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 IP69K

2 and 3 Contact - 8A, 250V rating
4, 6 and 8 Contact - 5A, 125V rating
10 and 12 Contact - 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 + Inline) 80mm
Gold plated contacts
Diameter over coupling ring 19.1mm
Pre-wired, overmoulded cable assemblies
Flex, Inline, 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
### 400 Series Buccaneer

#### Flex Cable Connector
- PX0410
- Mates with Inline or Panel mounting versions PX0401, PX0411, PX0412 & PX0413
- Plug or socket
- 2, 3, 4, 6, 8, 10 or 12 Contact
- Screw locking ring
- Contacts supplied separately

#### Inline Cable Connector
- PX0411
- Mates with Flex Cable connectors PX0400, PX0402 & PX0410
- Plug or socket
- 2, 3, 4, 6, 8, 10 or 12 Contact
- For Inline cable connection
- Contacts supplied separately

#### Pre Wired Flex Cable Connector
- PX0400
- Overmoulded Flex connector for pre-wired cable assemblies
- Plug or socket
- Cable range 2.5 - 9.0mm O/D
- 2, 3, 4, 6, 8, 10 or 12 Contact
- Mates with PX0401 & PX0411 Inline connectors and PX0412 & PX0413 panel mounting connectors

#### Pre Wired Flex Cable Connector
- PX0402
- Right-angled overmoulded
- Flex connector for pre-wired cable assemblies
- Plug or socket
- Cable range 2.5 - 9.0mm O/D
- 2, 3, 4, 6, 8, 10 or 12 Contact
- Mates with PX0401 & PX0411 Inline connectors and PX0412 & PX0413 panel mounting connectors

#### Smart Connector
- PXS410
- Overmoulded pre-wired sealed connector
- 4, 6, 8, 10, 12 Contact
- Embedded memory chip through 1 wire EEPROM
- Mates with PX0401 & PX0411 Inline connectors and PX0412 & PX0413 panel mounting connectors
# BUCCANEER FOR POWER

## 400 Series Buccaneer

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

**Sealing Caps**
- Maintains IP68 Rating of Unmated Connectors
- PX0480: Fits PX0412 (panel mounting)
- PX0480/1: Fits PX0401 & PX0411 (inline)
- 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>

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

**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 Contact

**Gland Packs**

<table>
<thead>
<tr>
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<th>Description</th>
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<td>PX0482</td>
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</tr>
</tbody>
</table>
### Crimp Contacts

<table>
<thead>
<tr>
<th>Contact</th>
<th>Current Rating</th>
<th>Plug Part No.</th>
<th>Socket Part No.</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>
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<tr>
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<th>Current Rating</th>
<th>Plug Part No.</th>
<th>Socket Part No.</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>Insertion/Extraction Tool</th>
<th>Contact Rating</th>
<th>Colour</th>
<th>Part No</th>
</tr>
</thead>
<tbody>
<tr>
<td>2, 3</td>
<td>8A</td>
<td>Blue</td>
<td>13027/2</td>
</tr>
<tr>
<td>4, 6, 8</td>
<td>5A</td>
<td>Red</td>
<td>13027/1</td>
</tr>
<tr>
<td>10, 12</td>
<td>1A</td>
<td>Green</td>
<td>13027</td>
</tr>
</tbody>
</table>

### Crimp tools

<table>
<thead>
<tr>
<th>Contact</th>
<th>Contact Rating</th>
<th>Colour</th>
<th>Part No</th>
</tr>
</thead>
<tbody>
<tr>
<td>Positioner 2, 3</td>
<td>8A</td>
<td>Blue</td>
<td>14025/8AMP</td>
</tr>
<tr>
<td>Positioner 4, 6, 8</td>
<td>5A</td>
<td>Red</td>
<td>14025/5AMP</td>
</tr>
<tr>
<td>Positioner 10, 12</td>
<td>1A</td>
<td>Green</td>
<td>14025/1AMP</td>
</tr>
<tr>
<td>8 Indent Crimp Tool</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 Contact (8 Amp) 3 Contact (8 Amp) 4 Contact (5 Amp) 6 Contact (5 Amp) 8 Contact (5 Amp) 10 Contact (1 Amp) 12 Contact (1 Amp)
BUCCANEER FOR POWER
400 Series Buccaneer
Specifications

Electrical:

No. Contacts: 2, 3 4, 6, 8 10, 12
Current Rating: 8A 5A 1A
Voltage Rating: 250V AC/DC 125V AC/DC 50V AC/DC
Contact Resistance: <5mΩ
Insulation Resistance: >10⁶MΩ (@ 500V DC)
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 (Underwriters Laboratory) E214972
CSA (Canadian Standards Associations) 1273303
VDE (Verband der Elektrotechnik) 40002226

Overmoulded cable assemblies approvals to customer requirements.

Material:

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

Smart Connector EEPROM:

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

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:
No. Contacts: 2, 3 Contact, 20 - 24 AWG
Insertion Force (typ): 2, 3 Contact, 20 - 24 AWG
Crimp, solder and PCB
60N
Front fixing nut: 1.0-1.1Nm (9lbf.in.)
Panel thread PX0413: 18.97x26TPI Whitworth form to BS84 med fit

Termination: Crimp, solder and PCB
Cable Retention force: 3.0mm dia 60N
4.0 to 7.0mm dia 80N
Rear panel thread PX0412: M16x1.5

Dimensions:

Overall dimensions of connectors when mated together
Flex + Inline 80mm
Dia. over coupling ring 19.1mm

Plug / Wire Colour

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Red</td>
</tr>
<tr>
<td>2</td>
<td>Green</td>
</tr>
<tr>
<td>3</td>
<td>Yellow</td>
</tr>
<tr>
<td>4</td>
<td>Blue</td>
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<tr>
<td>5</td>
<td>White</td>
</tr>
<tr>
<td>6</td>
<td>Black</td>
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<tr>
<td>7</td>
<td>Brown</td>
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<tr>
<td>8</td>
<td>Violet</td>
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<tr>
<td>9</td>
<td>Orange</td>
</tr>
<tr>
<td>10</td>
<td>Pink</td>
</tr>
<tr>
<td>11</td>
<td>Turquoise</td>
</tr>
<tr>
<td>12</td>
<td>Grey</td>
</tr>
</tbody>
</table>
### 400 Series Buccaneer Specifications

#### Body Styles

<table>
<thead>
<tr>
<th>PX0410</th>
<th>Flex body</th>
</tr>
</thead>
<tbody>
<tr>
<td>PX0411</td>
<td>Inline body</td>
</tr>
<tr>
<td>PX0412</td>
<td>Front panel mounting body</td>
</tr>
<tr>
<td>PX0413</td>
<td>Rear panel/PCB mounting body</td>
</tr>
</tbody>
</table>

#### Number of Contacts

| 02  | 03  | 04  | 06  | 08  | 10  | 12  |

#### Contact Type

- P = Plug
- S = Socket

#### 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 Plugs
- Blank = no Plugs 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 Plug contacts (supplied less contacts).
- PX0413/06P = Rear panel mounting connector, for 6 Plug contacts (supplied less contacts).
- PX0413/04P/PC = Rear panel/PCB connector, 4 Plug contacts, PCB mounting (supplied with contacts loaded).

---

#### Pre Wired Variation:

| PX040X  | XXX  | XX  | X  |

#### Body Styles

- PX0400 = Pre Wired Flex Cable Connector
- PX0402 = Pre Wired Flex Cable Connector
  - Right angle

#### Length

<table>
<thead>
<tr>
<th>001 = 1m</th>
<th>002 = 2m</th>
<th>003 = 3m</th>
<th>...</th>
</tr>
</thead>
<tbody>
<tr>
<td>015 = 15m</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### Number of Contacts

| 02  | 03  | 04  | 06  | 08  | 10  | 12  |

#### Contact Type

- P = Plug
- S = Socket

#### Examples:

- PX0400/02/P = Pre wired flex cable connector, 2m cable to free end, 2 Plug contact

---

#### Smart:

| PXS410 | XX  | XX  | X  |

#### Body Styles

- PXS410 = Flex body

#### Cable length

| 02 = 2m | 03 = 3m | 05 = 5m | 10 = 10m |

#### Number of Contacts

| 04  | 06  | 10  | 12  |

#### Contact Type

- P = Plug
- S = Socket

#### Examples:

- PXS410/02/04/P = Smart flex cable connector, 2m cable to free end, 4 Plug contact

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### Circular Power Connectors