



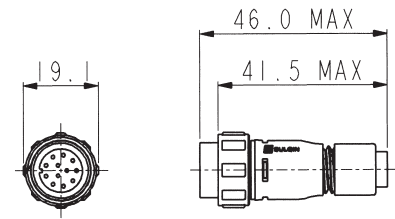
- ⊕ IP68 rating tested at 1.054kg/sq cm (15lb/sq in) 10m depth for 2 weeks
- ⊕ IP69K, Tested in accordance with DIN 40050/Part 9 IP6k9k
- ⊕ 2 and 3 pole - 8A, 250V rating
- ⊕ 4, 6 and 8 pole - 5A, 125V rating
- ⊕ 10 and 12 pole - 1A, 50V rating
- ⊕ 2.5mm contact engagement for electrical integrity 'Scoop 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

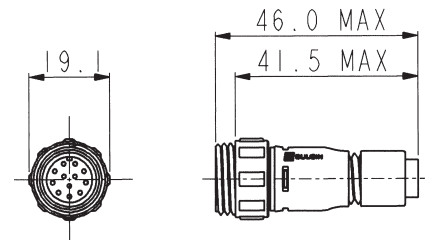


Inline Flex Cable Connector



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

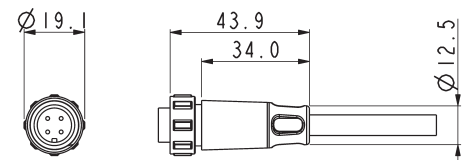


Pre Wired Flex Cable Connector



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

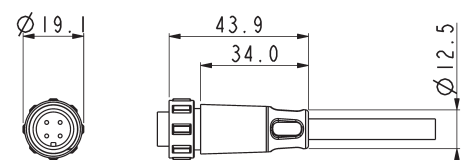


Smart Connector



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

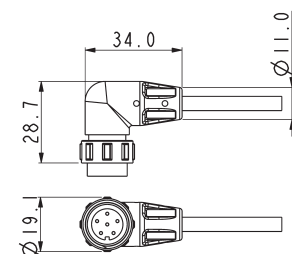


Pre Wired Flex Cable Connector



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

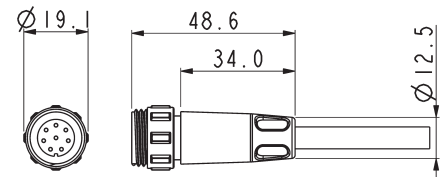


Pre Wired Inline Flex Connector



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

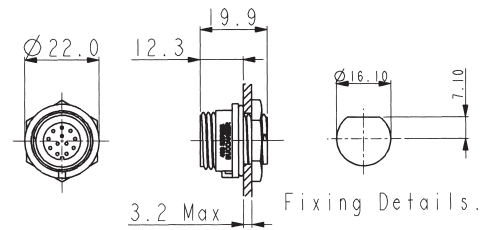


Front Panel Mounting Connector



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

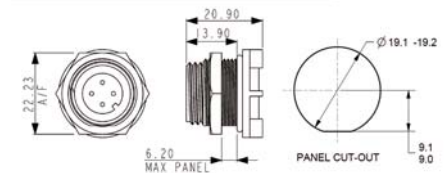


Rear Panel Mounting Connector



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

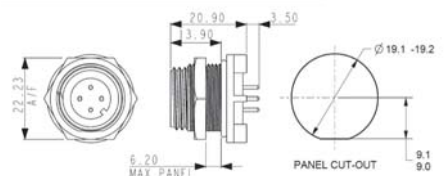


PCB Mounting Connector



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

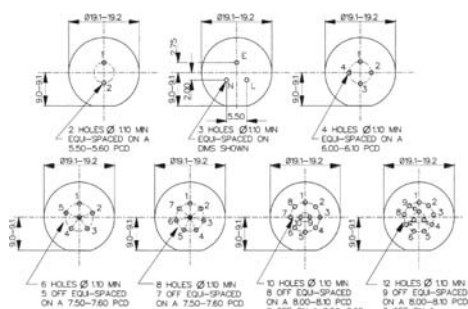
Crimp tools

	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

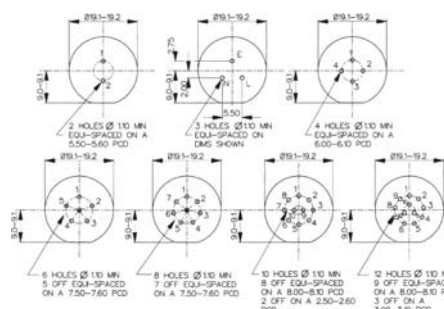
Sockets

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	50Vac/dc
Contact Resistance:	<5mΩ		
Insulation Resistance:	>10 <sup>9</sup> MΩ (@ 500V d.c.)		
AC Breakdown voltage:	2.5kV		
Cycles:	>1000		

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

O Rings: Nitrile

Panel Sealing O Ring: Nitrile

**RoHS** Compliant

**Mechanical:**

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

Salt Mist: 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: 3.0 - 7.0mm

Contact Accommodation: 2, 3 pole, 20 - 24 AWG  
4, 6, 8 pole, 22 - 26 AWG  
10, 12 pole, 24 - 28 AWG

Termination: Crimp, solder and PCB

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

**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:**

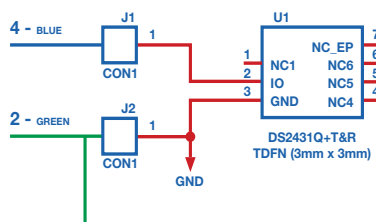
1024 - Bit Memory

1 - Wire

Can be Write Protected

Manufacturer - Maxim Intergrated

Part Number - 0S2431



Pin	Wire Colour
1	Red
2	Green
3	Yellow
4	Blue
5	White
6	Black
7	Brown
8	Violet
9	Orange
10	Pink
11	Turquoise
12	Grey

## Standard:

PX04 xx	/	XX	/	X	/	XXXX
<b>Body Styles</b>  PX0410 = Flex body PX0411 = Flex in-line body PX0412 = Front panel mounting body PX0413 = Rear panel/PCB mounting body		<b>Number Contacts</b>  02 = 2 pole, 03 = 3 pole, 04 = 4 pole, 06 = 6 pole, 08 = 8 pole, 10 = 10 pole, 12 = 12 pole		<b>Contact Type</b>  P = Pin, S = Socket		<b>For PX0410 and PX0411 cable connectors - Cable Entry Size:</b>  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)
<b>Examples:</b>  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).						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

## Smart:

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

### Examples:

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