Robust, rapid connections for harsh environments

The all plastic construction 7000 Series Buccaneer - circular connectors that combine the ease of use of a quick coupling mechanism with proven environmental sealing for signal and mains power.

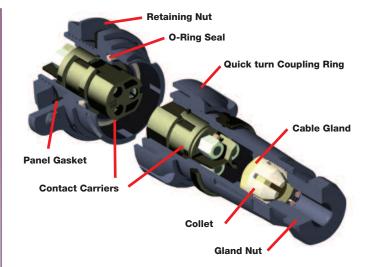
Designed and independently tested to IP66, IP68 & IP69K standards, they are ideal for applications where ingress of dust and water must be avoided and where ease of connection, space and appearance are important considerations.

For Power

THERMO-PLASTIC VERSION



Less than 1/4 Turn locking mechanism



Secure, quick connector mating and release

Confidence that connector is correctly mated and sealed Positive feedback on locking mechanism 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 halogen free outdoor use Flex, flex in-line & 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 32 poles - up to 25A, 600V rated Suitable for mains power to signal applications 'Scoop proof' contacts Prevents damage through mis-mating - ideal for 'blind mating' applications cULs, UL, VDE, CCC approvals (pending) Internationally recognised certification



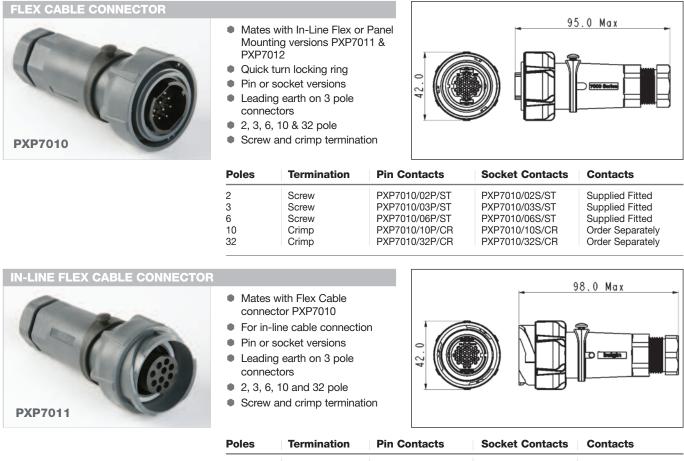








Thermo-plastic Version

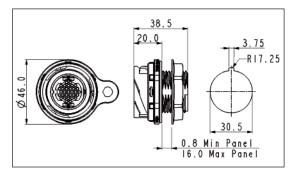


Poles	Termination	Pin Contacts	Socket Contacts	Contacts
2	Screw	PXP7011/02P/ST	PXP7011/02S/ST	Supplied Fitted
3	Screw	PXP7011/03P/ST	PXP7011/03S/ST	Supplied Fitted
6	Screw	PXP7011/06P/ST	PXP7011/06S/ST	Supplied Fitted
10	Crimp	PXP7011/10P/CR	PXP7011/10S/CR	Order separately
32	Crimp	PXP7011/32P/CR	PXP7011/32S/CR	Order separately

FRONT PANEL MOUNTING CONNECTOR



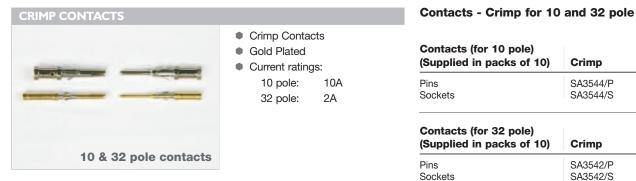
- Mates with Flex Cable connectors PXP7010
- Front panel mounting
- Single hole fixing
- Pin or socket versions
- Leading earth on 3 pole connectors
- 2, 3, 6, 10 and 32 pole
- Screw and crimp termination



Poles	Termination	Pin Contacts	Socket Contacts	Contacts
2	Screw	PXP7012/02P/ST	PXP7012/02S/ST	Supplied Fitted
3	Screw	PXP7012/03P/ST	PXP7012/03S/ST	Supplied Fitted
6	Screw	PXP7012/06P/ST	PXP7012/06S/ST	Supplied Fitted
10	Crimp	PXP7012/10P/CR	PXP7012/10S/CR	Order separately
32	Crimp	PXP7012/32P/CR	PXP7012/32S/CR	Order separately



Thermo-plastic Version





Crimp Tools for 10 and 32 pole crimp contacts

Crimp Tooling

Crimp Tool (10 & 32 pole) Positioner (10 pole) Positioner (32 pole)

PNo. 14025 PNo. 15021/SP PNo. 15019/SP

Crimp

SA3544/P

SA3544/S

Crimp

SA3542/P

SA3542/S

EXTRACTION TOOLS



Extraction tool for 10 and 32 pole contacts



For removal of all contact carriers

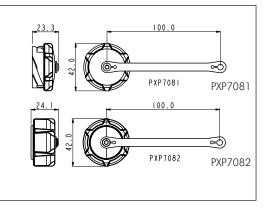
Contact carrier removal tool all poles)	PNo. 15065/SP



Thermo-plastic Version



- Maintains IP rating of unmated connectors
- PXP7081: Fits PXP7010 (Flex Connector)
- PXP7082: Fits PXP7011 (Flex In-Line Connector) and PXP7012: (Panel Connector)



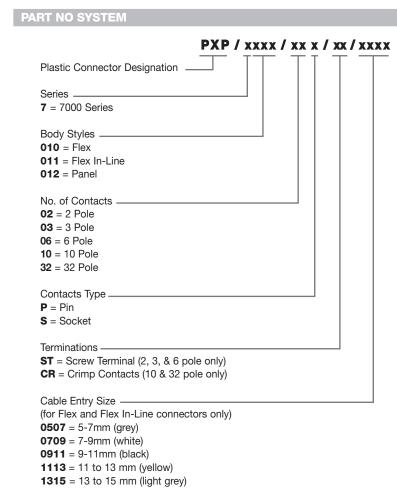
CABLE GLAND PACKS



- Packs of cable glands, cages and gland nuts to suit cables ranges from 5.0 to 15.0mm diameter
- PXP7088/0507: for cable ranges between 5.0 and 7.0mm
- PXP7088/0713: for cable ranges between 7.0 and 13.0mm
- PXP7088/1315: for cable ranges between 13.0 and 15.0mm



Thermo-plastic Version



Examples:

PXP7010/03P/ST/0709 = 3 pole, flex connector, with pin contacts and screw terminals for 7-9mm diameter cable



Thermo-plastic Version

SPECIFICATION

Electrical:		Mechanical:	
No. Poles:	2 3 6 10 32	Locking mechanism	Quarter turn, rapid locking
Current Rating: CCC, UL and VDE (pending) cUL (pending)	25A 25A 10A 10A 3A 25A 25A 8A 6A 2A	Sealing:	IP66 to EN60529:1992 IP68 to EN60529:1992 (10m depth for 2 weeks) IP69k to DIN 40050-9
Voltage Rating (ac/dc): CCC, VDE (pending) UL, cUL (pending) Contact Resistance:	600V 600V 500V 277V 200V 600V 600V 600V 600V 600V <10mΩ	Contact Accommodation: 2 & 3 pole screw terminals 6 pole screw 10 pole crimp 32 pole crimp	6.0mm ² max 1.00mm ² max 18 to 20AWG 22 to 26AWG
Insulation Resistance:	>10ºMΩ @500V dc	Cable Acceptance:	5-15mm dia.
AC Breakdown voltage: 2 pole 3 pole 6 to 32 pole	>10kV >8kV >5kV	Cable retention force (to BS EN61984): 5 - 9mm dia cable 9 - 15mm dia cable	80N 100N
Operating Temp. Range: -40°C to +120°C Approvals (pending): UL UL UL1977 CSA C22.2 No.182.3-M1987 (R2009) VDE IEC 61984:2009 CCC GB/T11918 and GB/T11919		Terminations: 2 Pole: 3 Pole: 6 Pole: 10 Pole: 32 Pole:	Screw Terminals Screw Terminals Screw Terminals Crimp Contacts Crimp Contacts
		Tightening Torques: Gland Nut: Panel Nut:	TBA 1.7Nm (15lbf.in.)
Material:		Panel Nut Thread:	M30 x 2-6g
Body:	PC/ PBT	Dimensions:	-

Body:	PC/ PBT
Colour:	Grey
Flammability Rating:	UL94 V-0
Halogen free	Yes
UV Resistance:	ISO 4892 part 3 cycle 1 (QUV)
Contacts:	Brass, Nickel plated (2A – Gold plated)
O Rings & Gaskets:	Silicon
RoHS	Compliant

-	178.5	Max
_		

connector

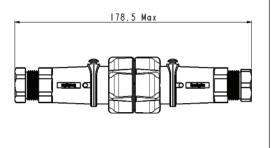
Mated dimensions - Flex connector to in-line

Diameter: (over coupling ring)

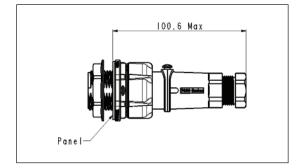
Diameter: (panel hole cut-out)

42mm

30mm



Mated dimensions - Flex to panel connector





Thermo-plastic Version

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.

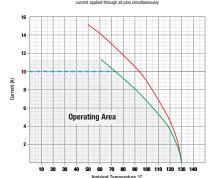
The shaded area under the 0.8 curve shows the permitted operating area, and allows safe current vs ambient temperature characteristics to be determined.

= tested operating limits

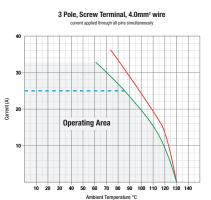
- = de-rated operating limits
- = rated current

2 Pole, Screw Terminal, 6.0mm² wire Irrent (A) 20 Operating Area 10

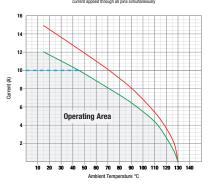




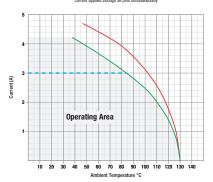
7000 Series Current vs. Temperature Characteristics







32 Pole, Crimp Terminal, 22 AWG wire



Asia

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