Sealed to IP68 when mated
IP68 rating tested at 1.054kg/sq cm (15lb/sq in) 10m depth for 2 weeks
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
## Flex Cable Connector
- 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

![Flex Cable Connector](image1.png)

- **PX0410**

## Inline Flex Cable Connector
- 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

![Inline Flex Cable Connector](image2.png)

- **PX0411**

## Pre Wired Flex Cable Connector
- 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 Flex Cable Connector](image3.png)

- **PX0400**

## Pre Wired Flex Connector
- 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 Flex Connector](image4.png)

- **PX0402**

## Pre Wired Inline Flex Connector
- 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

![Pre Wired Inline Flex Connector](image5.png)

- **PX0401**
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Front Panel Mounting Connector
- 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
- 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
- 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
- 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

<table>
<thead>
<tr>
<th>Part No</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>PX0482</td>
<td>Pack of 4 pairs cable glands and collets to suit cables from 3.0 to 5.0mm diameter.</td>
</tr>
<tr>
<td>PX0483</td>
<td>Pack of 4 pairs cable glands and collets to suit cables from 5.0 to 7.0mm diameter.</td>
</tr>
</tbody>
</table>
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Specifications

Crimp Contacts

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

Solder Contacts

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

Insertion / Extraction

<table>
<thead>
<tr>
<th>Poles</th>
<th>Contact Rating</th>
<th>Colour</th>
<th>Part No</th>
</tr>
</thead>
<tbody>
<tr>
<td>Insertion/Extraction Tool</td>
<td>2, 3</td>
<td>8A</td>
<td>Blue</td>
</tr>
<tr>
<td>Insertion/Extraction Tool</td>
<td>4, 6, 8</td>
<td>5A</td>
<td>Red</td>
</tr>
<tr>
<td>Insertion/Extraction Tool</td>
<td>10, 12</td>
<td>1A</td>
<td>Green</td>
</tr>
</tbody>
</table>

Crimp tools

<table>
<thead>
<tr>
<th>Poles</th>
<th>Contact Rating</th>
<th>Colour</th>
<th>Part No</th>
</tr>
</thead>
<tbody>
<tr>
<td>Positioner</td>
<td>2, 3</td>
<td>8A</td>
<td>Blue 14025/8AMP</td>
</tr>
<tr>
<td>Positioner</td>
<td>4, 6, 8</td>
<td>5A</td>
<td>Red  14025/5AMP</td>
</tr>
<tr>
<td>Positioner</td>
<td>10, 12</td>
<td>1A</td>
<td>Green 14025/1AMP</td>
</tr>
<tr>
<td>8 Indent Crimp Tool for use with positioners</td>
<td></td>
<td></td>
<td>14025</td>
</tr>
</tbody>
</table>

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)
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400 Series Buccaneer
Specifications

**Electrical:**

<table>
<thead>
<tr>
<th>No. Poles:</th>
<th>2, 3</th>
<th>4, 6, 8</th>
<th>10, 12</th>
</tr>
</thead>
<tbody>
<tr>
<td>Current Rating:</td>
<td>8A</td>
<td>5A</td>
<td>1A</td>
</tr>
<tr>
<td>Voltage Rating (ac/dc):</td>
<td>250Vac/dc</td>
<td>125Vac/dc</td>
<td>50Vac/dc</td>
</tr>
<tr>
<td>Contact Resistance:</td>
<td>&lt;5mΩ</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Insulation Resistance:</td>
<td>&gt;10⁶MΩ (@ 500V d.c.)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>AC Breakdown voltage:</td>
<td>2.5kV</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

Overmoulded cable assemblies approvals to customer requirements.

**Mechanical:**

Sealing: 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

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

**Material:**

Flex and panel types:
- Polyamide

Body Mouldings:
- UL94V-0
- To EN 50021:1999

Overmoulded types:
- Polyurethane
- UL94V-HB

Contacts:
- Copper alloy, Gold plated

O Rings:
- Nitrile

Panel Sealing O Ring:
- Nitrile

RoHS: Compliant

**Dimensions:**

Overall dimensions of connectors when mated together
- Flex + Flex In-Line: 80mm
- Dia. over coupling ring: 19.1mm
<table>
<thead>
<tr>
<th>PX04 xx</th>
<th>XX</th>
<th>X</th>
<th>XXXX</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Body Styles</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PX0410 = Flex body</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PX0411 = Flex in-line body</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PX0412 = Front panel mounting body</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PX0413 = Rear panel/PCB mounting body</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Number Contacts</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>02 = 2 pole,</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>03 = 3 pole,</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>04 = 4 pole,</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>06 = 6 pole</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>08 = 8 pole,</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10 = 10 pole,</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>12 = 12 pole</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Contact Type</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>P = Pin,</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>S = Socket</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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.

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).

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