

A full range of IP66, IP68 and IP69K rated environmentally sealed circular connectors designed to provide secure and safe connections in harsh or hostile conditions.

The Power Buccaneer range consist of the miniature 400, Mini, Standard, 900, 7000 and 6000 Series. Screw terminations ensure simple 'field' connection, while crimp terminations fulfil the requirement for fast effective volume connections.

Each range has flex cable connector, in-line flex cable connector and panel mounting connector options. Over molded versions of the 400 series and Standard Buccaneer provide safe, secure and tamperproof cable termination.

With a wide choice of alternatives from 2 to 32 poles, BNC connections and screw, solder or crimp terminations, the Buccaneer range provides the answer to many design problems.



EXPlora	9
900 Series Buccaneer	15
Standard Buccaneer	21
Mini Buccaneer	31
400 Series Buccaneer	35
4000 Series Buccaneer	41
6000 Series Buccaneer	47
7000 Series Buccaneer	55

The EXPlora range is most suited to manufacturers of ancillary electrical equipment such as motors, pumps, lighting equipment, process and control gear for use in factories and plant where hazardous or explosive atmospheres can be caused by flammable gases, mists or vapours or by combustible dusts.



Independently tested for compliance to ATEX standards for use in Zone 2 and Zone 22 environments, the new EXP series is manufactured from a tough, high grade UL94V-0 rated Polyester material and provides environmental sealing to IP68. The ATEX coding is: Ex II 3 GD and the certificated no: Baseefa09ATEX0232X.

EXPlora is rated up to 18A, 600Vac/dc for 2, 3, 4 and 5 poles, 16A, 430Vac/dc for 7 pole and 10A, 250Vac/dc for 10 poles. The 3, 4, 5 and 7 pole versions have leading earth contacts making them suitable for single or three phase applications.



- ⊞ ATEX approval for Zone 2 and Zone 22 applications
- ⊞ Independently tested
- ⊞ ATEX Coding:  Ex II 3 GD
- ⊞ ATEX Classification: Ex nA IIC T6 Gc
Ex tc IIIC T85°C Dc
- ⊞ ATEX Certificate No: Baseefa09ATEX0232X
- ⊞ IP68 rating tested at 1.054kg/sq cm (15lb/sq in)
- ⊞ 10m depth for 2 weeks
- ⊞ Up to 18A, 600V ac/dc rating
- ⊞ 2, 3, 4, 5, 7 and 10 pole
- ⊞ Leading earth contact for 3, 4, 5 & 7 pole versions
- ⊞ Trailing Neutral on 5 pole
- ⊞ Plug or socket connection in each body style
- ⊞ Water and dustproof to IP68 when mated

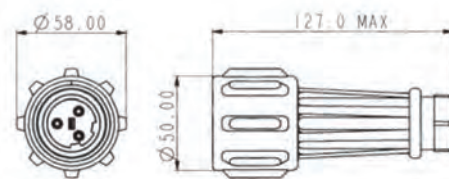
- ⊞ 'Scoop proof' contacts
- ⊞ Field termination - screw terminations
- ⊞ Positive locating keyways - cannot be mis-connected
- ⊞ Sealing caps available to maintain IP68 rating of unmated connectors
- ⊞ Compact design
- ⊞ Easy assembly - no special tools required
- ⊞ Single or 3 phase applications
- ⊞ Cost effective solution
- ⊞ Cable acceptance from 7 to 22mm O/D
- ⊞ Two cable connector versions for 15mm and 22mm (maximum) cable diameters
- ⊞ Separate strain relief on large cable version

Flex Cable Connector



EXP-0911

- Mates with in-line flex or panel mounting versions
- Positive, fast acting locking ring - can be turned with a gloved hand
- Plug or socket versions
- EXP-0 Series 13-15mm cable dia. acceptance as standard, 7-13mm with additional gland pack
- EXP-A Series 20-22mm cable dia. Acceptance as standard, 14-20mm with additional gland pack
- Strain Relief Clamp

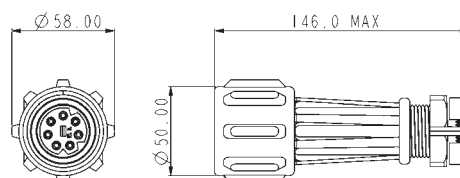


Flex Cable Connector



EXP-A911

- EXP-A Series 20-22mm cable dia. Acceptance as standard, 14-20mm with additional gland pack
- Strain Relief Clamp



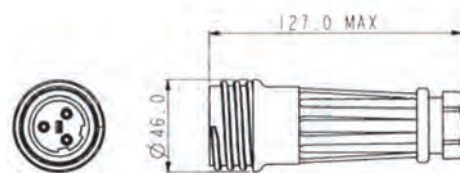
Standard Cable	Large Cable	Description	Standard Cable	Large Cable	Description
EXP-0911/02/P	EXP-A911/02/P	2 pole Plug	EXP-0911/02/S	EXP-A911/02/S	2 pole Socket
EXP-0911/03/P	EXP-A911/03/P	3 pole Plug	EXP-0911/03/S	EXP-A911/03/S	3 pole Socket
EXP-0911/04/P	EXP-A911/04/P	4 pole Plug	EXP-0911/04/S	EXP-A911/04/S	4 pole Socket
EXP-0911/05/P	EXP-A911/05/P	5 pole Plug	EXP-0911/05/S	EXP-A911/05/S	5 pole Socket
EXP-0911/07/P	EXP-A911/07/P	7 pole Plug	EXP-0911/07/S	EXP-A911/07/S	7 pole Socket
EXP-0911/10/P	EXP-A911/10/P	10 pole Plug	EXP-0911/10/S	EXP-A911/10/S	10 pole Socket

In-Line Flex Cable Connector



EXP-0921

- Mates with either EXP-0911 or EXP-A911 connectors
- Plug or socket versions
- EXP-0 Series 13-15mm cable dia. acceptance as standard, 7-13mm with additional gland pack

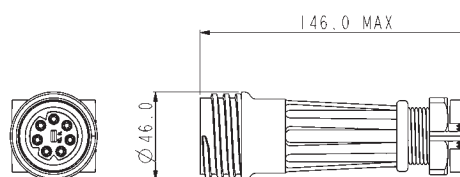


In-Line Flex Cable Connector



EXP-A921

- EXP-A Series 20-22mm cable dia. acceptance as standard, 14-20mm with additional gland pack
- Strain Relief Clamp



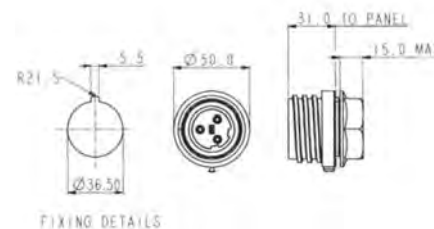
Standard Cable	Large Cable	Description	Standard Cable	Large Cable	Description
EXP-0921/02/P	EXP-A921/02/P	2 pole Plug	EXP-0921/02/S	EXP-A921/02/S	2 pole Socket
EXP-0921/03/P	EXP-A921/03/P	3 pole Plug	EXP-0921/03/S	EXP-A921/03/S	3 pole Socket
EXP-0921/04/P	EXP-A921/04/P	4 pole Plug	EXP-0921/04/S	EXP-A921/04/S	4 pole Socket
EXP-0921/05/P	EXP-A921/05/P	5 pole Plug	EXP-0921/05/S	EXP-A921/05/S	5 pole Socket
EXP-0921/07/P	EXP-A921/07/P	7 pole Plug	EXP-0921/07/S	EXP-A921/07/S	7 pole Socket
EXP-0921/10/P	EXP-A921/10/P	10 pole Plug	EXP-0921/10/S	EXP-A921/10/S	10 pole Socket

Panel Mounting Connector



EXP-0931

- Mates with EXP-0911 and EXP-A911 connectors
- Single hole fixing
- Anti-rotation key
- High grade sealing gasket
- 3-7mm panel thickness



Panel Mounting

EXP-0931/02/P	2 pole Plug
EXP-0931/03/P	3 pole Plug
EXP-0931/04/P	4 pole Plug
EXP-0931/05/P	5 pole Plug
EXP-0931/07/P	7 pole Plug
EXP-0931/10/P	10 pole Plug

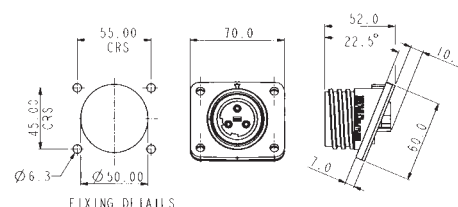
EXP-0931/02/S	2 pole Socket
EXP-0931/03/S	3 pole Socket
EXP-0931/04/S	4 pole Socket
EXP-0931/05/S	5 pole Socket
EXP-0931/07/S	7 pole Socket
EXP-0931/10/S	10 pole Socket

Flange Mounting Connector



EXP-0941

- Mates with EXP-0911 and EXP-A911 connectors
- Supplied with high grade sealing gasket
- Supplied with sealing grommets for panel fixing screws (M6 thread recommended)



Panel Mounting

EXP-0941/02/P	2 pole Plug
EXP-0941/03/P	3 pole Plug
EXP-0941/04/P	4 pole Plug
EXP-0941/05/P	5 pole Plug
EXP-0941/07/P	7 pole Plug
EXP-0941/10/P	10 pole Plug

EXP-0941/02/S	2 pole Socket
EXP-0941/03/S	3 pole Socket
EXP-0941/04/S	4 pole Socket
EXP-0941/05/S	5 pole Socket
EXP-0941/07/S	7 pole Socket
EXP-0941/10/S	10 pole Socket

Accessories



EXP-0990, EXP-0991, EXP-0992

- Heavy duty sealing caps to maintain IP68 rating of unmated connectors, with stainless steel straps

Sealing Caps

EXP-0990	Heavy duty sealing cap for use with EXP-0911/xx/x and EXP-A911/xx/x
EXP-0991	Heavy duty sealing cap for use with EXP-0921/xx/x and EXP-A921/xx/x
EXP-0992	Heavy duty sealing cap for use with EXP-0931 and EXP-0941

Cable Glands



PX0980, PXA980

- Packs of 3 additional pairs Cable Glands for 900 Series Flex Cable Connectors

Gland Packs

EXP-0980	Pack of 3 additional cable glands for EXP-0911 and EXP-0921 to suit cable sizes; 11-13mm, 9-11 and 7-9mm dia.
EXP-A980	Pack of 3 additional cable glands for EXP-A911 and EXP-A921 to suit cable sizes; 18-20mm, 16-18 and 14-16mm dia.

EXP X9	X	X	/	XX	/	X	/	X
Series Designation 09 = Standard Cable Accommodation (7-13mm) A9 = Large Cable Accommodation (14-22mm)	Body Styles 1 = Flex, 2 = Flex In-line, 3 = Panel, 4 = Flange Panel	Contact Termination 1 = Screw Terminal		Number Contacts 02 = 2 pole 03 = 3 pole 04 = 4 pole 05 = 5 pole 07 = 7 pole 10 = 10 pole		Contact Type P = Plug, S = Socket		Cable Acceptance EXP-0 version: Blank = 13-15mm Yellow cable gland (std) 3 = 11-13mm Black cable gland 2 = 9-11mm White cable gland 1 = 7-9mm Dark Grey cable gland EXP-A version: Blank = 20-22mm Yellow cable gland (std) 9 = 18-20mm Black cable gland 8 = 16-18mm White cable gland 7 = 14-16mm Dark Grey cable gland
Example: EXP-0911/07/P/3 = Flex cable connector body, seven pin contacts, with gland to suit 11-13mm cable.								
Contact Layout								
 2 pole  3 pole  4 pole  5 pole  7 pole  10 pole								
Overall dimensions of connectors when mated together:								
EXP-0911 + EXP-0921 EXP-A911 + EXP-A921 EXP-0911 + EXP-0931		230 mm max. 270 mm max. 135 mm max. (to panel)	EXP-A911 + EXP-A931 EXP-0911 + EXP-0941 point on flange) EXP-A911 + EXP-A941 point on flange)		175 mm max. (to panel) 145 mm max. (to panel, mid 174 mm max. (to panel, mid			

Electrical:

No Poles:	2, 3, 4, 5 7 10
Current Rating:	18A 16A 10A
Voltage Rating:	600Vac/dc 430Vac/dc 250Vac/dc
Contact Resistance:	<10mΩ (initial)
Insulation Resistance:	>10 ⁶ MΩ (@ 500V dc)
Dielectric strength:	2.2kV ac min
AC Breakdown voltage:	6kV
Ambient Temperature Range:	-20°C to +55°C
Standards:	ATEX Zone 2 and Zone 22 IEC60079-0:2007 IEC60079-15:2005
ATEX Coding:	Ⓔ II 3 GD
ATEX Certificate No:	Baseefa09ATEX0232X
ATEX Classification:	Ex nA IIC T6 Gc Ex tc IIIC T85°C Dc

Materials:

Body Mouldings:	Polyester
Cap Mouldings:	Polycarbonate
Flammability Rating:	UL94V-0
UV Resistance:	To EN50021:1999
Contacts:	Machined Solid Brass, Nickel plated
O Rings:	Nitrile Panel
Sealing Gasket:	Silicone Rubber
RoHS	Compliant

Mechanical:

Sealing:	IP68, EN60529:2001 tested @ 1.054kg/sq.cm. (15lb/sq.in.) 10m depth for 2 weeks
Cable Acceptance:	EXP-0911 - EXP-0921 13 - 15mm O/D standard, 7-13mm with gland pack EXP-A911 - EXP-A921 20 - 22mm O/D standard, 14 - 20mm with gland pack
Contact Accommodation:	2-7 pole - 2.5 to 4mm ² (13 to 10AWG) conductor, single or multi stranded 10 pole - 0.75 to 2mm ² (14 to 18AWG) conductor, single or multi stranded
Termination:	Axial screw terminals 22mm dia, 150N 15mm dia, 150N 7mm dia, 80N
Cable Retention force:	
Gland Nut Torques:	
EXP-0 range	3.16Nm (28lbf/in)
13-15mm (Yellow - std.)	3.16Nm (28lbf/in)
11-13mm (black)	3.16Nm (28lbf/in)
9-11mm (white)	3.16Nm (28lbf/in)
7-9mm (dark grey)	
EXP-A range	
20-22mm (Yellow - std.)	3.16Nm (28lbf/in)
18-20mm (black)	3.16Nm (28lbf/in)
16-18mm (white)	3.16Nm (28lbf/in)
14-16mm (dark grey)	3.16Nm (28lbf/in)
Tightening Torques:	
Panel mount nut	2.25 Nm
Flange & Bulkhead fixing screws	0.9 Nm
Rear thread EXP-0931 series	M36 x 2-6g



IP68

- ⬢ IP68 rating tested at 1.054kg/sq cm (15lb/sq in) 10m depth for 2 weeks
- ⬢ IP69K, Tested in accordance with DIN 40050/Part 9 IP6k9k
- ⬢ 32A, 600V ac/dc rating
- ⬢ 2, 3, 4, 5, 7 and 10 pole
- ⬢ Plug or socket connection in each body style
- ⬢ Water and dustproof to IP68 when mated
- ⬢ 'Scoop proof' contacts
- ⬢ Field termination - screw terminations
- ⬢ Positive locating keyways - cannot be mis-connected
- ⬢ Sealing caps available to maintain IP68 rating of unmated connectors
- ⬢ Leading earth contact for 3, 4, 5 and 7 pole versions
- ⬢ EN60068-2-52 Test Kb Salt Mist (Cyclic) Marine Severity Level 1
- ⬢ Trailing Neutral on 5 pole
- ⬢ Compact design
- ⬢ Easy assembly - no special tools required
- ⬢ Single or 3 phase applications
- ⬢ Bulkhead moulding available for use with flange mounting body for 45° or 90° mounting (order each separately)
- ⬢ Cost effective solution
- ⬢ Cable accommodation 7-22mm O/D
- ⬢ Two cable connector versions for 15mm and 22mm (maximum) cable diameters
- ⬢ Separate strain relief on large cable version
- ⬢ UL, CSA and VDE approvals

Flex Cable Connector



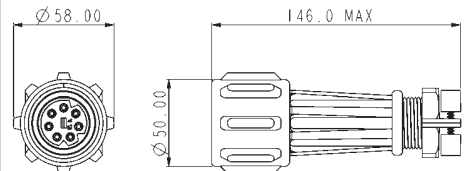
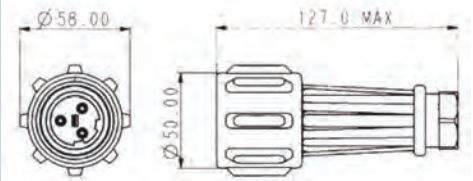
PX0911

Flex Cable Connector



PXA911

- Mates with in-line flex or panel mounting versions
- Positive, fast acting locking ring - can be turned with a gloved hand
- Plug or socket versions
- PX0 Series 13-15mm cable dia. as standard, 7-13mm with additional gland pack
- PXA Series 20-22mm cable dia. as standard, 14-20mm with additional gland pack
- Strain Relief Clamp



Standard Cable	Large Cable	Description	Standard Cable	Large Cable	Description
PX0911/02/P	PXA911/02/P	2 pole Plug	PX0911/02/S	PXA911/02/S	2 pole Socket
PX0911/03/P	PXA911/03/P	3 pole Plug	PX0911/03/S	PXA911/03/S	3 pole Socket
PX0911/04/P	PXA911/04/P	4 pole Plug	PX0911/04/S	PXA911/04/S	4 pole Socket
PX0911/05/P	PXA911/05/P	5 pole Plug	PX0911/05/S	PXA911/05/S	5 pole Socket
PX0911/07/P	PXA911/07/P	7 pole Plug	PX0911/07/S	PXA911/07/S	7 pole Socket
PX0911/10/P	PXA911/10/P	10 pole Plug	PX0911/10/S	PXA911/10/S	10 pole Socket

In-Line Flex Cable Connector



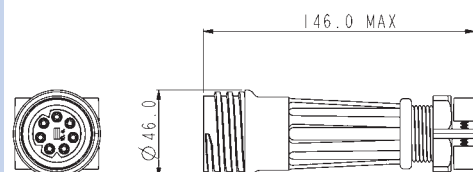
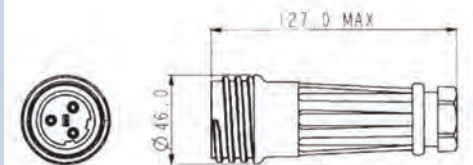
PX0921

In-Line Flex Cable Connector



PXA921

- Mates with either PX0911 or PXA911 connectors
- Plug or socket versions
- PX0 Series 13-15mm cable dia. as standard, 7-13mm with additional gland pack
- PXA Series 20-22mm cable dia. as standard, 14-20mm with additional gland pack
- Strain Relief Clamp



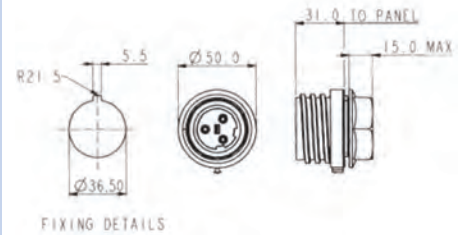
Standard Cable	Large Cable	Description	Standard Cable	Large Cable	Description
PX0921/02/P	PXA921/02/P	2 pole Plug	PX0921/02/S	PXA921/02/S	2 pole Socket
PX0921/03/P	PXA921/03/P	3 pole Plug	PX0921/03/S	PXA921/03/S	3 pole Socket
PX0921/04/P	PXA921/04/P	4 pole Plug	PX0921/04/S	PXA921/04/S	4 pole Socket
PX0921/05/P	PXA921/05/P	5 pole Plug	PX0921/05/S	PXA921/05/S	5 pole Socket
PX0921/07/P	PXA921/07/P	7 pole Plug	PX0921/07/S	PXA921/07/S	7 pole Socket
PX0921/10/P	PXA921/10/P	10 pole Plug	PX0921/10/S	PXA921/10/S	10 pole Socket

Panel Mounted Connector



PX0931

- Mates with PX0911 and PXA911 connectors
- Single hole fixing
- Anti-rotation key
- High grade sealing gasket
- 3-7mm panel thickness



Panel Mounting

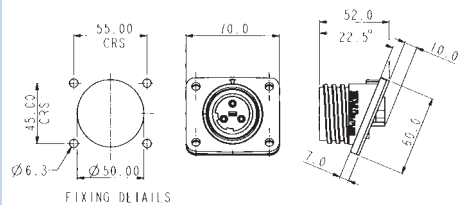
PX0931/02/P	2 pole Plug	PX0931/02/S	2 pole Socket
PX0931/03/P	3 pole Plug	PX0931/03/S	3 pole Socket
PX0931/04/P	4 pole Plug	PX0931/04/S	4 pole Socket
PX0931/05/P	5 pole Plug	PX0931/05/S	5 pole Socket
PX0931/07/P	7 pole Plug	PX0931/07/S	7 pole Socket
PX0931/10/P	10 pole Plug	PX0931/10/S	10 pole Socket

Flange Mounted Connector



PX0941

- Mates with PX0911 and PXA911 connectors
- Supplied with high grade sealing gasket
- Supplied with sealing grommets for panel fixing screws (M6 thread recommended)



Flange Mounting

PX0941/02/P	2 pole Plug	PX0941/02/S	2 pole Socket
PX0941/03/P	3 pole Plug	PX0941/03/S	3 pole Socket
PX0941/04/P	4 pole Plug	PX0941/04/S	4 pole Socket
PX0941/05/P	5 pole Plug	PX0941/05/S	5 pole Socket
PX0941/07/P	7 pole Plug	PX0941/07/S	7 pole Socket
PX0941/10/P	10 pole Plug	PX0941/10/S	10 pole Socket

Additional Bulkhead Adaptor Moulding



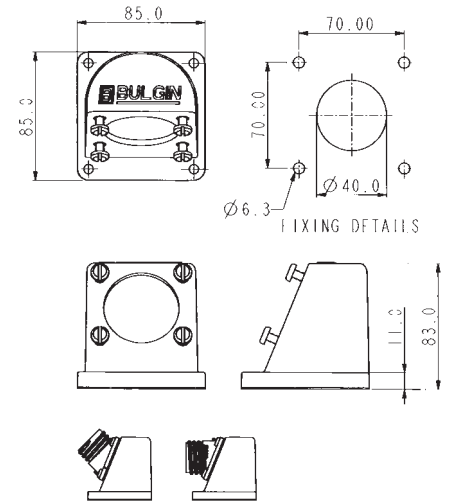
PX0950

Additional Bulkhead Adaptor Moulding



PX0950 & PX0941

- For use with flange mounting connector PX0941, to give 45° or 90° angle
- Supplied with high grade sealing gasket
- Supplied with sealing grommets for panel fixing screws (M6 thread recommended)



Accessories



PX0960, PX0970

- Sealing caps to maintain IP68 rating of unmated connectors, with plastic straps

Accessories



PX0990, PX0991, PX0992

- Heavy duty sealing caps to maintain IP68 rating of unmated connectors, with stainless steel straps

Sealing Caps

- | | |
|--------|---|
| PX0960 | Sealing cap for use with PX0911/xx/x and PXA911/xx/x |
| PX0970 | Sealing cap for use with all other styles |
| PX0990 | Heavy duty sealing cap for use with PX0911/xx/x and PXA911/xx/x |
| PX0991 | Heavy duty sealing cap for use with PX0921/xx/x and PXA921/xx/x |
| PX0992 | Heavy duty sealing cap for use with PX0931W and PX0941 |

Gland Packs

- | | |
|--------|--|
| PX0980 | Pack of 3 additional cable glands for PX0911 and PX0921 to suit cable sizes; 11-13mm, 9-11 and 7-9mm dia. |
| PXA980 | Pack of 3 additional cable glands for PXA911 and PXA921 to suit cable sizes; 18-20mm, 16-18 and 14-16mm dia. |

Electrical

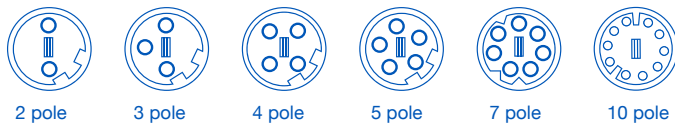
No Poles:	2, 3	4, 5	7	10†
Current Rating:	32A 30A, CSA	32A 25A, CSA	32A 25A, CSA*	10A UL
Voltage Rating:	600V ac/dc	600V ac/dc	430V ac/dc	250V ac/dc
Contact Resistance:	<10m Ω (initial)			
Insulation Resistance:	>10 ⁹ MΩ (@ 500V dc)			
Dielectric strength:	2.2kV ac min			
AC Breakdown voltage:	6kV			
Operating Temperature Range:	-40°C to +85°C			
Approvals:	 E214972  1211899  40003148  2011010203500396 – 10 Amp Rated 2011010203500396 – 32 Amp Rated			

*with 75°C min. rated cable

Material

Body Mouldings:	Polyamide
Flammability Rating:	UL94V-0
UV Resistance:	To EN50021: 1999
Contacts:	Machined Solid Brass, Nickel plated
O Rings:	Nitrile
Panel Sealing Gasket:	Silicone Rubber
RoHS	Compliant

Contact Layout



Dimensions

Overall dimensions of connectors when mated together

PX0911 + PX0921 230 mm max.
PXA911 + PXA921 270 mm max.

PX0911 + PX0931 135 mm max. (to panel)
PXA911 + PX0931 175 mm max. (to panel)

PX0911 + PX0941 145 mm max.
(to panel, mid point on flange)

PXA911 + PX0941 174 mm max.
(to panel, mid point on flange)

Mechanical:

Sealing:	IP69K, Tested in accordance with DIN 40050/Part 9 IP6K9K.
	IP68, EN60529:1992+A2:2013 tested @ 1.054kg/sq.cm. (15lb/sq.in.) 10m depth for 2 weeks
Salt Mist:	EN60068-2-52 Test Kb Salt Mist (Cyclic) Marine Severity Level 1
Cable Acceptance:	PX0911-PX0921 13 - 15mm O/D standard, 7-13mm with gland pack PXA911-PXA921 20 - 22mm O/D standard, 14 - 20mm with gland pack
Contact Accommodation:	2-7 pole - 2.5 to 4mm ² (13 to 10AWG) conductor, single or multi stranded 10 pole - 0.75 to 2mm ² (14 to 18AWG) conductor, single or multi stranded
Termination:	Axial screw terminals

Cable Retention force:	22mm dia, 150N 15mm dia, 150N 7mm dia, 80N
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Gland Nut Torques:	
PX0 range	
13-15mm (Yellow - std.)	3.16Nm (28 lbf.in.)
11-13mm (black)	3.16Nm (28 lbf.in.)
7-9mm (dark grey)	3.16Nm (28 lbf.in.)
PXA range	3.16Nm (28 lbf.in.)
20-22mm (Yellow - std.)	
18-20mm (black)	3.16Nm (28 lbf.in.)
16-18mm (white)	3.16Nm (28 lbf.in.)
14-16mm (dark grey)	3.16Nm (28 lbf.in.)

Tightening Torques:	
Panel mount nut	2.25Nm (20 lbf.in.)
Flange & Bulkhead	
fixing screws	0.9Nm (8 lbf.in.)
Inserts into Bodies	1.13Nm (10 lbf.in.) to 1.36Nm (12 lbf.in.)
Term screws - 2 to 5 poles	1.0Nm (9 lbf.in.) max
Term screws - 7 pole	0.4Nm (3.5 lbf.in.) max
Term screws - 10 pole	0.25Nm (2.2 lbf.in.) max

Rear thread PX0931 series M36 x 2-6g

PX X9	X	X	/	XX	/	X	/	XX
Series Designation	Body Styles	Contact Termination		Number Contacts		Contact Type		Cable Acceptance
09 = Standard Cable Accommodation (7-13mm) A9 = Large Cable Accommodation (14-22mm)	1 = Flex 2 = Flex In-line 3 = Panel 4 = Flange Panel	1 = Screw Terminal		02 = 2 pole 03 = 3 pole 04 = 4 pole 05 = 5 pole 07 = 7 pole 10 = 10 pole		P = Plug, S = Socket		EXP-0 version: Blank = 13-15mm Yellow cable gland (std) 3 = 11-13mm Black cable gland 2 = 9-11mm White cable gland 1 = 7-9mm Dark Grey cable gland EXP-A version: Blank = 20-22mm Yellow cable gland (std) 9 = 18-20mm Black cable gland 8 = 16-18mm White cable gland 7 = 14-16mm Dark Grey cable gland
Example: PX0911/07/P/03 = Flex cable connector with standard cable accommodation body, seven pin contacts, with gland to suit 11-13mm cable.								



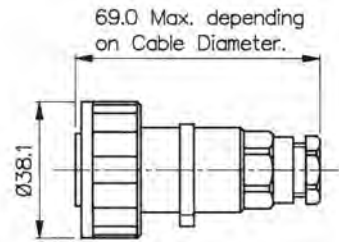
- ⬢ IP68 rating tested at 1.054kg/sq cm (15lb/sq in) 10m depth for 2 weeks and 9.84kg/sq cm (140lb/sq in) 100m depth for 12 hours
- ⬢ IP69K, Tested in accordance with DIN 40050/Part 9 IP6k9k
- ⬢ Water and dustproof to IP68 when mated
- ⬢ 2, 3, 4, 6, 7, 9, 12 and 25 pole
- ⬢ 12A, 277V ac/dc 2 pole screw terminal, 3 pole screw terminal and crimp contacts
- ⬢ 10A, 277V ac/dc 4 pole screw terminal
- ⬢ 5A, 277V ac/dc 6 and 7 pole screw terminal
- ⬢ 5A, 150V ac/dc 9 pole crimp contacts
- ⬢ 5A, 50V ac/dc 12 pole crimp and solder contacts
- ⬢ 1A, 50V ac/dc 25 pole crimp and solder contacts
- ⬢ Plug or socket connection in each body style
- ⬢ Compact design
- ⬢ Diameter over coupling ring 38mm
- ⬢ Sealing caps available to maintain IP68 rating of unmated connectors
- ⬢ 7 body styles - flex cable, in-line flex cable, panel mount (front), panel mount (rear), PCB mount, bulkhead and flange mount
- ⬢ Leading earth contact for 3 pole socket version
- ⬢ Positive locating keyways - cannot be mis-connected
- ⬢ Easy assembly - no special tools required on screw terminal versions
- ⬢ Cable range from 3.5mm - 9mm
- ⬢ Colour coded identification variants
- ⬢ Pre-wired, overmoulded cable assemblies
- ⬢ UL, CSA and VDE approvals
- ⬢ EN60068-2-52 Test Kb Salt Mist (Cyclic) Marine Severity Level 1

Flex Cable Connector



PX0731

- Mates with In-Line Flex or Panel Mounting Versions
- Screw Locking Ring
- Pin or Socket Versions
- Leading Earth on 3 pole connectors
- Poles 2, 3, 4, 6, 7, 9, 12, 25
- Standard Cable Acceptance (2 to 9 pole) 6-8mm, 3.5-9mm with alternative glands



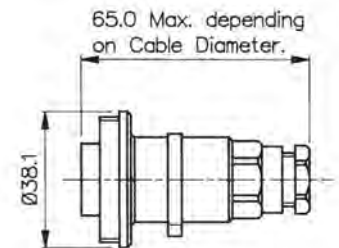
Poles	Termination	Pin Contacts	Socket Contact	Contacts
2	Screw	PX0736/P	PX0736/S	Supplied Fitted
3	Screw	PX0731/P	PX0731/S	Supplied Fitted
3	Crimp	PX0776/P	PX0776/S	Supplied Loose
4	Screw	PX0748/P	PX0748/S	Supplied Fitted
6	Screw	PX0739/P	PX0739/S	Supplied Fitted
7	Screw	PX0745/P	PX0745/S	Supplied Fitted
9	Crimp	PX0728/P	PX0728/S	Supplied Loose
12	Crimp/Solder	PX0794/P	PX0794/S	Order Separately
25	Crimp/Solder	PX0820/P	PX0820/S	Order Separately

Inline Flex Cable Connector



PX0732

- Mates with Flex or Panel Mounting Versions
- Screw Locking Ring
- Pin or Socket Versions
- Leading Earth on 3 pole connectors
- Poles 2, 3, 4, 6, 7, 9, 12, 25
- Standard Cable Acceptance (2 to 9 pole) 6-8mm, 3.5-9mm with alternative glands



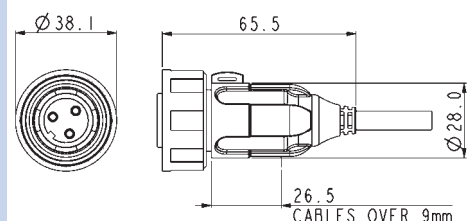
Poles	Termination	Pin Contacts	Socket Contact	Contacts
2	Screw	PX0737/P	PX0737/S	Supplied Fitted
3	Screw	PX0732/P	PX0732/S	Supplied Fitted
3	Crimp	PX0778/P	PX0778/S	Supplied Loose
4	Screw	PX0749/P	PX0749/S	Supplied Fitted
6	Screw	PX0740/P	PX0740/S	Supplied Fitted
7	Screw	PX0746/P	PX0746/S	Supplied Fitted
9	Crimp	PX0729/P	PX0729/S	Supplied Loose
12	Crimp/Solder	PX0795/P	PX0795/S	Order Separately
25	Crimp/Solder	PX0821/P	PX0821/S	Order Separately

Pre Wired Flex Cable Connector



PX0700

- Overmoulded cable assemblies
- Up to 14mm dia cable with PVC or PU jackets
- PX0700 flex cable connector
- Mates with in-line flex connector and all panel connectors

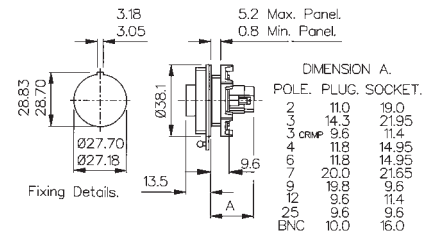


Front Panel Mounting Connector



PX0730/P

- Mates with Flex Cable Connector
- Front panel mounting
- Single Hole Fixing
- Pin or Socket Versions
- Poles 2, 3, 4, 6, 7, 9, 12, 25



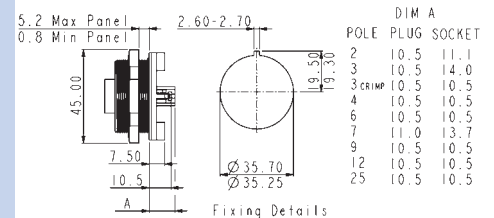
Poles	Termination	Pin Contacts	Socket Contact	Contacts
2	Screw	PX0735/P	PX0735/S	Supplied Fitted
3	Screw	PX0730/P	PX0730/S	Supplied Fitted
3	Crimp	PX0779/P	PX0779/S	Supplied Loose
4	Screw	PX0747/P	PX0747/S	Supplied Fitted
6	Screw	PX0738/P	PX0738/S	Supplied Fitted
7	Screw	PX0744/P	PX0744/S	Supplied Fitted
9	Crimp	PX0727/P	PX0727/S	Supplied Loose
12	Crimp/Solder	PX0796/P	PX0796/S	Order Separately
25	Crimp/Solder	PX0822/P	PX0822/S	Order Separately

Rear Panel Mounting Connector



PX0709/x/xx

- Mates with Flex Cable Connector
- Rear panel mounting
- Single Hole Fixing
- Pin or Socket Versions
- Poles 2, 3, 4, 6, 7, 9, 12 or 25



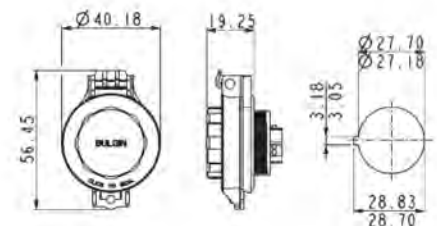
Poles	Termination	Pin Contacts	Socket Contact	Contacts
2	Screw	PX0709/P/02	PX0709/S/02	Supplied Fitted
3	Screw	PX0709/P/03	PX0709/S/03	Supplied Fitted
3	Crimp	PX0708/P/03	PX0708/S/03	Supplied Loose
4	Screw	PX0709/P/04	PX0709/S/04	Supplied Fitted
6	Screw	PX0709/P/06	PX0709/S/06	Supplied Fitted
7	Screw	PX0709/P/07	PX0709/S/07	Supplied Fitted
9	Crimp	PX0708/P/09	PX0708/S/09	Supplied Loose
12	Crimp/Solder	PX0708/P/12	PX0708/S/12	Order Separately
25	Crimp/Solder	PX0708/P/25	PX0708/S/25	Order Separately

Spring Loaded Sealing Cap



PX0713

- IP54 rated
- Spring loaded
- Clip shut to seal
- For use with front of panel mounting connector types

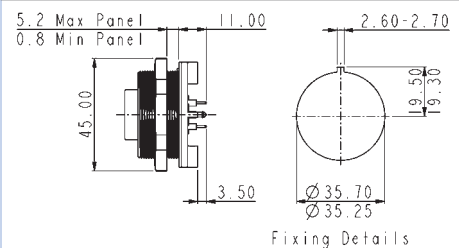


PCB Mounting Connector



PX0707/P/12

- Mates with Flex Cable connector
- Rear panel mounting
- No. poles: 3, 4, 6, 9, 12 or 25
- Pin or socket versions
- Pre-loaded Gold Plated contacts



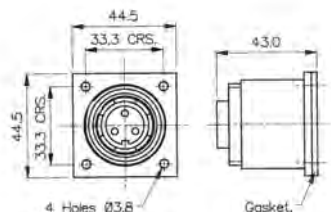
Poles	Termination	Pin Contacts	Socket Contact	Contacts
3	PCB	PX0707/P/03	PX0707/S/03	Supplied Fitted
4	PCB	PX0707/P/04	PX0707/S/04	Supplied Fitted
6	PCB	PX0707/P/06	PX0707/S/06	Supplied Fitted
9	PCB	PX0707/P/09	PX0707/S/09	Supplied Fitted
12	PCB	PX0707/P/12	PX0707/S/12	Supplied Fitted
25	PCB	PX0707/P/25	PX0707/S/25	Supplied Fitted

Bulkhead Flange Mounting Connector



PX0756/S

- Mates with Flex Cable Connector
- Screw Fixing Flange
- Pin or Socket Versions
- Poles 2, 3, 4, 6, 7, 9, 12, 25
- Supplied with sealing gasket and screw sealing grommets



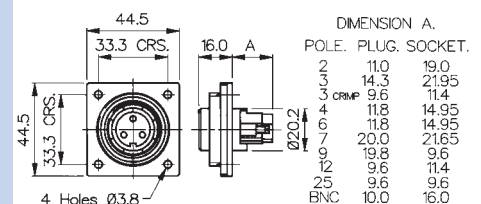
Poles	Termination	Pin Contacts	Socket Contact	Contacts
2	Screw	PX0757/P	PX0757/S	Supplied Fitted
3	Screw	PX0756/P	PX0756/S	Supplied Fitted
3	Crimp	PX0787/P	PX0787/S	Supplied Loose
4	Screw	PX0761/P	PX0761/S	Supplied Fitted
6	Screw	PX0758/P	PX0758/S	Supplied Fitted
7	Screw	PX0760/P	PX0760/S	Supplied Fitted
9	Crimp	PX0762/P	PX0762/S	Supplied Loose
12	Crimp/Solder	PX0798/P	PX0798/S	Order Separately
25	Crimp/Solder	PX0823/P	PX0823/S	Order Separately

Low Profile Flange Mounting Connector



PX0765/S

- Screw Flange Fixing
- Pin or Socket Versions
- Poles 2, 3, 4, 6, 7, 9, 12, 25
- Mates with Flex Cable Connector
- Supplied with sealing gasket and screw sealing grommets



Poles	Termination	Pin Contacts	Socket Contact	Contacts
2	Screw	PX0764/P	PX0764/S	Supplied Fitted
3	Screw	PX0765/P	PX0765/S	Supplied Fitted
3	Crimp	PX0781/P	PX0781/S	Supplied Loose
4	Screw	PX0766/P	PX0766/S	Supplied Fitted
6	Screw	PX0767/P	PX0767/S	Supplied Fitted
7	Screw	PX0768/P	PX0768/S	Supplied Fitted
9	Crimp	PX0769/P	PX0769/S	Supplied Loose
12	Crimp/Solder	PX0797/P	PX0797/S	Order Separately
25	Crimp/Solder	PX0824/P	PX0824/S	Order Separately

Coloured Contact Inserts



Coloured Inserts

- With or without matching gland nut
- Positive visual identification
- Available in; Black, Blue, Green, Grey, Light Grey, Red, White and Yellow

Contact Inserts Colour Options

Part No	Suffix Colour
Blank	Black
BL	Blue
GN	Green
GY	Grey
LG	Light Grey
RD	Red
WH	White
YL	Yellow

Insert/Gland Nut Combinations

1	Insert and Gland Nut Coloured
2	Insert Only Coloured

E.g. PX0731/P/YL1 = Yellow insert and gland nut

Contacts for 12 and 25 Pole Inserts



12 and 25 way contacts

- Crimp or Solder Pins and Sockets
- Gold Plated
- Current ratings:
12 way: 5A, 50V
25 way: 1A, 50V

Contacts - Solder & Crimp for 12 and 25 pole

Contacts (for 25 pole) (Supplied in packs of 10)	Solder	Crimp
Pins	SA3180/1	SA3180
Sockets	SA 3179/1	SA3179
Contacts (for 12 pole) (Supplied in packs of 10)	Solder	Crimp
Pins	SA3348/1	SA3348
Sockets	SA3347/1	SA3347

Assembly Tools



PNo 14025 and 13027

- Crimp Tools for 3, 9, 12 and 25 pole crimp contacts
- Insertion/Extraction Tool for 25 pole contacts

Tools

Crimp Tool (25 pole)	PNo. 14025/1AMP
Crimp Tool (12 pole)	PNo. 14025
Positioner (12 pole)	PNo. 14025/5AMP
Crimp Tool (9 pole)	PNo. 13826
Crimp Tool (3 pole)	PNo. 14232
3 pole positioner	PNo. 14232/1
Insertion/Extraction Tool (25 pole)	PNo. 13027
Insertion/Extraction Tool (12 pole)	PNo. 13027/1
Insertion/Extraction Tool (3 pole)	PNo. 13027/3

Cable Glands



SA3253

- Pack of alternative cable glands to suit cables from 3.5 to 9mm dia.

Cable Acceptance - Alternatives

Gland Diameter	Gland Part No.	Gland Colour	Additional Suffix
6-8mm	12023	Black	Standard for 2-12 pole
3.5-5mm	SA3426	Grey	Suffix /04†
5-7mm	12023/1	White	Suffix /05
7-9mm	12023/2	Yellow	Suffix /07*
Gland Pack	SA3253	Pack of 3 glands to suit cables 3.5-5mm, 5-7mm & 7-9mm dia†	

*Note: 7-9mm gland standard for 25 way, no suffix required.
†Includes additional black gland cage for 3.5-5mm dia. cable range.

To order connector with alternative cable gland add suffix to part no. e.g. PX0731/P/07 = PX0731 3 pin connector with cable gland to suit 7-9mm dia. cable.

Cable Acceptance - Standard as supplied

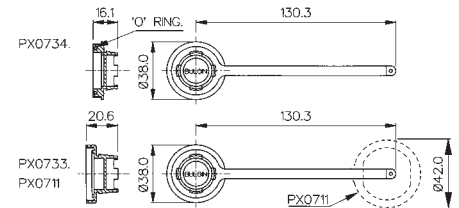
No. Contacts	Cable Diameter or Type
2-12 Pole	6-8mm
25 Pole	7-9mm

Sealing Cap and Assembling Tool



PX0734 PX0733

- Maintains IP68 Rating of Unmated Connectors
- Can be used to remove Inserts
- PX0734 for Flex Cable Connector
- PX0733 for In-line Flex, Front Panel, Bulkhead and Flange mount connectors
- PX0711 for PCB and Rear Panel Mount connectors

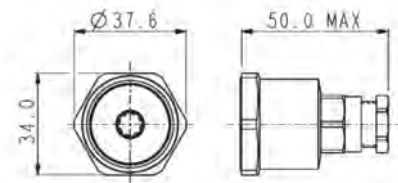


Rear of Panel Back Shell



PX0799

- Provides environmental seal to rear of panel
- Standard cable acceptance 6-8mm, 3.5 to 9mm with alternative glands
- For use on front panel mounting connectors
- Replaces mounting nut in panel connector



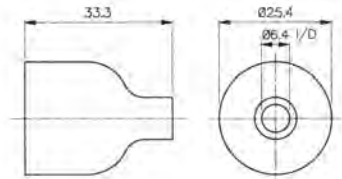
PVC Insulation Boot



PNo. 12855

- Shock protection for rear of connector
- Flammability Rating UL94V-0
- Fits Front Panel Mount Versions only

12855 for panel mounting types only.



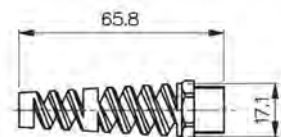
Cable Support Accessory



PNo. 12237

- Gives Extra Support to the Cable
- Suitable for 5-7mm and 7-9mm Cable Diameters

12237 provides additional cable support. Suitable for 5-7mm and 7-9mm cables.



PX0xxx	X	XX	XX	X
Body Styles	Contacts Type	Cable Acceptance or PCB/Rear Panel Mounting	Insert/Gland Nut Colour	Insert/Gland Nut Colour Combination
	P = Pin S = Socket	Flex Cable and In-line Flex Connectors cable acceptance use: Blank = 6-8mm (Black) standard for 2-12 pole 04 = 3.5-5mm (Grey) 05 = 5-7mm (White) 07 = 7-9mm (Yellow) (standard for 25 way, no suffix required) PCB (PX0707) and Rear Panel Mount connectors (PX0708 and PX0709) use: 02 = 2 pole 03 = 3 pole 04 = 4 pole 06 = 6 pole 07 = 7 pole 09 = 9 pole 12 = 12 pole 25 = 25 pole Front Panel, Bulkhead and Flange Mount - not required:	Blank = Black BL = Blue GN = Green GY = Grey LG = Light Grey RD = Red WH = White YL = Yellow	1 = Insert and Gland Nut Coloured 2 = Insert only Coloured

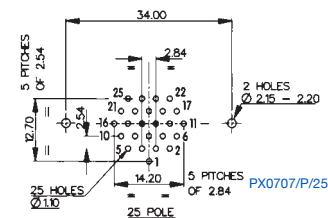
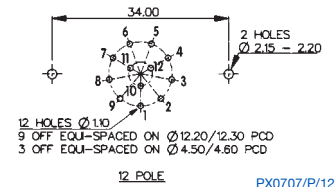
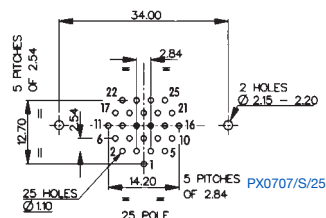
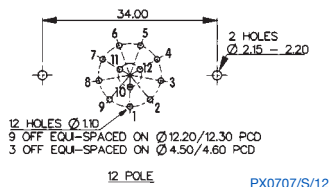
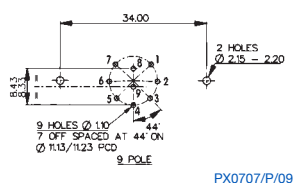
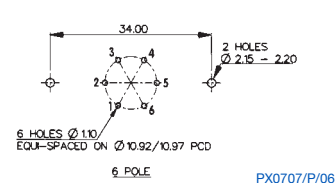
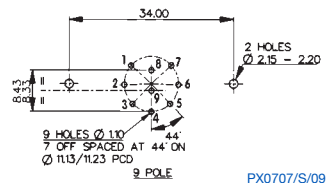
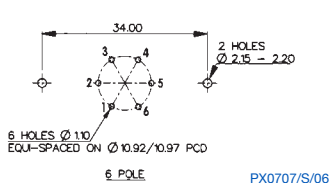
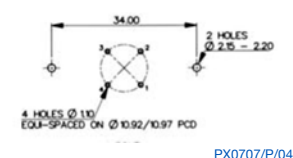
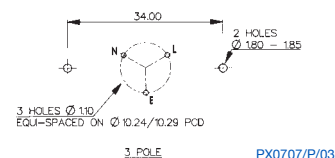
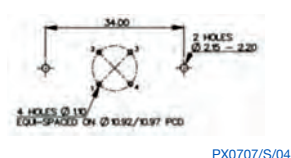
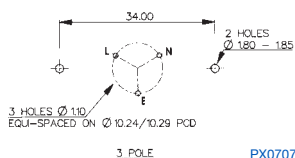
Examples:

PX0707/P/06= PCB Panel connector, pin contacts, 6 pole
PX0731/S = Flex Cable connector, socket contacts, 3 pole
PX0732/P/07/BL2 = In-Line Flex Cable connector, pin contacts, 3 pole, 7-9mm cable acceptance, blue insert

PCB Layouts

Sockets
Contact Nos viewed from rear of panel

Pins
Contact Nos viewed from rear panel rear of panel



Electrical:

No. Poles:	2, 3	4	6, 7	9	12	25
Current Rating:						
VDE	12A	10A	5A	5A	5A	1A
UL, CSA	10A	6A	3A	5A	5A	1A
Voltage Rating (ac/dc):	277V	277V	277V	150V	50V	50V
Contact Resistance:	<10mΩ (2-9 Pole) <5mΩ (12 Pole) <5mΩ (25 Pole)					
Insulation Resistance:	>10 ⁴ MΩ @ 500V d.c. (2-9 Pole)					
AC Breakdown voltage:	4kV Pole - Pole (2-9 Pole) 6kV Poles - Panel (Low Profile Flange and Panel Types - 2-9 Pole) 7.5kV Poles - Panel (Other Types - 2-9 Pole)					
Operating Temp. Range:	-20°C to +70°C					
Approvals:	E93288 and E337507 LR80968-30 40023148					
 UL						
 CSA						
 VDE						
	Overmoulded cable assemblies approvals to customer requirements.					

Material:

Body Mouldings:	Glass Filled Polyamide UL94HB
Inserts (2-25 pole):	Polyamide UL94V-0
PX0707	Polyamide UL94V-0
PX0708	Polyamide UL94V-0
PX0709	Polyamide UL94V-0
Overmoulded types:	
Body Mouldings:	Polyurethane
Flammability Rating:	UL94V-HB
Contacts:	
Screw Terminal:	Brass, Nickel Plated
Crimp (9 pole):	Copper Alloy, Tin Plated
Crimp/Solder (12+25 Pole):	Copper Alloy, Gold Plated (0.1µm on Nickel)
BNC inserts:	Brass, Nickel Plated
BNC contacts:	Brass, Silver Plated
RoHS	Compliant

Mechanical:

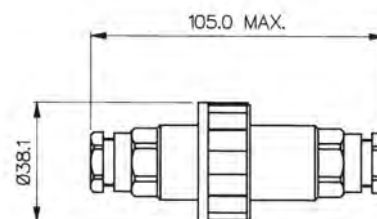
Sealing:	IP69K, Tested in accordance with DIN 40050/Part 9 IP6k9k
	IP68, EN 60529:1992+A2:2013 Tested @ 1.054kg/sq.cm. (15lb/sq.in.) 10m depth for 2 weeks. EN 60529:1992 +A2:2013 Tested @ 9.84kg/sq.cm. (140lb/sq.in.) 100m depth for 12 hours.
Salt Mist:	EN60068-2-52 Test Kb Salt Mist (Cyclic) Marine Severity Level 1
Cable Acceptance:	
2-12 Pole - standard gland:	6-8mm dia
2-12 Pole - alternative glands:	3.5-9mm dia
25 Pole - standard gland:	7-9mm dim
25 Pole - alternative glands:	3.5-7mm dim
Contact Accommodation:	
2 and 3 pole screw terminals:	4mm ² (12AWG) max
3 pole crimp:	1.0-1.5mm ² (14-18AWG) max
4, 6 and 7 pole:	1.5mm ² (16AWG) max
9 pole:	0.12-0.21mm ² (24-26AWG)
12 pole:	0.32mm ² (22-26AWG) max
25 pole:	0.12-0.21mm ² (24-26AWG)
Terminations:	
2-7 Pole:	Screw Terminals
3 Pole:	Screw Terminals & Crimp
9 Pole:	Crimp Contacts
12 Pole:	Crimp & Solder Contacts
25 Pole:	Crimp & Solder Contacts
Tightening Torques:	
Flex Mounting/In-Line:	Gland Nut: 1.13Nm (10lbf.in.)
Panel Mounting:	Rear Fixing Nut: 1.7Nm (15lbf.in.) Front Fixing Nut: 1.4Nm (12.4lbf.in.)
Surface/Bulkhead and Low Profile Flange Mounting:	4 Fixing Screws (using washers supplied) 0.34Nm (3lbf.in.) 1.13Nm (10lbf.in.)
Sealings Caps/Locking Ring:	
Rear thread, Front Panel Connector:	M27 x 1.0-6H
Thread, Front Panel Connector:	M35 x 1.0-6H

Cable Joiner



PX0777

- IP68 & IP69k Rating
- For Sealed In-Line Connections
- Standard Cable Acceptance 6-8mm
- Cable Range 3.5-9mm (using alternative glands)
- Supplied with 4, 6 or 8 way
- Terminal Block
- Available Moulded in Black or Orange



Specifications	PX0777	PX0777/4POLE, 6POLE, 8POLE	POLE Configurations
Rating:	16A, 250V a.c.	10A, 250V a.c.	
Wire Termination:	3 way Terminal Block	4, 6, 8 way Terminal Block	
Conductor Accommodation:	2.5mm ² max (14AWG)	1.5mm ² max (16AWG)	
Cable Acceptance:	6-8mm dia alternative glands available on request	6-8mm dia alternative glands available on request	
Material:	Glass Filled Polyamide UL94-HB	Glass Filled Polyamide UL94-V0	
Sealing:	IP68 to BSEN 60529 : 1992 1.054kg/sq.cm. (15lbs/sq.in.) 10m depth for 2 weeks	IP68 to BSEN 60529 : 1992 1.054kg/sq.cm. (15lbs/sq.in.) 10m depth for 2 weeks	
Salt Mist	IP69k to DIN 40050-9	IP69k to DIN 40050-9	
Operating Temp. Range:	EN60068-2-52 Test Kb Salt Mist (Cyclic) Marine Severity Level 1	EN60068-2-52 Test Kb Salt Mist (Cyclic) Marine Severity Level 1	
Colour:	-20°C to +70°C	-20°C to +70°C	
	Black Orange (Add /OR to PNo.)	Black Orange (Add /OR to PNo.)	
RoHS	Compliant	Compliant	

Examples

PX0777 – 3 Pole 6-8mm Black.

PX0777/04 – 3 Pole 3.5-5.0mm Black.

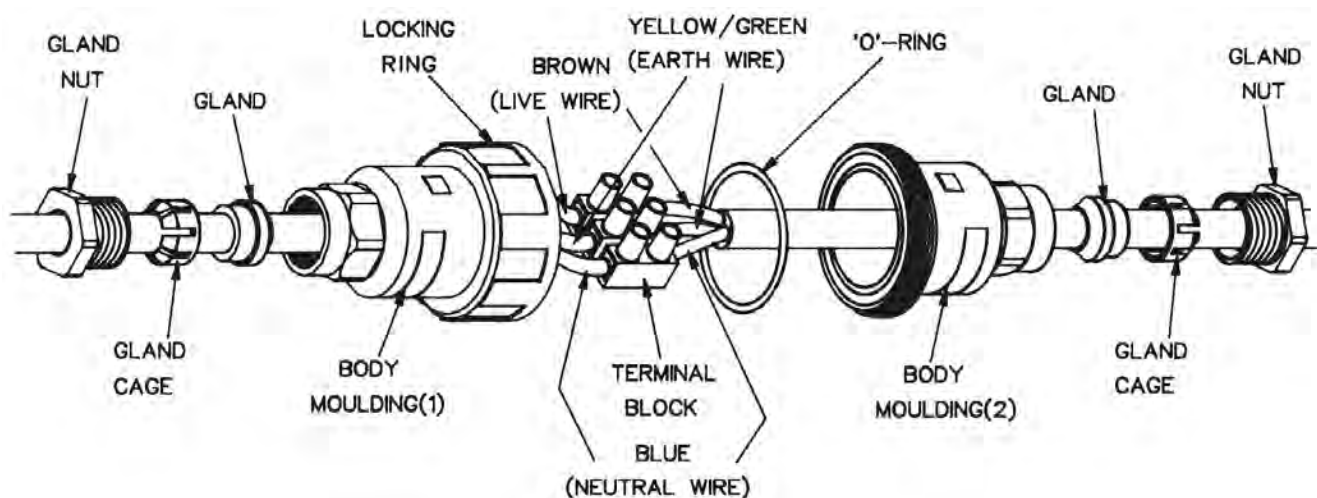
PX0777/04/OR – 3 Pole 3.5-5.0mm Orange.

PX0777/4POLE – 4 Pole 6-8mm Black.

PX0777/6POLE/04 – 6 Pole 3.5-5.0mm Black.

PX0777/8POLE/04/OR – 8 Pole 3.5-5.0mm Orange.

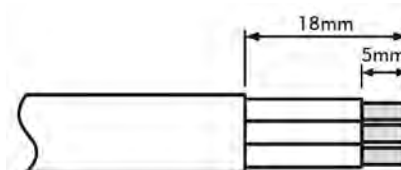
PX0777	XPOLE	XX	XX
Part No	Blank = 3 Pole 4POLE = 4 Pole 6POLE = 6 Pole 8POLE = 8 Pole	Blank = 6-8mm 04 = 3.5-5mm 05 = 5-7mm 07 = 7-9mm	Blank = Black OR = Orange



1. Strip wires to dimensions shown.
2. Assemble components parts onto cable as shown, then connect wires to terminal block.

ENSURING WIRES CONNECTED INTO ONE SIDE OF TERMINAL BLOCK MATCH WIRES CONNECTED INTO THE OTHER SIDE.

i.e. Brown to Brown (Live)
Blue to Blue (Neutral)
Green/Yellow to Green/Yellow (Earth)



Wire stripping details

3. Bring the two body mouldings together ensuring the 'O' ring is correctly located in groove then lock together with locking ring, ensure ring is fully tightened.

Put gland cage over gland and push fully home into its appropriate body then fully tighten gland nuts.

4. To ensure a good seal, all surfaces must be completely free of dust, grease or any other contamination.

THIS CABLE CONNECTOR IS SUITABLE FOR USE WITH LOADS NOT EXCEEDING 16 AMPS USING 1.5mm² CABLE

ALWAYS USE WITH SUPPLY PROTECTED BY AN RCD, IF IN DOUBT CONSULT A QUALIFIED ELECTRICIAN.

DANGER

DISCONNECT MAINS
SUPPLY BEFORE
DISMANTLING
CONNECTOR



- ⬡ Water and dustproof to IP68 when mated
- ⬡ IP68 rating tested at 1.054kg/sq cm (15lb/sq in) 10m depth for 2 weeks
- ⬡ 2, 3, 4 or 6 pole screw terminal inserts
- ⬡ 3 or 8 pole solder or crimp inserts
- ⬡ 5 body styles, Flex, Flex In-Line, Panel (2 styles), Panel Side Entry
- ⬡ 50Ω or 75Ω BNC inserts
- ⬡ 5A, 380V a.c. 3 & 8 way solder/crimp terminals
- ⬡ 10A, 250V a.c. 2 & 3 way screw terminals
- ⬡ 6A, 250V a.c. 4 way screw terminal
- ⬡ 3A, 250V a.c. 6 way screw terminals
- ⬡ EN60068-2-52 Test Kb Salt Mist (Cyclic) Marine Severity Level 1
- ⬡ Plug or socket connection in each body style
- ⬡ Cable range from 3.5mm - 9mm
- ⬡ Diameter over coupling ring 26mm
- ⬡ Positive locating keyways - cannot be mis-mated
- ⬡ Sealing caps available to maintain IP68 rating of unmated connectors
- ⬡ Flammability rating UL94V-0 material
- ⬡ Leading earth pin is on 3, 4 & 6 pole screw terminal versions only
- ⬡ Compact design
- ⬡ Easy assembly - no special tools required on screw terminal versions
- ⬡ UL approval

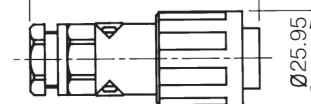
Flex Cable Connector



PX0800 - shown with insert

- PX0800 Connector body
- Mates with Flex In-line or Panel Mounting versions
- Screw locking ring
- Suitable for Pin or Socket inserts
- Cable Acceptance 3.5-9mm (Standard 5-7mm)
- Contact inserts supplied separately

61.5 Max. Depending on Cable Dia. / Pin or Socket Carrier.



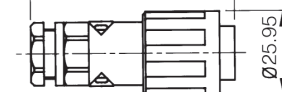
Inline Flex Cable Connector



PX0801 - shown with insert

- PX0801 Connector body
- Mates with PX0800 - Flex Cable connector
- Suitable for Pin or Socket inserts
- Cable Acceptance 3.5-9mm (Standard 5-7mm)
- Contact inserts supplied separately

61.5 Max. Depending on Cable Dia. / Pin or Socket Carrier.



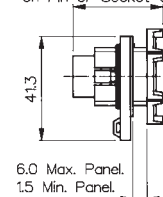
Panel Mounting



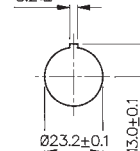
PX0802 - shown with insert

- PX0802 Connector body
- Mates with PX0800 - Flex Cable connector
- Single hole fixing
- Suitable for Pin or Socket inserts
- Contact inserts supplied separately

37.0 Max. Depending on Pin or Socket Carrier.



3.2 ±0.1



Fixing Details.

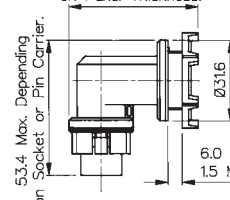
Panel Mounting



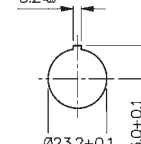
PX0803 - shown with insert

- PX0803 Connector body
- Mates with PX0800 - Flex Cable connector
- Right angle cable entry
- Single hole fixing
- Suitable for Pin or Socket inserts
- Contact inserts supplied separately

53.4 Max. Depending on Panel Thickness.



3.2 ±0.1



Fixing Details.

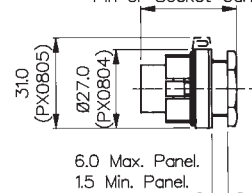
Panel Mounting



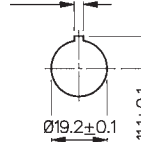
PX0805 - shown with insert

- PX0804 and PX0805 Connector bodies
- Mates with PX0800 - Flex Cable connector
- PX0804 without sealing cap retaining clip, PX0805 with sealing cap retaining clip
- Single hole fixing
- Suitable for Pin or Socket inserts
- Contact inserts supplied separately

32.8 Max. Depending on Pin or Socket Carrier.



3.2 ±0.1



Fixing Details.

Screw Terminal Inserts



- 2, 3, 4 and 6 Poles
- Fits all Body Styles
- Leading Earth Pin on 3, 4 and 6 pole inserts
- Nickel Plated contacts

Screw Terminal Inserts - fits all body styles

No. poles	Sockets	Pins
2	SA3319	SA3320
3	SA3229	SA3230
4	SA3242	SA3241
6	SA3244	SA3243

Contact Carrier Inserts



Inserts shown with contacts fitted

- For Solder or Crimp Contacts
- 3 or 8 Pin
- Fits all Body Styles
- Contacts Supplied Separately

Solder & Crimp Contact Carrier Inserts - fit all body styles.

No. poles	Solder	Colour	Crimp	Colour
8 Pin	12734/1	Black	12734	Grey
8 Socket	12735/1	Black	12735	Grey
3 Pin	12734/3/1	Black	12734/3	Grey
3 Socket	12735/3/1	Black	12735/3	Grey

Contacts, Polarising/Blanking Pins



- Gold Plated contacts
- Solder or Crimp
- Polarising/Blanking pins

Contacts - Solder & Crimp - for contact carrier inserts

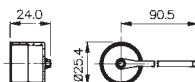
Contacts (Supplied in packs of 10)	Solder	Crimp
Pins	SA3148/1	SA3148
Sockets	SA3149/1	SA3149
Polarising/Blanking Pins	SA3147	
Contact Insertion Tool: Must be used to load contacts into inserts.	SA3150	
Crimping Tool	SA2800	

Sealing Caps



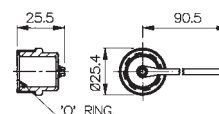
To maintain IP rating

PX0810



PX0810
Fits PX0801, PX0802, PX0803, PX0804 & PX0805. Ensure "O" Ring is in place on main body.

PX0811



PX0811
Fits PX0800. Ensure "O" Ring is in place in cap.



Electrical	Solder/Crimp Terminals	Screw Terminals	BNC
No Poles:	3, 8	2, 3	6
Current Rating:	5A	10A	3A
Voltage Rating:	380V ac	250V ac	250V ac
Contact Resistance:	<5mΩ		
Insulation Resistance:	>10 ⁶ MΩ @ 500V d.c.		
Voltage Proof:	2kV @ 50Hz		
Operating Temp. Range:	-20°C to +70°C		
Approvals:			
E214972			

Materials	Solder/Crimp Terminals	Screw Terminals	BNC
Body Mouldings:	Polyamide UL94V-0	Polyamide UL94V-0	
Inserts:	Polyamide UL94V-0	Polyamide UL94V-0	
Contacts:	Copper Alloy, Gold Plated (0.1µm) on Nickel	Brass, Nickel Plated	Brass, Silver Plated.
O Rings:	Nitrile		
RoHS	Compliant	Compliant	Compliant

Mechanical	Solder/Crimp Terminals	Screw Terminals	BNC
Sealing:	Protection Classification IP68, EN 60529:1992+A2:2013 Tested @ 1.054kg/sq.cm. (15lb/sq.in.) 10m depth for 2 weeks.		
Salt Mist:	EN60068-2-52 Test Kb Salt Mist (Cyclic) Marine Severity Level 1		
Cable Acceptance	5-7.00mm dia - standard gland 3.5-9.00mm dia - alternative glands		
Contact Accommodation:	0.2 - 0.5mm ² (20 - 24 AWG)	1mm ² max (18 AWG)	50Ω: RG58/CU, URM43, URM76 75Ω: URM70
Insertion Force (typical):	3 way: 5N (1.1lbf) 8 way: 14N (3.1lbf)	3 way: 45N (10lbf) 4 way: 50N (11lbf) 6 way: 140N (31lbf)	
Withdrawal Force (typical):	3 way: 3N (0.66lbf) 8 way: 12N (2.6lbf)	3 way: 32N (7lbf) 4 way: 40N (9lbf) 6 way: 150N (34lbf)	
Tightening Torques			
Gland Nut, PX0800, 801:	1.13Nm (10lbf in)		
Rear Nut, PX0802, 803, 804, 805:	0.7Nm min, 1.7Nm max (6.2lbf in min, 15lbf in max)		
Sealing Cap, PX0810, 811:	0.23Nm min, 1.13Nm max (2lbf in min, 10lbf in max)		

How to order		Cable Glands			
	Choose body type, check cable diameter and sealing gland size.	Cable gland for 5-7mm fitted as standard. BNC Insert Kit includes gland & washer to fit coax cable.			
	Determine contact carrier inserts. Choose number of poles, and type of contacts (solder, crimp, screw terminal or BNC).				
	Choose pins or sockets. Solder and crimp contacts are supplied separately in packs of ten.	Cable Diameter	Gland Part No.	Gland Colour	Additional Suffix
	Choose polarising/blanking pins. If required for solder/crimp contact inserts. Supplied in packs of ten.	5-7mm	12023/1	White	Fitted as standard
		3.5-5mm	SA3426	Grey	Suffix /04†
		6-8mm	12023	Black	Suffix /06
		7-9mm	12023/2	Yellow	Suffix /07
	Is an insertion tool required (for solder or crimp contacts)?	Gland Pack	PX0812	Pack of 3 glands to suit cables 3.5-5mm, 6-8mm, 7-9mm dia†	
	Is a crimp tool required?				
	Is a sealing cap required?	To order body with alternative cable gland add suffix to part no. e.g. PX0800/06 = PX0800 body with cable gland to suit 6-8mm dia. cable. †Includes additional black gland cage for 3.5-5mm dia. cable range.			



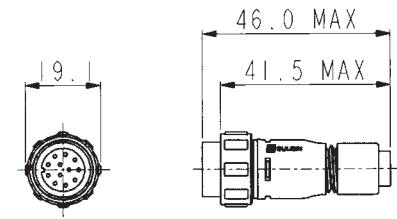
- ⬢ IP68 rating tested at 1.054kg/sq cm (15lb/sq in) 10m depth for 2 weeks
- ⬢ IP69K, Tested in accordance with DIN 40050/Part 9 IP6k9k
- ⬢ 2 and 3 pole - 8A, 250V rating
- ⬢ 4, 6 and 8 pole - 5A, 125V rating
- ⬢ 10 and 12 pole - 1A, 50V rating
- ⬢ 2.5mm contact engagement for electrical integrity 'Scoop proof' contacts
- ⬢ Contact inserts are part of body moulding
- ⬢ Cable range from 3 to 7mm
- ⬢ Overall length (flex + flex in-line) 80mm
- ⬢ Gold plated contacts
- ⬢ Diameter over coupling ring 19.1mm
- ⬢ Pre-wired, overmoulded cable assemblies
- ⬢ Flex, Flex In-Line, Front Panel, Rear Panel and PCB mounting body styles
- ⬢ Plug and Socket versions in all body styles
- ⬢ Flame Retardant moulding material - Polyamide UL94-V0
- ⬢ Contacts supplied separately (except PCB versions)
- ⬢ Sealing caps available to maintain IP68 rating
- ⬢ Secure sealing system
- ⬢ Crimp and solder contacts
- ⬢ PCB mounting connector supplied with contacts pre-loaded
- ⬢ Front and rear panel mounting panel connectors
- ⬢ UL, CSA and VDE approvals
- ⬢ EN60068-2-52 Test Kb Salt Mist (Cyclic) Marine Severity Level 1
- ⬢ Smart options available with EEPROM memory chip

Flex Cable Connector



PX0410

- Mates with Flex In-line or Panel mounting versions PX0401, PX0411, PX0412 & PX0413
- Pin or socket
- 2, 3, 4, 6, 8, 10 or 12 pole
- Screw locking ring
- Contacts supplied separately

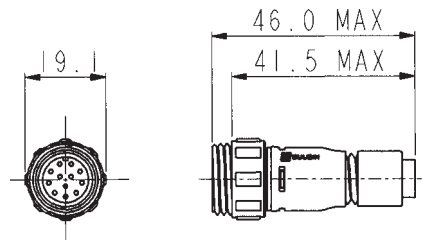


Inline Flex Cable Connector



PX0411

- Mates with Flex Cable connectors PX0400, PX0402 & PX0410
- Pin or socket
- 2, 3, 4, 6, 8, 10 or 12 pole
- For in-line cable connection
- Contacts supplied separately

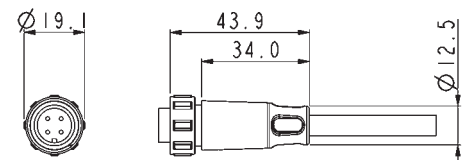


Pre Wired Flex Cable Connector



PX0400

- Overmoulded Flex connector for pre-wired cable assemblies
- Pin or socket
- Cable range 2.5 -9.0mm o/d
- 2, 3, 4, 6, 8, 10 or 12 pole
- Mates with PX0401 & PX0411 Flex In-Line connectors and PX0412 & PX0413 panel mounting connectors

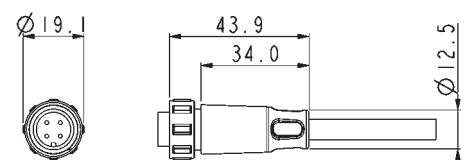


Smart Connector



PXS4 XX

- Overmoulded pre-wired sealed connector
- 4, 6, 8, 10, 12 pole
- Embedded memory chip through 1 wire EEPROM
- Mates with PX0401 & PX0411 Flex In-Line connectors and PX0412 & PX0413 panel mounting connectors

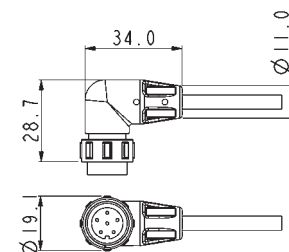


Pre Wired Flex Cable Connector



PX0402

- Right-angled overmoulded Flex connector for pre-wired cable assemblies
- Pin or socket
- Cable range 2.5 -9.0mm o/d
- 2, 3, 4, 6, 8, 10 or 12 pole
- Mates with PX0401 & PX0411 Flex In-Line connectors and PX0412 & PX0413 panel mounting connectors

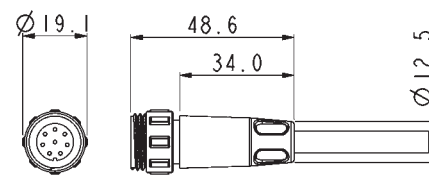


Pre Wired Inline Flex Connector



PX0401

- Overmoulded Flex connector for pre-wired cable assemblies
- Pin or socket
- Cable range 2.5 -9.0mm o/d
- 2, 3, 4, 6, 8, 10 or 12 pole
- Mates with PX0400, PX0402 & PX0410 Flex connectors

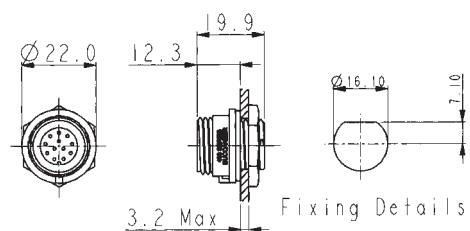


Front Panel Mounting Connector



PX0412

- Mates with Flex Cable connectors PX0410, PX0400 & PX0402
- Front Panel mounting
- Single hole fixing
- Contacts supplied separately
- 2, 3, 4, 6, 8, 10 or 12 pole

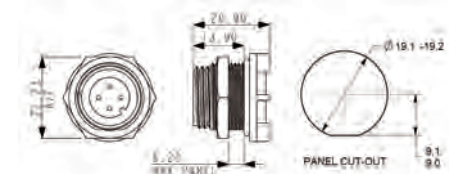


Rear Panel Mounting Connector



PX0413

- Mates with Flex Cable connector PX0410, PX0400 & PX0402
- Rear Panel mounting
- Single hole fixing
- Contacts supplied separately
- 2, 3, 4, 6, 8, 10 or 12 pole

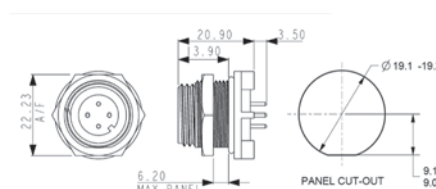


PCB Mounting Connector



PX0413

- Mates with Flex Cable connector PX0410, PX0400 & PX0402
- PCB Rear Panel mounting
- Straight PC spills
- Supplied with pre-loaded gold plated contacts
- 2, 3, 4, 6, 8, 10 or 12 pole



Sealing Caps and Accessories



PX0480 PX0480/1 PX0481 PX0484

- Maintains IP68 Rating of Unmated Connectors
- PX0480: Fits PX0412 (panel mounting)
- PX0480/1: Fits PX0401 & PX0411 (flex in-line)
- PX0481: Fits PX0400, PX0402 & PX0410 (flex connector)
- PX0484: Fits PX0413 (PCB and rear panel mount)

Gland Packs

Part No	Description
PX0482	Pack of 4 pairs cable glands and collets to suit cables from 3.0 to 5.0mm diameter.
PX0483	Pack of 4 pairs cable glands and collets to suit cables from 5.0 to 7.0mm diameter.

Crimp Contacts

Pole	Current Rating	Pin	Socket	Pack Qty	Cable Acceptance (dia)
2, 3	8A	SA3350	SA3349	10	20 - 24 AWG
4, 6, 8	5A	SA3348	SA3347	10	22 - 26 AWG
10, 12	1A	SA3180	SA3179	10	24 - 28 AWG

Solder Contacts

Pole	Current Rating	Pin	Socket	Pack Qty	Cable Acceptance (dia)
2, 3	8A	SA3350/1	SA3349/1	10	20 - 24 AWG
4, 6, 8	5A	SA3348/1	SA3347/1	10	22 - 26 AWG
10, 12	1A	SA3180/1	SA3179/1	10	24 - 28 AWG

Insertion / Extraction

	Poles	Contact Rating	Colour	Part No
Insertion/Extraction Tool	2,3	8A	Blue	13027/2
Insertion/Extraction Tool	4,6,8	5A	Red	13027/1
Insertion/Extraction Tool	10,12	1A	Green	13027

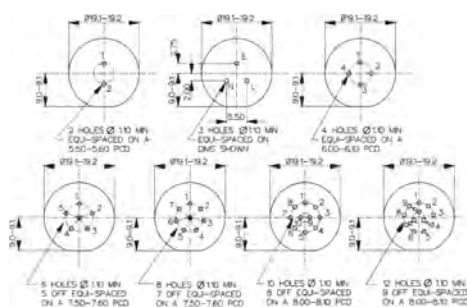
Crimp tools

	Poles	Contact Rating	Colour	Part No
Positioner	2,3	8A	Blue	14025/8AMP
Positioner	4,6,8	5A	Red	14025/5AMP
Positioner	10,12	1A	Green	14025/1AMP
8 Indent Crimp Tool for use with positioners				14025

PX0413 PCB Contact Layout

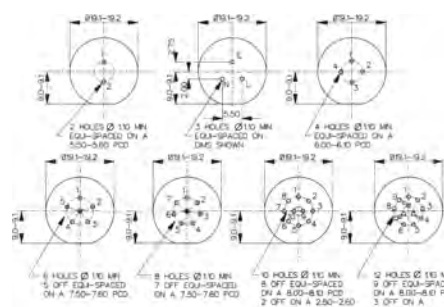
Sockets

Contact numbers viewed from rear of panel



Plugs

Contact numbers viewed from rear of panel



2 pole
(8 Amp)



3 pole
(8 Amp)



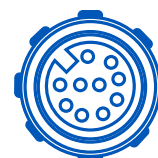
4 pole
(5 Amp)



6 pole
(5 Amp)



8 pole
(5 Amp)



10 pole
(1 Amp)



12 pole
(1 Amp)

Electrical:

No. Poles:	2, 3	4, 6, 8	10, 12
Current Rating:	8A	5A	1A
Voltage Rating (ac/dc):	250Vac/dc	125Vac/dc	50Vacdc
Contact Resistance:	<5mΩ		
Insulation Resistance:	>10 ⁶ MΩ (@ 500V d.c.)		
AC Breakdown voltage:	2.5kV		

Operating Temperature:	
Flex and panel types	-40°C to +80°C
Overmoulded	-20°C to +60°C

Approvals:

 UL	E214972
 CSA	1273303
 VDE	40002226

Overmoulded cable assemblies approvals to customer requirements.

Material:

Flex and panel types:	
Body Mouldings:	Polyamide
Flammability Rating:	UL94V-0
UV Resistance:	To EN 50021:1999

Overmoulded types:	
Body Mouldings:	Polyurethane
Flammability Rating:	UL94V-HB

Contacts:	Copper alloy, Gold plated
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O Rings:	Nitrile
----------	---------

Panel Sealing O Ring:	Nitrile
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RoHS	Compliant
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Mechanical:

Sealing:	IP69K, Tested in accordance with DIN 40050/Part 9 IP6k9k
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	IP68, EN60529:1992+A2:2013 tested @ 1.054kg/sq cm (15lb/sq in) 10m depth for 2 weeks
--	--

Salt Mist:	EN60068-2-52 Test Kb Salt Mist (Cyclic) Marine Severity Level 1
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Cable Acceptance:	3.0 - 7.0mm
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Contact Accommodation:	2, 3 pole, 20 - 24 AWG 4, 6, 8 pole, 22 - 26 AWG 10, 12 pole, 24 - 28 AWG
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Termination:	Crimp, solder and PCB
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Insertion/Withdrawal Force:	
No. poles:	2 3 4 6 8 10 12
Insertion Force (typ):	19N 25N 27N 27N 28N 55N 62N
Withdrawal Force (typ):	12N 17N 17N 21N 22N 25N 29N

Tightening Torques:	
Panel mount (PX0412)	
Rear fixing nut:	1.0-1.1Nm (9lbf.in.)
Panel mount (PX0413)	
Front fixing nut:	1.0-1.1Nm (9lbf.in.)

Cable Retention force:	
3.0mm dia	60N
4.0 to 7.0mm dia	80N

Rear panel thread PX0412:	M16x1.5
---------------------------	---------

Panel thread PX0413:	18.97x26TPI Whitworth form to BS84 med fit
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Dimensions:

Overall dimensions of connectors when mated together

Flex + Flex In-Line	80mm
Dia. over coupling ring	19.1mm

Dia. over coupling ring

Smart Connector EEPROM:

1024 - Bit Memory
 1 - Wire
 Can be Write Protected
 Manufacturer - Maxim Intergrated
 Part Number - 0S2431

Standard:

PX04 xx	/	XX	/	X	/	XXXX
Body Styles PX0410 = Flex body PX0411 = Flex in-line body PX0412 = Front panel mounting body PX0413 = Rear panel/PCB mounting body		Number Contacts 02 = 2 pole, 03 = 3 pole, 04 = 4 pole, 06 = 6 pole, 08 = 8 pole, 10 = 10 pole, 12 = 12 pole		Contact Type P = Pin, S = Socket		For PX0410 and PX0411 cable connectors - Cable Entry Size: 3035 = 3.0 - 3.5mm (Light Grey) 3540 = 3.5 - 4.0mm (Grey) 4045 = 4.0 - 4.5mm (Green) 4550 = 4.5 - 5.0mm (Red) 5055 = 5.0 - 5.5mm (Yellow) 5560 = 5.5 - 6.0mm (Blue) 6065 = 6.0 - 6.5mm (White) 6570 = 6.5 - 7.0mm (Black) Cable gland and collet supplied in colour coded pairs. For PX0413 PCB/Rear Panel Mount: PC = Pre-loaded PC pins Blank = no pins supplied For PX0412 Front Panel Mount: Suffix not required - leave blank

Examples:

PX0410/10S/4045 = Flex cable connector, 10 socket contacts with gland and collet for cables between 4.0 and 4.5mm diameter (supplied less contacts).
PX0412/08P = Front panel mounting connector, 8 pin contacts (supplied less contacts).
PX0413/06P = Rear panel mounting connector, for 6 pin contacts (supplied less contacts).
PX0413/04P/PC = Rear panel/PCB connector, 4 pin contacts, PCB mounting (supplied with contacts loaded).

Smart:

PXS4xx	/	XX	/	XX	/	X
Body Styles PXS410 = Flex body		Cable length 02 = 2m 03 = 3m 05 = 5m 10 = 10m		Number of Contacts 04 = 4 poles 06 = 6 pole 08 = 8 pole 10 = 10 pole 12 = 12 pole		Contact Type P = Pin S = Socket

Examples:

PXS410/02/04/P = Smart flex cable connector, 2M cable to free end, 4 pin contact



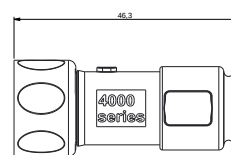
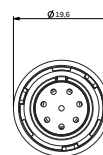
- Sealed to IP66 IP68 and IP69K when mated
- IP68 rating tested at 1.054kg/sq cm (15lb/sq in) 10m depth for 2 weeks
- 2, 3, 4, 6, 8, 10 & 12 pole configuration
- Power ratings up to 13A, 600V
- Cable range from 3 to 7mm
- Diameter over coupling ring 19.7mm
- Flex, Flex In-Line, Rear Panel and PCB mounting body styles
- Colour coded O-rings & washers for easy identification purposes
- Plug and Socket versions in all body styles
- Flame Retardant moulding material - Polyamide UL94-V0
- Contacts supplied separately (except PCB versions)
- Sealing caps available to maintain IP68 rating
- Crimp and solder contacts
- UL, CSA and VDE approvals
- EN60068-2-52 Test Kb Salt Mist (Cyclic) Marine Severity Level 1
- EN60068-2-64 Vibration Resistance

Flex Cable Connector



PXP4010

- ⬡ Mates with Flex In-line or Panel mounting versions PXP4011, PXP4013
- ⬡ Pin or socket
- ⬡ 2, 3, 4, 6, 8, 10 & 12 pole
- ⬡ ¼ turn locking ring
- ⬡ Contacts supplied separately

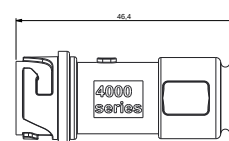


Inline Flex Cable Connector



PXP4011

- ⬡ Mates with Flex Cable connector PXP4010
- ⬡ Pin or socket
- ⬡ 2, 3, 4, 6, 8, 10 & 12 pole
- ⬡ For in-line cable connection
- ⬡ Contacts supplied separately

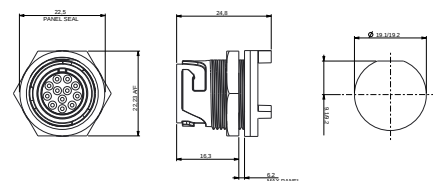


Rear Panel Mounting Connector



PXP4013

- Mates with Flex Cable connector PXP4010, PXP4011
- Rear Panel mounting
- Pin or socket
- Single hole fixing
- Contacts supplied separately
- 2, 3, 4, 6, 8, 10 & 12 pole

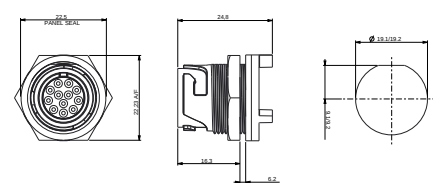


PCB Mounting Connector



PXP4013/XXX/PC

- Mates with Flex Cable connector PXP4010, PXP4011
- Pin or socket
- PCB Rear Panel mounting
- Straight PC spills
- Supplied with pre-loaded gold plated contacts
- 2, 3, 4, 6, 8, 10 & 12 pole



Sealing Caps and Accessories



PXP4081 PXP4082 PXP4083

- Maintains IP-sealed rating of unmated connectors

Part no.	Description
PXP4081	Sealing cap for use with PXP4010 & PXP4040
PXP4082	Sealing cap for use with PXP4011
PXP4083	Sealing cap for use with PXP4013 & PXP4043

Gland Packs



Part no. Description

PXP4088/0305	Pack of 4 pairs cable glands and collets to suit cables from 3.0 to 5.0mm diameter.
PXP4088/0507	Pack of 4 pairs cable glands and collets to suit cables from 5.0 to 7.0mm diameter.

O-ring & washer pack



Part no. Description

PXP4089/WH	White coloured O-ring and washer pack
PXP4089/RD	Red coloured O-ring and washer pack
PXP4089/BL	Blue coloured O-ring and washer pack
PXP4089/YL	Yellow coloured O-ring and washer pack
PXP4089/GN	Green coloured O-ring and washer pack

Crimp Contacts

Pole	Current Rating	Pin	Socket	Pack Qty	Cable Acceptance (dia)
2, 3	13A /*10A	SA3350	SA3349	10	16 - 18 AWG
4, 6, 8	8A /*5A	SA3348	SA3347	10	18 - 20 AWG
10, 12	3A /*3A	SA3180	SA3179	10	22 - 24 AWG

Solder Contacts

Pole	Current Rating	Pin	Socket	Pack Qty	Cable Acceptance (dia)
2,3	13A /*10A	SA3350/1	SA3349/1	10	16 - 18 AWG
4, 6, 8	8A /*5A	SA3348/1	SA3347/1	10	18 - 20 AWG
10, 12	3A /*3A	SA3180/1	SA3179/1	10	22 - 24 AWG

Insertion / Extraction

	Poles	Contact Rating	Colour	Part No
Insertion/Extraction Tool	2, 3	13A /*10A	Blue	13027/2
Insertion/Extraction Tool	4, 6, 8	8A /*5A	Red	13027/1
Insertion/Extraction Tool	10, 12	3A /*3A	Green	13027

Crimp tools

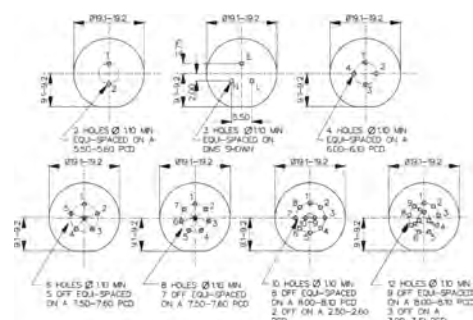
	Poles	Contact Rating	Colour	Part No
Positioner	2, 3	13A /*10A	Orange	14025/1618
Positioner	4, 6, 8	8A /*5A	Grey	14025/1820
Positioner	10, 12	3A /*3A	Yellow	14025/2224
8 Indent Crimp Tool for use with positioners				14025

*Current rating for CSA standards

PXP4013 PCB Contact Layout

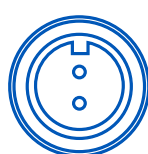
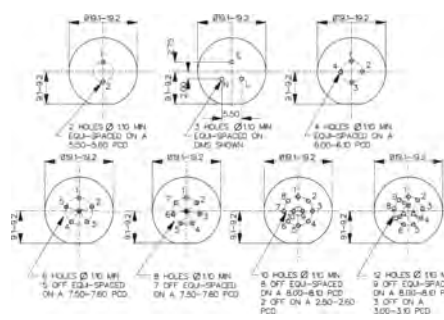
Sockets

Contact numbers viewed from rear of panel



Plugs

Contact numbers viewed from rear of panel



2 pole
(13 Amp)



3 pole
(13 Amp)



4 pole
(8 Amp)



6 pole
(8 Amp)



8 pole
(8 Amp)



10 pole
(3 Amp)



12 pole
(3 Amp)

Electrical:

No. Poles:	2 & 3	4, 6 & 8	10 & 12
Current Rating UL / VDE:	13A	8A	3A
Current Rating CSA:	10A	5A	3A
Voltage Rating (ac/dc):	600Vac/dc	600Vac/dc	600Vac/dc
Contact Resistance:	<5mΩ		
Insulation Resistance:	>10 ⁶ MΩ (@ 500V d.c.)		
AC Breakdown voltage:	2.5kV		

Operating Temperature:
 Flex and panel types -40°C to +120°C

Approvals:

 UL
 CSA
 VDE

Material:

Flex and panel types:
 Body Mouldings: Polyamide
 Flammability Rating: UL94V-0
 UV Resistance: To EN 50021:1999

Contacts: Copper alloy, Gold plated

O Rings: Silicone

Panel Sealing O Ring: Silicone

 Compliant

Mechanical:

Sealing: IP66 to En60529:1992+A2:2013
 IP68 to En60529:1992+A2:2013 (10m depth for 2 weeks)
 IP69k to DIN 40050-9

IP69K, Tested in accordance with DIN 40050/Part 9 IP6k9k

Salt Mist: EN60068-2-52 Test Kb Salt Mist (Cyclic) Marine Severity Level 1

Vibration: BS EN 60068-2-64:2008 Test Fh
 BS EN 60068-2-27:2009 Test Ea

Cable Acceptance: 3.0 - 7.0mm

Contact Accommodation: 2 & 3 pole, 16 - 18 AWG
 4, 6 & 8 pole, **18*** - 20 AWG
 10 & 12 pole, 22 - 24 AWG

***Solid Core Wire Only**

Termination: Crimp, solder and PCB

Insertion/Withdrawal Force:

No. poles:	2 & 3	4, 6, 8	10 & 12
Insertion Force (typ):	25N	28N	62N
Withdrawal Force (typ):	17N	22N	29N

Panel mount (PXP4013)
 Front fixing nut: 1.0-1.1Nm (9lbf.in.)

Cable Retention force: 60N
 3.0mm dia
 4.0 to 7.0mm dia 80N

Panel thread PXP4013: 18.97x26TPI Whitworth form to BS84 med fit

Dimensions:

Overall dimensions of connectors when mated together

Flex + Flex In-Line 80mm
 Dia. over coupling ring 19.7mm

PXP40 xx	/	XX	/	X	/	XXXX
Body Styles PXP4010 = Flex body PXP4011 = Flex in-line body PXP4013 = Rear panel/PCB mounting body		Number Contacts 02 = 2 pole 03 = 3 pole 04 = 4 pole 06 = 6 pole 08 = 8 pole 10 = 10 pole 12 = 12 pole		Contact Type P = Pin, S = Socket		For PXP4010 and PXP4011 cable connectors - Cable Entry Size: 3035 = 3.0 - 3.5mm (Light Grey) 3540 = 3.5 - 4.0mm (Grey) 4045 = 4.0 - 4.5mm (Green) 4550 = 4.5 - 5.0mm (Red) 5055 = 5.0 - 5.5mm (Yellow) 5560 = 5.5 - 6.0mm (Blue) 6065 = 6.0 - 6.5mm (White) 6570 = 6.5 - 7.0mm (Black) Cable gland and collet supplied in colour coded pairs. For PXP4013 PCB/Rear Panel Mount: PC = Pre-loaded PC pins Blank = no pins supplied

Examples:

PXP4010/03S/4045 = Flex cable connector, 3 socket contacts with gland and collet for cables between 4.0 and 4.5mm diameter (supplied less contacts).
PXP4013/08P = Rear panel mounting connector, for 8 pin contacts (supplied less contacts).
PXP4013/03P/PC = Rear panel/PCB connector, 3 pin contacts, PCB mounting (supplied with contacts loaded).

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; UL94-V0 rated, UV stable, halogen free
Light-weight, self-extinguishing material suitable for long-term 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 22 poles – 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
- Screw, Crimp and Solder terminations available

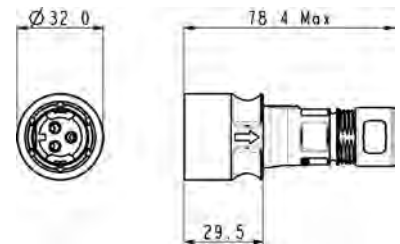


Flex Cable Connector



PXP6010

- Mates with In-Line Flex or Panel Mounting versions PXP6011 & PXP6012
- Push/pull locking ring with 30° twist locking
- Pin or socket versions
- Leading earth on 3 pole connectors
- 2, 3, 8, 16 & 22 pole
- Screw, solder and crimp termination



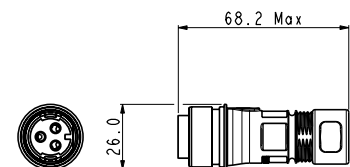
Poles	Termination	Pin Contacts	Socket Contacts	Contacts
2	Screw	PXP6010/02P/ST	PXP6010/02S/ST	Supplied Fitted
2	Crimp / Solder	PXP6010/02P/CR	PXP6010/02S/CR	Contacts Required
3	Screw	PXP6010/03P/ST	PXP6010/03S/ST	Supplied Fitted
3	Crimp / Solder	PXP6010/03P/CR	PXP6010/03S/CR	Contacts Required
8	Crimp / 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

In-line Flex Cable Connector



PXP6011

- Mates with Flex Cable connector PXP6010
- For in-line cable connection
- Pin or socket versions
- Leading earth on 3 pole connectors
- 2, 3, 8, 16 and 22 pole
- Screw, solder and crimp termination



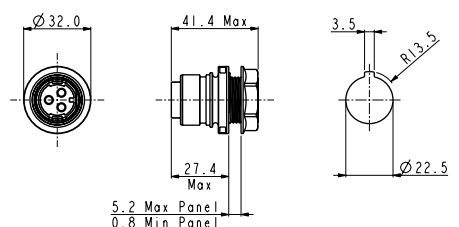
Poles	Termination	Pin Contacts	Socket Contacts	Contacts
2	Screw	PXP6011/02P/ST	PXP6011/02S/ST	Supplied Fitted
2	Crimp / Solder	PXP6011/02P/CR	PXP6011/02S/CR	Contacts Required
3	Screw	PXP6011/03P/ST	PXP6011/03S/ST	Supplied Fitted
3	Crimp / Solder	PXP6011/03P/CR	PXP6011/03S/CR	Contacts Required
8	Crimp / 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



PXP6012

- Mates with Flex Cable connectors PXP6010
- Front panel mounting
- Single hole fixing
- Pin or socket versions
- Leading earth on 3 pole connectors
- 2, 3, 8, 16 and 22 pole
- Screw, solder and crimp termination



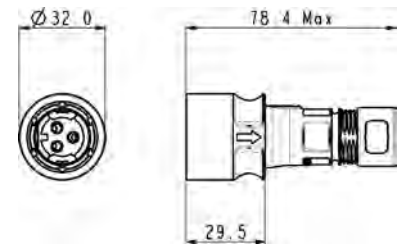
Poles	Termination	Pin Contacts	Socket Contacts	Contacts
2	Screw	PXP6012/02P/ST	PXP6012/02S/ST	Supplied Fitted
2	Crimp / Solder	PXP6012/02P/CR	PXP6012/02S/CR	Contacts Required
3	Screw	PXP6012/03P/ST	PXP6012/03S/ST	Supplied Fitted
3	Crimp / Solder	PXP6012/03P/CR	PXP6012/03S/CR	Contacts Required
8	Crimp / 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 Connector



PXM6010

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



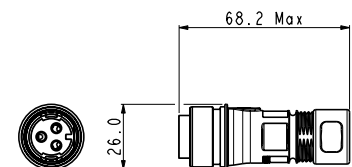
Poles	Termination	Pin Contacts	Socket Contacts	Contacts
2	Screw	PXM6010/02P/ST	PXM6010/02S/ST	Supplied Fitted
2	Crimp / Solder	PXM6010/02P/CR	PXM6010/02S/CR	Contacts Required
3	Screw	PXM6010/03P/ST	PXM6010/03S/ST	Supplied Fitted
3	Crimp / Solder	PXM6010/03P/CR	PXM6010/03S/CR	Contacts Required
8	Crimp / 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

In-line Flex Cable Connector



PXM6011

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



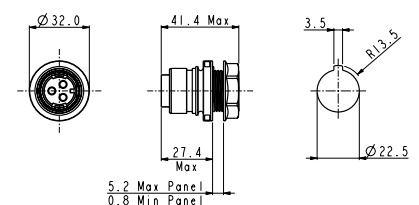
Poles	Termination	Pin Contacts	Socket Contacts	Contacts
2	Screw	PXM6011/02P/ST	PXM6011/02S/ST	Supplied Fitted
2	Crimp / Solder	PXM6011/02P/CR	PXM6011/02S/CR	Contacts Required
3	Screw	PXM6011/03P/ST	PXM6011/03S/ST	Supplied Fitted
3	Crimp / Solder	PXM6011/03P/CR	PXM6011/03S/CR	Contacts Required
8	Crimp / 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



PXM6012

- Mates with Flex Cable connectors PXM6010
- Front panel mounting
- Single hole fixing
- Pin or socket versions
- Leading earth on 3 pole connectors
- 2, 3, 8, 16 and 22 pole
- Screw, solder and crimp termination



Poles	Termination	Pin 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
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

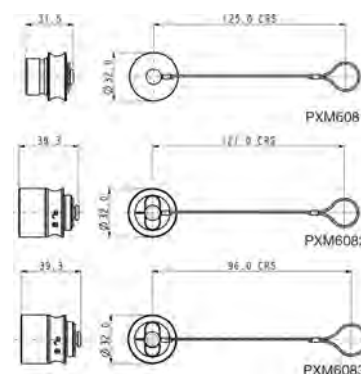
Crimp / Solder Contacts  2, 3, 8, 16 & 22 pole contacts	Gold Plated Current ratings: 2 & 3 pole : 16A 8 pole : 10A 16 pole : 3A 22 pole : 2A	Contacts (for 2 & 3 pole) (Supplied in packs of 10) Pins Sockets Crimp Solder SA3545/P SA3545/S SA3624/P SA3624/S Contacts (for 8 pole) (Supplied in packs of 10) Pins Sockets Crimp Solder SA3544/P SA3544/S SA3623/P SA3623/S Contacts (for 16 & 22 pole) (Supplied in packs of 10) Pins Sockets Crimp Solder SA3542/P SA3542/S SA3622/P SA3622/S
Crimp Tooling  PNo 14232	Crimp Tools for 2, 3, 8, 16 and 22 pole crimp contacts	Crimp Tooling Crimp Tool (2 & 3 pole) Positioner (2 & 3 pole) Crimp Tool (8, 16 & 22 pole) Positioner (8 pole) Positioner (16 & 22 pole) PNo.14232 PNo.14232/2/SP PNo.14025 PNo.15021/SP PNo.15019/SP
Extraction Tool 	Extraction Tool for 2, 3, 8, 16 and 22 pole contacts	Extraction Tools Extraction Tool (2 & 3 pole) Extraction Tool (8 pole) Extraction Tool (16 & 22 pole) PNo.14946/SP PNo.14945/SP PNo.14944/SP
Contact Carrier Removal Tool  PNo 14917	For removal of all contact carriers	Tools Contact carrier removal tool PNo. 14917/SP

Sealing Caps



PXM6083 PXM6082 PXM6081

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

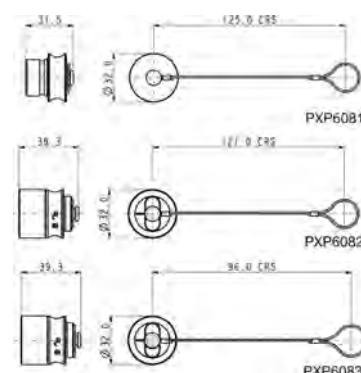


Plastic Sealing Caps



PXP6083 PXP6082 PXP6081

- Maintains IP Rating of Unmated Connectors
- PXP6081: Fits PXP6010 (Flex Connector)
- PXP6082: Fits PXP6011 (Flex In-Line Connector)
- PXP6083: Fits PXP6012 (Panel Connector)



Cable Gland Pack



PXP6088

- Pack of all cable glands to suit cable ranges from 4.0 to 10.0mm diameter

Cable Braid Termination Option



PXM6090

- For cable braid termination
- Supplied with ty-rap

PXX 6XXX / XX X / XX / XXXX / XX						
Series Designation	Series / Body Style	No. of Contacts	Contacts Type	Terminations	Cable Entry Size	Cable Brand Termination Accessory
PXM= Metal Series PXP= Plastic Series	Body Styles 6010 = Flex 6011 = Flex In-Line 6012 = Panel	No. of Contacts 02 = 2 Pole 03 = 3 Pole 08 = 8 Pole 16 = 16 Pole 22 = 22 Pole	Contacts Type P = Pin S = Socket	Contacts Termination CR = Contacts Required ST = Screw (2 and 3 pole only)	Cable Entry Size (for Flex and Flex In-Line 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 Flex and Flex In-Line connectors only) SN if required Blank if not required

Examples

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

Electrical:

No. Poles:	2	3	8	16	22
Current Rating: See de-rating curves for further information					
VDE	16A	16A	10A	3A	2A
UL	16A	16A	7A	3A	3A
cUL	11A	11A	4A	1.5A	1.5A
Voltage	277V	277V	277V	60V	60V
Rated cable	14 AWG	14 AWG	16-20 AWG	22 AWG	26 AWG
Contact Resistance:	<10mΩ				
Insulation Resistance:	>10 ⁹ MΩ @500V dc				
AC Breakdown voltage:					
2 pole	>10kV				
3 pole	>8kV				
8 to 22 pole	>5kV				
Operating Temp. Range:	-40°C to +120°C				
Approvals:					
 UL (E214972)	UL1977				
 cULus (E214972)	C22.2 No.182.3-M1987 (R2009)				
 VDE (40039281)	IEC 61984:2009				

Mechanical:

Locking mechanism	Push/pull with 30° locking Patent applied for
Sealing:	IP66 to En60529:1992+A2:2013 IP68 to En60529:1992+A2:2013 (10m depth for 2 weeks) IP69k to DIN 40050-9
Salt Mist (plastic) :	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 pole crimp / solder	14 to 18AWG
2 & 3 pole screw terminals	1.5mm ² max
8 pole crimp / solder	18 to 20AWG
16 pole crimp / solder	22 to 26AWG
22 pole crimp / solder	22 to 26AWG
Cable Acceptance:	4-10mm dia.
Cable retention force (to BS EN61984):	
4 - 9mm dia cable	80N
9 - 10mm dia cable	100N
Terminations:	
2 Pole:	Screw Terminals
3 Pole:	Screw, crimp or solder terminals
8 Pole:	Crimp / Solder Contacts
16 Pole:	Crimp / Solder Contacts
22 Pole:	Crimp / Solder Contacts
Tightening Torques:	
Gland Nut:	1.13Nm (10lb.in)
Panel Nut:	1.7Nm (15lb.in.)
Panel Nut Thread:	M22 x 1.5-6g
Dimensions:	
Diameter: (over coupling ring)	32mm
Diameter: (panel hole cut-out)	22.5mm

Materials:

Plastic

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

Metal

Body:	Brass
Colour:	Matt silver
Contacts:	Brass, Nickel Plate (Screw and Crimp) Brass, (3A – Gold plated)
O Rings & Gaskets:	Silicone
Flammability Rating:	-
Halogen free	-
UV Resistance:	-
	Compliant

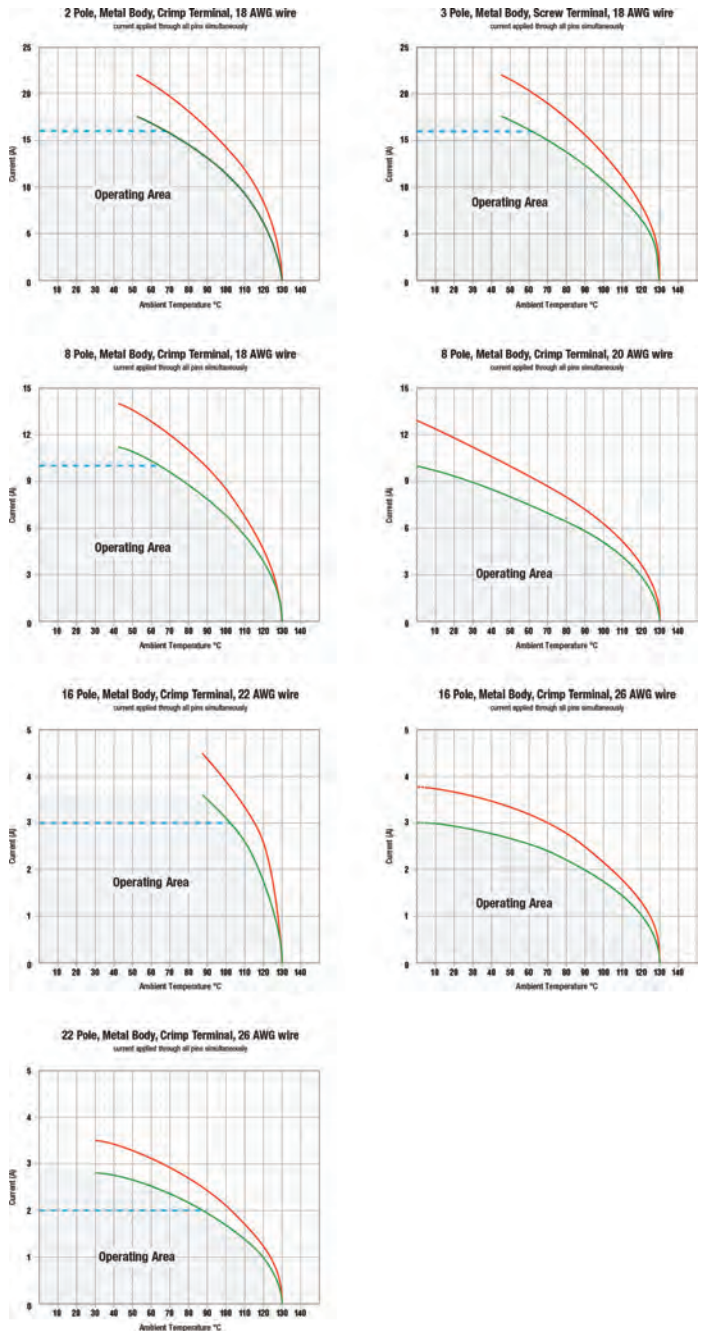
The thermal properties of the materials used in the construction of a connector limit the current carrying capacity. There are a number of factors that determine the amount of current that can be handled: contact spacing, size of cable, ambient temperature and the heat that is generated by the current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



The all plastic and metal construction of the 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.

- **Less than 1/4 Turn locking mechanism**
Secure, quick connector mating and release
- **Positive feedback on locking mechanism**
Confidence that connector is correctly mated and sealed
- **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, 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,**
approvals Internationally recognised certification (pending)
- **Screw, Crimp and Solder terminations available**
- **EN60068-2-52 Test Kb Salt Mist (Cyclic)**
Marine Severity Level 1

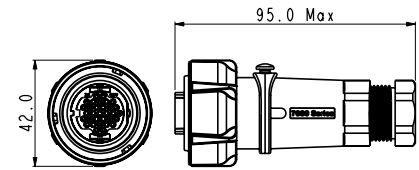


Flex Cable Connector



PXP7010

- ⬢ Mates with In-Line Flex or Panel Mounting versions PXP7011 & PXP7012
- ⬢ Quick turn locking ring
- ⬢ Pin or socket versions
- ⬢ Leading earth on 3 pole connectors
- ⬢ 2, 3, 6, 10 & 32 pole
- ⬢ Screw solder and crimp termination



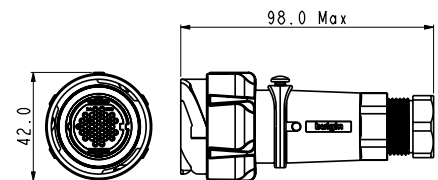
Poles	Termination	Pin Contacts	Socket Contacts	Contacts
2	Screw	PXP7010/02P/ST	PXP7010/02S/ST	Supplied Fitted
3	Screw	PXP7010/03P/ST	PXP7010/03S/ST	Supplied Fitted
6	Screw	PXP7010/06P/ST	PXP7010/06S/ST	Supplied Fitted
10	Crimp / Solder	PXP7010/10P/CR	PXP7010/10S/CR	Contact Required
32	Crimp / Solder	PXP7010/32P/CR	PXP7010/32S/CR	Contact Required

In-line Flex Cable Connector



PXP7011

- ⬢ Mates with Flex Cable connector PXP7010
- ⬢ For in-line cable connection
- ⬢ Pin or socket versions
- ⬢ Leading earth on 3 pole connectors
- ⬢ 2, 3, 6, 10 and 32 pole
- ⬢ Screw solder and crimp termination



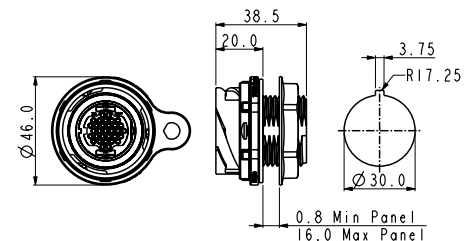
Poles	Termination	Pin Contacts	Socket Contacts	Contacts
2	Screw	PXP7011/02P/ST	PXP7011/02S/ST	Supplied Fitted
3	Screw	PXP7011/03P/ST	PXP7011/03S/ST	Supplied Fitted
6	Screw	PXP7011/06P/ST	PXP7011/06S/ST	Supplied Fitted
10	Crimp / Solder	PXP7011/10P/CR	PXP7011/10S/CR	Contact Required
32	Crimp / Solder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

Front Panel Mounting Connector



PXP7012

- ⬢ 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 solder and crimp termination



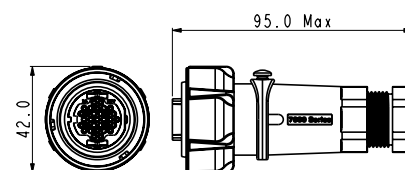
Poles	Termination	Pin Contacts	Socket Contacts	Contacts
2	Screw	PXP7012/02P/ST	PXP7012/02S/ST	Supplied Fitted
3	Screw	PXP7012/03P/ST	PXP7012/03S/ST	Supplied Fitted
6	Screw	PXP7012/06P/ST	PXP7012/06S/ST	Supplied Fitted
10	Crimp / Solder	PXP7012/10P/CR	PXP7012/10S/CR	Contact Required
32	Crimp / Solder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

Flex Cable Connector



PXM7010

- Mates with In-Line Flex or Panel Mounting versions PXM7011 & PXM7012
- Quick turn locking ring
- Pin or socket versions
- Leading earth on 3 pole connectors
- 2, 3, 6, 10 & 32 pole
- Screw solder and crimp termination
- Cable braid termination accessory option, add /SNSuffix



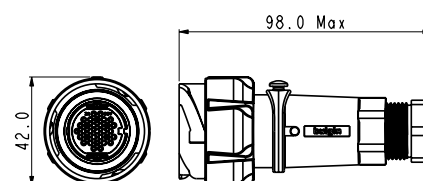
Poles	Termination	Pin Contacts	Socket Contacts	Contacts
2	Screw	PXM7010/02P/ST	PXM7010/02S/ST	Supplied Fitted
3	Screw	PXM7010/03P/ST	PXM7010/03S/ST	Supplied Fitted
6	Screw	PXM7010/06P/ST	PXM7010/06S/ST	Supplied Fitted
10	Crimp / Solder	PXM7010/10P/CR	PXM7010/10S/CR	Contact Required
32	Crimp / Solder	PXM7010/32P/CR	PXM7010/32S/CR	Contact Required

In-line Flex Cable Connector



PXM7011

- Mates with Flex Cable connector PXM7010
- For in-line cable connection
- Pin or socket versions
- Leading earth on 3 pole connectors
- 2, 3, 6, 10 and 32 pole
- Screw solder and crimp termination
- Cable braid termination accessory option, add /SNSuffix



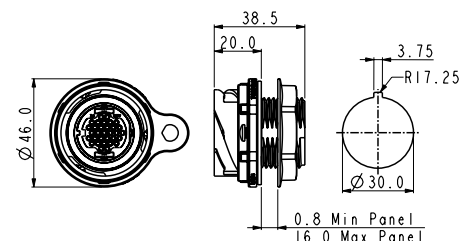
Poles	Termination	Pin Contacts	Socket Contacts	Contacts
2	Screw	PXM7011/02P/ST	PXM7011/02S/ST	Supplied Fitted
3	Screw	PXM7011/03P/ST	PXM7011/03S/ST	Supplied Fitted
6	Screw	PXM7011/06P/ST	PXM7011/06S/ST	Supplied Fitted
10	Crimp / Solder	PXM7011/10P/CR	PXM7011/10S/CR	Contact Required
32	Crimp / Solder	PXM7011/32P/CR	PXM7011/32S/CR	Contact Required

Front Panel Mounting Connector



PXM7012

- Mates with Flex Cable connectors PXM7010
- Front panel mounting
- Single hole fixing
- Pin or socket versions
- Leading earth on 3 pole connectors
- 2, 3, 6, 10 and 32 pole
- Screw solder and crimp termination



Poles	Termination	Pin Contacts	Socket Contacts	Contacts
2	Screw	PXM7012/02P/ST	PXM7012/02S/ST	Supplied Fitted
3	Screw	PXM7012/03P/ST	PXM7012/03S/ST	Supplied Fitted
6	Screw	PXM7012/06P/ST	PXM7012/06S/ST	Supplied Fitted
10	Crimp / Solder	PXM7012/10P/CR	PXM7012/10S/CR	Contact Required
32	Crimp / Solder	PXM7012/32P/CR	PXM7012/32S/CR	Contact Required

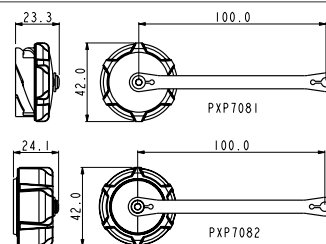
Crimp / Solder Contacts  10 & 32 pole contacts	Gold Plated Current ratings: 10 pole: 10A 32 pole: 2A	Contacts (for 10 pole) (Supplied in packs of 10) Pins Sockets Crimp SA3544/P SA3544/S Solder SA3623/P SA3623/S
Crimp Tooling  PNo 14025	Crimp Tools for 10 and 32 pole crimp contacts	Crimp Tooling Crimp Tool (10 & 32 pole) Positioner (10 pole) Positioner (32 pole) PNo. 14025 PNo. 15021/SP PNo. 15019/SP
Extraction Tools  PNo 14944/SP PNo 14945/SP	Extraction tool for 10 and 32 pole contacts	Extraction Tools Extraction tool (10 pole) Extraction tool (32 pole) PNo. 14945/SP PNo. 14944/SP
Contact Carrier Removal Tool  PNo 15065/SP	For removal of all contact carriers	Contact Carrier Removal Tool Contact carrier removal tool (all poles) PNo. 15065/SP
Cable Braid Termination Option  PXM7090	For cable braid termination Supplied with ty-rap	

Sealing Caps



PXP7082 PXP7081

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

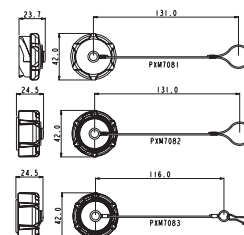


Sealing Caps



PXM7082 PXM7081 PXM7083

- Maintains IP rating of unmated connectors
- PXM7081: Fits PXM7010 (FlexConnector)
- PXM7082: Fits PXM7011 (Flex In-Line Connector) and PXP7012: (Panel Connector)
- PXM7083: Fits PXM7012 (Panel Mounting Connector)



Cable Gland Packs



PXP7088/ *

- 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

PXX	7XXX	/	XX	X	/	XX	/	XXXX	/	XX
Series Designation	Series / Body Style	No. of Contacts	Contacts Type	Terminations	Cable Entry Size	Cable Brand Termination Accessory				
PXM= Metal Series PXP= Plastic Series	7010 = Flex 7011 = Flex In-Line 7012 = Panel	02 = 2 Pole 03 = 3 Pole 06 = 6 Pole 10 = 10 Pole 32 = 32 Pole	P = Pin S = Socket	ST = Screw Terminal (2, 3, & 6 pole only) CR = Contacts Required (10 & 32 pole only)	(for Flex and Flex In-Line connectors only) 0507 = 5-7mm (grey) 0709 = 7-9mm (white) 0911 = 9-11mm (black) 1113 = 11 to 13 mm (yellow) 1315 = 13 to 15 mm (light grey)	(for Flex and Flex In-Line connectors only) SN - If requires Blank - If not required				

Examples

PXM7010/10/P/CR/0911/SN= Flex cable connector, 10 pole, pin contacts with 9 to 11mm cable glands and braid termination accessory

PXM7012/03/S/ST= Front panel mounting connector, 3 pole, socket with screw termination

Electrical:

No Poles:	2	3	6	10	32
Current Rating:					
UL	25A	25A	10A	10A	3A
cUL (pending)	25A	25A	8A	6A	2A
Voltage Rating (ac/dc):					
UL, cUL (pending)	600V	600V	600V	600V	600V
Contact Resistance:	<10mΩ				
Insulation Resistance:	>10 ⁹ MΩ @500V dc				
AC Breakdown voltage:					
2 pole	>10kV				
3 pole	>8kV				
6 to 32 pole	>5kV				
Operating Temp. Range:	-40°C to +120°C				
Approvals:					
 UL	UL1977				
 cULus	C22.2 No.182.3-M2016 (R2009)				

Mechanical:

Locking mechanism	Quarter turn, rapid locking
Sealing:	IP66 to EN60529:1992+A2:2013 IP68 to EN60529:1992+A2:2013 (10m depth for 2 weeks) IP69k to DIN 40050-9
Salt Mist (plastic):	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 pole screw terminals	6.0mm ² max
6 pole screw	1.00mm ² max
10 pole crimp / solder	18 to 20AWG
32 pole crimp / solder	22 to 26AWG
Cable Acceptance:	5-15mm dia.
Cable retention force (to BS EN61984):	
5 - 9mm dia cable	80N
9 - 15mm dia cable	100N
Terminations	
2 Pole:	Screw Terminals
3 Pole:	Screw Terminals
6 Pole:	Screw Terminals
10 Pole:	Crimp / Solder Contacts
32 Pole:	Crimp / Solder Contacts
Tightening Torques:	
Gland Nut:	TBA
Panel Nut:	1.7Nm (15lbf.in.)
Panel Nut Thread	M30 x 2-6g
Dimensions:	
Diameter: (over coupling ring)	42mm
Diameter: (panel hole cut-out)	30mm

Materials:

Plastic

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

Metal

Cast zinc alloy, nickel plated
Matt silver
Brass, Nickel Plate (Screw and Crimp) Brass, (3A – Gold plated)

RoHS

Compliant

Compliant

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.

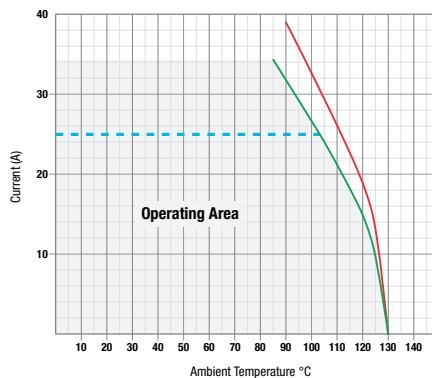
The red line indicates the direct correlation between current applied and the measured temperature rise within the connector. The dotted blue line shows rated current and the green line is derived by applying a factor of 0.8 to the original plot data to give a de-rating curve. The dashed blue line shows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

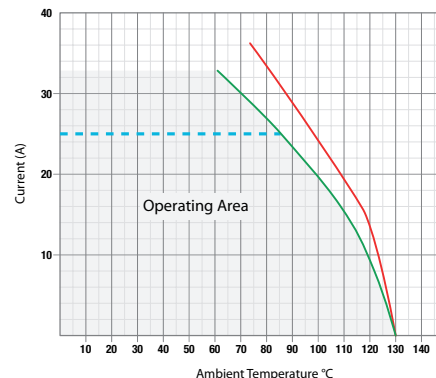
7000 Series Current vs. Temperature Characteristics

2 Pole, Plastic Body, Screw Terminal, 6.0mm² wire
current applied through all pins simultaneously



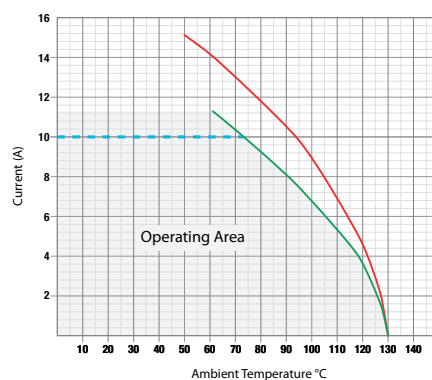
7000 Series Current vs. Temperature Characteristics

3 Pole, Plastic Body, Screw Terminal, 4.0mm² wire
current applied through all pins simultaneously



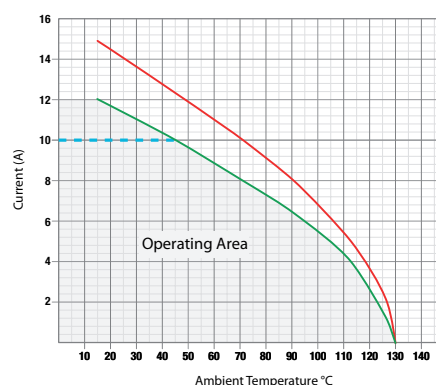
7000 Series Current vs. Temperature Characteristics

6 Pole, Plastic Body, Screw Terminal, 1.0mm² wire
current applied through all pins simultaneously



7000 Series Current vs. Temperature Characteristics

10 Pole, Plastic Body, Crimp Terminal, 18 AWG wire
current applied through all pins simultaneously



7000 Series Current vs. Temperature Characteristics

32 Pole, Plastic Body, Crimp Terminal, 22 AWG wire
current applied through all pins simultaneously

