: Fits PXM6012 (Panel Connector)





- 0 Maintains IP Rating of **Unmated Connectors**
- PXP6081: Fits PXP6010 (Flex Connector)
- PXP6082: Fits PXP6011 (Inline Connector)
- PXP6083: Fits PXP6012 & PXP6014 \Diamond (Panel Connector)



Cable Gland Pack



PXP6088

- Pack of all cable glands to suit 0 cable ranges from 4.0 to 10.0mm diameter
- Light Grey: 9-10mm
- Yellow: 7-9mm
- White: 5-7mm
- Dark Grey: 4-5mm

Cable Braid Termination Option



PXM6090

- For cable braid termination
- 0 Supplied with ty-rap

BUCCANEER FOR POWER 6000 Series Buccaneer



PXX	601X	/ xx	X	/ xx /	/ xxxx	/ xx
Series Designation PXM= Metal Series PXP= Plastic Series	Series / Body Style 6010 = Flex 6011 = Inline 6012 = Front Panel 6014 = Screwed Front Panel (Plastic Only)	No. of Contacts 02 03 04 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 Braid Termination Accessory (for Metal 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	4	8	16	22	Locking mechanism	Push/pull with 30° locking
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	10A	ЗА	2A		for 2 weeks)
UL	16A	16A	7A	7A	3A	3A		IP69k to DIN 40050-9
cUL	11A	11A	4A	4A	1.5A	1.5A		
Voltage	277V	277V	277\/	277V	60V	60V	Salt Mist (plastic):	EN60068-2-52 Test Kb Salt Mist (Cyclic) Marine Severity Level 1
voltago	2174	2774	2111	_,,,	001	001		Marine deventy Level 1
Rated cable	14 AWG	14 AWG	16-20 AWG	18-20 AWG	22 AWG	26 AWG	Salt Mist (metal) :	EN60068-2-11 Test Ka Salt Mist
Contact Resistance: <10mΩ nsulation Resistance: >10°MΩ @500V DC AC Breakdown voltage: 22 Contact >10kV 3 Contact >8kV 4 to 22 Contact >5kV			Contact Accommodation: 2 & 3 Contact crimp / solder 2 & 3 Contact screw terminals 4 & 8 Contact crimp / solder 16 Contact crimp / solder 22 Contact crimp / solder	14 to 18AWG 16 AWG Max 18 to 20AWG 22 to 26AWG 22 to 26AWG				
Operating Temp. Range:	>5kV						Cable Acceptance:	4-10mm dia.
Approvals: **N UL (E214972) **COLLUS (E214972) **VDE (40039281)	-40°C to +120°C UL1977 C22.2 No.182.3-M1987 (R2009)						Cable retention force (to BS EN61984): 4 - 9mm dia cable 9 - 10mm dia cable	80N 100N
WDE (40039201)	IEC 6	1984:200	J a				Terminations: 2 Contact: 3 Contact: 4 Contact: 8 Contact: 16 Contact: 22 Contact:	Screw Terminals Screw, crimp or solder terminals Crimp / Solder Contacts
							Tightening Torques: Gland Nut: Panel Nut: PXP 6014	1.13Nm (10lb.in.) 1.7Nm (15lbf.in.) 2Nm (17.7lbf.in.)
							Panel Nut Thread:	M22 x 1.5-6g
							Dimensions: Diameter: (over coupling ring) Diameter: (panel hole cut-out)	32mm 22.5mm
Materials:	Plastic					N	Metal	
Body:	PC/ PB1	Г				Е	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













4 Contact

8 Contact

16 Contact

22 Contact

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

