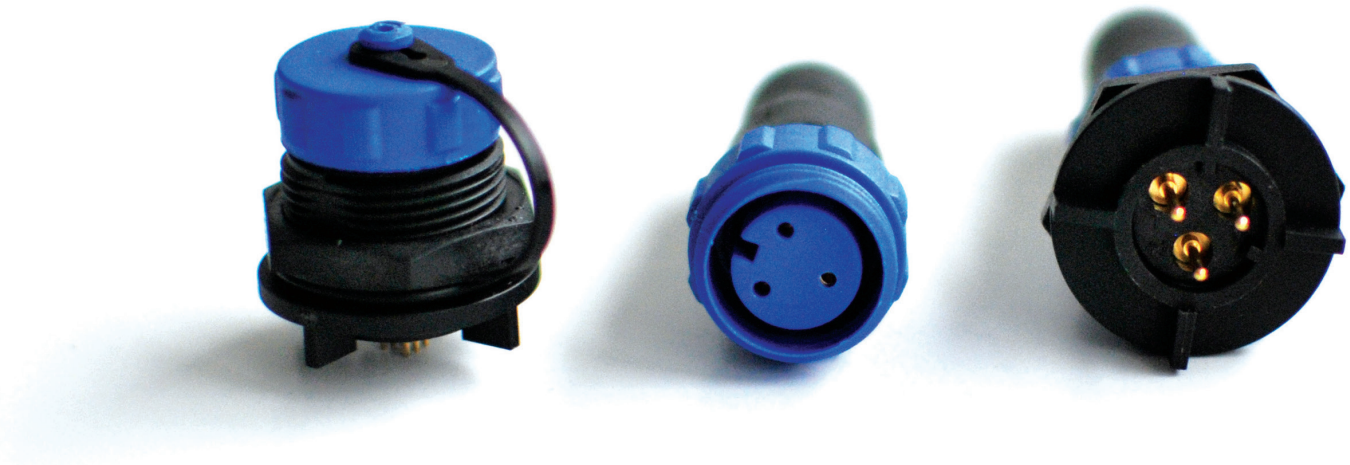
# 400 Series Buccaneer

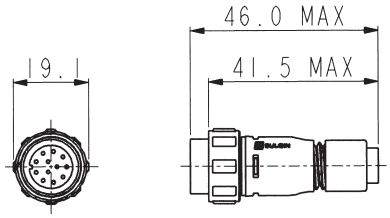


- IP68 rating tested at 1.054kg/sq cm (15lb/sq in) 10m depth for 2 weeks
- IP69K, Tested in accordance with DIN 40050/Part 9 IP6k9k
- 2 and 3 pole - 8A, 250V rating
- 4, 6 and 8 pole - 5A, 125V rating
- 10 and 12 pole - 1A, 50V rating
- 2.5mm contact engagement for electrical integrity ‘Scoop proof’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

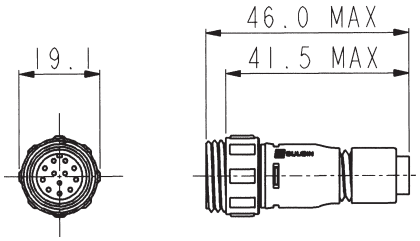
- Mates with Flex In-line or Panel mounting versions PX0401, PX0411, PX0412 & PX0413
- Pin or socket
- 2, 3, 4, 6, 8, 10 or 12 pole
- Screw locking ring
- Contacts supplied separately




## Inline Flex Cable Connector

PX0411

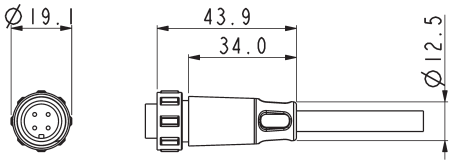
- Mates with Flex Cable connectors PX0400, PX0402 & PX0410
- Pin or socket
- 2, 3, 4, 6, 8, 10 or 12 pole
- For in-line cable connection
- Contacts supplied separately




## Pre Wired Flex Cable Connector

PX0400

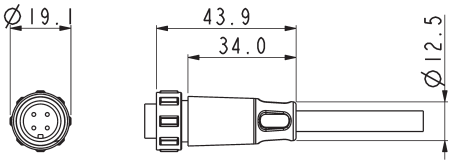
- Overmoulded Flex connector for pre-wired cable assemblies
- Pin or socket
- Cable range 2.5 -9.0mm o/d
- 2, 3, 4, 6, 8, 10 or 12 pole
- Mates with PX0401 & PX0411 Flex In-Line connectors and PX0412 & PX0413 panel mounting connectors




## Smart Connector

PXS4 XX

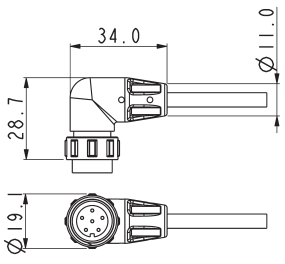
- Overmoulded pre-wired sealed connector
- 4, 6, 8, 10, 12 pole
- Embedded memory chip through 1 wire EEPROM
- Mates with PX0401 & PX0411 Flex In-Line connectors and PX0412 & PX0413 panel mounting connectors




## Pre Wired Flex Cable Connector

PX0402

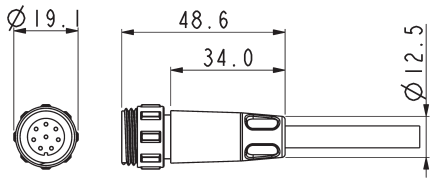
- Right-angled overmoulded
- Flex connector for pre-wired cable assemblies
- Pin or socket
- Cable range 2.5 -9.0mm o/d
- 2, 3, 4, 6, 8, 10 or 12 pole
- Mates with PX0401 & PX0411 Flex In-Line connectors and PX0412 & PX0413 panel mounting connectors



## Pre Wired Inline Flex Connector

PX0401

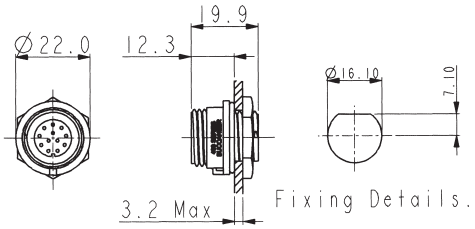
- Overmoulded Flex connector for pre-wired cable assemblies
- Pin or socket
- Cable range 2.5 -9.0mm o/d
- 2, 3, 4, 6, 8, 10 or 12 pole
- Mates with PX0400, PX0402 & PX0410 Flex connectors




## Front Panel Mounting Connector

PX0412

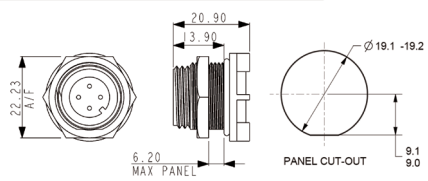
- Mates with Flex Cable connectors PX0410, PX0400 & PX0402
- Front Panel mounting
- Single hole fixing
- Contacts supplied separately
- 2, 3, 4, 6, 8, 10 or 12 pole




## Rear Panel Mounting Connector

PX0413

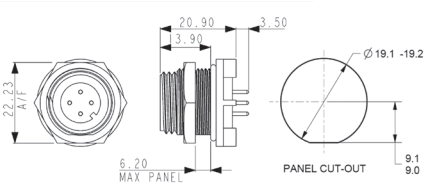
- Mates with Flex Cable connector PX0410, PX0400 & PX0402
- Rear Panel mounting
- Single hole fixing
- Contacts supplied separately
- 2, 3, 4, 6, 8, 10 or 12 pole




## 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

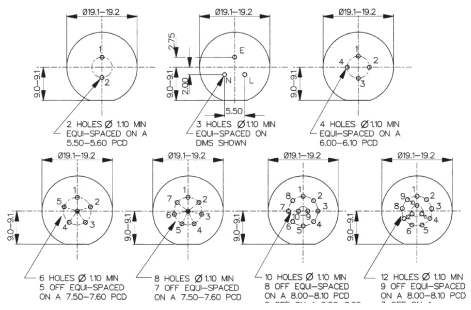
| | Poles | Contact Rating | Colour | Part No |
|---|---|---|---|---|
| Insertion/Extraction Tool | 2,3 | 8A | Blue | 13027/2 |
| Insertion/Extraction Tool | 4,6,8 | 5A | Red | 13027/1 |
| Insertion/Extraction Tool | 10,12 | 1A | Green | 13027 |

## Crimp tools

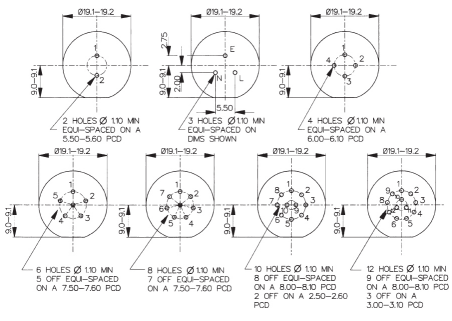
| | Poles | Contact Rating | Colour | Part No |
|---|---|---|---|---|
| Positioner | 2,3 | 8A | Blue | 14025/8AMP |
| Positioner | 4,6,8 | 5A | Red | 14025/5AMP |
| Positioner | 10,12 | 1A | Green | 14025/1AMP |
| 8 Indent Crimp Tool for use with positioners | | | | 14025 |

## 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 |
| CCC | 2011010203500398 – 1 Amp Rated<br>2011010203500399 – 5 Amp Rated<br>2011010203500400 – 8 Amp Rated |
| | 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

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

## 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

# Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Bulgin:

14025/8AMP SA3349 SA3350 PX0412/10P PX0412/10S PX0412/06P PX0412/06S SA3349/1 SA3347/1 PX0413/10P/PC PX0412/04S PX0412/03P PX0412/08P PX0412/08S PX0412/02P PX0412/03S PX0412/02S PX0412/04P PX0411/04P/4550 PX0411/08P/6065 PX0411/08S/6065 PX0411/04S/4550 PX0411/02P/5560 PX0411/03P/5560 PX0411/03S/5560 PX0411/02S/5560 14025/5AMP PX0410/12P/6065 PX0410/12S/6065 SA3350/1 PX0412/12S PX0412/12P SA3348/1 PX0413/04P/PC 14025/1AMP PX0413/06P/PC PX0484 PX0483 PX0482 PX0481 PX0480 PX0413/08P/PC PX0413/06S/PC PX0480/1 PX0413/04S/PC PX0413/12S/PC PX0413/10S/PC SA3348 SA3347 PX0410/03P/5560 PX0410/08S/6065 PX0410/03S/5560 PX0410/08P/6065 PX0410/04S/4550 PX0410/02S/5560 PX0410/04P/4550 PX0410/02P/5560 PX0413/08S/PC PX0411/12S/6065 PX0411/12P/6065 PX0413/12P/PC PX0410/03S/6065 PX0410/02P/3035 PX0410/02P/3540 PX0410/02P/4045 PX0410/02P/4550 PX0410/02P/5055 PX0410/02P/6065 PX0410/02P/6570 PX0410/02S/3035 PX0410/02S/3540 PX0410/02S/4045 PX0410/02S/4550 PX0410/02S/5055 PX0410/02S/6065 PX0410/02S/6570 PX0410/03P/3035 PX0410/03P/3540 PX0410/03P/4045 PX0410/03P/4550 PX0410/03P/5055 PX0410/03P/6065 PX0410/03P/6570 PX0410/03S/3035 PX0410/03S/3540 PX0410/03S/4045 PX0410/03S/4550 PX0410/03S/5055 PX0410/03S/6570 PX0410/04P/3035 PX0410/04P/3540 PX0410/04P/4045 PX0410/04P/5055 PX0410/04P/5560 PX0410/04P/6065 PX0410/04P/6570 PX0410/04S/3035 PX0410/04S/3540 PX0410/04S/4045 PX0410/04S/5055