

6000 Series Buccaneer - **circular connectors** that combine the ease of use of a **push/pull** coupling **mechanism** with proven environmental sealing. The series supports **USB, Ethernet, and HDMI**, engineered to perform in extreme conditions.

Designed and independently tested to **IP68 & IP69K** standards, they are ideal for applications where ingress of dust and water must be avoided and where ease of connection, space and appearance are important considerations.

6000 Series Data Connectors – USB | Ethernet | HDMI

- Connector Types: USB (Type A & B), Ethernet, HDMI
- Locking Mechanism: 30° quick-turn for fast, secure engagement
- Environmental Protection: IP68, IP69K rated
- USB Standards Supported: USB 2.0 (4-contact), USB 3.0 (9-contact)
- Materials: Metal (Ethernet only) and durable plastic housing
- Applications: Industrial, marine, and harsh environment use
- Features: Waterproof circular connectors, plug-and-play simplicity, compact design



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

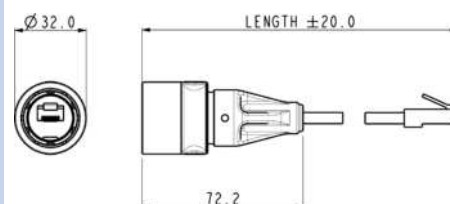


Patch Cord Flex Connector - PUR Jacket Cable



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



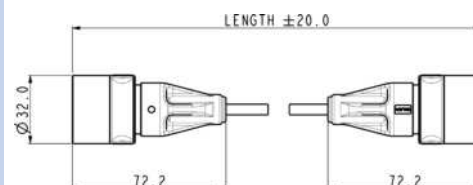
Part no	Type	Length	Description
PXP6037/2M00	Single ended	2m	IP68 rated Cat 5e RJ45 Buccaneer to Cat 5e RJ45
PXP6037/3M00	Single ended	3m	IP68 rated Cat 5e RJ45 Buccaneer to Cat 5e RJ45
PXP6037/5M00	Single ended	5m	IP68 rated Cat 5e RJ45 Buccaneer to Cat 5e RJ45
PXP6097/2M00	Single ended	2m	IP68 rated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

BUCCANEER FOR DATA

6000 Series - Ethernet Buccaneer

Thermo-plastic version

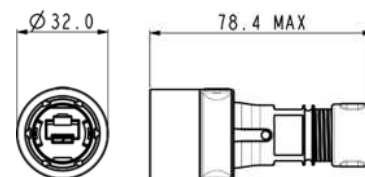


Rewireable Flex Connector



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.



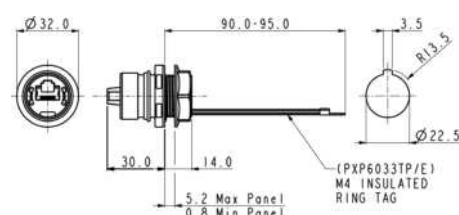
Part no	Description
PXP6034/A	IP68 rated Cat 5e RJ45 Rewireable Connector for use with PUR 4-5mm diameter cable
PXP6034/B	IP68 rated Cat 5e RJ45 Rewireable Connector for use with 4-7mm diameter cable
PXP6094/B	IP68 rated Cat 6a RJ45 Rewireable Connector for use with 4-7mm diameter cable

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

BUCCANEER FOR DATA

6000 Series - Ethernet Buccaneer

Metal version

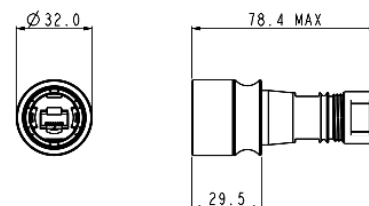


Re-wireable Flex Connector



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



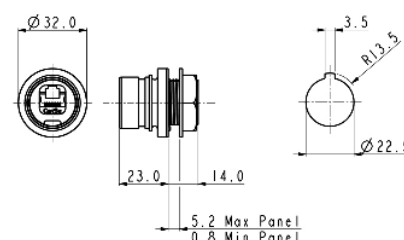
Part no	Description
PXM6034/A	IP68 rated Cat 5e RJ45 Rewireable Connector for use with PUR 4-5mm diameter cable
PXM6034/B	IP68 rated Cat 5e RJ45 Rewireable Connector for use with 4-7mm diameter cable
PXM6094/B	IP68 rated Cat 6a RJ45 Rewireable Connector for use with 4-7mm diameter cable

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



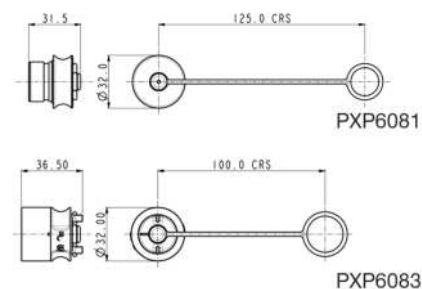
Part no	Description	Fixing
PXM6033TP	Cat 5e Coupler	Front panel mounted - sealed through panel
PXP6093TP	Cat 6a Coupler	Front panel mounted - sealed through panel

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



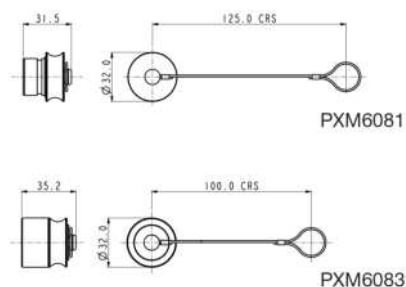
Part no	Description
PXP6081	Sealing Cap for plastic Flex cable connectors
PXP6083	Sealing Cap for plastic front panel mounting connector

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

PXX	6XXX	XX	X or XXXX
Series Designation PXP - Plastic PXM - Metal	Series / Body Style 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)	Panel Sealing TP = through panel sealing (for use with panel body only) Blank = not applicable	Characteristics 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 (Plastic):	EN60068-2-52 Test Kb Salt Mist (Cyclic) Marine Severity Level 1
Salt Mist (Metal):	EN60068-2-11 Test Ka Salt Mist
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

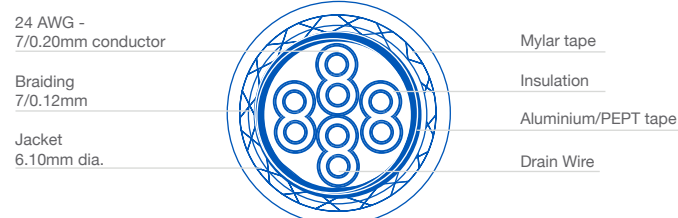
Electrical

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

