

Designed for demanding applications, our sealed RJ45 connectors—including the robust **6000 Series Ethernet**— deliver up to Cat 6a performance, or high performance Cat 5e and Cat 6a ethernet connections while withstanding the toughest environmental conditions. Engineered to ensure fast, reliable data transmission, these industrial-grade solutions protect network integrity even in the most challenging settings.

With **IP68, and IP69K** ratings, our waterproof circular RJ45 connectors are ideal for outdoor and industrial use across markets such as Industrial Automation, Automotive and Marine—setting the gold standard in sealed Ethernet connectivity.

- IP68 when mated, Tested in accordance with EN60529:1992+A2:2013
- IP69K when mated, Tested in accordance with DIN 40050/Part 9 IP69K
- EN60068-2-52 Test Kb Salt Mist (Cyclic) Marine Severity Level 1
- Secure, proven 30 degree twist lock locking mechanism
- PUR / PVC Jacket on cable
- Chemical resistance & flame retardant
- Data rates up to 10Gbps
- Backwards compatibility throughout
- Cat 5e or Cat 6a Shielded coupler
- Rewireable Flex connector up to Cat 6a
- Field termination up to Cat 6a
- Earth lead version of panel mounting coupler
- High noise immunity, full shielding and EMI protection
- Power over Ethernet (PoE) compliant



BUCCANEER FOR DATA
6000 Series - Ethernet Buccaneer

Thermo-plastic version

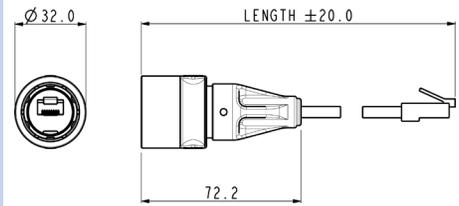


Patch Cord Flex Connector - PUR Jacket Cable



PXP6037
 PXP6097

- Mates with front panel mounting connectors
- 30° twist locking
- Overmoulded patchcords with IP68 rated connector
- Supplied with shielded RJ45 plug
- Single end terminated
- Standard lengths: 2m, 3m & 5m
- S-FTP cable construction
- PUR jacket cable
- Wiring configuration to 568-B
- Cat 5e & Cat 6a options



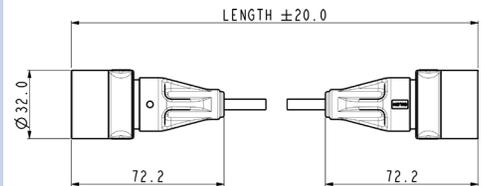
| Part no | Type | Length | Description |
|--------------|--------------|--------|---|
| PXP6037/2M00 | Single ended | 2m | IP68 rated Cat 5e RJ45 Buccaneer to Cat 5e RJ45 |
| PXP6037/3M00 | Single ended | 3m | IP68 rated Cat 5e RJ45 Buccaneer to Cat 5e RJ45 |
| PXP6037/5M00 | Single ended | 5m | IP68 rated Cat 5e RJ45 Buccaneer to Cat 5e RJ45 |
| PXP6097/2M00 | Single ended | 2m | IP68 rated Cat 6a RJ45 Buccaneer to Cat 6a RJ45 |
| PXP6097/3M00 | Single ended | 3m | IP68 rated Cat 6a RJ45 Buccaneer to Cat 6a RJ45 |
| PXP6097/5M00 | Single ended | 5m | IP68 rated Cat 6a RJ45 Buccaneer to Cat 6a RJ45 |

Patch Cord Flex Connector - PUR Jacket Cable



PXP6038
 PXP6098

- Mates with front panel mounting connectors
- 30° twist locking
- Overmoulded patchcords with IP68 rated connector
- Supplied with shielded RJ45 plug
- Double end terminated
- Standard lengths: 2m, 3m & 5m
- S-FTP cable construction
- PUR jacket cable
- Wiring configuration to 568-B
- Cat 5e & Cat 6a options



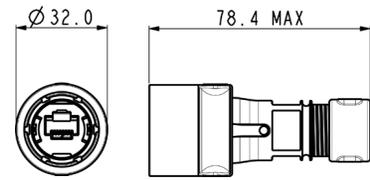
| Part no | Type | Length | Description |
|--------------|--------------|--------|--|
| PXP6038/2M00 | Double ended | 2m | IP68 rated Cat 5e RJ45 Buccaneer to IP68 rated Cat 5e RJ45 |
| PXP6038/3M00 | Double ended | 3m | IP68 rated Cat 5e RJ45 Buccaneer to IP68 rated Cat 5e RJ45 |
| PXP6038/5M00 | Double ended | 5m | IP68 rated Cat 5e RJ45 Buccaneer to IP68 rated Cat 5e RJ45 |
| PXP6098/2M00 | Double ended | 2m | IP68 rated Cat 6a RJ45 Buccaneer to IP68 rated Cat 6a RJ45 |
| PXP6098/3M00 | Double ended | 3m | IP68 rated Cat 6a RJ45 Buccaneer to IP68 rated Cat 6a RJ45 |
| PXP6098/5M00 | Double ended | 5m | IP68 rated Cat 6a RJ45 Buccaneer to IP68 rated Cat 6a RJ45 |

Rewireable Flex Connector



PXP6034
 PXP6094

- Mates with panel mounting connectors
- 30° twist locking
- Supplied with shielded RJ45 plug
- Three versions:
- For PUR Cat 5e Cable
- For other Cat 5e Cable sizes from 4-7mm dia.
- For Cat 6a Cable sizes from 4-7mm dia.



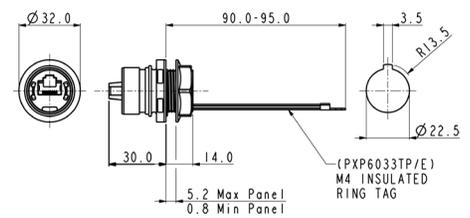
| Part no | Description |
|-----------|---|
| PXP6034/A | IP68 rated Cat 5e RJ45 Rewireable Connector for use with PUR 4-5mm diameter cable |
| PXP6034/B | IP68 rated Cat 5e RJ45 Rewireable Connector for use with 4-7mm diameter cable |
| PXP6094/B | IP68 rated Cat 6a RJ45 Rewireable Connector for use with 4-7mm diameter cable |

Front Panel Mounting Connector



PXP6033TP
 PXP6093TP

- Sealed through panel
- Cat 5e or Cat 6a 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



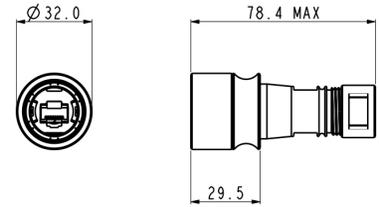
| Part no | Description | Fixing |
|-------------|-----------------------------|--|
| PXP6033TP | Cat 5e coupler | Front panel mounted - sealed through panel |
| PXP6033TP/E | Cat 5e coupler + earth wire | Front panel mounted - sealed through panel |
| PXP6093TP | Cat 6a Coupler | Front panel mounted - sealed through panel |
| PXP6093TP/E | Cat 6a Coupler + earth wire | Front panel mounted - sealed through panel |

Re-wireable Flex Connector



PXM6034
 PXM6094

- Mates with metal panel mounting connectors
- 30° twist locking
- Supplied with shielded RJ45 plug
- For three versions:
- For PUR Cat 5e Cable
- For other Cat 5e Cable sizes from 4-7mm diameter
- For Cat 6a Cable sizes from 4-7mm diameter



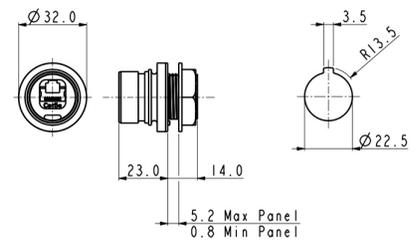
| Part no | Description |
|-----------|---|
| PXM6034/A | IP68 rated Cat 5e RJ45 Rewireable Connector for use with PUR 4-5mm diameter cable |
| PXM6034/B | IP68 rated Cat 5e RJ45 Rewireable Connector for use with 4-7mm diameter cable |
| PXM6094/B | IP68 rated Cat 6a RJ45 Rewireable Connector for use with 4-7mm diameter cable |

Front Panel Mounting Connector



PXM6033
 PXM6093

- Sealed through panel
- Cat 5e or Cat 6a shielded coupler
- Mates with all metal flex connectors
- Standard RJ45 patchcord can be plugged into rear
- Connector shell ground to cable screen
- Single hole fixing
- Complete with panel sealing gasket



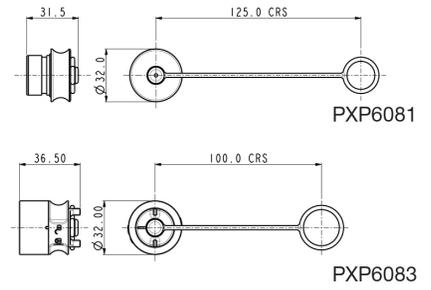
| Part no | Description | Fixing |
|-----------|----------------|--|
| PXM6033TP | Cat 5e Coupler | Front panel mounted - sealed through panel |
| PXP6093TP | Cat 6a Coupler | Front panel mounted - sealed through panel |

Sealing Caps



PXP6083 & PXP6081

- Sealing caps to maintain IP rating when connectors are not in use
- PXP6081 & PXP6083 for cable connectors with 30°twist lock



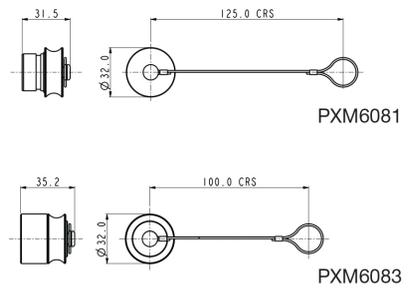
| Part no | Description |
|---------|--|
| PXP6081 | Sealing Cap for plastic Flex cable connectors |
| PXP6083 | Sealing Cap for plastic front panel mounting connector |

Sealing Caps



PXM6083 & PXM6081

- Sealing caps to maintain IP rating when connectors are not in use
- PXM6081 & PXM6083 for cable connectors



| 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 Cat 5e cable |
| 14150 | Replacement shielded Cat 5e RJ45 |
| 15240 | Replacement shielded Cat 6a RJ45 |
| 15241 | PVC Jacket Cat 6a Cable - 50m reel |



| Series Designation | Series / Body Style | Panel Sealing | Characteristics |
|------------------------------|---|---|--|
| PXP - Plastic PXM - Metal | 033 = Cat 5e Panel 034 = Cat 5e Re-wireable Flex 037 = Cat 5e Patchcord (Single Ended) 038 = Cat5e Patchcord (Double Ended) 093 = Cat 6a Panel 094 = Cat 6a Re-Wireable Flex 097 = Cat 6a Patchcord (Single Ended) 098 = Cat 6a Patchcord (Double Ended) | TP = through panel sealing (for use with panel body only) Blank = not applicable | E = Earth lead (for use with plastic panel body only) A = Glanding for PUR cable (for use with re-wireable flex only) B = Glanding for 3.5 to 8mm cables (for use with re-wireable only) 2M00 = 2 metre cable length (for use with PXP6037 and PXP6038 patchcords only) 3M00 = 3 metre cable length (for use with PXP6037 and PXP6038 patchcords only) 5M00 = 5 metre cable length (for use with PXP6037 and PXP6038 patchcords only) XM00 = X metre cable length (for use with PXP60X7 and PXP60X8) |

Examples

- PXP6033TP/E = Cat 5e panel mounted coupler, sealed through panel with earth lead
- PXP6037/2M00 = Cat 5e patchcord with one sealed end, 2 metres long
- PXM6034/A = Cat 5e flex re-wireable connector for use with PUR cable
- PXM6033TP = Cat 5e panel mounted coupler, through panel sealed

Ethernet – Metal and Thermo-plastic versions

Connectors

| | |
|------------------------|--|
| Mechanical | |
| Sealing | IP69K, DIN40050-9 IP68, EN60529:1992+A2:2013 (10m depth for 2 weeks) |
| Salt Mist: | EN60068-2-52 Test Kb Salt Mist (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 or Cat 6a 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-Cat5e

| | |
|------------------|---|
| 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, 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 |

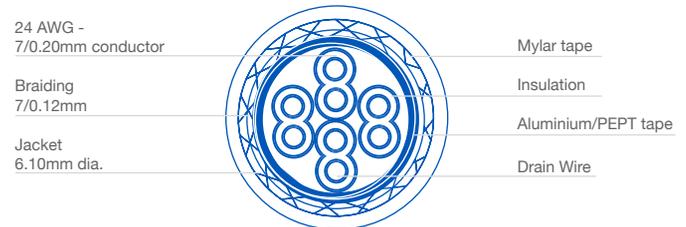
Cable-Cat6a

| | |
|------------------|---|
| Conductors | 26AWG (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, 0.10mm tinned copper braid |
| Sheath | PUR Jacket Black |
| Op Temperature | -25°C to +80°C |
| Min. bend radius | 10 x O/D (installation) |
| Min. bend radius | 6 x O/D (installed) |
| Diameter | 6.0mm nominal |

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 | UL94V-0 |
| Conductors | 4 x 28AWG |
| Operating temperature | 0°C to +70°C |
| Mating cycles | 1,000 |
| RoHS | Compliant |

Cable construction - Cat 5e



Cable construction - Cat 6a

