

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; UL 94 V-0 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
- Polarisation and visual alignment features
Aids the correct mating of connectors
- 2 to 22 Contacts – up to 16A, 277V rated (re-wireable)
Suitable for mains power to signal applications
- 2 to 8 Contacts – up to 20A, 600V rated (pre-wired)
- 'Scoop proof' contacts
Prevents damage through mis-mating – ideal for 'blind mating' applications
- cULus, UL, VDE
Internationally recognised certification
- Re-wireable and pre-wired (overmoulded) options available
- Screw, Crimp and Solder terminations available

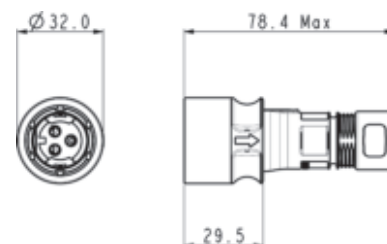


Flex Cable Connector



PXP6010

- Mates with Inline or Panel Mounting versions PXP6011, PXP6001, PXP6012 & PXP6014
- 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
- Screw, solder and crimp termination



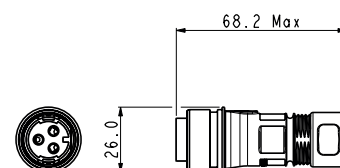
Contacts	Termination	Plug Contacts	Socket Contacts	Contacts
2	Screw	PXP6010/02P/ST	PXP6010/02S/ST	Supplied Fitted
2	Crimp / Solder	PXP6010/02P/CR	PXP6010/02S/CR	Contacts Required
3	Screw	PXP6010/03P/ST	PXP6010/03S/ST	Supplied Fitted
3	Crimp / Solder	PXP6010/03P/CR	PXP6010/03S/CR	Contacts Required
4	Crimp / 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



PXP6011

- Mates with Flex Cable connector PXP6010, PXP6000 & PXP6002
- For Inline cable connection Plug or socket versions Leading earth on 3 Contact connectors
- 2, 3, 4, 8, 16 & 22 Contact
- Screw, solder and crimp termination



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

Pre-Wired Flex Cable Connector



PXP6000

- Mates with Inline or Panel Mounting versions PXP6011, PXP6001, PXP6012 & PXP6014
- Push/pull locking ring with 30° twist locking
- Plug or socket versions
- Leading earth on 3 Contact connectors
- 2, 3, 4 & 8 Contacts
- 1 or 2 metre cable
- Refer to part numbering system for more information



PXP6000 / XXX		/ XXX
	Cable Length – 1 or 2m available as standard	Contacts – 2, 3, 4 or 8 contacts
	Contact sales team for custom lengths	Plug (P) or socket (S) terminations available

Pre-Wired Flex Cable Connector



PXP6001

- Mates with Flex Cable connector PXP6010, PXP6000 & PXP6002
- For Inline cable connection
- Plug or socket versions
- Leading earth on 3 Contact connectors
- 2, 3, 4 & 8 Contact
- 1 or 2 metre cable
- Refer to part numbering system for more information



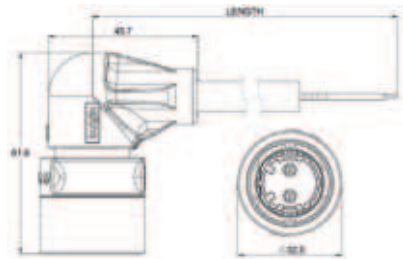
PXP6001 / XXX		/ XXX
	Cable Length – 1 or 2m available as standard	Contacts – 2, 3, 4 or 8 contacts
	Contact sales team for custom lengths	Plug (P) or socket (S) terminations available

Pre-Wired Flex Cable Connector



PXP6002

- Mates with Inline or Panel Mounting versions PXP6011, PXP6001, PXP6012 & PXP6014
- Push/pull locking ring with 30° twist locking
- Plug or socket versions
- Leading earth on 3 Contact connectors
- 2, 3, 4 & 8 Contacts
- 1 or 2 metre cable
- Refer to part numbering system for more information



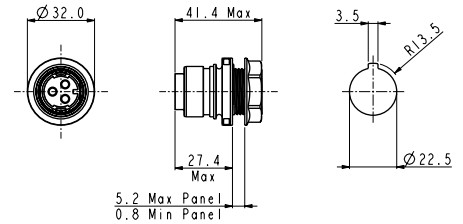
PXP6002 / XXX		/ XXX
	Cable Length – 1 or 2m available as standard	Contacts – 2, 3, 4 or 8 contacts
	Contact sales team for custom lengths	Plug (P) or socket (S) terminations available

Front Panel Mounting Connector



PXP6012

- Mates with Flex Cable connectors PXP6010, PXP6000 & PXP6002
- Front panel mounting Single hole fixing
- Plug or socket versions Leading earth on 3 Contact connectors
- 2, 3, 4, 8, 16 & 22 Contact
- Screw, solder and crimp termination



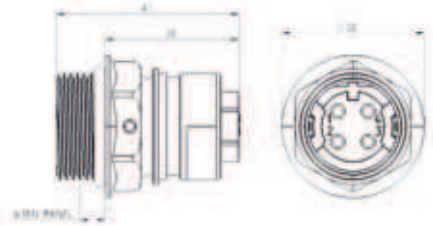
Contacts	Termination	Plug Contacts	Socket Contacts	Contacts
2	Screw	PXP6012/02P/ST	PXP6012/02S/ST	Supplied Fitted
2	Crimp / Solder	PXP6012/02P/CR	PXP6012/02S/CR	Contacts Required
3	Screw	PXP6012/03P/ST	PXP6012/03S/ST	Supplied Fitted
3	Crimp / Solder	PXP6012/03P/CR	PXP6012/03S/CR	Contacts Required
4	Crimp / 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

Screwed Front Panel Mounting Connector



PXP6014

- Mates with Flex Cable connectors PXP6010, PXP6000 & PXP6002
- 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 & 22 Contact
- Screw, solder and crimp termination



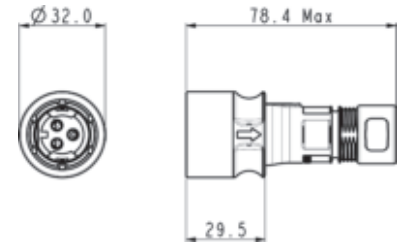
Contacts	Termination	Plug Contacts	Socket Contacts	Contacts
2	Screw	PXP6014/02P/ST	PXP6014/02S/ST	Supplied Fitted
2	Crimp / Solder	PXP6014/02P/CR	PXP6014/02S/CR	Contacts Required
3	Screw	PXP6014/03P/ST	PXP6014/03S/ST	Supplied Fitted
3	Crimp / Solder	PXP6014/03P/CR	PXP6014/03S/CR	Contacts Required
4	Crimp / Solder	PXP6014/04P/CR	PXP6014/04S/CR	Contacts Required
8	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

Flex Cable Connector



PXM6010

- 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



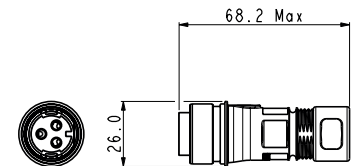
Contacts	Termination	Plug Contacts	Socket Contacts	Contacts
2	Screw	PXP6010/02P/ST	PXP6010/02S/ST	Supplied Fitted
2	Crimp / Solder	PXP6010/02P/CR	PXP6010/02S/CR	Contacts Required
3	Screw	PXP6010/03P/ST	PXP6010/03S/ST	Supplied Fitted
3	Crimp / Solder	PXP6010/03P/CR	PXP6010/03S/CR	Contacts Required
4	Crimp / 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



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



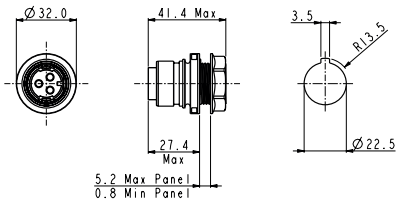
Contacts	Termination	Plug Contacts	Socket Contacts	Contacts
2	Screw	PXP6011/02P/ST	PXP6011/02S/ST	Supplied Fitted
2	Crimp / Solder	PXP6011/02P/CR	PXP6011/02S/CR	Contacts Required
3	Screw	PXP6011/03P/ST	PXP6011/03S/ST	Supplied Fitted
3	Crimp / Solder	PXP6011/03P/CR	PXP6011/03S/CR	Contacts Required
4	Crimp / 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



PXM6012

- 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



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

Crimp / Solder Contacts



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

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

Crimp

Solder

Contacts (for 2 & 3 Contact)
 (Supplied in packs of 10)

Plugs	SA3545/P	SA3624/P
Sockets	SA3545/S	SA3624/S

Contacts (for 4 & 8 Contact)
 (Supplied in packs of 10)

Plugs	SA3544/P	SA3623/P
Sockets	SA3544/S	SA3623/S

Contacts (for 16 & 22 Contact)
 (Supplied in packs of 10)

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 contacts

Crimp Tooling

Crimp Tool (2 & 3 Contact)	14232
Positioner (2 & 3 Contact)	14232/2/SP
Crimp Tool (4, 8, 16 & 22 Contact)	14025
Positioner (4 & 8 Contact)	PNo.15021/SP
Positioner (16 & 22 Contact)	15019/SP

Extraction Tool



- Extraction tools for removing 2, 3, 4, 8, 16 and 22 Contact contacts

Extraction Tools

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

Contact Carrier Removal Tool



PNo 14917

- For removal of all contact carriers

Tools

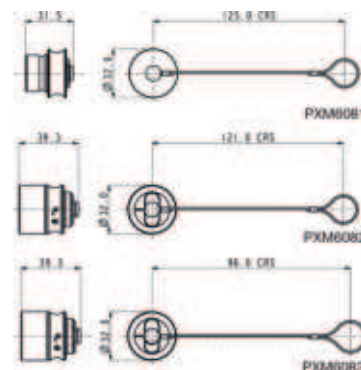
Contact carrier removal tool (all contacts) 14917/SP

Sealing Caps



PXM6083 PXM6082 PXM6081

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

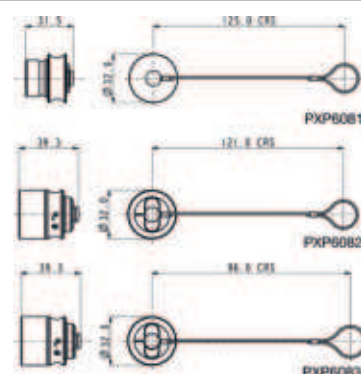


Plastic Sealing Caps



PXP6083 PXP6082 PXP6081

- Maintains IP Rating of Unmated Connectors
- PXP6081: Fits PXP6010, PXP6000 & PXP6002 (Flex Connector)
- PXP6082: Fits PXP6011 & PXP6001 (Inline Connector)
- PXP6083: Fits PXP6012 & PXP6014 (Panel Connector)



Cable Gland Pack



PXP6088

- Pack of all cable glands to suit cable ranges from 4.0mm 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
- Supplied with ty-rap

Re-wireable

PXX	601X	XX	X	XX	XXXX	XX
Series Designation	Series / Body Style	No. of Contacts	Contacts Type	Terminations	Cable Entry Size	Cable Braid Termination Accessory
PXM= Metal Series	6010 = Flex	02	P = Plug	CR = Contacts	(for Flex and Inline connectors only)	(for Metal Flex and Inline connectors only)
PXP= Plastic Series	6011 = Inline	03	S = Socket	Required	0405 = 4-5mm (Dark Grey)	SN if required
	6012 = Front Panel	04		ST = Screw	0507 = 5-7mm (White)	Blank if not required
	6014 = Screwed Front	08		(2 and 3 Contact only)	0709 = 7-9mm (Yellow)	
	Panel (Plastic Only)	16			0910 = 9-10mm (Light Grey)	
		22				

Examples

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

Pre-wired

PXP600X	XXX	XX	X
Body Styles	Cable Lengths	Number of Contacts	Contact Type
PXP6000 = Pre-wired Flex Cable Connector	001 = 1m	02	P = Plug
PXP6001 = Pre-wired Inline Cable Connector	002 = 2m	03	S = Socket
PXP6002 = Pre-wired Flex Cable Connector, Right Angle		04	
	* Contact sales team for custom lengths	08	

Examples

PXP6000/001/02P = Pre-wired Flex cable connector, 1m, 2 plug contacts
 PXP6001/002/03S = Pre-wired Inline cable connector, 2m, 3 socket contacts
 PXP6002/001/04P = Pre-wired Flex cable, connector, right angle, 1m, 4 plug contacts

Electrical (re-wireable)

No. of Contacts:	2	3	4	8	16	22
Current Rating VDE:	16A	16A	10A	10A	3A	2A
Current Rating UL:	16A	16A	7A	7A	3A	3A
Current Rating cUL:	11A	11A	4A	4A	1.5A	1.5A
Voltage	277V	277V	277V	277V	60V	60V
Rated cable	14 AWG	14 AWG	16-20 AWG	18-20 AWG	22 AWG	26 AWG

Electrical (prewired)

No. of Contacts:	2	3	4	8
Current Rating VDE:	20A	20A	10A	7A
Current Rating UL:	20A	20A	10A	7A
Voltage	600V	600V	600V	600V
Rated cable	14AWG	16AWG	18AWG	18AWG

Electrical (all)

Contact Resistance:	< 10 mΩ
Insulation Resistance:	> 10 MΩ @ 500V DC
AC Breakdown voltage:	
2 Contact:	> 10 kV
3 Contact:	> 8 kV
4 to 22 Contact:	> 5 kV
Operating Temperature:	
Re-wireable variants:	-40°C to +120°C
Pre-wired variants:	-40°C to +90°C
Approvals (pending for pre-wired):	
 UL (E214972)	UL 1977
 cULus (E214972)	C22.2 No. 182.3-M1987 (R2009)
 VDE (40039281)	IEC 61984:2009

Mechanical

Locking mechanism:	Push/pull with 30° locking
Sealing:	IP66 to EN60529:1992+A2:2013
	IP68 to EN60529:1992+A2:2013 (10m depth for 2 weeks)
	IP69K to DIN 40050-9 (re-wireable only)
Salt Mist (plastic) (re-wireable & pre-wired):	EN60068-2-52 Test Kb Salt Mist (Cyclic) Marine Severity Level 1
Salt mist (metal):	EN60068-2-11 Test Ka Salt Mist

Contact Accommodation:

2 & 3 contact crimp/solder	14 to 18 AWG
2 & 3 contact screw	16 AWG max.
4 & 8 contact crimp/solder	18 to 20 AWG
16 & 22 contact crimp/solder	22 to 26 AWG
Cable acceptance:	4-10mm dia.

Cable retention force (to BS EN61984):

4 - 9mm dia. cable	80N
9 - 10mm dia. cable	100N

Terminations:

2 & 3 contact:	Screw, crimp or solder terminals
4, 8, 16 & 22 contact:	Crimp or solder terminals

Tightening Torques:

Cable gland nut:	1.13Nm (10lbf.in)
Panel nut (PXP6012):	1.7Nm (15lbf.in)
PXP6014:	2Nm (17.7lbf.in)

Thread sizes:

Panel Nut Thread (PXP6012):	M22 x 1.5 – 6g
PXP6014:	M24 x 1.5 – 6g

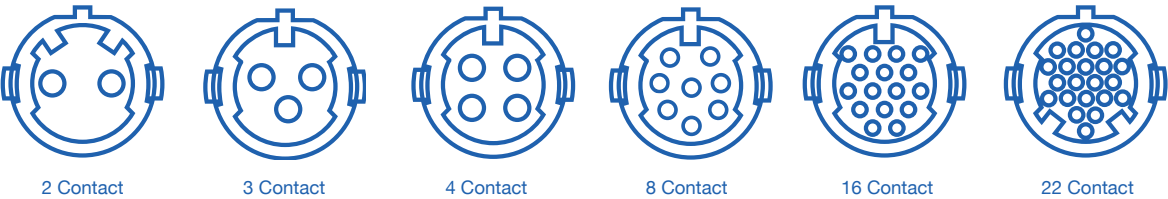
Dimensions:

Diameter over coupling ring:	32mm
Panel hole diameter:	22.5mm

Materials			
	Plastic	Metal	Pre-wired
Body:	PBT/PC	Brass	PBT/PC
Overmoulding:	-	-	PA
Cable Jacket:	-	-	PVC
Colour:	Grey	Matt silver	Grey (coupling ring) & black (overmould and cable)
Contacts:	Brass, Nickel plate (screw & crimp) Brass (3A – gold plated)	Brass, Nickel plate (screw & crimp) Brass (3A – gold plated)	Brass, Nickel plate (screw & crimp) Brass (3A – gold plated)
O-rings & Gaskets:	Silicone	Silicone	Silicone
Flammability Rating:	UL 94 V-0	-	UL 94 V-0
Halogen free:	Yes	-	Yes
UV resistance:	ISO 4892 part 3 cycle 1 (QUV)	-	-
RoHS	Compliant	Compliant	Compliant

Cable (pre-wired)						
Cores:	Jacket OD	AWG	Core Number	Colour (2/3 Cores)	Colour (4 Cores)	Colour (8 Cores)
2	9.25mm	14 AWG	1	Black	Black	Grey
3	9.25mm	16 AWG	2	White	White	White
4	9.25mm	18 AWG	3	Green/Yellow	Red	Red
8	10.5mm	18 AWG	4	-	Blue	Blue
			5	-	-	Brown
			6	-	-	Orange
			7	-	-	Yellow
			8	-	-	Black

Contact Layouts



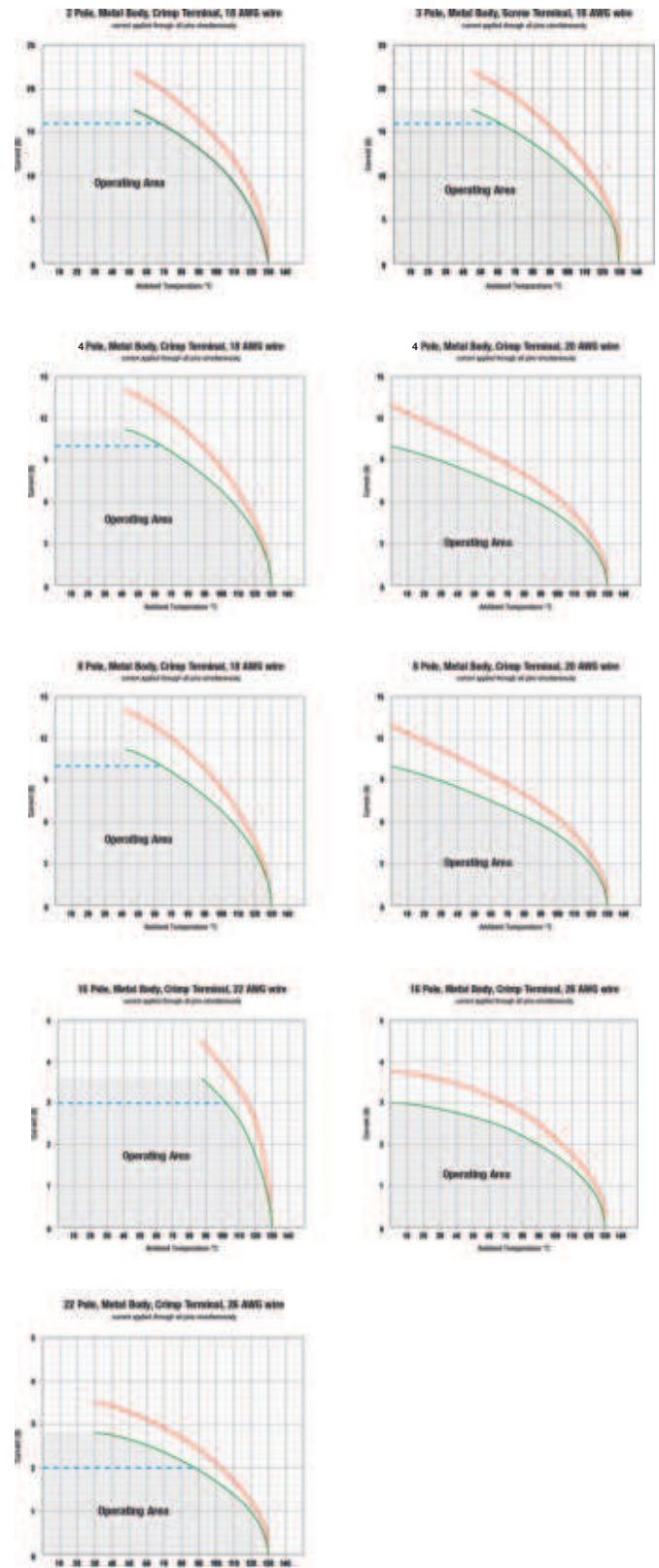
The thermal properties of the materials used in the construction of a connector limit the current carrying capacity. There are a number of factors that determine the amount of current that can be handled: contact spacing, size of cable, ambient temperature and the heat that is generated by the current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



6000 Series Hybrid Buccaneer – circular connectors that combine the ease of use of a **push/pull** coupling mechanism with proven environmental sealing. The range is **dual rated** to support simultaneous **power and signal** transmission. They are ideal for applications where ingress of dust and water must be avoided and where ease of connection, space and appearance are critical.



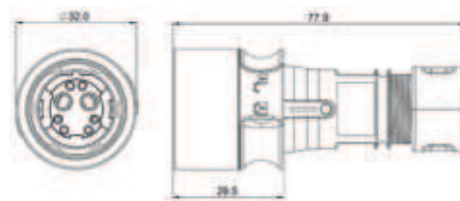
- Secure, quick connector mating and release
- 30° twist locking
Tamperproof lock prevents accidental un-mating
- IP66 and IP68 when mated
Suitable for a wide range of dust and water-borne environments
- All plastic body version; UL 94 V-0 rated, UV stable, halogen free
Lightweight, self-extinguishing material suitable for long-term outdoor use
- Flex, inline & panel mounting 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 power contacts, rated up to 16A, 600V
- 2, 4 or 6 signal contacts, rated to 3A, 60V
- 'Scoop-proof' contacts
Prevents damage through mis-mating – ideal for 'blind-mating' applications
- UL, VDE
Internationally recognised certifications
- Screw, Crimp and Solder terminations available

Flex Cable Connector



PXP6070

- Mates with Inline or Panel Mounting versions PXP6071, PXP6072 & PXP6074
- Push/pull locking ring with 30° twist locking
- Plug or socket versions
- 2 power poles with 2, 4 or 6 signal poles
- Solder or crimp termination
- Contacts supplied separately



Contacts	Termination	Plug Contacts	Socket Contacts	Contacts
2 power + 2 signal	Crimp / Solder	PXP6070/0202P/CR	PXP6070/0202S/CR	Contacts Required
2 power + 4 signal	Crimp / Solder	PXP6070/0204P/CR	PXP6070/0204S/CR	Contacts Required
2 power + 6 signal	Crimp / Solder	PXP6070/0206P/CR	PXP6070/0206S/CR	Contacts Required

Inline Cable Connector



PXP6071

- Mates with Flex Cable Connector, version PXP6070
- For inline cable connection
- Plug or socket versions
- 2 power poles with 2, 4 or 6 signal poles
- Solder or crimp termination
- Contacts supplied separately



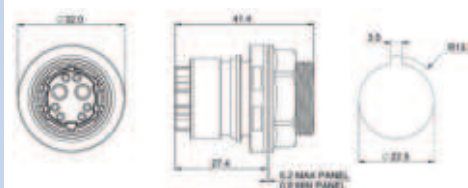
Contacts	Termination	Plug Contacts	Socket Contacts	Contacts
2 power + 2 signal	Crimp / Solder	PXP6071/0202P/CR	PXP6071/0202S/CR	Contacts Required
2 power + 4 signal	Crimp / Solder	PXP6071/0204P/CR	PXP6071/0204S/CR	Contacts Required
2 power + 6 signal	Crimp / Solder	PXP6071/0206P/CR	PXP6071/0206S/CR	Contacts Required

Front Panel Mounting Connector



PXP6072

- Mates with Flex Cable Connector, version PXP6070
- Front panel mounting
- Single hole fixing
- Plug or socket versions
- 2 power poles with 2, 4 or 6 signal poles
- Solder or crimp termination
- Contacts supplied separately



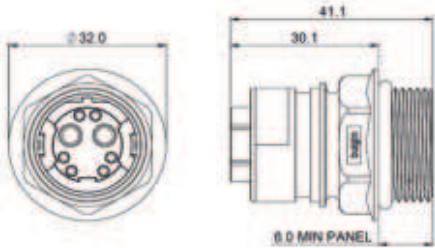
Contacts	Termination	Plug Contacts	Socket Contacts	Contacts
2 power + 2 signal	Crimp / Solder	PXP6072/0202P/CR	PXP6072/0202S/CR	Contacts Required
2 power + 4 signal	Crimp / Solder	PXP6072/0204P/CR	PXP6072/0204S/CR	Contacts Required
2 power + 6 signal	Crimp / Solder	PXP6072/0206P/CR	PXP6072/0206S/CR	Contacts Required

Screwed Front Panel Mounting Connector



PXP6074

- Mates with Flex Cable Connector, version PXP6070
- Front panel mounting
- M24 x 1.5 thread to engage connector to panel
- Plug or socket versions
- 2 power poles with 2, 4 or 6 signal poles
- Solder or crimp termination
- Contacts supplied separately



Contacts	Termination	Plug Contacts	Socket Contacts	Contacts
2 power + 2 signal	Crimp / Solder	PXP6074/0202P/CR	PXP6074/0202S/CR	Contacts Required
2 power + 4 signal	Crimp / Solder	PXP6074/0204P/CR	PXP6074/0204S/CR	Contacts Required
2 power + 6 signal	Crimp / Solder	PXP6074/0206P/CR	PXP6074/0206S/CR	Contacts Required

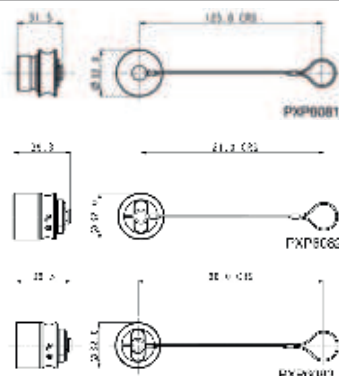
Crimp / Solder Contacts  Power & Signal Contacts	○ Plating: Power contacts = nickel Signal contacts = gold ○ Current ratings: Power contacts = 16A Signal contacts = 3A ○ Each pack contains the right number of contacts for one connector	<table><thead><tr><th></th><th>Crimp</th><th>Solder</th></tr></thead><tbody><tr><td colspan="3">Contacts (for 2 + 2 connectors)</td></tr><tr><td>Plugs</td><td>SA4275/0202/P/C</td><td>SA4275/0202/P/S</td></tr><tr><td>Sockets</td><td>SA4275/0202/S/C</td><td>SA4275/0202/S/S</td></tr><tr><td colspan="3">Contacts (for 2 + 4 connectors)</td></tr><tr><td>Plugs</td><td>SA4275/0204/P/C</td><td>SA4275/0204/P/S</td></tr><tr><td>Sockets</td><td>SA4275/0204/S/C</td><td>SA4275/0204/S/S</td></tr><tr><td colspan="3">Contacts (for 2 + 6 connectors)</td></tr><tr><td>Plugs</td><td>SA4275/0206/P/C</td><td>SA4275/0206/P/S</td></tr><tr><td>Sockets</td><td>SA4275/0206/S/C</td><td>SA4275/0206/S/S</td></tr></tbody></table>		Crimp	Solder	Contacts (for 2 + 2 connectors)			Plugs	SA4275/0202/P/C	SA4275/0202/P/S	Sockets	SA4275/0202/S/C	SA4275/0202/S/S	Contacts (for 2 + 4 connectors)			Plugs	SA4275/0204/P/C	SA4275/0204/P/S	Sockets	SA4275/0204/S/C	SA4275/0204/S/S	Contacts (for 2 + 6 connectors)			Plugs	SA4275/0206/P/C	SA4275/0206/P/S	Sockets	SA4275/0206/S/C	SA4275/0206/S/S
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Sockets	SA4275/0206/S/C	SA4275/0206/S/S																														
Crimp Tooling  PNo 14232	○ Crimp tools for power and signal crimped contacts	Crimp Tooling <table><tbody><tr><td>Power contacts</td><td></td></tr><tr><td>Crimp tool</td><td>14232</td></tr><tr><td>Positioner</td><td>14232/S/SP</td></tr><tr><td>Signal contacts</td><td></td></tr><tr><td>Crimp tool</td><td>14025</td></tr><tr><td>Positioner</td><td>15019/SP</td></tr></tbody></table>	Power contacts		Crimp tool	14232	Positioner	14232/S/SP	Signal contacts		Crimp tool	14025	Positioner	15019/SP																		
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Extraction Tool 	○ Extraction tools for removing power and signal contacts	Extraction Tools <table><tbody><tr><td>Power contacts</td><td></td></tr><tr><td>Extraction tool</td><td>14946/SP</td></tr><tr><td>Signal contacts</td><td></td></tr><tr><td>Extraction tool</td><td>14944/SP</td></tr></tbody></table>	Power contacts		Extraction tool	14946/SP	Signal contacts		Extraction tool	14944/SP																						
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Contact Carrier Removal Tool  PNo 14917	○ For removal of all contact carriers	Tools Contact carrier removal tool (all contacts) 14917/SP																														

Sealing Caps



PXP6083 PXP6082 PXP6081

- Maintains IP rating of unmated connectors
- PXP6081: fits PXP6070 (Flex Connector)
- PXP6082: fits PXP6071 (Inline Connector)
- PXP6083: fits PXP6072 & PXP6074 (Panel Mounting Connectors)



Cable Gland Pack



PXP6088

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

PXP607X	XXXX	X	CR	XXXX
Series / Body Style	No. of Contacts	Contacts Type	Terminations	Cable Entry Size
6070 = Flex	0202	P = Plug	CR = contacts required	(for Flex and Inline connectors only)
6071 = Inline	0204	S = Socket		0405 = 4-5mm (dark grey)
6072 = Front Panel	0206			0507 = 5-7mm (white)
6074 = Screwed Front Panel				0709 = 7-9mm (yellow)
				0910 = 9-10mm (light grey)

Examples

PXP6070/0202P/CR/0405 = Flex cable connector, 2 power + 2 signal contacts, plug contacts, 4mm to 5mm cable entry

PXP6071/0204S/CR/0709 = Inline cable connector, 2 power + 4 signal contacts, socket contacts, 7mm to 9mm cable entry

PXP6072/0206P/CR = Front panel mounting connector, 2 power + 6 signal contacts, plug contacts

PXP6074/0202S/CR = Screwed front panel mounting connector, 2 power + 2 signal contacts, socket contacts

Electrical				
No. of Contacts:	2 (power) 2 (signal) 4 (signal) 6 (signal)			
Current Rating:				
VDE	16A	3A	3A	3A
UL	16A	3A	3A	3A
Voltage	600V	60V	60V	60V
Rated cable	14 AWG	26 AWG	26 AWG	26 AWG
Contact Resistance:	< 10 mΩ			
Insulation Resistance:	> 10 MΩ @ 500V DC			
AC Breakdown voltage:				
Power contacts:	> 10 kV			
Signal contacts:	> 5 kV			
Operating Temperature:	-40°C to +120°C			
Approvals (pending):				
 UL	UL 1977			
VDE	IEC 61984:2009			
Material				
Body:	PC/PBT			
Colour:	Grey			
Contacts:	Brass, Nickel Plate (power contacts, crimp / solder)			
	Brass, Gold Plate (signal contacts, crimp / solder)			
O Rings & Gaskets:	Silicone			
Flammability Rating:	UL 94 V-0			
Halogen free:	Yes			
UV Resistance:	ISO 4892 part 3 cycle 1 (QUV)			
 RoHS	Compliant			

Mechanical	
Locking mechanism:	Push/pull with 30° locking
Sealing:	IP66 to EN60529:1992+A2:2013
	IP68 to EN60529:1992+A2:2013 (10m depth for 2 weeks)
Salt Mist:	EN60086-2-52 Test Kb Salt Mist (Cyclic) Marine Severity Level 1
Contact Accommodation:	
Power contacts (crimp/solder)	14 to 18 AWG
Signal contacts (crimp/solder)	22 to 26 AWG
Cable Acceptance:	4mm – 10mm dia.
Cable retention force (to BS EN61984):	
4 - 9mm dia. cable	80N
9 - 10mm dia. cable	100N
Terminations:	
Power contacts:	Crimp / Solder contacts
Signal contacts:	Crimp / Solder contacts
Tightening Torques:	
Cable gland nut:	1.13Nm (10lbf.in)
Panel nut:	1.7Nm (15lbf.in)
PXP6074:	2Nm (17.7lbf.in)
Panel Nut Thread:	M22 x 1.5 – 6g
PXP6074 Thread:	M24 x 1.5 – 6g
Dimensions:	
Diameter over coupling ring:	32mm
Diameter of panel hole:	22.5mm

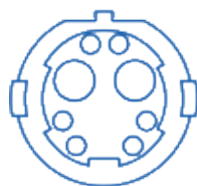
Contact Layouts



2 + 2 contacts



2 + 4 contacts



2 + 6 contacts