

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.



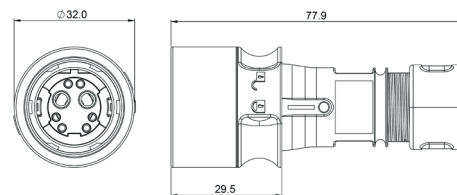
- Secure, quick connector mating and release
- 30° twist locking
Tamperproof lock prevents accidental un-mating
- IP66 and IP68 when mated
Suitable for a wide range of dust and water-borne environments
- All plastic body version; UL 94 V-0 rated, UV stable, halogen free
Lightweight, self-extinguishing 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



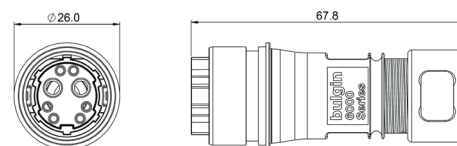
Contacts	Termination	Plug Contacts	Socket Contacts	Contacts
2 power + 2 signal	Crimp / Solder	PXP6070/0202P/CR	PXP6070/0202S/CR	Contacts Required
2 power + 4 signal	Crimp / Solder	PXP6070/0204P/CR	PXP6070/0204S/CR	Contacts Required
2 power + 6 signal	Crimp / Solder	PXP6070/0206P/CR	PXP6070/0206S/CR	Contacts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



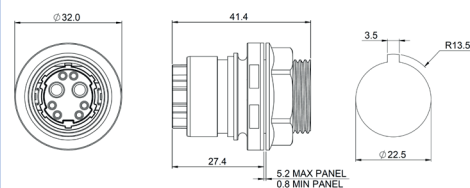
Contacts	Termination	Plug Contacts	Socket Contacts	Contacts
2 power + 2 signal	Crimp / Solder	PXP6071/0202P/CR	PXP6071/0202S/CR	Contacts Required
2 power + 4 signal	Crimp / Solder	PXP6071/0204P/CR	PXP6071/0204S/CR	Contacts Required
2 power + 6 signal	Crimp / Solder	PXP6071/0206P/CR	PXP6071/0206S/CR	Contacts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



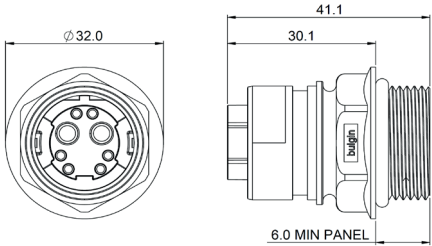
Contacts	Termination	Plug Contacts	Socket Contacts	Contacts
2 power + 2 signal	Crimp / Solder	PXP6072/0202P/CR	PXP6072/0202S/CR	Contacts Required
2 power + 4 signal	Crimp / Solder	PXP6072/0204P/CR	PXP6072/0204S/CR	Contacts Required
2 power + 6 signal	Crimp / Solder	PXP6072/0206P/CR	PXP6072/0206S/CR	Contacts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

Screwed Front Panel Mounting Connector

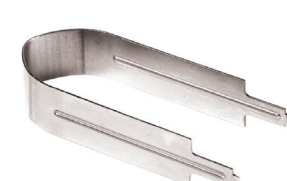


PXP6074

- 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

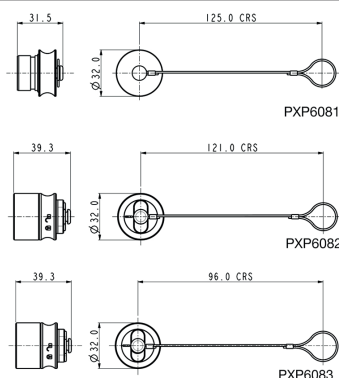
Crimp / Solder Contacts  Power & Signal Contacts	○ Plating: Power contacts = nickel Signal contacts = gold ○ Current ratings: Power contacts = 16A Signal contacts = 3A ○ Each pack contains the right number of contacts for one connector	<table><thead><tr><th></th><th>Crimp</th><th>Solder</th></tr></thead><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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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

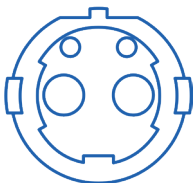
PXP6072/0206P/CR = Front panel mounting connector, 2 power + 6 signal contacts, plug contacts

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

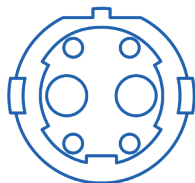
Electrical				
No. of Contacts:	2 (power) 2 (signal) 4 (signal) 6 (signal)			
Current Rating:				
VDE	16A	3A	3A	3A
UL	16A	3A	3A	3A
Voltage	600V	60V	60V	60V
Rated cable	14 AWG	26 AWG	26 AWG	26 AWG
Contact Resistance:	< 10 mΩ			
Insulation Resistance:	> 10 MΩ @ 500V DC			
AC Breakdown voltage:				
Power 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)			
	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

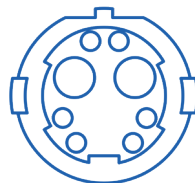
Contact Layouts



2 + 2 contacts



2 + 4 contacts



2 + 6 contacts