

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 **IP66, 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: IP66, 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 Cat6a performance, or high performance Cat5e and Cat6a 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 **IP67, 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

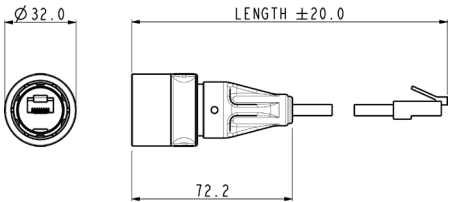


Patch Cord Flex Connector - PUR Jacket Cable



PXP6037
PXP6097

- Mates with front 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
- Cat 5e & Cat6a Options



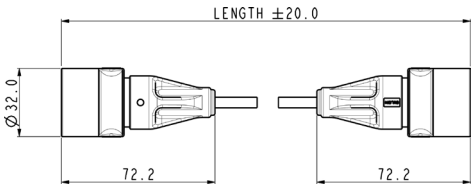
| Part no | Type | Length | Description |
|--------------|--------------|--------|--|
| PXP6037/2M00 | Single ended | 2m | IP68 rated Cat5e RJ45 Buccaneer to Cat5e RJ45 |
| PXP6037/3M00 | Single ended | 3m | IP68 rated Cat5e RJ45 Buccaneer to Cat5e RJ45 |
| PXP6037/5M00 | Single ended | 5m | IP68 rated Cat5e RJ45 Buccaneer to Cat5e RJ45 |
| | | | |
| PXP6097/2M00 | Single ended | 2m | IP68 rated Cat6a RJ45 Buccaneer to Cat6a RJ45 |
| PXP6097/3M00 | Single ended | 3m | IP68 rated Cat6a RJ45 Buccaneer to Cat6a RJ45 |
| PXP6097/5M00 | Single ended | 5m | IP68 rated Cat6a RJ45 Buccaneer to Cat6a RJ45) |
| | | | |

Patch Cord Flex Connector - PUR Jacket Cable



PXP6038
PXP6098

- Mates with front 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
- Cat 5e & Cat6a Options



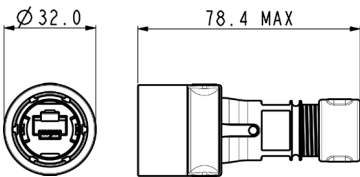
| Part no | Type | Length | Description |
|--------------|--------------|--------|---|
| PXP6038/2M00 | Double ended | 2m | IP68 rated Cat5e RJ45 Buccaneer to IP68 rated Cat5e RJ45 |
| PXP6038/3M00 | Double ended | 3m | IP68 rated Cat5e RJ45 Buccaneer to IP68 rated Cat5e RJ45 |
| PXP6038/5M00 | Double ended | 5m | IP68 rated Cat5e RJ45 Buccaneer to IP68 rated Cat5e RJ45 |
| | | | |
| PXP6098/2M00 | Double ended | 2m | IP68 rated Cat6a RJ45 Buccaneer to IP68 rated Cat6a RJ45 |
| PXP6098/3M00 | Double ended | 3m | IP68 rated Cat6a RJ45 Buccaneer to IP68 rated Cat6a RJ45 |
| PXP6098/5M00 | Double ended | 5m | IP68 rated Cat6a RJ45 Buccaneer to IP68 rated Cat6a RJ45) |
| | | | |

Rewireable Flex Connector



PXP6034
PXP6094

- Mates with panel mounting connectors
- 30° twist locking
- Supplied with shielded RJ45 plug
- Three versions:
- For PUR Cat5e Cable
- For other Cat5e Cable sizes from 4-7mm dia.
- For Cat6a Cable sizes from 4-7mm dia.



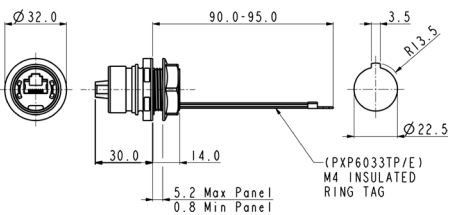
| Part no | Description |
|-----------|---|
| PXP6034/A | IP68 rated Cat 5e RJ45 Rewireable Connector for use with PUR 4-5mm cable |
| PXP6034/B | IIP68 rated Cat 5e RJ45 Rewireable Connector for use with 4-7mm cable |
| | |
| PXP6094/B | IP68 rated Cat 6a RJ45 Rewireable Connector for use with 4-7mm 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



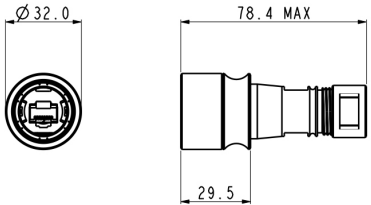
| Part no | Description | Fixing |
|--------------|-----------------------------|--|
| PXP6033TP | Cat 5e coupler | Front panel mounted - sealed through panel |
| PXP6033TP/E | Cat 5e coupler + earth wire | Front panel mounted - sealed through panel |
| | | |
| PXP6093/TP | Cat 6a Coupler | Front panel mounted - sealed through panel |
| PXP6093/TP/E | Cat 6a Coupler + earth wire | Front panel mounted - sealed through panel |

Re-wireable Flex Connector



PXM6034
PXM6094

- Mates with 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



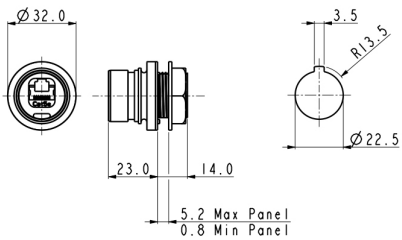
| Part no | Description |
|-----------|--|
| PXM6034/A | Cable glands optimised for PUR jacket cable to maintain Cat 5e performance |
| PXM6034/B | IP68 rated Cat 5e RJ45 Rewireable Connector for use with 4-7mm cable |
| PXM6094/B | IP68 rated Cat 6a RJ45 Rewireable Connector for use with 4-7mm diameter cables |

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



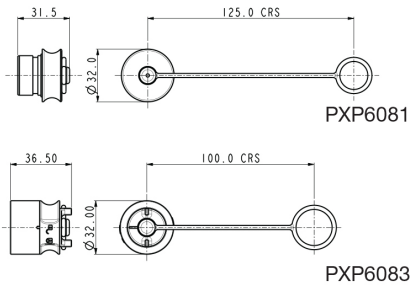
| Part no | Description | Fixing |
|------------|----------------|--|
| PXM6033TP | Cat 5e coupler | Front panel mounted - sealed through panel |
| PXP6093/TP | Cat 6a Coupler | Front panel mounted - sealed through panel |

Sealing Caps



PXP6083 & PXP6081

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



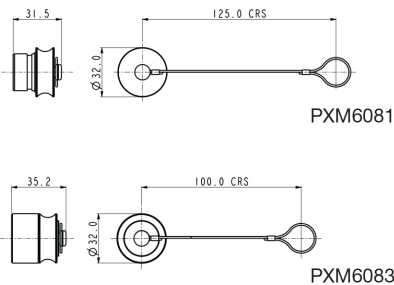
| Part no | Description |
|---------|--|
| PXP6081 | Sealing Cap for plastic Flex cable connectors |
| PXP6083 | Sealing Cap for plastic front panel mounting connector |
| | |

Sealing Caps



PXM6083 & PXM6081

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



| 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 Cat5e cable |
| 14150 | Replacement shielded Cat 5e RJ45 |
| 15240 | Replacement shielded Cat 6a RJ45 |
| 15241 | PVC Jacket Cat6a Cable - 50m reel |

| PX X | 6XXX | XX | X or XXXX |
|---|--|---|--|
| Series Designation PXP - Plastic PXM - Metal | Series / Body Style 033 = Cat5e Panel 034 = Cat5e Re-wireable Flex 037 = Cat5e Patchcord (Single Ended) 038 = Cat5e Patchcord (Double Ended) 093 = Cat6a Panel 094 = Cat6a Re-Wireable Flex 097 = Cat6a Patchcord (Single Ended) 098 = Cat6a 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 meter 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) IP66, EN60529:1992+A2:2013 |
| 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 Cat6a 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 | Cat5e & POE |

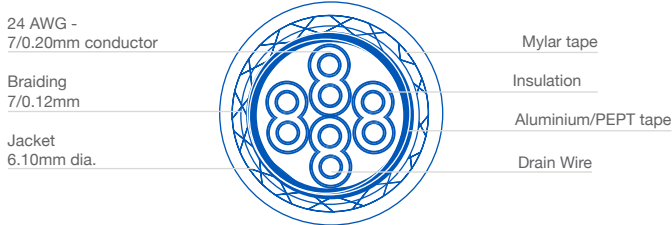
Cable-Cat6a

| | |
|------------------|---|
| 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 |

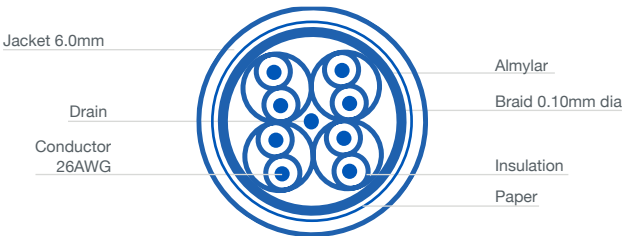
PCB adaptor leads

| | |
|-----------------------|--------------------|
| 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 | UL94-V0 |
| 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



The **6000 HDMI Buccaneer Series** offers robust and high performance connectivity solutions tailored for demanding industrial environments.

Rated IP69K when mated, ensuring superior protection against high-pressure and high-temperature water jets.

30° twist locking

Tamperproof lock prevents accidental un-mating

IP68 and IP69K when mated

Suitable for a wide range of dust and water borne environments

Independent sealing tests

IP Ratings independently verified

Plug and play capability

Hot pluggable, standard 4 Contact interface

Single and double ended cables

Suitable for PCB and peripheral configuration

Push-pull latching system

Secure, instant latching. Quick connector mating and release

Visual mating indication

Alignment indicator reduces risk of damage during mating

EN60068-2-52 Test Kb Salt Mist (Cyclic)

Marine Severity Level 1

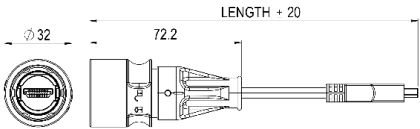


HDMI Cord Flex Connector – Single Ended



PXP6060

- Mates with all panel mount connectors
- 30° twist locking
- Overmoulded cable assemblies
- IP68 HDMI connector to standard HDMI connector
- Available in 2m, 3m & 5m lengths



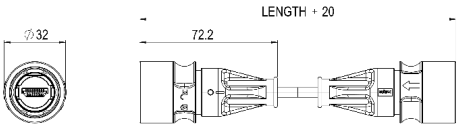
| Part no | Type | Length | Description |
|--------------|--------------|--------|---------------------------------------|
| PXP6060/2M00 | Single ended | 2m | IP68 HDMI male to standard HDMI male |
| PXP6060/3M00 | Single ended | 3m | IP68 HDMI male to standard HDMI male |
| PXP6060/5M00 | Single ended | 5m | IP68 HDMI male to standard HDMI male5 |
| | | | |

HDMI Cord Flex Connector – Double



PXP6061

- Mates with front panel mounting connectors
- 30° twist locking
- Supplied with shielded RJ45 plug
- Overmoulded cable assemblies
- IP68 HDMI connector to standard IP68 HDMI connector
- Available in 2m, 3m & 5m length



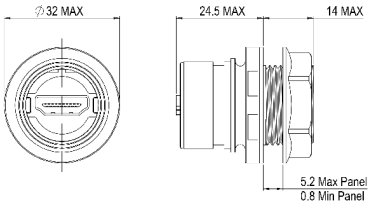
| Part no | Type | Length | Description |
|--------------|--------------|--------|----------------------------------|
| PXP6061/2M00 | Double ended | 2m | IP68 HDMI male to IP68 HDMI male |
| PXP6061/3M00 | Double ended | 3m | IP68 HDMI male to IP68 HDMI male |
| PXP6061/5M00 | Double ended | 5m | IP68 HDMI male to IP68 HDMI male |
| | | | |

Front panel mounting HDMI connector



PXP6062

- Mates with all 6000S HDMI flex connectors
- Standard HDMI Female socket on rear
- Single hole fixing
- IP68 when mated
- Complete with panel sealing gasket



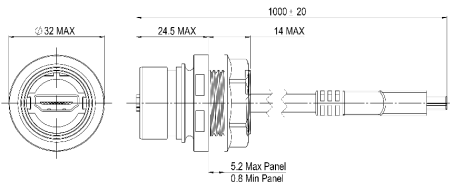
| Part no | Description | Fixing |
|---------|--------------|--|
| PXP6062 | HDMI coupler | Front panel mounted. Sealed IP68 at front, standard HDMI at rear |

Front panel mounting HDMI connector



PXP6062-1M00

- Mates with all 6000S HDMI flex connectors
- Standard HDMI Male plug on rear
- Single hole fixing
- IP68 when mated
- Complete with panel sealing gasket



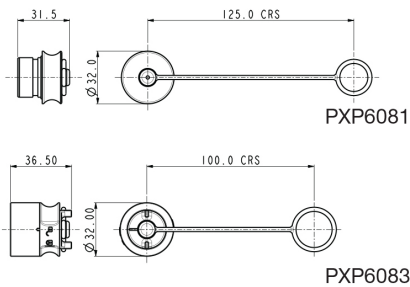
| Part no | Description | Fixing |
|--------------|-------------------------------|---|
| PXP6062-1M00 | HDMI Panel Mount with 1m Lead | Front panel mounted. Sealed IP68 at front, standard HDMI male at rear |

Sealing Caps



PXP6081 & PXP6083

- Plastic connectors for cable connectors
- PXP6081 for all cable connectors
- PXP6083 for front panel mount connectors with 30° twist lock
- Sealing caps to maintain IP rating when connectors are not in use



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

| PXP / 6XXX / XXXX | | |
|--------------------|---|--|
| Series Designation | Series / Body Style | Cable Length |
| | 060 = Single Ended 061 = Double Ended 062 = Front Panel Mount | Blank = With adaptor (PXP6062 only) 1M00 = 1 metre lead (PXP6062 only) 2M00 = 2 metre cable length 3M00 = 2 metre cable length 5M00 = 2 metre cable length |

Connectors

Mechanical

| | |
|------------|--|
| Sealing | IP69K, DIN40050-9 IP68, EN60529:1992+A2:2013 (10m depth for 2 weeks) IP66, EN60529:1992+A2:2013 |
| Salt Mist: | EN60068-2-52 Test Kb Salt Mist (Cyclic) Marine Severity Level 1 |

**Operating Temperature
Connectors**

| | |
|------------------------|--------------|
| Overmoulded patchcords | 0°C to +70°C |
|------------------------|--------------|

Materials - Overmoulded

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

Materials - Panel Connectors

| | |
|-------------------------------|------------|
| Shell material | Steel |
| Shell plating | Nickel |
| Contacting material | Brass |
| Contact plating | Tin & Gold |
| Connector body & locking ring | PC/PBT |
| Panel connector | PC/PBT |
| Flammability rating | UL94V-0 |
| 'O' rings | Silicone |
| Panel Gasket - round | Silicone |
| Mating cycles | 1,000 |
| RoHS | Compliant |

Materials - Cable

| | |
|---------------------|---------------------------|
| Cable Jacket | PVC(Black) |
| Braid | Aluminium-Magnesium Alloy |
| Screen Foil | Aluminium Foil |
| Insulation | HDPE and F-PE |
| Drain Wire | Tin Copper Alloy |
| Flammability Rating | UL94V-0 |

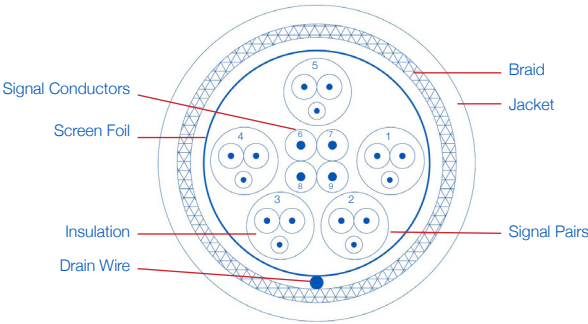
PCB adaptor leads

Electrical

| | |
|----------------------|--------------|
| No. of conductors | 19 |
| Current rating | 0.5A |
| Voltage rating | 30V AC (RMS) |
| Contact resistance | 40mΩ max. |
| Withstanding Voltage | 500V AC RMS |

| | |
|-------------|--|
| Performance | Ultra High Speed HDMI™ Cable with Ethernet |
|-------------|--|

Cable construction - PX0867, PX0868



| Length | Dia | Conductor Signal | Conductors Power |
|--------|-------|------------------|------------------|
| 2m | 6.0mm | 4 x 30AWG | 5 x 30AWGt |
| 3m | 6.0mm | 4 x 30AWG | 5 x 30AWG |
| 5m | 7.3mm | 1 x 28AWG | 4 x 28AWG |
| | | 3 x 30AWG | 1 x 32AWG |

6000 Series USB is a range of [waterproof circular connectors](#) that combine an easy to use 30 degree quick turn locking mechanism with proven environmental sealing. Our type 'A' or 'B' USB cable assemblies and panel mount receptacles enable simple and reliable plug and play connections in harsh environments.

Available in rugged plastic bodies, this [IP68/69K sealed](#) USB connector range is ideal for applications where ingress of dust and water must be avoided and where ease of connection, space and appearance are important considerations. .

[30° twist locking](#)

Tamperproof lock prevents accidental un-mating

[IP68 and IP69K when mated](#)

Suitable for a wide range of dust and water borne environments

[Independent sealing tests](#)

IP Ratings independently verified

[USB version 3.0 performance](#)

High speed bus connection, 1.5Mbps to 480Mbps

[Plug and play capability](#)

Hot pluggable, standard 4 Contact interface

[Single and double ended cables](#)

Suitable for PCB and peripheral configuration

[Push-pull latching system](#)

Secure, instant latching. Quick connector mating and release

[Visual mating indication](#)

Alignment indicator reduces risk of damage during mating

[EN60068-2-52 Test Kb Salt Mist \(Cyclic\)](#)

Marine Severity Level 1



Sealed USB Cables - Single Ended



PXP6040/A



PXP6040/B



PXP6040/AA

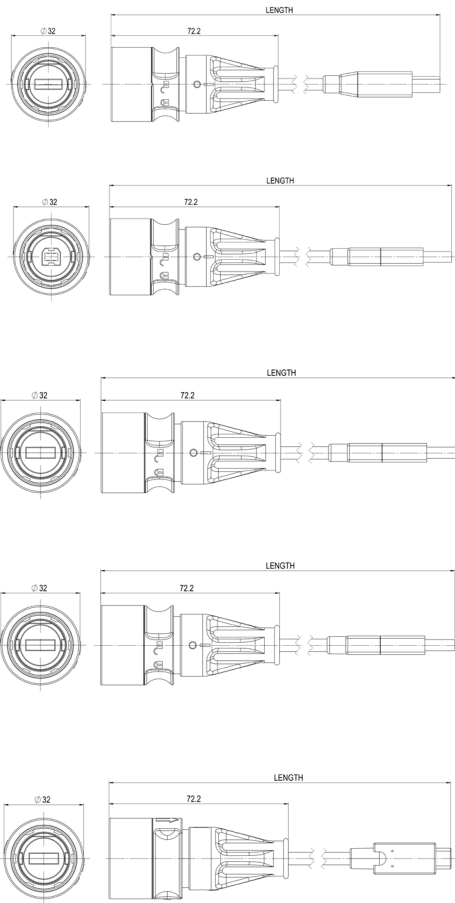


PXP6040/AA3



PXP6040/AC

- Single ended sealed cable assembly
- Mates with equivalent panel mounting connectors
- 30° twist locking
- USB connector, mates with all panel mount connectors
- Available in 2m, 3m & 5m lengths
- Three offerings:
 - IP rated 'A' type USB 2.0 connector to standard 'A' type USB connector, mates with all 'A' type panel mount connectors
 - IP rated 'A' type USB 3.0 connector to standard 'A' type USB connector, mates with all 'A' type panel mount connectors
 - IP rated 'A' type USB 3.0 connector to standard 'C' type USB connector (USB C connector for use with device side only), mates with all 'A' type panelmount connectors.



| Part no | Length | Description |
|------------------|--------|--|
| PXP6040/A/2M00 | 2m | IP rated A type USB to standard B type USB |
| PXP6040/A/3M00 | 3m | IP rated A type USB to standard B type USB |
| PXP6040/A/5M00 | 5m | IP rated A type USB to standard B type USB |
| PXP6040/B/2M00 | 2m | IP rated B type USB to standard A type USB |
| PXP6040/B/3M00 | 3m | IP rated B type USB to standard A type USB |
| PXP6040/B/5M00 | 5m | IP rated B type USB to standard A type USB |
| PXP6040/AA/2M00 | 2m | IP rated A type USB to Standard A type USB (USB 2.0) |
| PXP6040/AA/3M00 | 3m | IP rated A type USB to Standard A type USB (USB 2.0) |
| PXP6040/AA/5M00 | 5m | IP rated A type USB to Standard A type USB (USB 2.0) |
| PXP6040/AA3/2M00 | 2m | IP rated A type USB to Standard A type USB (USB 3.0) |
| PXP6040/AA3/3M00 | 3m | IP rated A type USB to Standard A type USB (USB 3.0) |
| PXP6040/AA3/5M00 | 5m | IP rated A type USB to Standard A type USB (USB 3.0) |
| PXP6040/AC/2M00 | 2m | IP rated A type USB to Standard C type USB (USB 3.0) |
| PXP6040/AC/3M00 | 3m | IP rated A type USB to Standard C type USB (USB 3.0) |
| PXP6040/AC/5M00 | 5m | IP rated A type USB to Standard C type USB (USB 3.0) |

Sealed USB Cables - Double Ended



PXP6041/AB

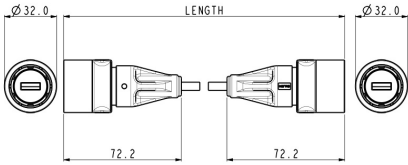
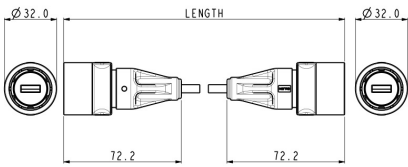
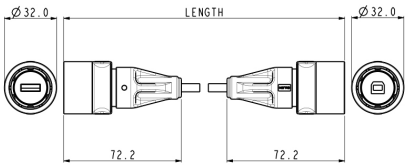


PXP6041/AA



PXP6041/AA3

- Single ended sealed cable assembly
- Mates with all panel mounting connectors
- 30° twist locking
- USB connector, mates with all panel mount connectors
- IP rated "A" type USB 3.0 connector to IP rated 'A' type USB 3.0 connector, mates with all 'A' type panel mount connectors
- USB connector, mates with all panel mount connectors
- Available in 2m, 3m & 5m lengths



| Part no | Length | Description |
|------------------|--------|--|
| PXP6041/AB/2M00 | 2m | IP rated A type USB to IP rated B type USB |
| PXP6041/AB/3M00 | 3m | IP rated A type USB to IP rated B type USB |
| PXP6041/AB/5M00 | 5m | IP rated A type USB to IP rated B type USB |
| | | |
| PXP6041/AA/2M00 | 2m | IP68 rated A type USB to standard A type USB (USB 2.0) |
| PXP6041/AA/3M00 | 3m | IP68 rated A type USB to standard A type USB (USB 2.0) |
| PXP6041/AA/5M00 | 5m | IP68 rated A type USB to standard A type USB (USB 2.0) |
| | | |
| PXP6041/AA3/2M00 | 2m | IP68 rated A type USB to IP68 rated A type USB (USB 3.0) |
| PXP6041/AA3/3M00 | 3m | IP68 rated A type USB to IP68 rated A type USB (USB 3.0) |
| PXP6041/AA3/5M00 | 5m | IP68 rated A type USB to IP68 rated A type USB (USB 3.0) |
| | | |

Front Panel Mounting Connector

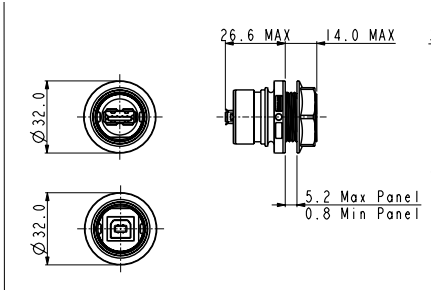


PXP6042/A
PXP6042/B



PXP6042/AA
PXP6042/AA3

- PXP6042/A - USB 'A' type IP rated connector
- PXP6042/B - USB 'B' type IP rated connector
- Opposite USB type connector to rear of panel
- Mates with PXP6040 and PXP6041 cable connectors



| Part no | Description |
|-------------|--|
| PXP6042/A | IP rated A type USB to IP rated B type USB |
| PXP6042/B | IP rated A type USB to IP rated B type USB |
| | |
| PXP6042/AA | IP68 rated A type USB to standard A type USB (USB 2.0) |
| PXP6042/AA3 | IP68 rated A type USB to standard A type USB (USB 3.0) |
| | |

Front Panel Mounting Connector

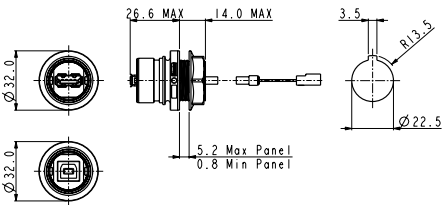


PXP6043/A
PXP6043/B



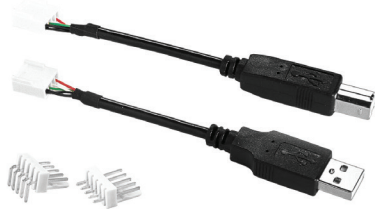
PXP6043/AA3

- PXP6043/A - USB 'A' type IP rated connector
- PXP6043/B - USB 'B' type IP rated connector
- PXP6043/A3 - USB 'A3' type IP rated connector
- Led with 5 or 10 way crimp connector
- Mates with PXP6040 and PXP6041 cable connectors

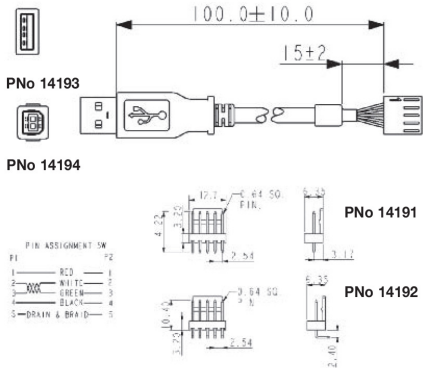


| Part no | Description |
|-------------|--|
| PXP6043/A | IP rated A type USB, front panel mounted. Sealed A type at front of panel, 5 way crimp connector at rear (USB 2.0). |
| PXP6043/B | IP rated B type USB, front panel mounted. Sealed B type at front of panel, 5 way crimp connector at rear (USB 2.0). |
| | |
| PXP6043/AA3 | IP rated A type USB, front panel mounted. Sealed A type at front of panel, 10 way crimp connector at rear (USB 3.0). |
| | |

PCB Adaptor Leads



- Standard A and B type USB connectors to 5 way crimp adaptor leads
- 5 way headers, 2.54mm pitch, horizontal or vertical mounting
- Standard A type USB 3.0 to 10-way crimp adaptor leads



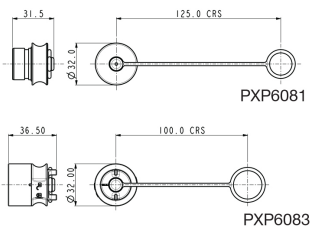
| Part no | | Description |
|---------|--|--|
| 14193 | | USB 2.0 'A' type to 5 way crimp connector |
| 14194 | | USB 2.0 'B' type to 5 way crimp connector |
| 100286 | | USB 3.0 'A' type to 10 way crimp connector |
| 14191 | | 5 way PCB header straight |
| 14192 | | 5 way PCB header right angle |
| 100287 | | 10 way PCB header straight |
| 100288 | | 10 way PCB header right angle |

Sealing Caps



PXP6081 & PXP6083

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



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

| PXP | 6XXX | X or XX | XXXX |
|--------------------|---|---|--|
| Series Designation | Series / Body Style | Characteristics | Cable length |
| | 040 = Single ended cable 041 = Double ended cable 042 = Panel with adaptor 043 = Panel with lead | A = 'A' type sealed to 'B' type open interface (USB 2.0) B = 'B' type sealed to 'A' type open interface (USB 2.0) AA = 'A' type to 'A' type open or sealed interfaces (USB 2.0) AA3 = 'A' type to 'A' type open or sealed interfaces (USB 3.0) AB = 'A' type sealed to 'B' type open interface (USB 2.0) AC = 'A' type sealed to 'C' type open interface (USB 3.0) | 2M00 = 2 metre cable length (for use with 6040 and 6041 cables only) 3M00 = 3 metre cable length (for use with 6040 and 6041 cables only) 5M00 = 5 metre cable length (for use with 6040 and 6041 cables only) Blank for 6042 & 6043 panel bodies |

Examples

PXP6040/A/2M00 = Cable assembly with sealed 'A' type connector to unsealed 'B' type connector, 2 metres long

PXP6042/A = Panel mounted adapter with sealed 'A' type to unsealed 'B' type at rear

PXP6042/AA = Panel mounted adapter with sealed 'A' type to unsealed 'A' type (USB 2.0) at rear

PXP6042/AA3 = Panel mounted adapter with sealed 'A' type to unsealed 'A' type (USB 3.0) at rear

Cables & connectors

Mechanical

| | |
|-----------------------|--|
| Sealing | IP69K, DIN40050-9 IP68, EN60529:1992+A2:2013 (10m depth for 2 weeks) IP66, EN60529:1992+A2:2013 |
| Salt Mist | EN60068-2-52 Test Kb Salt Mist (Cyclic) Marine Severity Level 1 |
| Operating temperature | 0°C to +70°C |

Electrical

| | |
|--------------------|-----------------|
| No. of Contacts | 4 |
| Current rating | 1A |
| Voltage rating | 30V AC (RMS) |
| Contact resistance | 30mΩ max. |
| Performance | USB version 2.0 |

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 |

Materials - cable

| | |
|--------------|---------------------|
| Cable Jacket | PVC (black) |
| Screen | Tinned copper braid |
| Flammability | UL94V-0 |
| RoHS | Compliant |

| Length: | Dia | Conductors | Conductors |
|---------|-------|------------|------------|
| | | Signal | Power |
| 2m | 4.8mm | 2 x 28AWG | 2 x 24AWG |
| 3m | 5.0mm | 2 x 28AWG | 2 x 22AWG |
| 5m | 5.2mm | 2 x 28AWG | 2 x 20AWG |

PCB adaptor leads

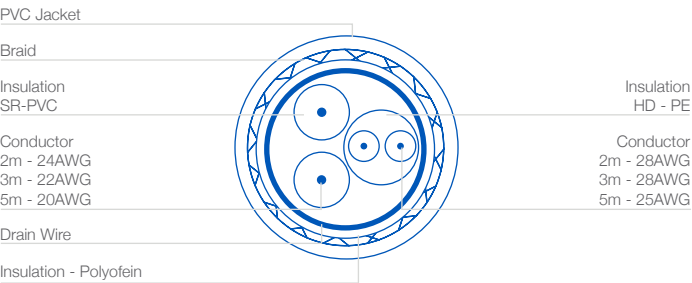
Electrical

| | |
|--------------------|--------------|
| No. of conductors | 4 |
| Current rating | 1A |
| Voltage rating | 30V AC (RMS) |
| 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/A, PXP6040/B, PXP6040/AA, PXP6041/AA



Cables & connectors

| | |
|--------------------------------------|--|
| Mechanical Sealing | IP68, EN60529:1992+A2:2013 (10m depth for 2 weeks) |
| | IP69K, Tested in accordance with DIN 40050/Part 9 IP6k9k |
| Operating temperature | 0°C to +70°C |
| Salt Mist | EN60068-2-52 Test Kb Salt Mist (Cyclic) Marine Severity Level 1 |
| Electrical No. of Contacts | 9 |
| Current rating | 1A |
| Voltage rating | 30V AC (RMS) |
| Contact resistance | 30m Ω max. |
| Performance | USB version 3.0 |

Materials - Overmoulded

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

Materials - Re-wireable and Panel Connectors

| | |
|-------------------------------|------------------------|
| Shell material | Steel |
| Shell plating | Nickel |
| Contact material | Copper Alloy |
| Contact plating | Gold |
| Connector body & locking ring | Glass Loaded Polyester |
| Panel connector | Acetal |
| Flammability rating | UL94 HB |
| 'O' rings | Silicone |
| Panel Gasket - round | Silicone |
| Panel Gasket - square | Neoprene |
| Mating cycles | 1,000 |
| RoHS | Compliant |

Materials - cable

| | |
|--------------|---------------------|
| Cable Jacket | PVC (black) |
| Screen | Tinned copper braid |
| Flammability | UL94V-0 |
| RoHS | Compliant |

| | | | |
|---------|-------|-----------------|-----------|
| Length: | Dia | Conductors | |
| | | Signal | Power |
| | | 5.5mm 7 x 28AWG | 2 x 24AWG |
| | | 5.5mm 7 x 28AWG | 2 x 24AWG |
| 1m | 5.5mm | 7 x 28AWG | 2 x 24AWG |
| 2m | 5.5mm | 7 x 28AWG | 2 x 24AWG |
| 3m | 5.5mm | 7 x 28AWG | 2 x 24AWG |

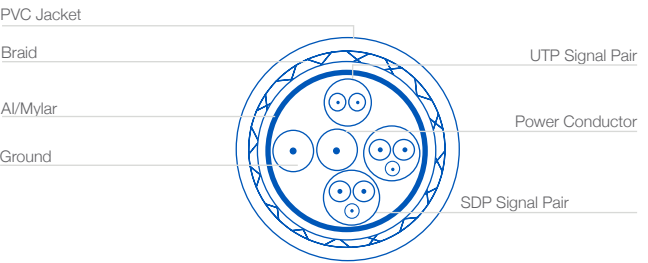
PCB adaptor leads

| | |
|--|--------------|
| Electrical No. of conductors | 9 |
| Current rating | 1A |
| Voltage rating | 30V AC (RMS) |
| Contact resistance | 30m Ω max. |
| PCB pitch | 2.54mm |

Materials

| | |
|-----------------------|---------------|
| Moulding | Polycarbonate |
| Flammability | UL94V-0 |
| Contact material | Copper Alloy |
| Contact plating | Gold |
| Wire insulation | PVC (black) |
| Flammability | UL94-V0 |
| Conductors | 9 x 28AWG |
| Operating temperature | 0°C to +70°C |
| Mating cycles | 1,000 |
| RoHS | Compliant |

USB 3.0 Cable construction - PXP6040/A3, PXP6040/AC, PXP6041/AA3, PXP6042/AA3



USB 3.0 Contact Diagram - PXP6040/AA, PXP6040/A3, PXP6040/AC, PXP6041/AA3, PXP6042/AA3

| P1 | TYPE | WIRE COLOUR | P2 |
|---------|------|-----------------|---------|
| +5V 1 | — | RED | 1 +5V |
| USB- 2 | ⌘ | WHITE / GREEN | 2 USB- |
| USB+ 3 | ⌘ | | 3 USB+ |
| GND 4 | — | BLACK | 4 GND |
| SSTX- 5 | ⌘ | BLUE / YELLOW | 5 SSTX- |
| SSTX+6 | ⌘ | | 6 SSTX+ |
| GND 7 | — | N/A | 7 GND |
| SSRX-8 | ⌘ | PURPLE / ORANGE | 8 SSRX- |
| SSRX+9 | ⌘ | | 9 SSRX+ |
| S | — | BRAID | S |