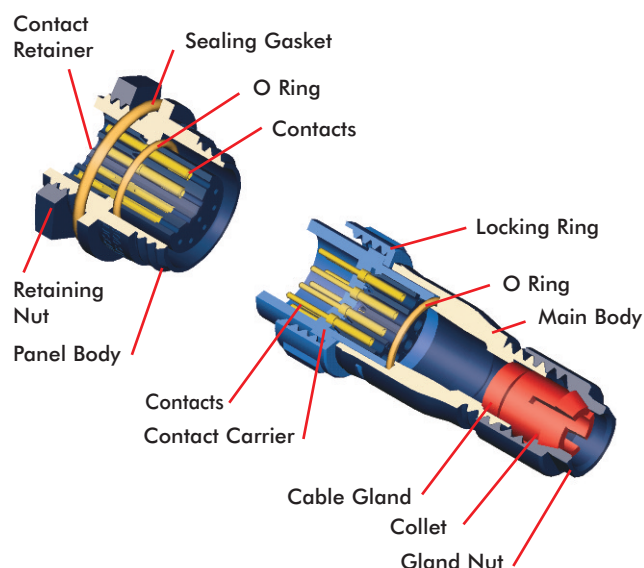


# 400 Series Buccaneer®



BUCCANEER POWER

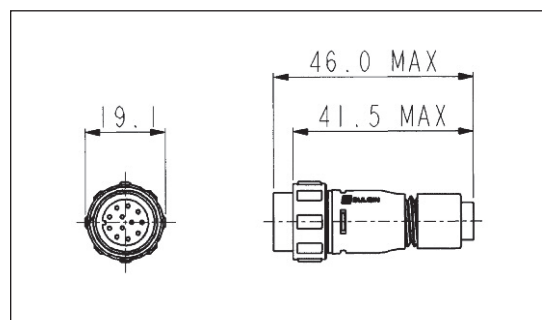
- Sealed to IP68 when mated
- IP68 rating tested at 1.054kg/sq cm (15lb/sq in) 10m depth for 2 weeks
- 2 and 3 pole - 8A, 250V rating
- 4, 6 and 8 pole - 5A, 125V rating
- 10 and 12 pole - 1A, 50V rating
- 2.5mm contact engagement for electrical integrity
- 'Scoop proof' contacts
- Contact inserts are 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
- UL, CSA and VDE approvals

## 400 Series Buccaneer

### FLEX CABLE CONNECTOR



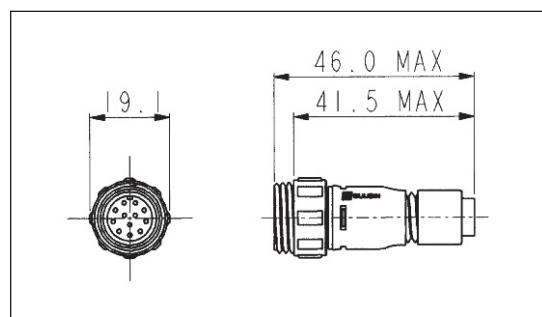
- Mates with Flex In-line or Panel mounting versions PX0401, PX0411, PX0412 & PX0413
- Pin or socket
- 2, 3, 4, 6, 8, 10 or 12 pole
- Screw locking ring
- Contacts supplied separately



### IN-LINE FLEX CABLE CONNECTOR



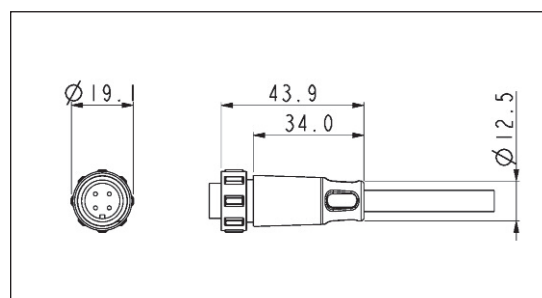
- Mates with Flex Cable connectors PX0400, PX0402 & PX0410
- Pin or socket
- 2, 3, 4, 6, 8, 10 or 12 pole
- For in-line cable connection
- Contacts supplied separately



### PRE-WIRED FLEX CONNECTOR



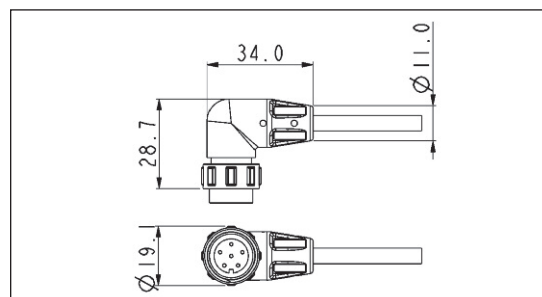
- Overmoulded Flex connector for pre-wired cable assemblies
- Pin or socket
- Cable range 2.5 - 9.0mm o/d
- 2, 3, 4, 6, 8, 10 or 12 pole
- Mates with PX0401 & PX0411 Flex In-Line connectors and PX0412 & PX0413 panel mounting connectors



### PRE-WIRED FLEX CONNECTOR



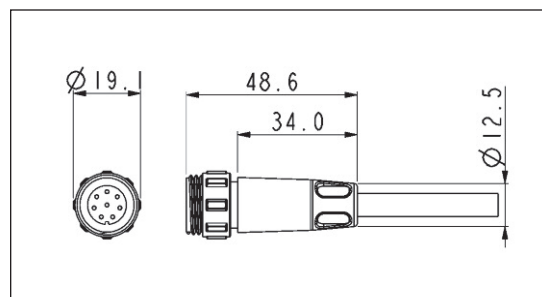
- Right-angled overmoulded Flex connector for pre-wired cable assemblies
- Pin or socket
- Cable range 2.5 - 9.0mm o/d
- 2, 3, 4, 6, 8, 10 or 12 pole
- Mates with PX0401 & PX0411 Flex In-Line connectors and PX0412 & PX0413 panel mounting connectors



### PRE-WIRED IN-LINE 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



## 400 Series Buccaneer

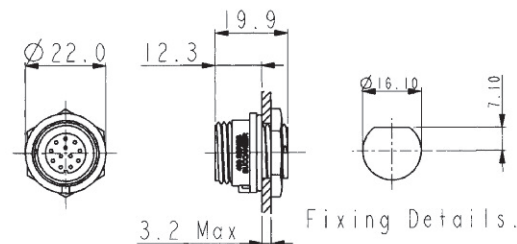
### FRONT PANEL MOUNTING CONNECTOR



PX0412/P

PX0412/S

- 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



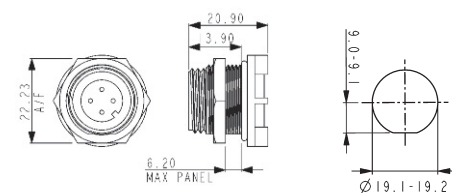
### REAR PANEL MOUNTING CONNECTOR



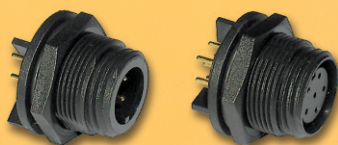
PX0413/xxP

PX0413/xxS

- 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



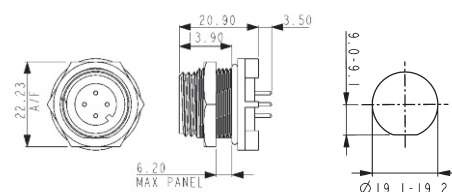
### PCB MOUNTING CONNECTOR



PX0413/xxP/PC

PX0413/xxS/PC

- 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. |

## 400 Series Buccaneer

### 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            |

### CONTACT INSERTION TOOLS

|                           | 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   |

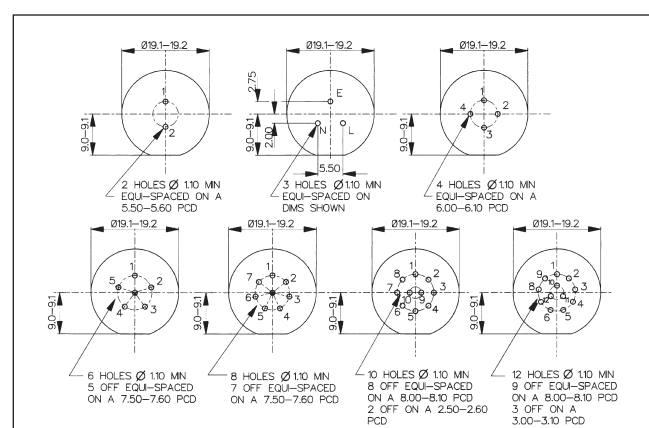
### CRIMP TOOLS

|                                              | Pole  | 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      |

### PCB CONTACT LAYOUT

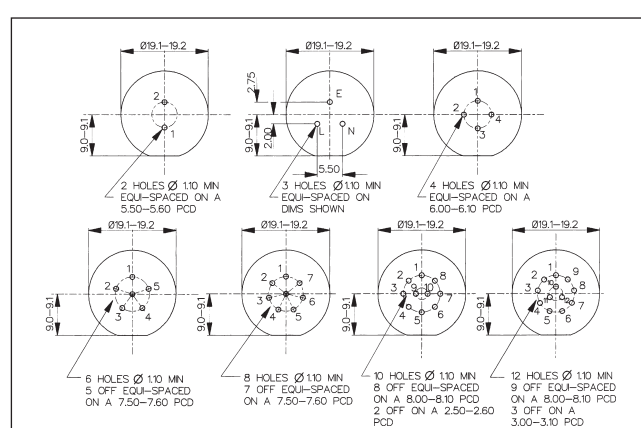
#### Sockets

Contact numbers viewed from rear of panel

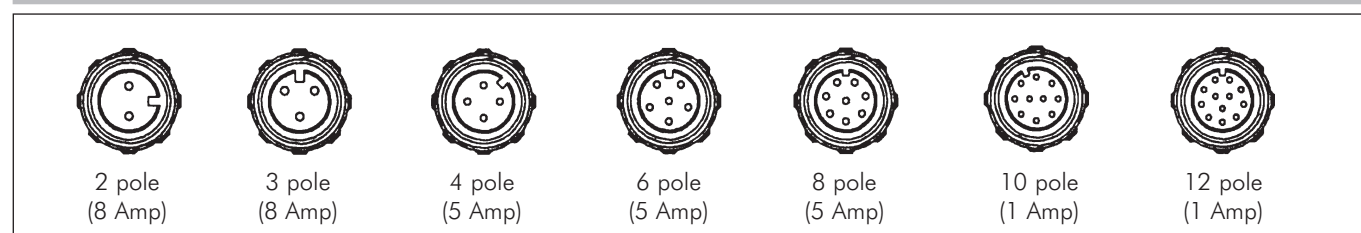


#### Plugs

Contact numbers viewed from rear of panel



### CONTACT LAYOUT





### SPECIFICATION

#### Electrical:

|                                                                                        |                                                                  |           |          |
|----------------------------------------------------------------------------------------|------------------------------------------------------------------|-----------|----------|
| Poles:                                                                                 | 2, 3                                                             | 4, 6, 8   | 10, 12   |
| Current Rating:                                                                        | 8A                                                               | 5A        | 1A       |
| Voltage Rating:                                                                        | 250Vac/dc                                                        | 125Vac/dc | 50Vac/dc |
| Contact Resistance:                                                                    | <5mΩ                                                             |           |          |
| Insulation Resistance:                                                                 | >10 <sup>9</sup> MΩ (@ 500V d.c.)                                |           |          |
| AC Breakdown Voltage:                                                                  | 2.5kV                                                            |           |          |
| Operating Temperature:                                                                 | -40°C to +80°C                                                   |           |          |
| Flex and panel types                                                                   | -20°C to +85°C                                                   |           |          |
| Overmoulded                                                                            |                                                                  |           |          |
| Approvals:                                                                             |                                                                  |           |          |
| UL:   | E214972                                                          |           |          |
| CSA:  | 1273303                                                          |           |          |
| VDE:  | 40002226                                                         |           |          |
| CCC:  | 2011010203500398 – 1 Amp Rated                                   |           |          |
|                                                                                        | 2011010203500399 – 5 Amp Rated                                   |           |          |
|                                                                                        | 2011010203500400 – 8 Amp Rated                                   |           |          |
|                                                                                        | Approvals pending for PX0413 series.                             |           |          |
|                                                                                        | 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                   |
| <b>RoHS</b>           | Compliant                 |

#### Mechanical:

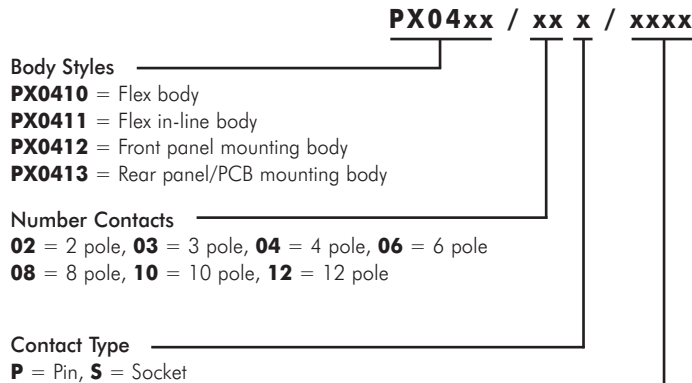
|                             |                                                                                 |     |     |     |     |     |     |
|-----------------------------|---------------------------------------------------------------------------------|-----|-----|-----|-----|-----|-----|
| Sealing:                    | IP68, EN 60529 tested @ 1.054kg/sq cm (15lb/sq in) 10m depth for 2 weeks        |     |     |     |     |     |     |
| Cable Acceptance:           | 3.0 - 7.0mm                                                                     |     |     |     |     |     |     |
| Contact Accommodation:      | 2, 3 pole, 20 - 24 AWG<br>4, 6, 8 pole, 22 - 26 AWG<br>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:      |                                                                                 |     |     |     |     |     |     |
| 3mm dia                     | 60N                                                                             |     |     |     |     |     |     |
| 4.7mm 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 |

## 400 Series Buccaneer

### PART NO. SYSTEM



#### For PX0410 and PX0411 cable connectors - Cable Entry Size:

|                                        |                                    |
|----------------------------------------|------------------------------------|
| <b>3035</b> = 3.0 - 3.5mm (Light Grey) | <b>5055</b> = 5.0 - 5.5mm (Yellow) |
| <b>3540</b> = 3.5 - 4.0mm (Grey)       | <b>5560</b> = 5.5 - 6.0mm (Blue)   |
| <b>4045</b> = 4.0 - 4.5mm (Green)      | <b>6065</b> = 6.0 - 6.5mm (White)  |
| <b>4550</b> = 4.5 - 5.0mm (Red)        | <b>6570</b> = 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

### ORDERING INFORMATION

- Determine body style, i.e. PX0410 = flex body, PX0411 = flex in-line body.
- Determine number of contacts & type, i.e. 02 = 2 way, P = pin contacts.
- Determine cable range, i.e. 3035 = 3.0 to 3.5mm cable accommodation, not required for PX0412 or PX0413 (panel connectors).
- Choose appropriate contacts pack, i.e. SA3350 = pin contacts suitable for 2 & 3 way connectors, supplied in pack quantities of 10. Not needed for PX0413/PC as pre-loaded.
- Is a sealing cap required?
- Is an insertion tool required?
- Is a crimp tool required?

#### 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).