

400 Series Buccaneer


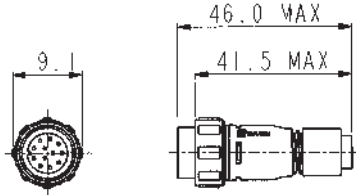

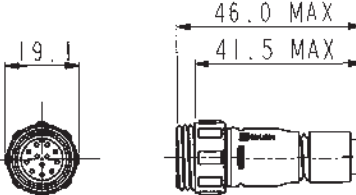

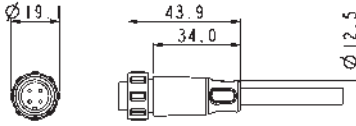

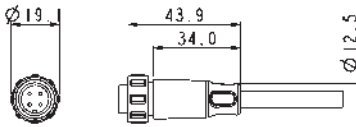

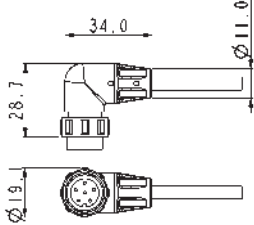
One of our most compact connectors within the Buccaneer range, the 400 Series Buccaneer is ideal for designs requiring a small footprint. Taking a selection of great features and specifications from the larger Buccaneer family, the 400 Series miniature power connectors condenses them into a compact form factor giving engineers greater flexibility.




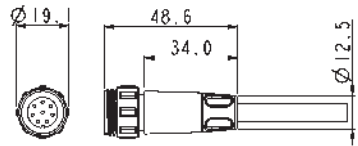

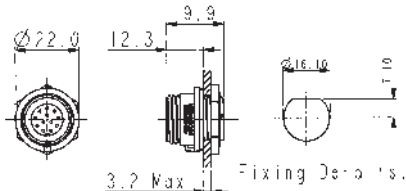

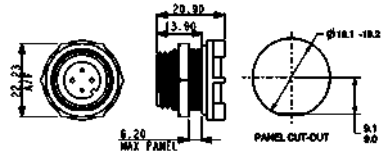

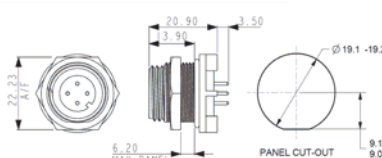
- Flex Cable Connector
- Water and Dustproof to IP68 when Mated with Compatible Connector
- Pin or Socket
- 2, 3, 4, 6, 8, 10 or 12 Pole
- Crimp or Solder Contacts available (supplied separately; use 8A for 2/3 Pole, 5A for 4/6/8 Pole, 1A for 10/12 Pole)
- Contact Insertion and Crimp Tools available (supplied separately)
- Choice of Cable Acceptance 3mm-7mm depending on Part Code; supplied with Cable Gland and Collet Colour Coded by Size
- PX0481 Sealing Cap available separately to maintain IP Rating of Unmated Connectors
- Mate with Flex In-Line or Panel Mount Connectors PX0401, PX0411, PX0412, PX0413

400 Series Buccaneer



| | | |
|--|---|---|
| <p>Flex Cable Connector</p>  <p>PX0410</p> | <ul style="list-style-type: none"> ○ 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 |  |
| <p>Inline Flex Cable Connector</p>  <p>PX0411</p> | <ul style="list-style-type: none"> ○ 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 |  |
| <p>Pre Wired Flex Cable Connector</p>  <p>PX0400</p> | <ul style="list-style-type: none"> ○ Overmoulded Flex Connector for Pre-Wired Cable Assemblies ○ Pin or Socket ○ Cable Range 2.5 -9.0mm o/d ○ Mates with PX0401 & PX0411 Flex In-Line & PX0412 & PX0413 Panel Mounting Connectors |  |
| <p>Smart Connector</p>  <p>PXS4 XX</p> | <ul style="list-style-type: none"> ○ Overmoulded Pre-Wired Sealed Connector ○ 4, 6, 8, 10, 12 Pole ○ Embedded Memory Chip Through 1 Wire EEPROM ○ Mates with PX0401, PX0411 & PX0412, PX0413 |  |
| <p>Pre Wired Flex Cable Connector</p>  <p>PX0402</p> | <ul style="list-style-type: none"> ○ Right-Angled Overmoulded ○ Flex Connector for Pre-Wired Cable Assemblies ○ Cable Range 2.5 -9.0mm o/d ○ Mates with PX0401, PX0411 & PX0412, PX0413 |  |

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| | | |
|---|---|---|
| <p>Pre Wired Inline Flex Connector</p>  <p>PX0401</p> | <ul style="list-style-type: none"> ○ 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 & PX041 |  |
| <p>Front Panel Mounting Connector</p>  <p>PX0412</p> | <ul style="list-style-type: none"> ○ 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 |  |
| <p>Rear Panel Mounting Connector</p>  <p>PX0413</p> | <ul style="list-style-type: none"> ○ 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 |  |
| <p>PCB Mounting Connector</p>  <p>PX0413</p> | <ul style="list-style-type: none"> ○ Mates with Flex Cable connector PX0410, PX0400 & PX0402 ○ PCB Rear Panel Mounting ○ Straight PC Spills ○ Pre-Loaded Gold Plated Contacts ○ 2, 3, 4, 6, 8, 10 or 12 Pole |  |

400 Series Buccaneer

Sealing Caps



PX0480, PX0480/1
PX0481, PX0484

- ⬡ Unmated Connectors Maintain IP68 Rating
- ⬡ PX0480: Fits PX0412 (Panel Mounting)
- ⬡ PX0480/1: Fits PX0401 & PX0411 (Flex In-Line)
- ⬡ PX0481: Fits PX0400, PX0402 & PX0410 (Flex Connector)

| Part No. | Description |
|----------|--|
| PX0482 | 4 Pairs Cable Glands and Collets to Suit Cables from 3.0 to 5.0mm Diameter |
| PX0483 | 4 Pairs Cable Glands and Collets to Suit Cables from 5.0 to 7.0mm Diameter |

400 Series Buccaneer

Technical Overview Data

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:

| 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: | Colour: | Part No: |
|-----------------------------|---------|-----------------|----------|---------|----------|
| Insertion / Extraction Tool | 2, 3 | 8A | SA3350/1 | Blue | 13027/2 |
| Insertion / Extraction Tool | 4, 6, 8 | 5A | SA3348/1 | Red | 13027/1 |
| Insertion / Extraction Tool | 10, 12 | 1A | SA3180/1 | Green | 13027 |

Crimp Tools:

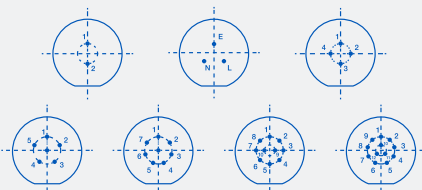
| | Pole: | Current Rating: | Colour: | Part No: |
|--|---------|-----------------|---------|------------|
| Positioner | 2, 3 | 8A | Blue | 14025/8AMP |
| Positioner | 4, 6, 8 | 5A | Red | 14025/5AMP |
| Positioner | 10, 12 | 1A | Green | 14025/1AMP |
| 8 Indent Crimp Tool for use with positioners |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

Contact Layout:



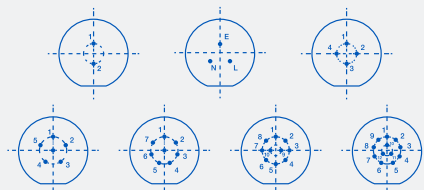
Sockets:

Contact numbers viewed from rear:



Plugs:

Contact numbers viewed from rear:



Technical Overview Data

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: >10⁹MΩ (@ 500V d.c.)

AC Breakdown voltage: 2.5kV

Operating Temperature: -40°C to +80°C
-20°C to +60°C

Flex & Panel Types Overmoulded

Approvals

| | |
|--|----------|
|  UL | E214972 |
|  CSA | 1273303 |
|  VDE | 40002226 |

Overmoulded Cable Assemblies
Approvals to Customer Requirements

Materials:

Flex & 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 60
N N
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:

| | |
|-------------------------|-------------------------|
| 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 Integrated
Part Number - OS2431

400 Series Buccaneer

Standard Variation:

| PX04 xx | XX | X | XXXX |
|--|------------------------|---------------------|---|
| Body Styles | Number Contacts | Contact Type | For PX0410 and PX0411 Cable Connectors - Cable Entry Size: |
| PX0410 = Flex Body | 02 = 2 Pole | P = Pin | 3035 = 3.0 - 3.5mm (Light Grey) |
| PX0411 = Flex In-Line Body | 03 = 3 Pole | S = Socket | 3540 = 3.5 - 4.0mm (Grey) |
| PX0412 = Front Panel Mounting Body | 04 = 4 Pole | | 4045 = 4.0 - 4.5mm (Green) |
| PX0413 = Rear Panel / PCB Mounting Body | 06 = 6 Pole | | 4550 = 4.5 - 5.0mm (Red) |
| | 08 = 8 Pole | | 5055 = 5.0 - 5.5mm (Yellow) |
| | 10 = 10 Pole | | 5560 = 5.5 - 6.0mm (Blue) |
| | 12 = 12 Pole | | 6065 = 6.0 - 6.5mm (White) |
| | | | 6570 = 6.5 - 7.0mm (Black) |
| Example: | | | Cable Gland & Collet supplied in Colour Coded Pairs. |
| PX0410/10S/4045 = Flex Cable Connector 10 Socket Contacts with Gland & Collet for Cables between 4.0 and 4.5mm Diameter (Supplied Less Contacts) | | | For PX0413 PCB/Rear Panel Mount: |
| PX0412/08P = Front Panel Mounting Connector 8 Pin Contacts (Supplied Less Contacts) | | | PC = Pre-Loaded PC Pins |
| PX0413/06P = Rear Panel Mounting Connector for 6 Pin Contacts (Supplied Less Contacts) | | | Blank = No Pins Supplied |
| PX0413/04P/PC = Rear Panel / PCB Connector 4 Pin Contacts PCB Mounting (Supplied with Contacts Loaded) | | | For PX0412 Front Panel Mount: |
| | | | Suffix Not Required - Leave Blank |

Smart Variation:

| PXS4xx | XX | XX | X |
|---|---------------------|---------------------------|---------------------|
| Body Styles | Cable Length | Number of Contacts | Contact Type |
| PXS410 = Flex Body | 02 = 2m | 04 = 4 Poles | P = Pin |
| | 03 = 3m | 06 = 6 Pole | S = Socket |
| | 05 = 5m | 08 = 8 Pole | |
| | 10 = 10m | 10 = 10 Pole | |
| | | 12 = 12 Pole | |
| Example: | | | |
| PXS410/02/04/P = Smart Flex Cable Connector 2M Cable to Free End, 4 Pin Contact | | | |