

# BUCCANEER FOR DATA

## 6000 Series Ethernet Buccaneer

Thermo-plastic version

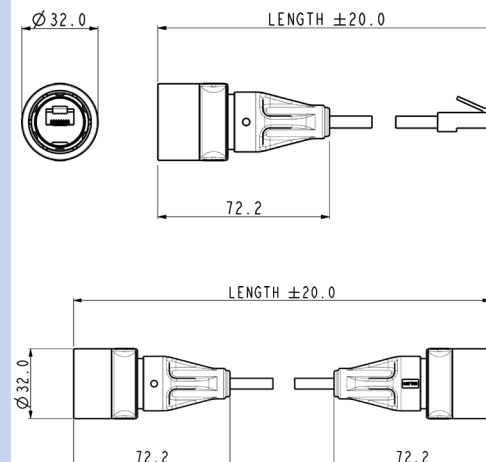


### Patch Cord Flex Connector - Pur Jacket Cable



PXP6037

- Mates with PXP6033TP type panel mounting connectors
- 30° twist locking
- Overmoulded patchcords with IP rated connector
- Supplied with shielded RJ45 plug
- Single or double end terminated
- Standard lengths: 2m, 3m&5m
- S-FTP cable construction
- PUR jacket cable
- Wiring configuration to 568-B
- Exceeds EIA/TIA Cat 5e



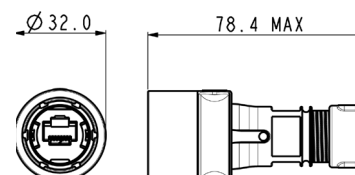
| Part no      | Type         | Length | Description                          |
|--------------|--------------|--------|--------------------------------------|
| PXP6037/2M00 | Single ended | 2m     | IP RJ Buccaneer to Shielded RJ45     |
| PXP6037/3M00 | Single ended | 3m     | IP RJ Buccaneer to Shielded RJ45     |
| PXP6037/5M00 | Single ended | 5m     | IP RJ Buccaneer to Shielded RJ45     |
| PXP6038/2M00 | Double ended | 2m     | IP RJ Buccaneer to IP68 RJ Buccaneer |
| PXP6038/3M00 | Double ended | 3m     | IP RJ Buccaneer to IP68 RJ Buccaneer |
| PXP6038/5M00 | Double ended | 5m     | IP RJ Buccaneer to IP68 RJ Buccaneer |

### Rewireable Flex Connector



PXP6034

- Mates with PXP6033TP type panel mounting connectors
- 30° twist locking
- Supplied with shielded RJ45 plug
- Two versions:  
for PUR jacket cable (Cat 5e)  
for other cable sizes from  
4.0 to 10.0mm dia.



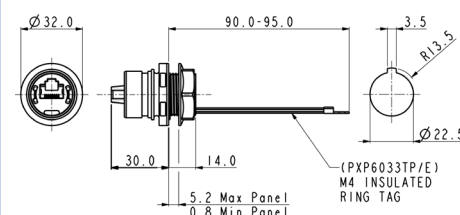
| Part no   | Description                                                                |
|-----------|----------------------------------------------------------------------------|
| PXP6034/A | Cable glands optimised for PUR jacket cable to maintain Cat 5e performance |
| PXP6034/B | Suitable for use with cables from 4.0 to 10.0mm diameter                   |

### Front Panel Mounting Connector



PXP6033TP

- Sealed through panel
- Cat 5e shielded coupler
- Mates with all plastic flex connectors
- Standard RJ45 patchcord can be plugged into rear
- Version with earth wire available
- Single hole fixing
- Complete with panel sealing gasket



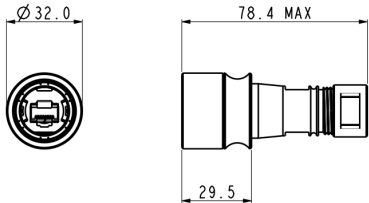
| Part no     | Description                 | Fixing                                     |
|-------------|-----------------------------|--------------------------------------------|
| PXP6033TP   | Cat 5e coupler              | Front panel mounted - sealed through panel |
| PXP6033TP/E | Cat 5e coupler + earth wire | Front panel mounted - sealed through panel |

Re-wireable Flex Connector



PXM6034

- Mates with PXM6033TP type panel mounting connectors
- 30° twist locking
- Supplied with shielded RJ45 plug
- Two versions:  
for PUR jacket cable (Cat 5e)  
for other cable sizes from 4.0 to 10.0mm dia.



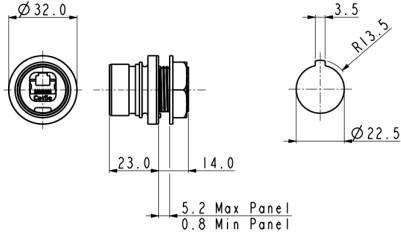
| Part no   | Description                                                                |
|-----------|----------------------------------------------------------------------------|
| PXM6034/A | Cable glands optimised for PUR jacket cable to maintain Cat 5e performance |
| PXM6034/B | Suitable for use with cables from 4.0 to 10.0mm diameter                   |

Front Panel Mounting Connector



PXM6033

- Sealed through panel
- Cat 5e shielded coupler
- Mates with PXM6034 type flex connectors
- Standard RJ45 patchcord can be plugged into rear
- Connector shell ground to cable screen
- Single hole fixing
- Complete with panel sealing gasket



| Part no   | Description    | Fixing                                     |
|-----------|----------------|--------------------------------------------|
| PXM6033TP | Cat 5e coupler | Front panel mounted - sealed through panel |

Accessories For Ethernet Connectors

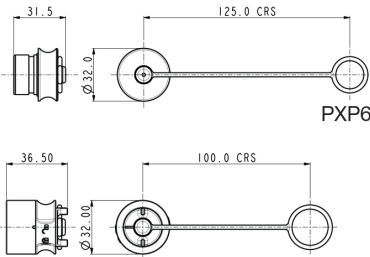


PXM6034

Plastic connectors

- PXP6081 for cable connectors PXP6034, PXP6037 & PXP6038
- PXP6083 for front panel mount connectors PXP6033, with 30° twist lock

Sealing caps to maintain IP rating when connectors are not in use



PXP6081

PXP6083

| Part no | Description                                            |
|---------|--------------------------------------------------------|
| PXP6081 | Sealing Cap for plastic Flex cable connectors          |
| PXP6083 | Sealing Cap for plastic front panel mounting connector |

Accessories For Ethernet Connectors

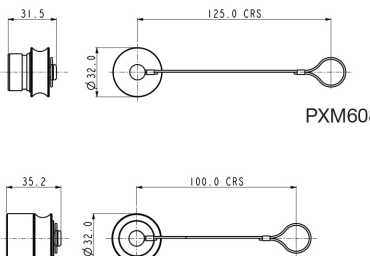


PXM6033

Metal connectors

- PXM6081 for cable connectors PXM6034
- PXM6083 for front panel mount connectors

Sealing caps to maintain IP rating when connectors are not in use



PXM6081

PXM6083

| Part no | Description                                          |
|---------|------------------------------------------------------|
| PXM6081 | Sealing Cap for metal Flex cable connectors          |
| PXM6083 | Sealing Cap for metal front panel mounting connector |
| 14151   | Hand crimp tooling + die set                         |
| 14199   | PUR Jacket cable - 50m reel                          |
| 14150   | Replacement shielded RJ45                            |



| PX X                                                      | / | 6XXX                                                                                                                                    | / | XX                                                                                                                      | / | X                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-----------------------------------------------------------|---|-----------------------------------------------------------------------------------------------------------------------------------------|---|-------------------------------------------------------------------------------------------------------------------------|---|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Series Designation</b><br>PXP - Plastic<br>PXM - Metal |   | <b>Series / Body Style</b><br>033 = Panel<br>034 = Re-wireable Flex<br>037 = Patchcord (Single Ended)<br>038 = Patchcord (Double Ended) |   | <b>Panel Sealing</b><br>TP = through panel sealing (for use with PXP6033 panel body only)<br><br>Blank = not applicable |   | <b>Characteristics</b><br>E = Earth lead (for use with PXP6033 plastic panel body only)<br>A = Glanding for PUR cable (for use with PXP6034 re-wireable flex only)<br>B = Glanding for 3.5 to 8mm cables (for use with PXP6034 re-wireable flex only)<br>2M00 = 2 metre cable length (for use with PXP6037 and PXP6038 patchcords only)<br>3M00 = 3 metre cable length (for use with PXP6037 and PXP6038 patchcords only)<br>5M00 = 5 metre cable length (for use with PXP6037 and PXP6038 patchcords only) |

Examples

- PXP6033TP/E= Panel mounted coupler, sealed through panel with earth lead
- PXP6037/2M00= Patchcord with one sealed end, 2 metres long
- PXM6034/A = Flex re-wireable connector for use with PUR cable
- PXM6033TP = Panel mounted coupler, through panel sealed

## Ethernet – Metal and Thermo-plastic versions

### Connectors

#### Mechanical

|                        |                                                                                                          |
|------------------------|----------------------------------------------------------------------------------------------------------|
| Sealing                | IP69K, DIN40050-9<br>IP68, EN60529:1992+A2:2013<br>(10m depth for 2 weeks)<br>IP66, EN60529:1992+A2:2013 |
| Salt Mist:             | EN60068-2-52 Test Kb Salt Mist<br>(Cyclic) Marine Severity Level 1                                       |
| Operating Temperature  |                                                                                                          |
| Re-wireable and Metal  | -20°C to +70°C                                                                                           |
| Overmoulded patchcords | 0°C to +70°C                                                                                             |

#### Materials - Overmoulded

|                     |             |
|---------------------|-------------|
| Overmould material  | PVC (black) |
| Flammability rating | UL94V-0     |

#### Materials - Re-wireable and Panel Connectors

|                       |                               |
|-----------------------|-------------------------------|
| Plastic               | PC/PBT                        |
| Metal                 | Machined Brass, Nickel Plated |
| Flammability rating   | UL94V-0                       |
| 'O' rings             | Silicone                      |
| Panel Gasket - round  | Silicone                      |
| Panel Gasket - flange | Silicone                      |
| Approvals             |                               |

|      |           |
|------|-----------|
| RoHS | Compliant |
|------|-----------|

#### Stranded S-FTP Patch cord cable - PUR Jacket

Polyurethane (PUR) jacket cable with internal construction exceeding Cat 5e performance levels. The PUR jacket has excellent abrasion, chemical and ozone resistance, low smoke, low halogen flame retardant construction suitable for internal and external industrial environments.

#### Cable

|                  |                                                                 |
|------------------|-----------------------------------------------------------------|
| Conductors       | 24AWG (7/0.2mm) bare copper                                     |
| Insulation       | HD-PE                                                           |
| Pair             | 2 of the above cores twisted                                    |
| Core             | 4 of the above cores                                            |
| Tape             | 1 lap mylar tape                                                |
| Screen           | 1 layer mylar and aluminium tape,<br>0.12mm tinned copper braid |
| Sheath           | PUR Jacket Black                                                |
| Op Temperature   | -25°C to +85°C                                                  |
| Min. bend radius | 10 x o/d (installation)                                         |
| Min. bend radius | 6 x o/d (installed)                                             |
| Diameter         | 6.1mm nominal                                                   |

#### Electrical @ 20°C

|                           |                       |
|---------------------------|-----------------------|
| Characteristic Impedance  | 100Ω ±15Ω @ 100MHz    |
| Capacitance               | 330pF/km              |
| Conductor Loop resistance | 29Ω/100m maximum      |
| Skew                      | 45 nsec/100m @ 100MHz |
| TIA/EIA Rating            | Cat 5e & POE          |

#### Cable construction - PXP6037, PXP6038 and 14199

### PCB adaptor leads

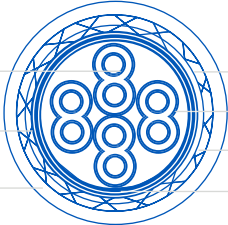
#### Electrical

|                    |            |
|--------------------|------------|
| No. of conductors  | 4          |
| Current rating     | 350mA      |
| Voltage rating     | 37V - 57V  |
| Contact resistance | <10mΩ max. |
| PCB pitch          | 2.54mm     |

#### Materials

|                       |                    |
|-----------------------|--------------------|
| Moulding              | Polycarbonate      |
| Flammability          | UL94V-0            |
| Contact material      | Copper Alloy       |
| Contact plating       | 30 micro inch Gold |
| Wire insulation       | PVC (black)        |
| Flammability          | UL94-V0            |
| Conductors            | 4 x 28AWG          |
| Operating temperature | 0°C to +70°C       |
| Mating cycles         | 1,000              |
| RoHS                  | Compliant          |

### Cable construction - PXP6040, PXP6041

|                                |                                                                                      |                     |
|--------------------------------|--------------------------------------------------------------------------------------|---------------------|
| 24 AWG -<br>7/0.20mm conductor |  | Mylar tape          |
| Braiding<br>7/0.12mm           |                                                                                      | Insulation - HD-PE  |
| Jacket<br>6.10mm dia.          |                                                                                      | Aluminium/PEPT tape |
|                                |                                                                                      | Drain Wire          |