

Circular Data Connectors

Circular Data Connectors



A full range of IP68 rated environmentally sealed circular connectors designed to provide secure and safe connections in harsh or hostile conditions.

The Data Buccaneer range now includes designs specifically for Ethernet, USB and SMB applications. Ethernet Buccaneer meets Cat 5e requirements for data rates up to 100Mbps, USB Buccaneer is designed to meet USB version 2.0 specification for data rates up to 480Mbps, SMB Buccaneer has a frequency response up to 4GHz.

The Buccaneer series finds numerous applications either in external or internal environments where protection against the ingress of dust and moisture is a system requirement.







- O IP68 when mated, Tested in accordance with EN60529:1992+A2:2013
- Q 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 & reliable screw locking mechanism
- O PUR / PVC Jacket on cable
- O Chemical resistance & flame retardant
- O Cat 8 toolless Keystone IDC connector
- O Data rates up to 25Gbps

- Backwards compatibility throughout
- O 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
- O Cat 5e PCB Mount & IDC termination panel connector
- O High noise immunity, full shielding and EMI protection
- O Power over Ethernet (PoE) compliant

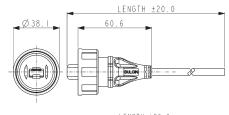


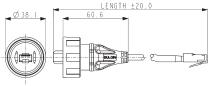
Patch Cord Flex Connector

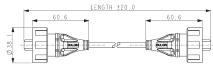


- Mates with all panel mounting connectors
- O Patchcords with IP68 connector
- O Supplied with shielded RJ45 plug
- Single or double end terminated
- O Standard lengths: 2m, 3m & 5m
- S-FTP cable construction
- O PUR (Cat 5e) or PVC (Cat 6a / 8) jacket cable

 Wiring configuration to 568-B







PX0836

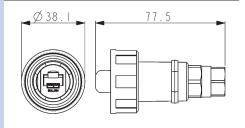
Part no.	Туре	Length	Description
PX0836/2M00	Wire end	2m	Cat 5e IP68 RJ45 Buccaneer to bare end
PX0836/3M00	Wire end	3m	Cat 5e IP68 RJ45 Buccaneer to bare end
PX0836/5M00	Wire end	5m	Cat 5e IP68 RJ45 Buccaneer to bare end
PX0837/2M00	Single ended	2m	Cat 5e IP68 RJ45 Buccaneer to Shielded RJ45
PX0837/3M00	Single ended	3m	Cat 5e IP68 RJ45 Buccaneer to Shielded RJ45
PX0837/5M00	Single ended	5m	Cat 5e IP68 RJ45 Buccaneer to Shielded RJ45
PX0838/2M00	Double ended	2m	Cat 5e IP68 RJ45 Buccaneer to IP68 RJ45 Buccaneer
PX0838/3M00	Double ended	3m	Cat 5e IP68 RJ45 Buccaneer to IP68 RJ45 Buccaneer
PX0838/5M00	Double ended	5m	Cat 5e IP68 RJ45 Buccaneer to IP68 RJ45 Buccaneer
PX0896/2M00	Wire end	2m	Cat 6a IP68 RJ45 Buccaneer to bare end
PX0896/3M00	Wire end	3m	Cat 6a IP68 RJ45 Buccaneer to bare end
PX0896/5M00	Wire end	5m	Cat 6a IP68 RJ45 Buccaneer to bare end
PX0897/2M00	Single ended	2m	Cat 6a IP68 RJ45 Buccaneer to Shielded RJ45
PX0897/3M00	Single ended	3m	Cat 6a IP68 RJ45 Buccaneer to Shielded RJ45
PX0897/5M00	Single ended	5m	Cat 6a IP68 RJ45 Buccaneer to Shielded RJ45
PX0898/2M00	Double ended	2m	Cat 6a IP68 RJ45 Buccaneer to IP68 RJ45 Buccaneer
PX0898/3M00	Double ended	3m	Cat 6a IP68 RJ45 Buccaneer to IP68 RJ45 Buccaneer
PX0898/5M00	Double ended	5m	Cat 6a IP68 RJ45 Buccaneer to IP68 RJ45 Buccaneer
PX0857/2M00	Single ended	2m	Cat 8 IP68 RJ45 Buccaneer to IP68 Shielded RJ45
PX0857/3M00	Single ended	3m	Cat 8 IP68 RJ45 Buccaneer to IP68 Shielded RJ45
PX0857/5M00	Single ended	5m	Cat 8 IP68 RJ45 Buccaneer to IP68 Shielded RJ45
PX0858/2M00	Double ended	2m	Cat 8 IP68 RJ45 Buccaneer to IP68 RJ45 Buccaneer
PX0858/3M00	Double ended	3m	Cat 8 IP68 RJ45 Buccaneer to IP68 RJ45 Buccaneer
PX0858/5M00	Double ended	5m	Cat 8 IP68 RJ45 Buccaneer to IP68 RJ45 Buccaneer

Re Wireable Flex Connector



PX0834

- Mates with all panel mounting connectors
- O Supplied with shielded RJ45 plug Two versions:
- O Cat 5e or Cat 6a Cable size from 5 to 6mm diameter, or extra cable glands for other cable sizes from 3.5 to 8mm diameter.



Description Part no.

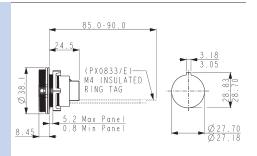
PX0834/A	Cat 5e suitable for use with cables from 5 to 6mm diameter
PX0834/B	Cat 5e with 2 extra cable glands, suitable for use with cables from 3.5 to 8mm diameter
PX0894/A	Cat 6a suitable for use with cables from 5 to 6mm diameter
PX0894/B	Cat 6a with 2 extra cable glands, suitable for use with cables from 3.5 to 8mm diameter



Front Panel Mounting Coupler Connector



- O Cat 5e mates with PX0836, PX0837, PX0838 & PX0834 flex connectors
- O Cat 6a mates with PX0896, PX0897, PX0898 & PX0894 flex connectors
- Standard RJ45 patchcord can be plugged into rear
- Version with earth wire available
- Single hole fixing
- Complete with panel sealing gasket



PX0833

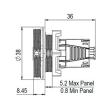
Part no.	Description	Fixing
PX0833	Cat 5e coupler	Front panel mounted
PX0833/E	Cat 5e coupler + earth wire	Front panel mounted
PX0893	Cat 6a coupler	Front panel mounted
PX0893/E	Cat 6a coupler + earth wire	Front panel mounted

Front Panel Mounting Keystone Connector



PX0855/KS

- O Backwards compatible with all flex connectors
- O Cat 8 mates with PX0857, PX0858 flex connectors
- Toolless jack termination
- Maintains shielding ground continuity
- Single hole fixing
 Complete with panel sealing gasket





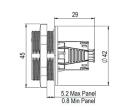
Part no. **Description Fixing**

PX0855/KS Cat 8 Keystone connector Front panel mounted

Rear Panel Mounting Keystone Connector



- PX0856/KS
- O Backwards compatible with all flex connectors
- Cat 8 mates with PX0857, PX0858 flex connectors
- Toolless jack termination
- Maintains shielding ground continuity
- Single hole fixing
- Complete with panel sealing gasket





Part no.	Description	Fixing	

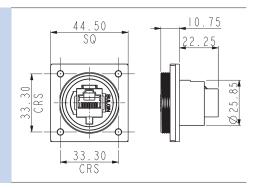
PX0856/KS Cat 8 Keystone connector Rear panel mounted



Flange Mounting Connector



- Cat 5e mates with PX0836, PX0837, PX0838 & PX0834 flex connectors
- Cat 6a mates with PX0896, PX0897, PX0898 & PX0894 flex connectors
- Standard RJ45 patchcord can be plugged into rear
- Version with earth wire available
- Flange fixing
- O Complete with panel sealing gasket



Part no. Description Fixing

PX0870 Cat 5e coupler
PX0870/E Cat 5e coupler + earth wire
PX0890 Cat 6a coupler
PX0890/E Cat 6a coupler + earth wire

Flange mounting Flange mounting Flange mounting Flange mounting

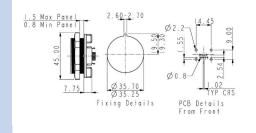
PCB Mounting Connector



PX0839/PC

PX0870

- O Cat 5e shielded RJ45 interface
- Rear of panel mounted
- PX0838 and PX0834 flex connectors
- For direct vertical mounting to
- PCB, straight Plugs
- Complete with panel sealing PX0839/PC gasket



Part no. Description Fixing

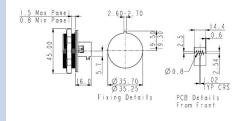
PX0839/PC Cat 5e connector - PC Rear panel mounted

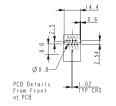
PCB Mounting Connector



PX0839/90

- O Cat 5e shielded RJ45 interface
- Rear of panel mounted
- Mates with PX0836, PX0837,
- PX0838 and PX0834 flex connectors
- For direct horizontal mounting to PCB, 90° Plugs
- Complete with panel sealing PX0839/90 gasket





Part no.	Description	Fixing

PX0839/90 Cat 5e connector - 90 degree Plugs Rear panel mounted

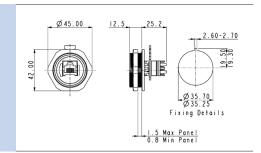


Panel Mounting Connector



PX0839/IDC

- O Cat 5e shielded RJ45 interface
- O Rear of panel mounted
- Mates with PX0836, PX0837,
- O PX0838 and PX0834 flex connectors
- Two IDC blocks for discrete termination
- O Complete with panel sealing



Part no.	Description	Fixing

PX0839/IDC Cat 5e coupler - IDC

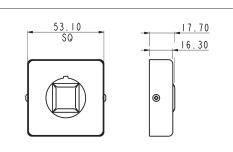
Rear panel mounted

Shield Back Shell Accessory



PX0888

- Maintains RJ45 coupler screening directly to panel
- Shielding can is fixed to rear of panel mount connector
- For use on PX0833, PX0893 & PX0855



Part no. Description

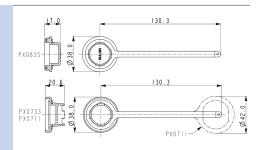
PX0888 Shielding backshell accessory

Accessories



Sealing Caps

- Sealing caps to maintain IP68 rating when connectors are not in use
- Replacement shielded RJ45s
- Hand crimp tool for shielded RJ45
- Patch cord cable available in 50m reels



Part no. Description

PX0835	Sealing Cap for use on all ethernet flex connectors
PX0733	Sealing Cap for use on all front panel mounting connectors
PX0711	Sealing Cap for use on all rear panel mounting connectors
14151	Cat 5e & Cat 6a Hand crimp tooling + die set
14199	Cat 5e PUR Jacket Cable - 50m reel
14150	Cat 5e Replacement shielded RJ45
15241	Cat 6a PVC Jacket Cable - 50m reel

BUCCANEER FOR DATA Standard Buccaneer - Ethernet



Connectors	Cat 5e & 6a	Cat 8
Sealing:	IP68, EN60529:1992+A2:2013 (10m depth for 2 weeks)	IP68, EN60529:1992+A2:2013 (10m depth for 2 weeks)
	IP69K, Tested in accordance with DIN 40050/Part 9 IP6k9k	IP69K, Tested in accordance with DIN 40050/Part 9 IP6k9k
Operating Temperature:	-20°C to +70°C	-20°C to +60°C
Materials - Overmoulded Overmould material: Flammability rating:	PVC (black) UL94V-0	Polyamide (black) UL94V-0
Salt Mist:	EN60068-2-52 Test Kb Salt Mist (Cyclic) Marine Severity Level 1	EN60068-2-52 Test Kb Salt Mist (Cyclic) Marine Severity Level 1

Materials - Re-wireable and Panel Connectors

Connector body & locking ring Polyester Panel connector Nylon 6 UL94V-0 Flammability rating 'O' rings Silicone Panel Gasket - round Silicone Panel Gasket - flange RoHS Neoprene Compliant

Cables & POE	Cat 5e	Cat 6a	Cat 8
Conductors Insulation Pair Core Screen Braid Jacket Op Temperature Diameter Flame Test Electrical @ 20°C	24AWG (7/0.2mm) bare copper HD-PE 2 of the above cores twisted 4 of the above cores 1 layer mylar and aluminium tape, 0.12mm tinned copper braid PUR (Black) -25°C to +85°C 6.1mm nominal	26AWG (7/0.16mm) bare copper PE (Skin - Foam - Skin) 2 of the above cores twisted 4 of the above cores Aluminium & Polyester Tinned Copper Braid PVC (Black) -25°C to +75°C 6.0 mm nominal FT4	26AWG (7/0.16mm) bare copper N/A 2 of the above cores twisted 4 of the above cores Aluminium & Polyester Tinned Copper Braid PVC (Black) -20°C to +60°C 6.0 mm nominal
Characteristic: Impedance Capacitance Conductor Loop	100 Ω ±15 Ω @ 100MHz 330pF/km		
Resistance Skew	29/Ω100m maximum 45 nsec/100m @ 100MHz	26Ω /km	
PoE Standard:	IEEE 802.3af (2 pair)	IEEE 802.3bt, Type 4 (4 pair) 4PoE++	IEEE 802.3bt, Type 4 (4 pair) 4PoE++
Power rating Current rating Voltage rating (DC) Mechanical Characteristics	12.95W 350mA 44-57V	71W 960mA 41.1V-57V	71W 1500mA 72V
Minimum Tensile Strength of Jacket (kgf/mm²) Maximum Length for Strip of Jacket		1.05	
(mm)			



Cable construction - CAT 5e

24 AWG 7/0.20mm conductor Braiding 7/0.12mm Jacket 6.10mm dia Mylar Tape Insulation - HD - PE Aluminium/ PEPT tape Drain Wire

Polyurethane (PUR) Jacket

Cable construction - Cat 6a & Cat 8



Polyvinyl Chloride (PVC) Jacket

RJ45 Plug	Cat 5e & PoE	Cat 6a	Cat 8
Materials			
Moulding	Polycarbonate	Polycarbonate	Polycarbonate
Shielding			Zinc Alloy
Flammability	UL94V-0	UL94V-0	UL94V-2
Contact material	Phosphor Bronze	Phosphor Bronze	Phosphor Bronze
Contact plating	50-micron gold	50-micron gold	50-micron gold
Operating Temperature	–40°C to +70°C	-40°C to +70°C	–20°C to +60°C
Mating cycles	1,000 cycles	1,000 cycles	1,200 cycles
RoHS	Compliant	Compliant	Compliant
Electrical			
No. Conductors	8	8	8
Conductor types	24-28AWG, solid or	24-28AWG, solid or	26AWG, multistranded
7,1	multistranded	multistranded	(pre-terminated)
Current rating	350mA	1500mA	1500mA
Voltage rating	37V AC, 57V DC	30V AC, 42V DC	72V DC
Contact resistance	10mΩ	10mΩ	$20m\Omega$ max.

Cat 8 (Keystone)

Materials

Coupler Shell Zinc
Coupler Plating Nickel
Moulding PC
IDC Housing PC

IDC Cap PC + glass fibre

IDC TerminalTin plated Phosphor BronzeGround ContactStainless steel, Copper foil

Tie wrap Nylon 6/6
Flammability UL94V-2

Contact material Phosphor Bronze
Contact plating 50-micron gold
Operating Temperature -10°C to +60°C
Mating cycles - Jack >750 cycles
Mating cycles - IDC >20 terminations
Compliant

Electrical

No. Conductors 8
Current rating 1.5A
Voltage rating 100V DC

Dielectric Withstand 1000V DC/AC @ 60hz for 1 minute

Contact resistance $10m\Omega$ max.

BUCCANEER FOR DATA Standard Buccaneer - Ethernet



RJ45 Coupler	Cat 5e	Cat 6a
Materials		
Coupler Shell Coupler Plating Moulding Flammability Contact material Contact plating Operating Temperature Mating cycles RoHS	Copper Alloy Nickel PBT UL94V-0 Phosphor Bronze 50 micron gold -40°C to +70°C 1,000 cycles Compliant	Copper Alloy Nickel PBT UL94V-0 Phosphor Bronze 50 micron gold 0°C to +70°C 1,000 cycles Compliant
Electrical No. Conductors Current rating Voltage rating Contact resistance	8 1.5A 30V AC, 42V DC 10mΩ max.	8 1.5A 30V AC, 42V DC 10mΩ max.
RJ45 PCB Connector	Cat 5e	
Materials Coupler Shell Coupler Plating Moulding Flammability Contact material Contact plating PC Plugs Operating Temperature Mating cycles ROHS	Copper Alloy Nickel PBT UL94V-0 Phosphor Bronze 50 micron gold Tin plated -40°C to +70°C 1,000 cycles Compliant	
Electrical No. Conductors Current rating Voltage rating Contact resistance	8 1.5A 30V AC, 42V DC 10mΩ max.	

Standard Buccaneer - Ethernet

PX0777

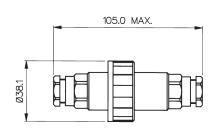


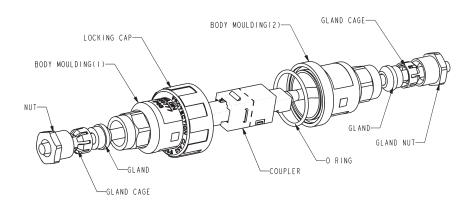
Cable Joiner



O IP68 Rating

- For Sealed Inline RJ45
 Connections
- O Supplied Complete with Coupler
- Shielded (STP) & Unshielded (UTP) versions
- Cat5e Shielded Coupler also available
- Cable Range 3.5 8mm (with glands supplied)





Specifications	PX0777/UTP	PX0777/STP	PX0777/CAT5ESTP	PX0777/CAT6ASTP
Rating: No. of Conductors:	1.5A, 30V AC, 42V DC 8	1.5A, 30V AC, 42V DC 8	1.5A, 30V AC, 42V DC 8	1.5A, 30V AC, 42V DC 8
Coupler Type: Cable Range:	Unshielded 3.5 - 8mm	Shielded 3.5 - 8mm	Shielded CAT5e performance 3.5 - 8mm	Shielded CAT6a performance 3.5 - 8mm
Cable Halige.	With glands supplied:	With glands supplied:	With glands supplied:	With glands supplied:
	3.5 - 5mm (Blue)	3.5 - 5mm (Blue)	3.5 - 5mm (Blue)	3.5 - 5mm (Blue)
	5 - 7mm (Green) 6 - 8mm (Red)	5 - 7mm (Green) 6 - 8mm (Red)	5 - 7mm (Green) 6 - 8mm (Red)	5 - 7mm (Green) 6 - 8mm (Red)
	o - onim (nea)	o - onini (nea)	0 - onini (neu)	o - omin (nea)
Material:	Glass Filled Polyamide	Glass Filled Polyamide	Glass Filled Polyamide	Glass Filled Polyamide
	UL94V-0	UL94V0	UL94V0	UL94V0
Sealing:	IP68 to BSEN	IP68 to BSEN	IP68 to BSEN	IP68 to BSEN
	60529:1992+A2:2013	60529:1992+A2:2013	60529:1992+A2:2013	60529:1992+A2:2013
	(10m depth for 2 weeks)	(10m depth for 2 weeks)	(10m depth for 2 weeks)	(10m depth for 2 weeks)
Salt Mist	EN60068-2-52 Test Kb Salt Mist	EN60068-2-52 Test Kb Salt Mist	EN60068-2-52 Test Kb Salt Mist	EN60068-2-52 Test Kb Salt Mist
	(Cyclic)	(Cyclic)	(Cyclic)	(Cyclic)
Operating Temp	Marine Severity Level 1	Marine Severity Level 1	Marine Severity Level 1	Marine Severity Level 1
Range:	-20°C to +70°C	-20°C to +70°C	-20°C to +70°C	-20°C to +70°C
Ü				
Colour:	Black	Black	Black	Black
RoHS	Compliant	Compliant	Compliant	Compliant





- O IP68 when mated, Tested in accordance with EN60529:1992+A2:2013
- IP69K when mated, Tested in accordance with DIN 40050/Part 9 IP69k
- 0 EN60068-2-52 Test Kb Salt Mist (Cyclic) Marine Severity Level 1
- HDMI 2.1 Performance 0
- 0 Shielded system
- 0 Single and double ended cables
- Screw coupling

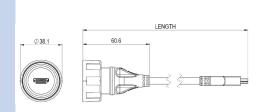
- 0 Resolutions and refresh rates of 8K at 60Hz and 4K at 120Hz
- 0 Hot pluggable, standard 19 contact interface
- 0 Alignment indicator reduces risk of damage during mating
- 0 High noise immunity and EMI protection
- 0 Secure, proven locking system
- 0 Direct mounting or via adaptor leads
- 0 Plug and play capability



Sealed HDMI Cables - Single Ended



- O Single ended sealed cable assembly
- O IP68 HDMI connector to standard HDMI connector
- Mates with all panel mount connectors
- O Available in 2m, 3m & 5m lengths



PX0867

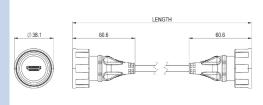
Part no.	Length	Description
PX0867/2M00	2m	IP68 HDMI male to standard HDMI male
PX0867/3M00	3m	IP68 HDMI male to standard HDMI male
PX0867/5M00	5m	IP68 HDMI male to standard HDMI male

Sealed HDMI Cables - Double Ended



PX0868

- O Double ended sealed cable assembly
- IP68 HDMI connector to IP68 HDMI connector
- Mates with all panel mount connectors
- O Available in 2m, 3m & 5m lengths



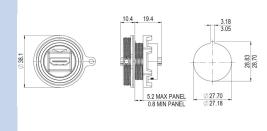
Part no.	Length	Description
PX0868/2M00	2m	IP68 HDMI male to IP68 HDMI male
PX0868/3M00	3m	IP68 HDMI male to IP68 HDMI male
PX0868/5M00	5m	IP68 HDMI male to IP68 HDMI male

Front Panel Mounting Connector



PX0863

- O PX0863 HDMI IP68 connector
- Female HDMI connector at rear of panel
- Mates with PX0867 and PX0868 cable connectors



Part no. **Description**

PX0863

IP68 HDMI female, front panel mounted. Sealed HDMI at front of panel, standard HDMI type at rear



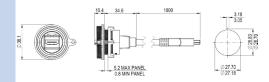
Front Panel Mounting Connector



connector with 1m HDMI male lead at rear of panel

O PX0863/1M00 - HDMI IP68

○ Mates with PX0867 and PX0868 cable connectors



Description Part no. Length

PX0863/1M00

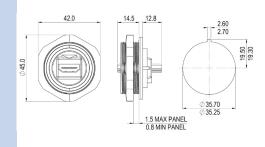
PX0863/1M00 IP68 HDMI female with 1m lead, front panel mounted, sealed HDMI at front of panel, standard HDMI at 1m

Rear Panel Mounting Connector



PX0869

- O PX0869 HDMI IP68 connector
- Female HDMI connector at rear of panel
- O Mates with PX0867 and PX0868 cable connectors



Part no. **Description**

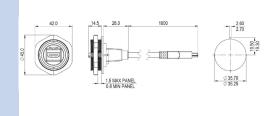
PX0869 IP68 HDMI female, rear panel mounted, sealed HDMI at front of panel, standard HDMI type at rear

Rear Panel Mounting Connector



PX0869/1M00

- O PX0869/1M00 HDMI IP68 connector with 1m HDMI male lead at rear of panel
- O Mates with PX0867 and PX0868 cable connectors



Part no.	Length	Description
PX0869/1M00	1m	IP68 HDMI female, with 1m lead, rear panel mounted, sealed HDMI at front of panel, standard HDMI at rear

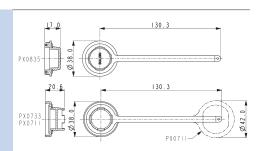


Accessories



Sealing Caps

- O Sealing caps to maintain IP68 rating when connectors are not in use
- O PX0835 for cable connectors PX0867 & PX0868
- O PX0733 for front panel mount connectors PX0863, PX0863/1M00
- PX0711 for rear panel mount connectors PX0869, PX0869/1M00



Part no.	De	escr	трτι	on

Sealing Cap for cable connectors (PX0867, PX0868) PX0835 PX0733 Sealing Cap for front panel mounting connector (PX0863, PX0863/1M00) PX0711 Sealing Cap for rear panel mounting connector (PX0869, PX0869/1M00)

Standard Buccaneer - HDMI



Cables & connectors

Mechanical IP68, EN60529:1992+A2:2013

Sealing (10m depth for 2 weeks)

IP69K, Tested in accordance with DIN

40050/Part 9 IP6k9k

Operating temperature -25°C to +80°C

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

Marine Severity Level 1

Electrical

No. of Contacts 19 Current rating 0.5A

Voltage rating 30V AC (RMS) Contact resistance 40m Ω max.

Withstanding

Voltage 500V AC RMS

Performance Ultra High Speed HDMI™

Cable with Ethernet

Materials - Overmoulded

Overmould material PVC (black)
Flammability rating UL94V-0

Materials - Re-wireable and Panel Connectors

Shell material Steel
Shell plating Nickel
Contact material Brass
Contact plating Tin & Gold

Connector body & locking ring Glass Loaded Polyester

Panel connector

Flammability rating

'O' rings

Panel Gasket - round

Panel Gasket - square

Mating cycles

RoHS

Acetal

UL94 HB

Silicone

Silicone

Neoprene

1,000

Compliant

Materials - cable

Cable Jacket PVC (black)

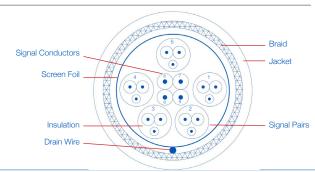
Braid Aluminium-Magnesium Alloy

Screen Foil Aluminium Foil
Insulation HDPE and F-PE
Drain Wire Tin-Copper Alloy

Flammability Rating UL94V-0

Conductors Conductors Signal Power Length: Dia 4 x 30AWG 5 x 30AWG 6.0mm 2m 5 x 30AWG 4 x 30AWG 3m 6.0mm 1 x 28AWG 4 x 28AWG 5m 7.3mm 3 x 30AWG 1 x 32AWG

Cable construction - PX0867, PX0868







- (Control of the control of the contr
- O IP69K when mated, tested in accordance with DIN 40050/Part 9 IP6k9k
- © EN60068-2-52 Test Kb Salt Mist (Cyclic) Marine Severity Level 1
- O USB version 2.0 and 3.0 performance
- O Shielded system
- Single and double ended cables
- Screw coupling
- PCB mounted panel connector

- High-speed bus connection, USB 2.0: up to 480Mbps USB 3.0: up to 5Gbps
- O Hot pluggable, USB 2.0 with 4 contact interface, USB 3.0 with 9 contact interface
- Alignment indicator reduces risk of damage during mating
- High noise immunity and EMI protection
- Suitable for PC and peripheral configuration
- Secure, proven locking system
- Direct mounting or via adaptor leads
- Plug and play capability



Sealed USB Cables - Single Ended



PX0840/A

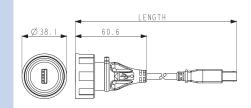


PX0840/B

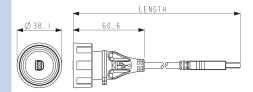


PX0840/AA

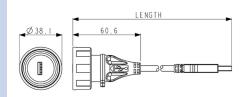
- Single ended sealed cable assembly
- IP68 'A' type USB 2.0 connector to standard 'A' or 'B' type USB 2.0 connector
- IP68 'B' type USB 2.0 connector to standard 'A' type USB 2.0 connector
- IP68 'A' type USB 3.0 connector to standard USB 3.0 'A' type connector
- Mates with all panel mount connectors
- USB 2.0 variants available in 2m, 3m & 5m lengths
- USB 3.0 variants available in 1m, 2m & 3m lengths



PX0840/A/xMxx



PX0840/B/xMxx



PX0840/AA/xMxx

Part no.	Length	Description
PX0840/A/2M00	2m	IP68 A type USB 2.0 to standard B type USB 2.0
PX0840/A/3M00	3m	IP68 A type USB 2.0 to standard B type USB 2.0
PX0840/A/5M00	5m	IP68 A type USB 2.0 to standard B type USB 2.0
PX0840/B/2M00	2m	IP68 B type USB 2.0 to standard A type USB 2.0
PX0840/B/3M00	3m	IP68 B type USB 2.0 to standard A type USB 2.0
PX0840/B/5M00	5m	IP68 B type USB 2.0 to standard A type USB 2.0
PX0840/AA/2M00	2m	IP68 A type USB 2.0 to standard A type USB 2.0
PX0840/AA/3M00	3m	IP68 A type USB 2.0 to standard A type USB 2.0
PX0840/AA/5M00	5m	IP68 A type USB 2.0 to standard A type USB 2.0
PX0840/A3/1M00	1m	IP68 A type USB 3.0 to standard A type USB 3.0
PX0840/A3/2M00	2m	IP68 A type USB 3.0 to standard A type USB 3.0
PX0840/A3/3M00	3m	IP68 A type USB 3.0 to standard A type USB 3.0

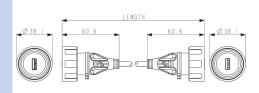


Sealed USB Cables Double Ended

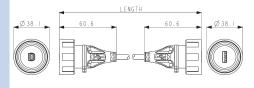




- Double ended sealed cable assembly
- IP68 'A' type USB 2.0 connector to IP68 'A' or 'B' type USB 2.0 connector
- IP68 'A' type USB 3.0 connector to IP68 'A' type USB 3.0 connector
- Mates with all panel mount connectors
- USB 2.0 variants available in 2m, 3m & 5m lengths
- USB 3.0 variants available in 1m, 2m & 5m lengths



PX0841/AA/xMxx



PX0841/AB/xMxx

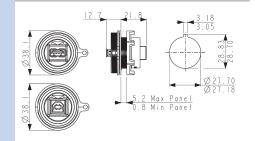
Part no.	Length	Description
PX0841/AB/2M00	2m	IP68 A type USB 2.0 to IP68 B type USB 2.0
PX0841/AB/3M00	3m	IP68 A type USB 2.0 to IP68 B type USB 2.0
PX0841/AB/5M00	5m	IP68 A type USB 2.0 to IP68 B type USB 2.0
PX0841/AA/2M00	2m	IP68 A type USB 2.0 to IP68 A type USB 2.0
PX0841/AA/3M00	3m	IP68 A type USB 2.0 to IP68 A type USB 2.0
PX0841/AA/5M00	5m	IP68 A type USB 2.0 to IP68 A type USB 2.0
PX0841/A3/1M00	1m	IP68 A type USB 3.0 to IP68 A type USB 3.0
PX0841/A3/2M00	2m	IP68 A type USB 3.0 to IP68 A type USB 3.0
PX0841/A3/3M00	3m	IP68 A type USB 3.0 to IP68 A type USB 3.0

Front Panel Mounting Connector



PX0842/A

- PX0842/A USB 2.0 'A' type IP68 to USB 2.0 'B' type connector
- PX0842/AA USB 2.0 'A' type IP68 to USB 2.0 'A' type connector
- O PX0842/A3 USB 3.0 'A' type IP68 to USB 3.0 'A' type connector
- O PX0842/B USB 2.0 'B' type IP68 to USB 2.0 'A' type connector
- Mates with PX0840 and PX0841 cable connectors



Part no.

Description

PX0842/A PX0842/B PX0842/AA PX0842/A3 IP68 A type USB 2.0, front panel mounted. Sealed A type at front of panel, standard B type at rear IP68 B type USB 2.0, front panel mounted. Sealed B type at front of panel, standard A type at rear IP68 A type USB 2.0, front panel mounted. Sealed A type at front of panel, standard A type at rear IP68 A type USB 3.0, front panel mounted. Sealed A type at front of panel, standard A type at rear

Standard Buccaneer - USB

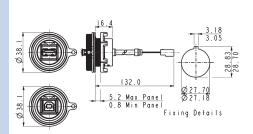


Front Panel Mounting Connector



PX0843/A

- O PX0843/A USB 2.0 'A' type IP68 connector with 5-way crimp connector
- PX0843/B USB 2.0 'B' type IP68 connector with 5-way crimp connector
- O PX0843/A3 USB 3.0 'A' type IP68 connector with 10-way crimp connector
- Mates with PX0840 and PX0841 cable connectors



Part no.

Description

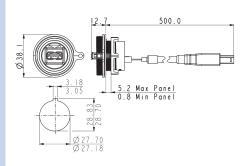
PX0843/A PX0843/B PX0843/A3 PX0460/A PX0460/B PX0460/A3 IP68 A type USB 2.0, front panel mounted. Sealed A type at front of panel, 5 way crimp connector at rear. IP68 B type USB 2.0, front panel mounted. Sealed B type at front of panel, 5 way crimp connector at rear. IP68 A type USB 3.0, front panel mounted. Sealed A type at front of panel, 10-way crimp connector at rear As PX0843/A with exposed braid for use with PX0465 screening can As PX0843/A3 with exposed braid for use with PX0465 screening can

Front Panel Mounting Connector



PX0844/A

- IP68 Sealed through panel
- O PX0844/A USB 2.0 'A' type IP68 connector
- O PX0844/B USB 2.0 'B' type IP68 connector
- O PX0844/A3 USB 3.0 'A' type IP68 connector
- Standard USB interface plug options to rear of panel
- 0.5m standard cable length, other lengths available
- Mates with PX0840 and PX0841 cable connectors



Part no. Length Description

PX0844/B

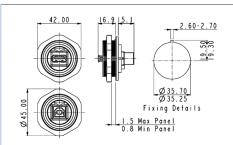


Rear Panel Mounting Connector



PX0848/A

- O PX0848/A USB 2.0 'A' type IP68 to USB 2.0 'B' type connector
- O PX0848/B USB 2.0 'B' type IP68 to USB 2.0 'A' type connector
- O PX0848/A3 USB 3.0 'A' type IP68 to USB 3.0 'A' type connector
- Mates with PX0840 and PX0841 cable connectors



Part no.

Description

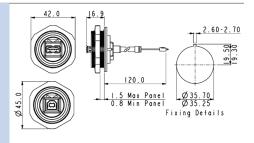
PX0848/A PX0848/B PX0848/AA PX0848/A3 IP68 A type USB 2.0, rear panel mounted. Sealed A type at front of panel, standard B type at rear IP68 B type USB 2.0, rear panel mounted. Sealed B type at front of panel, standard A type at rear IP68 A type USB 2.0, rear panel mounted. Sealed A type at front of panel, standard A type at rear IP68 A type USB 3.0, rear panel mounted. Sealed A type at front of panel, standard A type at rear

Rear Panel Mounting Connector



PX0849/A

- PX0849/A USB 2.0 'A' type IP68 connector with 5-way crimp connector
- PX0849/B USB 2.0 'B' type IP68 connector with 5-way crimp connector
- PX0849/A3 USB 3.0 'B' type IP68 connector with 10-way crimp connector
- Mates with PX0840 and PX0841 cable connectors



Part no.

Description

PX0849/A PX0849/B PX0849/A3

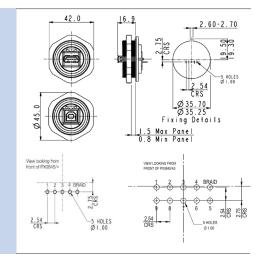
IP68 A type USB 2.0, rear panel mounted. Sealed A type at front of panel, 5-way header at rear IP68 B type USB 2.0, rear panel mounted. Sealed B type at front of panel, 5-way header at rear IP68 A type USB 3.0, rear panel mounted. Sealed A type at front of panel, 10-way header at rear

PCB Panel Mounting Connector- PCB DIrect Mount



PX0845/A

- PX0845/A USB 2.0 'A' type IP68 connector
- PX0845/B USB 2.0 'B' type IP68 connector
- O PX0845/A3 USB 3.0 'A' type IP68 connector
- PCB contacts at rear
- Direct PCB mount
- Mates with PX0840 and PX0841 cable connectors



Part no.

Description

PX0845/A PX0845/B PX0845/A3 IP68 A type USB 2.0, rear panel mounted. Sealed A type at front of panel, direct mount PCB contacts at rear IP68 A type USB 2.0, rear panel mounted. Sealed A type at front of panel, direct mount PCB contacts at rear IP68 A type USB 3.0, rear panel mounted. Sealed A type at front of panel, direct mount PCB contacts at rear

Standard Buccaneer - USB

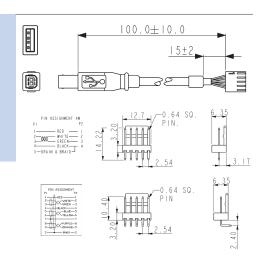
Accessories



PCB Adaptor Leads



- Standard A and B type USB 2.0 connectors to 5-way crimp adaptor leads
- 5 way-headers, 2.54mm pitch, horizontal or vertical mounting
- Standard A type USB 3.0 to 10way crimp adaptor leads



Part no. Description

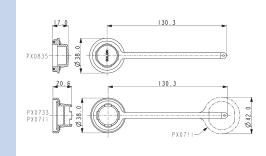
14193 14194 100286 14191 14192 100287 100288	USB 2.0 'A' type to 5-way crimp connector USB 2.0 'B' type to 5-way crimp connector USB 3.0 'A' type to 10-way crimp connector 5-way PCB header straight 5-way PCB header right angle 10-way PCB header straight 10-way PCB header right angle
100288	10-way PCB header right angle





- Sealing caps to maintain IP68

 rating when connectors are not in
- PX0835 for cable connectors PX0840 & PX0841
- PX0733 for front panel mount connectors PX0842, PX0843 & PX0844
- O PX0711 for rear panel mount connectors PX0848, PX0849 & PX0845



Part no. Description

PX0835 Sealing Cap for cable connectors (PX0840, PX0841)

Scaling Cap for front panel mounting connector (PX0842, PX0842)

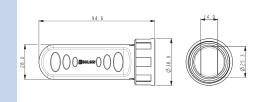
PX0733 Sealing Cap for front panel mounting connector (PX0842, PX0843 & PX0844) PX0711 Sealing Cap for rear panel mounting connector (PX0848, PX0849, PX0845)

USB Flash Drive Cover



PX0852

- O For use with USB Flash Drives
- Maintains IP68 rating when mated with panel connector
- For use with 'A' type connectors: PX0842, PX0843, PX0845, PX0848 & PX0849
- Internal accommodation 17.5 x 14.0 x 83mm approx.

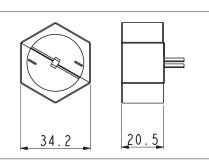


Screening Can



PX0465

- Maintains cable screening directly to panel
- Screening can clips around the panel fixing nut
- For use on PX0460/A, PX0460/B and PX0360/A3



Standard Buccaneer - USB

USB 2.0 Specifications



Cables & connectors

Mechanical IP68, EN60529:1992+A2:2013 (10m depth for 2 weeks) Sealing

IP69K, Tested in accordance with DIN

40050/Part 9 IP6k9k

Operating temperature 0°C to +70°C

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

Silicone

Marine Severity Level 1

Electrical

No. of Contacts 1A Current rating

30V AC (RMS) Voltage rating $30m\ \Omega\ max.$ Contact resistance USB version 2.0 Performance

Materials - Overmoulded

PVC (black) Overmould material UL94V-0 Flammability rating

Materials - Re-wireable and Panel Connectors

Shell material Steel Nickel Shell plating Copper Alloy Contact material 30 micro inch Gold Contact plating Glass Loaded Polyester Connector body & locking ring Panel connector Acetal UL94 HB

Flammability rating 'O' rings

Silicone Panel Gasket - round Neoprene Panel Gasket - square 1,000 Mating cycles Compliant RoHS

Materials - cable

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

Length: 2m

3m

5m

Conductors Conductors Dia Signal Power 4.8mm 2 x 28AWG 2 x 24AWG 5.0mm 2 x 28AWG 2 x 22AWG 5.2mm 2 x 25AWG 2 x 20AWG

PCB adaptor leads

Electrical No. of conductors

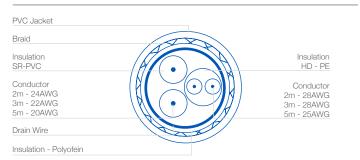
Current rating Voltage rating 30V AC (RMS) Contact resistance $<10m \Omega max.$ PCB pitch 2.54mm

1A

Materials

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

USB 2.0 Cable construction - PX0840, PX0841



USB 2.0 Contact Diagram - PX0843 & PX0849

P1	PAIR	WIRE COLOUR	P2
+5V 1	—	RED	1 +5V
USB- 2 USB+ 3	∞	WHITE / BLUE	2 USB- 3 USB+
GND 4	—	BLACK	4 GND
5	—	DRAIN & BRAID	5

Standard Buccaneer - USB

USB 3.0 Specifications



Cables & connectors

MechanicalIP68, EN60529:1992+A2:2013Sealing(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
 Signal
 Power

 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

Current rating

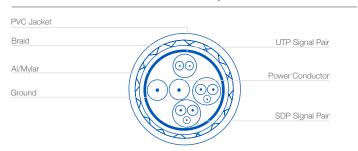
 $\begin{array}{ll} \mbox{Voltage rating} & \mbox{30V AC (RMS)} \\ \mbox{Contact resistance} & \mbox{30m } \Omega \mbox{ max}. \\ \mbox{PCB pitch} & \mbox{2.54mm} \end{array}$

1A

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
RoHS 1,000 Compliant

USB 3.0 Cable construction - PX0840/A3, PX0841/A3



USB 3.0 Contact Diagram - PX0843/A3 & PX0849/A3

PAIR	WIRE COLOUR	P2
—	RED	1 +5V
∞	WHITE / GREEN	2 USB- 3 USB+
	BLACK	4 GND
∞	BLUE / YELLOW	5 SSTX- 6 SSTX+
	N/A	7 GND
∞	PURPLE / ORANGE	8 SSRX- 9 SSRX-
—	BRAID	s
		PED WHITE / GREEN BLACK BLUE / YELLOW N/A PURPLE / ORANGE

BUCCANEER FOR DATA 400 Series - Mini USB Buccaneer





- 0 IP68, Tested in accordance with EN60529:1992+A2:2013
- IP69K, Tested in accordance with DIN 40050/Part 9 0 IP6k9k
- USB version 2.0 performance 0
- 0 Plug and play capability
- Shielded system 0
- Overmoulded cables 0
- Screw coupling 0
- PCB versions 0

- 0 Dust and waterproof to EN60529
- 0 Data rates up to 480Mbps
- 0 Hot pluggable, standard 4 Contacts interface
- 0 High noise immunity
- 0 Tamperproof construction
- 0 Secure, proven locking system
- 0 Direct mounting or via adaptor leads
- 0 EN60068-2-52 Test Kb Salt Mist (Cyclic) Marine Severity Level 1

Sealed Mini USB Cables - Single Ended

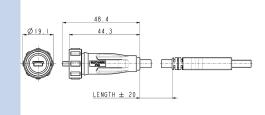


Sealed Mini 'B' to Standard 'A'



PX0441

- O IP68 Sealed Mini 'B' Plug to Standard 'A' Plug
- Fully overmoulded constructionAvailable in 2, 3 & 4.5m lengths
- Mates with PX0443, PX0446,
 PX0447, PX0456, PX0457 &
 PX0458

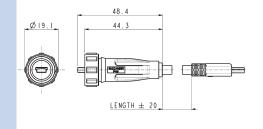


Sealed Mini 'B' to Mini 'A'



PX0442

- O IP68 Sealed Mini 'B' Plug to Mini 'A' Plug
- Fully overmoulded construction
- Available in 2, 3 & 4.5m lengths
- Mates with PX0443, PX0446, PX0447, PX0456, PX0457 & PX0458

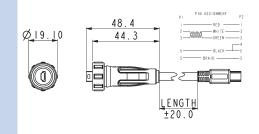


Sealed Mini 'A' to Mini 'B'



PX0444

- O IP68 Sealed Mini 'A' Plug to Mini 'B' Plug
- Fully overmoulded construction
- O Available in 2, 3 & 4.5m lengths
- Mates with PX0456, PX0457 & PX0458



Part No.	Length	Description
PX0441/2M00	2.0m	IP68 Sealed Mini 'B' to Standard 'A' Type USB
PX0441/3M00	3.0m	IP68 Sealed Mini 'B' to Standard 'A' Type USB
PX0441/4M50	4.5m	IP68 Sealed Mini 'B' to Standard 'A' Type USB
PX0442/2M00	2.0m	IP68 Sealed Mini 'B' to Mini 'A' Type USB
PX0442/3M00	3.0m	IP68 Sealed Mini 'B' to Mini 'A' Type USB
PX0442/4M50	4.5m	IP68 Sealed Mini 'B' to Mini 'A' Type USB
PX0444/2M00	2.0m	IP68 Sealed Mini 'A' to Mini 'B' Type USB
PX0444/3M00	3.0m	IP68 Sealed Mini 'A' to Mini 'B' Type USB
PX0444/4M50	4.5m	IP68 Sealed Mini 'A' to Mini 'B' Type USB

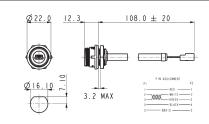


Front Panel Mounting Connector



PX0443

- O Mini 'B' Type Receptacle
- Leaded with 5 way crimp, for use with PCB header
- Mates with PX0441 & PX0442 type cables



Part no. **Description**

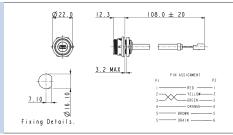
PX0443 IP68 B type Mini USB, front panel mounted. 5 way crimp connector at rear. PX0459 As PX0443 with exposed braid for use with PX0464 screening can

Front Panel Mounting Connector



PX0456

- O Mini 'AB' Type Receptacle
- Leaded with 6 way crimp, for use with PCB header
- Mates with PX0441, PX0442 & PX0444 type cables



Part no. **Description**

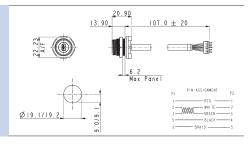
PX0456 IP68 AB type Mini USB, front panel mounted. 6 way crimp connector at rear.

Rear Panel Mounting Connector



PX0446

- O Mini 'B' Type Receptacle
- Leaded with 5 way header
- Mates with PX0441 & PX0442 type cables

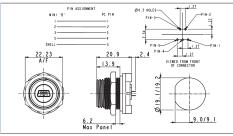


Rear Panel Mounting Connector



PX0447

- O Mini 'B' Type Receptacle With Plugs for direct PCB
- mounting
- Mates with PX0441 & PX0442 type cables



Part no. **Description**

PX0446 IP68 B type Mini USB, rear panel mounted. 5 way header connector at rear. PX0447 IP68 B type Mini USB, rear panel mounted. PCB terminals at rear.

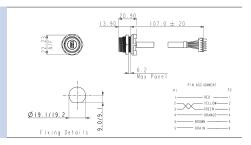


Rear Panel Mounting Connector



PX0457

- O Mini 'AB' Type Receptacle
- Leaded with 6 way header
- Mates with PX0441, PX0442 & PX0444 type cables

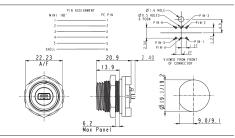


Rear Panel Mounting Connector



PX0458

- O Mini 'AB' Type Receptacle
- With Plugs for direct PCB mounting
- Mates with PX0441, PX0442 & PX0444 type cables



Part no. Description

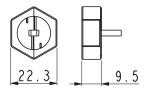
PX0457 IP68 AB type Mini USB, rear panel mounted. 6 way header connector at rear. PX0458 IP68 AB type Mini USB, rear panel mounted. PCB terminals at rear.

Screening Can



PX0464

- Maintains cable screening directly to panel
- Shielding can clips around the panel fixing nut
- For use on PX0459



Accessories



- O Sealing caps to maintain IP
- rating when connectors are not in use
- PCB headers for use with PX0443 & PX0456

PX0485 Description PX0485 Sealing cap for use with PX0441, PX0442 & PX0444

PX0480 Sealing cap for use with PX0443 & PX0456
PX0484 Sealing cap for use with PX0446, PX0447, PX0457 & PX0458
14191 5 way straight header
14192 5 way right angle header
14563 6 way straight header
14564 6 way right angle header



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 -35C to +70C

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

Marine Severity Level 1

Electrical

No. of Contacts 4 and 5 Current rating 1A

Voltage rating 30V AC, 42V DC Contact resistance 50m Ω max. Performance USB version 2.0

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 50 micro inch Gold

Connector body & locking ring
Panel connector
Plammability rating
'O' rings
Mating cycles
RoHS

Polyester
Nylon 6
UL94V-0
UL94V-0
Nitrile
5,000
Compliant

Materials - cable

Cable Jacket PVC (black)
Screen Tinned copper braid

Flammability UL94V-0 RoHS Compliant

 Length:
 Dia
 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 25AWG
 2 x 20AWG

Cable construction - PX0441, PX0442, PX0444

PVC Jacket		
Braid	A	
Insulation SR-PVC		Insulation HD - PE
Conductor 2m - 24AWG 3m - 22AWG 5m - 20AWG		Conductor 2m - 28AWG 3m - 28AWG 5m - 25AWG
Drain Wire		
Insulation - Polyofein		

BUCCANEER FOR DATA 400 Series - SMB Buccaneer





- 0 IP68, Tested in accordance with EN60529:1992+A2:2013
- 0 IP69K, Tested in accordance with DIN 40050/Part 9 IP6k9k
- 50Ω Impedance SMB connector 0
- 0 Frequency range 0-4GHz
- Contact resistance 0
 - centre 6mΩ max.
 - outer 2.5mΩ max.
- 0 Gold plated contacts
- 0 Diameter over coupling ring 19mm

- 0 Body moulding, Nylon UL94-V0 rated
- Two versions of Flex Connector
 - re-wireable
 - pre-wired lengths 1m, 3m & 5m
- Panel connector
 - pre-wired lengths 0.5m,1m & 1.5m
- Cable accommodation (flex re-wireable), RG-174
- Cable type (pre-wired connectors), RG-174

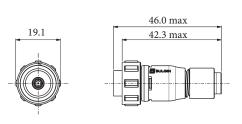
400 Series - SMB Buccaneer



Re- Wireable Flex Connector



- Mates with Panel connector (PX0414)
- Re-wireable connector
- For RG-174 cable \Diamond
- Supplied with SMB plug



PX0415/1

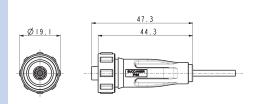
Part no. **Description**

PX0415/1 Re-wireable connector with SMB Plug - for RG-174 cable

Pre- Wireable Flex Connector



- Mates with Panel connector (PX0414)
- Pre-wired
- Overmoulded construction
- Supplied with SMB plug terminated with RG-174 cable
- 1m, 3m & 5m cable lengths



PX0416/xMxx

Part no. **Description**

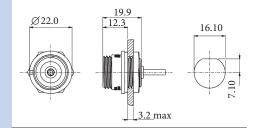
PX0416/1M00 Overmoulded connector with SMB plug - cable length 1m PX0416/3M00 Overmoulded connector with SMB plug - cable length 3m PX0416/5M00 Overmoulded connector with SMB plug - cable length 5m

Front Panel Mount Connector



PX0414/xMxx

- Mates with Flex connectors (PX0415, PX0416)
- Single hole fixing
- Supplied with SMB jack
- terminated with RG-174 cable
- U.FL cable version also available



Description Part no.

PX0414/0M50 Panel connector with SMB jack - cable length 0.5m PX0414/1M00 Panel connector with SMB jack - cable length 1m PX0414/1M50 Panel connector with SMB jack - cable length 1.5m

Sealing Caps



PX0480 PX0481 PX0485 Sealing caps maintain IP rating when connectors are not in use

Part no. **Description** PX0480 Sealing cap for PX0414 chassis connector Sealing cap for PX0415 re-wireable flex connectors PX0481 PX0485 Sealing cap for PX0416 overmoulded flex connector 14319 Hand crimp tool for SMB

400 Series - SMB Buccaneer

Specifications



Electrical

Impedance: Frequency Range: Contact Resistance: 50Ω 0-4GHz

Centre: $6m\Omega$ (max.) Outer: 2.5mΩ (max.) Insulator Resistance: 1000MΩ (max.)

Mechanical:

Sealing:

IP68, EN60529:1992+A2:2013 (10m depth for 2 weeks)

IP69K, Tested in accordance with DIN 40050/Part 9 IP6k9k

EN60068-2-52 Test Kb Salt Mist Salt Mist

(Cyclic) Marine Severity Level 1

RG-174

Cable Acceptance:

Insertion/Withdrawal Force:

Insertion Force: 36N Withdrawal Force: 36N Cable Retention Force: 18N Mating Cycles: 500

Operating Temperature: -20°C to +80°C

Material:

PX0415/1 and PX0414 Body Mouldings: Flammability Rating: UV Resistance:

PX0416

Body Mouldings: Flammability Rating: O Rings:

Panel Sealing O Ring: SMB Connector

Body:

Centre Contact:

Plug: Jack: Insulator:

Crimp Ferrules: RoHS

Polyamide UL94V-0

To EN 50021:1999

PVC (black) UL94V-0 Nitrile Nitrile

Brass to QQ-B-626, Gold Plated

Brass to QQ-B-626, Gold Plated

Beryllium Copper to QQ-B-530, Gold Plated

Teflon

Annealed Copper Compliant

BUCCANEER FOR DATA 400 Series - Wireless Buccaneer





SMB Antenna

- 0 IP68, Tested in accordance with EN60529:1992+A2:2013
- 0 IP69K, Tested in accordance with DIN 40050/Part 9 IP6k9k
- 0 SMB 50 ohm interface
- 0 For use with SMB Buccaneer
- 0 Three frequency bands: 440 to 470MHz 850-900/1800/1900MHz 2.4 to 2.5GHz
- Maintains sealing integrity of equipment 0

Bluetooth Cable Replacement

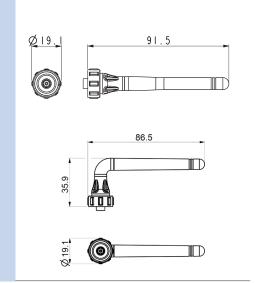
- 0 IP68, Tested in accordance with EN60529:1992+A2:2013
- RS485/RS232 serial interfaces Ó
- 0 Serial data to Bluetooth
- 0 Wireless transparent data connection
- 0 Up to 100m range (class 1)
- Maintains sealing integrity of equipment

400 Series - Wireless Buccaneer





- Dust & waterproof to IP68 EN60529 when mated
- \bigcirc Secure screw thread locking
- Built-in sealed antenna
- Mates with SMB Buccaneer PX0414
- Frequency bands: 2.4 to 2.5GHz 440 to 470MHz 850-900/1800/1900MHz



Part no.	Description
PX0407	IP68 rated, Buccaneer Antenna, 2.4 to 2.5GHz frequency band
PX0408	IP68 rated, Buccaneer Antenna, 440 to 470MHz frequency band
PX0409	IP68 rated, Buccaneer Antenna, 850-900/1800/1900MHz frequency band
PX0407/90	IP68 rated, Buccaneer Antenna, 2.4 to 2.5GHz frequency band
PX0408/90	IP68 rated, Buccaneer Antenna, 440 to 470MHz frequency band
PX0409/90	IP68 rated, Buccaneer Antenna, 850-900/1800/1900MHz frequency band

Specification

lectrical
ecuicai

Frequency PX0407

2.4 to 2.5GHz PX0408 440 to 470MHz

PX0409 850-900/1800/1900MHz

Configuration

PX0407 1/4 Wavelength PX0408 1/2 Wavelength PX0409 1/2 Wavelength

Radiation Omnidirectional Vertical Polarization Impedance 50Ω nominal VSWR <2

Mechanical

Sealing IP68, EN60529:1992+A2:2013, when mated (10m depth for 2 weeks)

IP69K, Tested in accordance with DIN 40050/Part 9 IP6k9k

Operating Temperature: -20°C to +65°C

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

Marine Severity Level 1

Material

Body Mouldings Flammability Rating **UV** Resistance

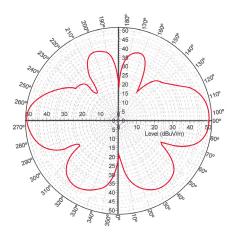
PVC UL94V-0 EN50021:1999 Compliant

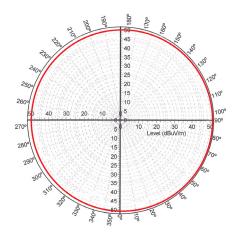
400 Series - Wireless Buccaneer

Polar/Antenna Plots

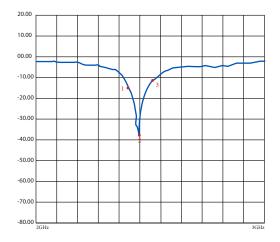


PX0407 Polar plots - 2.4 to 2.5GHz Frequency Band

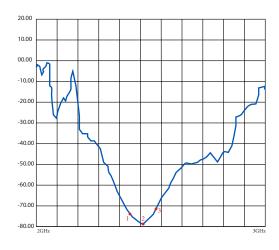




PX0407 Radiation Pattern plots



- 1 -12624 dB 2.v0 GHz 2 -34951 dB 2.45000 GHz 3 -12.777 dB 2500.000 000 MHz



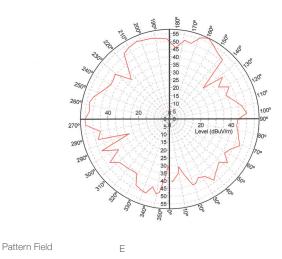
- 1 1.5659 dB 2.40000 GHz 2 1.6514 dB 2.45000 GHz 3 1.6032 dB 2500.000 000 MHz

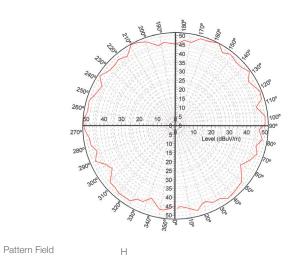
400 Series - Wireless Buccaneer

Polar/Antenna Plots

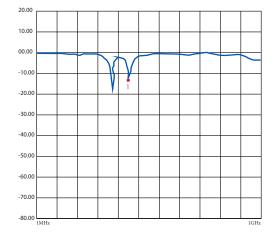


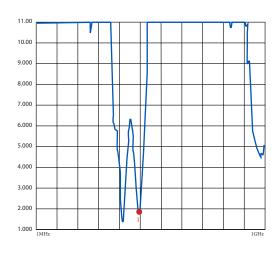
PX0408 Polar plots - 440 to 470MHz Frequency Band





PX0408 Radiation Pattern plots





1 450.00000 MHz -13.300 dB

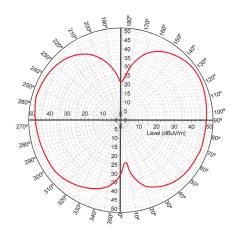
1 450.00000 MHz -13.300 dB

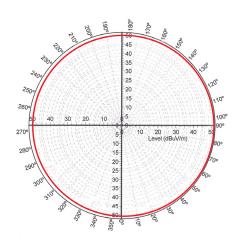
400 Series - Wireless Buccaneer

Polar/Antenna Plots



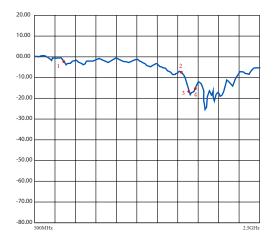
PX0409 / 850-900MHz Polar plots

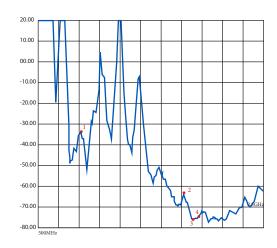




Pattern Field E Pattern Field H

PX0409 / 850-900MHz Radiation Pattern plots





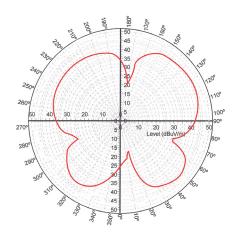
1 900.00000 MHz -3.4307 dB 2 1.8000000 GHz -9.0130 dB 3 1.8800000 GHz -19.516 dB 4 1.9000000 GHz -20.297 dB 1 900.00000 MHz 5.1694 dB 2 1.8000000 GHz 2.2481 dB 3 1.8800000 GHz 1.2377 dB 4 1.9000000 GHz 1.2052 dB

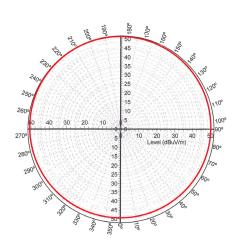
400 Series - Wireless Buccaneer

Polar/Antenna Plots



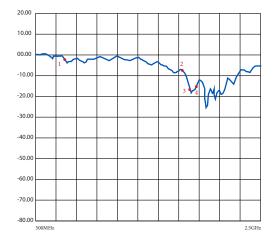
PX0409 / 1800MHz Polar plots

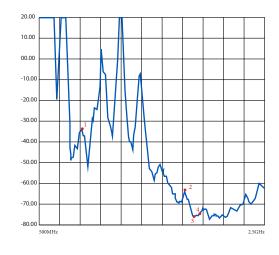




Pattern Field E Pattern Field H

PX0409 / 1800MHz Radiation Pattern plots





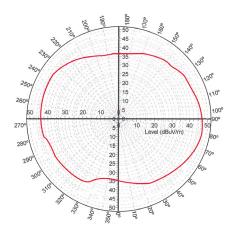
1 900.00000 MHz -3.4307 dB 2 1.8000000 GHz -9.0130 dB 3 1.8800000 GHz -19.516 dB 4 1.9000000 GHz -20.297 dB 1 900.00000 MHz 5.1694 dB 2 1.8000000 GHz 2.2481 dB 3 1.8800000 GHz 1.2377 dB 4 1.9000000 GHz 1.2052 dB

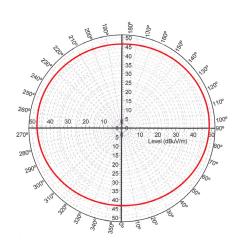
400 Series - Wireless Buccaneer

Polar/Antenna Plots

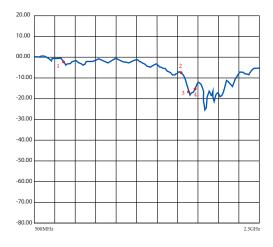


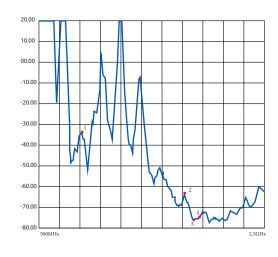
PX0409 / 1900MHz Polar plots





Pattern Field E Pattern Field H





1 900.00000 MHz -3.4307 dB 2 1.8000000 GHz -9.0130 dB 3 1.8800000 GHz -19.516 dB 4 1.9000000 GHz -20.297 dB 1 900.00000 MHz 5.1694 dB 2 1.8000000 GHz 2.2481 dB 3 1.8800000 GHz 1.2377 dB 4 1.9000000 GHz 1.2052 dB

600 Series - Ethernet Buccaneer



Our 600 Series - Ethernet Buccaneer Connectors provide a reliable ethernet connection in environments where regular Ethernet connectors would be prone to damage or malfunction.

They are designed to withstand the harshest of environments, such as outdoor, industrial, or military applications. These connectors are built with materials & features that protect against dust & water ingress, vibrations & extreme temperatures. The 600 series connectors come with EMI shielded & unshielded versions and are available in jam nut, flange mount, inline plug, and plug options.



Key Features:

- O Cat 5e & Cat 6a compliant
- O Supports 10, 100 & 1,000 Mbps data transmissions
- O POE, POE+ & POE++
- O DATA, VOiP & IPTV in Harsh Environments
- O Durability >500 cycles
- Operating temperature -40°C to +100°C

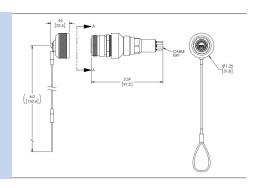
- Screw coupling
- O IP68-rated
- O EMI Shielded & Unshielded versions
- O Transversely Sealed IP68 when mated & unmated
- Sealing Cap option is available



Transversely Sealed Inline Plug



- O IP68 when mated & unmated
- Female RJ45 interface
- Screw couplingMates with Plug with cap & Plug
- Standard RJ45 cable to be sourced or modular connector

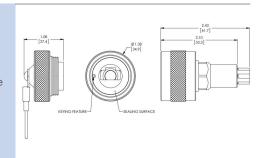


PXM0608

Part No.	Category	Plating	Colour	Cable Entry
PXM0608NSANBK4868	Standard RJ45 cable to be sourced Category 6a modular connector supplied	Anodised	Black	4.82-6.85mm
PXM06086FANBK4868		Anodised	Black	4.82-6.85mm



- O IP68 when mated
- O Male RJ45 to be installed
- Screw coupling
- Mates with Transversely Sealed Inline Plug, Jam Nut & Flange Mount
- Standard RJ45 cable to be sourced or modular connector



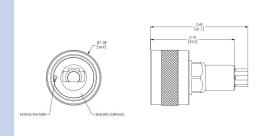
PXM0600

Part No.	Category	Plating	Colour	Cable Entry
PXM0600NSANBK4868	Standard RJ45 cable to be sourced	Anodised	Black	4.82-6.85mm
PXM0600NSANBK6883	Standard RJ45 cable to be sourced	Anodised	Black	6.88-8.38mm
PXM06006MANBK4868	Category 6a modular connector supplied	Electroless Nickel	Black	4.82-6.85mm
PXM06006MENBK4868	Category 6a modular connector supplied	Electroless Nickel	Black	4.82-6.85mm
PXM06006MENBK6883	Category 6a modular connector supplied	Electroless Nickel	Black	6.88-8.38mm

Plug



- IP68 when mated
- Male RJ45 to be installed
- O Screw coupling
- Mates with Transversely Sealed Inline Plug, Jam Nut & Flange Mount
- O Standard RJ45 cable to be sourced or modular connector



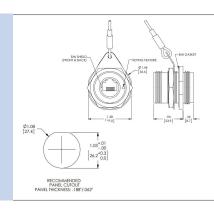
Part No.	Category	Plating	Colour	Cable Entry
PXM0609NSANBK4868	Standard RJ45 cable to be sourced	Anodised	Black	4.82-6.85mm
PXM0609NSANBK6883	Standard RJ45 cable to be sourced	Anodised	Black	6.88-8.38n



Jam Nut with Cap



- O IP68 when mated
- Female RJ45 interface
- Screw coupling
- Mates with Plug with cap & Plug
- O Panel thickness: 1.5-5mm



PXM0610

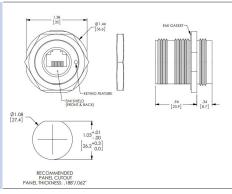
PXM0619

Part No.	Category	Plating	Colour	EMI Protection
PXM06105FANBKUS	Category 5e	Anodised	Black	Unshielded
PXM06106FENBKSH	Category 6a	Electroless Nickel	Black	Shielded

Jam Nut



- IP68 when mated
- O Female RJ45 interface
- Screw coupling
- Mates with Plug with cap & Plug
- Panel thickness: 1.5-5mm



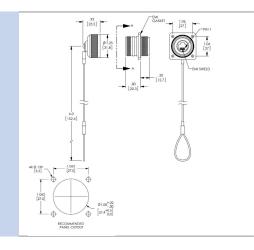
Part No.	Category	Plating	Colour	EMI Protection
PXM06195FANBKUS	Category 5e	Anodised	Black	Unshielded

Transversely Sealed Flange Mount



PXM0628

- O IP68 when mated & unmated
- Female RJ45 interface
- Screw coupling
- Mates with Plug with cap & Plug



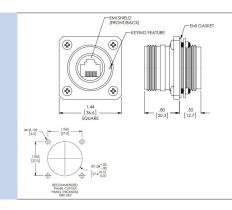
Part No.	Category	Plating	Colour	EMI Protection
PXM06285FANBKUS	Category 5e	Anodised	Black	Unshielded



Flange Mount with Cap & Mounting Hardware



- IP68 when mated
- Female RJ45 interface
- Screw coupling
- Mates with Plug with cap & Plug
- O Panel thickness: 1.5-5mm

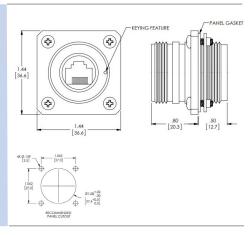


Part No.	Category	Plating	Colour	EMI Protection
PXM06275FANBKUS	Category 5e	Anodised	Black	Unshielded
PXM06276FENBKSH	Category 6a	Electroless Nickel	Black	Shielded
PXM06276FANBKUS	Category 6a	Anodised	Black	Unshielded

Flange Mount with Mounting Hardware



- O IP68 when mated
- Female RJ45 interface
- O Screw coupling
- Mates with Plug with cap & Plug
- O Panel thckness: 1.5-5mm



PXM0626

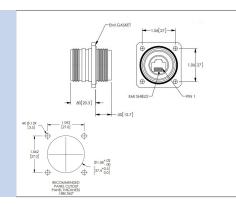
Part No.	Category	Plating	Colour	EMI Protection
PXM06265FANBKUS	Category 5e	Anodised	Black	Unshielded

Flange Mount



PXM0629

- IP68 when mated
- Female RJ45 interface
- Screw coupling
- Mates with Plug with cap & Plug



Part No.	Category	Plating	Colour	EMI Protection
PXM06295FANBKUS	Category 5e	Anodised	Black	Unshielded



Product Specification:

Shock Resistance:

Electrical

Humidity: Insertion Loss: Hi-pot high-voltage Test: Shell-to-shell conductivity: Electromagnetic Shielding Effectiveness:

100g 6ms 98% 1000 BASE-T 600VAC-60Hz, 900uA 1A @ 1.5VDC, 100hrs

20kHz, 150kHz, 14MHz, 400MHz, 600MHz, 1GHz, 2GHz, 8GHz, 10GHz, vert. and horz., <-60dB

Material:

Body: Plating: Hardware: Seals: Flammability: Lanyard:

Available in Anodised, Electroless Nickel Stainless Steel Compliant to V0, V1, 10sec each Stainless Steel Compliant

Mechanical:

Cycles: >500

Sealing: IP68, 1m depth for 48hrs Dust Test: 20mBAR air pressure, 8hrs

Termination: Crimp terminals Salt Spray: Mechanical Shock: 100G (6ms) Operating Temperature Range: -40° C to +100° C Panel Mount Thickness: 1.5-5mm Panel Mount Nut Torque: 1.6-1.7Nm

BUCCANEER FOR DATA 4000 Series - Micro USB Buccaneer





- 0 IP66, IP68 and IP69K rated
- USB version 2.0 performance 0
- 0 Plug and play capability
- 0 Shielded system
- 0 Overmoulded cables

- 0 EN60068-2-52 Test Kb Salt Mist (Cyclic) Marine Severity Level 1
- 0 Data rates up to 480Mbps
- 0 Secure, proven locking system
- Tamperproof Construction
- Colour coded O-rings & washers for easy identificaiton purposes

4000 Series - Micro USB Buccaneer

Sealed Micro USB Cables - Single Ended

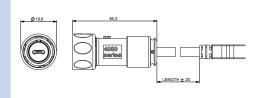


Sealed Micro 'B' to Standard 'A'



PXP4040/B

- Sealed Micro 'B' plug to Standard 'A' plug
- Available in 2, 3 & 5m lengths
- O Plug variant mates with PXP4043



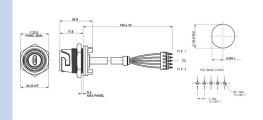
Part No.	Length	Description	
PXP4040/B/2M00	2.0m	IP-sealed micro 'B' to Standard 'A' type USB	
PXP4040/B/3M00	3.0m	IP-sealed micro 'B' to Standard 'A' type USB	
PXP4040/B/5M00	5.0m	IP-sealed micro 'B' to Standard 'A' type USB	

Rear Panel Mounting Connector



PXP4043

- Micro 'B' type
- Leaded with 5 way header
- Socket variant mates with PXP4040/B type cables



Part no. Description

PXP4043 IP-sealed B type Micro USB, rear panel mounted. 5 way header connector at rear.

Accessories



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

Part no.	Description
PXP4081	Sealing cap for use with PXP4010 & PXP4040/B
PXP4082	Sealing cap for use with PXP4011

Sealing cap for use with PXP4013 & PXP4043

PXP4083

Gland Packs



Part no.	Description
PXP4088/0305	Pack of 4 pairs cable glands and collets to suit cables from 3.0 to 5.0mm diameter.
PXP4088/0507	Pack of 4 pairs cable glands and collets to suit cables from 5.0 to 7.0mm diameter.

O-ring & washer pack



Part no.	Description	
PXP4089/YL	Yellow coloured O-ring and washer pack	
PXP4089/BL	Blue coloured O-ring and washer pack	
PXP4089/RD	Red coloured O-ring and washer pack	
PXP4089/WH	White coloured O-ring and washer pack	
PXP4089/GN	Green coloured O-ring and washer pack	

4000 Series - Micro USB Buccaneer



Cables & connectors

Mechanical

Sealing IP69K, DIN40050-9

IP68, EN60529:1992+A2:2013 (10m depth for 2 weeks) IP66, EN60529:1992+A2:2013

Panel Mount Nut 1.0 - 1.1NM (91lb.in)
Operating temperature -40°C to +70°C

Salt Mist EN60068-2-52 Test Kb Salt Mist (Cyclic) Marine Severity Level 1

Electrical

No. of Contacts 4 and 5

Current rating 1A

 $\begin{array}{lll} \mbox{Voltage rating} & \mbox{30V AC, 42V DC} \\ \mbox{Contact resistance} & \mbox{50m } \Omega \mbox{ max.} \\ \mbox{Performance} & \mbox{USB version 2.0} \\ \end{array}$

Materials - Re-wireable and Panel Connectors

Shell material Steel
Shell plating Nickel
Contact material Copper Alloy
Contact plating 50 micro inch Gold

Connector body & locking ring
Panel connector
PC/PBT
Flammability rating
'O' rings
Mating cycles
RoHS
PC/PBT
PC/PB

Materials - cable

Cable Jacket PVC (black)
Screen Tinned copper braid

Flammability UL94V-0
RoHS Compliant

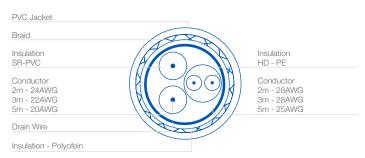
 Length:
 Dia
 Signal
 Power

 2m
 4.8mm
 2 x 28AWG
 2 x 24AWG

 3m
 5.0mm
 2 x 28AWG
 2 x 22AWG

 5m
 5.2mm
 2 x 25AWG
 2 x 20AWG

Cable construction - PXP4040/B & PXP4043



4000 Series - C-Type USB Buccaneer

Sealed C-Type USB Cables





- O IP66, IP68 and IP69K rated
- O USB3.2 supported
- Plug and play capability
- O Shielded system
- Secure, proven locking system

- © EN60068-2-52 Test Kb Salt Mist (Cyclic) Marine Severity Level 1
- Data rates up to 20 Gbps
- Tamperproof Construction
- O Colour coded O-rings & washers for easy identificaiton purposes

4000 Series - C-Type USB Buccaneer

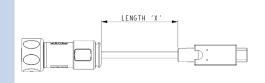
Sealed C-Type USB Cables





Sealed Plug USB 'C' to Standard Plug USB 'C'

- Available in 1, 2, 3 & 5m lengths
- Plug variant mates with PXP4043/C
- USB 3.2 Gen 2x2 Supported



PXP4041/C/C

Part No.	Length	Description	
PXP4041/C/C/1M00	1.0m	IP-sealed 'C' type to Standard 'C' type USB	
PXP4041/C/C/2M00	2.0m	IP-sealed 'C' type to Standard 'C' type USB	
PXP4041/C/C/3M00	3.0m	IP-sealed 'C' type to Standard 'C' type USB	
PXP4041/C/C/5M00	5.0m	IP-sealed 'C' type to Standard 'C' type USB	
PXP4041/C/C/5M00	5.0m	IP-sealed 'C' type to Standard 'C' type USB	



Sealed 'C' type to Standard 'A'

- O Sealed Plug USB 'C' to Standard Plug USB 'A'
- Available in 1, 2, 3 & 5m lengths
- Plug variant mates with PXP4043/C
- USB 3.2 Gen 1 Supported



PXP4040/C/A

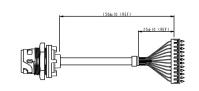
Part No.	Length	Description
PXP4040/C/A/1M00	1.0m	IP-sealed 'C' type to Standard 'A' type USB
PXP4040/C/A/2M00	2.0m	IP-sealed 'C' type to Standard 'A' type USB
PXP4040/C/A/3M00	3.0m	IP-sealed 'C' type to Standard 'A' type USB
PXP4040/C/A/5M00	5.0m	IP-sealed 'C' type to Standard 'A' type USB



Rear Panel Mount

PXP4043/C

- O Sealed Socket USB 'C' Connector
- Leaded with 2x 12 way header
- Socket variant mates with PXP4040/C/A and PXP4041/C/C type cables
- USB 3.2 Gen 2 Supported



Part no.

Description

PXP4043/C

IP-sealed 'C' type USB, rear panel mounted. 2x 12 way header connector at rear



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

Part no.

Description

PXP4081

Sealing cap for use with PXP4040/C/A and PXP4041/C/C

PXP4083

Sealing cap for use with PXP4043/C

O-ring & washer pack



Part no.	Description
PXP4089/YL PXP4089/BL	Yellow coloured O-ring and washer pack Blue coloured O-ring and washer pack
PXP4089/RD	Red coloured O-ring and washer pack
PXP4089/WH PXP4089/GN	White coloured O-ring and washer pack Green coloured O-ring and washer pack

4000 Series - C-Type USB Buccaneer

Sealed C-Type USB Cables



Cables & connectors

Mechanical

Sealing IP69K, DIN40050-9

IP68, EN60529:1992+A2:2013 (10m depth for 2 weeks) IP66, EN60529:1992+A2:2013

Panel Mount Nut 1.0 - 1.1Nm (91lb.in)
Operating temperature -40°C to +80°C

Salt Mist EN60068-2-52 Test Kb Salt Mist (Cyclic) Marine Severity Level 1

Electrical

No. of Contacts $2x \ 12 \ way$ Current rating 5AVoltage rating $\leq 30V \ AC$ Contact resistance $40m \ \Omega \ max$.

USB3.2 Gen 1: 5Glps (2m maximum length)
USB3.2 Gen 2: 10Glps (1m maximum length)
USB3.2 Gen 1x2: 10Glps (2m maximum length)
USB3.2 Gen 2x2: 20Glps (1m maximum length)

Materials - Re-wireable and Panel Connectors

Shell material Stainless Steel
Shell plating Nickel
Contact material Copper Alloy
Contact plating 30 micro inch Gold

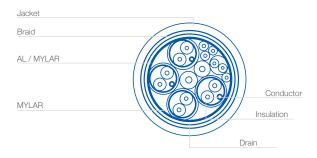
Connector body & locking ring
Panel connector
PC/PBT
Flammability rating
'O' rings
Mating cycles
Mating cycles
Compliant

Materials - cable

Cable Jacket PVC (black)
Screen Tinned copper braid

Flammability UL94V-0 Compliant

Cable construction - PXP4040/C/A, PXP4041/C/C & PXP4043/C



4000 Series - C-Type USB Buccaneer



PXP4043/C

	Wire Colour	Label	Туре	Cable Number	PCB Header Plugs P2	PCB Header Plugs P3
A1	_	Gnd	Braid	-	1	-
A2	Orange	Txl+	, Shielded Twisted ,	3	2	-
A3	Brown	TxI-	Shielded Twisted	3	3	-
A4	Red	Vbus	Power	11	4	-
A5	Blue	CC	Single	10	5	-
A6	White	D0+	, Shielded Twisted ,	5	6	-
A7	Green	D0-	Shielded Twisted	5	7	-
A 8	Orange	SbuA	Single	8	8	-
A9	Red	Vbus	Power	11	9	-
A10	Blue	Rx2+	, Shielded Twisted	2	10	-
A11	Black	Rx2-	Shielded Twisted)	2	11	-
A12	-	Gnd	Braid	-	12	-
B1	-	Gnd	Braid	-	-	12
B2	White	Tx2+	, Shielded Twisted	1	-	11
В3	Red	Tx2-	Shielded Twisted ^J	1	-	10
B4	Red	Vbus	Power	11	-	9
B 5	Yellow	Vconn	Single	9	-	8
В6	Purple	DI-	Twisted Pair	6	-	7
B7	Grey	DI+	Twisted Pair	6	-	6
B8	Brown	SbuB	Single	7	-	5
B9	Red	Vbus	Power	11	-	4
B10	Yellow	RXI-	, Shielded Twisted	4	-	3
B11	Green	RXI+	Shielded Twisted)	4	-	2
B12	-	Gnd	Braid	-	-	1

Receptacle Plug Colour Key:

A1, A12, B12, B1: Cable Ground

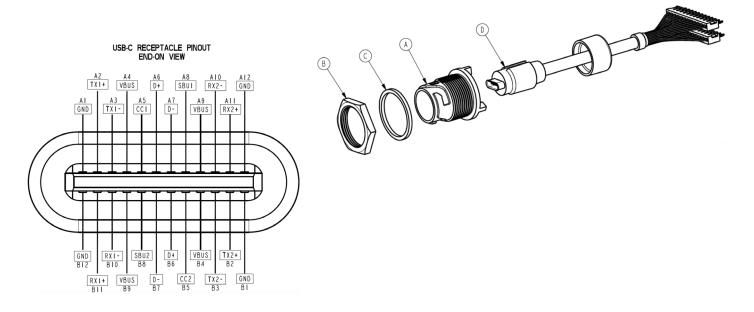
A2, A3, B3, B2: High Speed Path (TX for USB or for DP Alt mode)
A4, A9, B9, B4: Cable Bus Power

A4, A9, B9, B4: Cable Bus Power **A6, A7, B7, B6:** USB 2.0 Interface

A8, B8: For Sideband Use (not used for USB)

A5, B5: Plug Configuration Detection (- One becomes Vconn, for cable or adaptor power. - CC is used for USB-PD communication)

A10, A11, B11, B10: High Speed Data Path (RX for USB, or TX for DP Alt Mode)



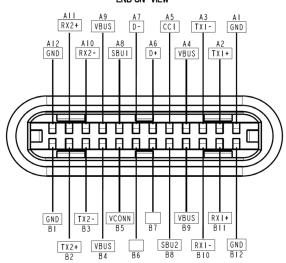
4000 Series - C-Type USB Buccaneer



PXP4040/C/A

	Wire Colour	Label	Туре	Cable Number	USB-3 Plug P2
A1, B1, A12, B12 A4, B4, A9, B9	- Red	Gnd Vbus	Braid -	- 10, 11	4, 7 1
A5	-	CC	-	-	-
B5	-	Vconn	-	-	-
A6	Green	Dp 1	Twisted Pair	5	3
A7	White	D -	Twisted Pair	5	2
A2	Blue (Brown Jacket)	SSTXp 1	, Twisted Pair \	1	6
A3	White (Brown Jacket)	SSTXn 1	Twisted Pair	1	5
B11	Blue (Red Jacket)	SSRXp 1	Twisted Pair	2	9
B10	White (Red Jacket)	SSRXn 1	Twisted Pair	2	8
Shell	- 1	-	Braid	Screen	Shield
	i i		T i	i	

USB-C PLUG PINOUT END-ON VIEW



Wiring Notes:

- 1. Cable used has shielded twisted pairs with drain wires used for all SDP's.
- 2. Pin A5 (CC) of the USB Type-C Plug shall be connected to Vbus through a 56 K Ω ±5% resistor.
- 3. Contaacts B6 and B7 are not connected in the USB Type-C Plug.
- 4. All Vbus pins are connected together within the USB Type-C Plug. A Bypass Capacitor is required between the ground pins in the USB Type-C Plug side of the cable. The Bypass Capacitor is 10nF ± 20%. The bypass capacitor shall is as close as possible to the power supply pad.
- ${\bf 5.}$ All ground return pins are connected together within the USB Type-C Plug.
- 6. Shield and Gnd grounds are connected within the USB Type-C and USB 3.1 standard-A plugs on both ends of the cable assembly.
- 7. All USB Type-C plug pins that are not listed in this table shall be open (not connected).

6000 Series - USB Buccaneer



6000 Series Buccaneer – circular connectors that combine the ease of use of a push/pull coupling mechanism with proven environmental sealing. Available with metal or plastic bodies, the range supports both data (USB and Ethernet), signal and mains power. 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.

○ 30° twist locking

Tamperproof lock prevents accidental un-mating

- IP66, IP68 and IP69K when mated
 Suitable for a wide range of dust and water borne environments
- Independent sealing testsIP Ratings independently verified
- USB version 2.0 performance
 Low and high speed bus connection, 1.5Mbps to 480Mbps
- Plug and play capability
 Hot pluggable, standard 4 Contact interface
- Shielded system
 High noise immunity and EMI protection
- Single and double ended cables
 Suitable for PCB and peripheral configuration
- Push-pull latching system*
 Secure, instant latching. Quick connector mating and release
- O Cat 5e compliant
 Data rate up to 100Mbps
- PUR jacket on cable
 Good chemical resistance, flame retardant

- Cat 5e shielded coupler Maintains shielding
- Visual mating indication
 Alignment indicator reduces risk of damage during mating
- O Earth lead version of panel adaptor on plastic connector Continuous screening of panel mount connector
- Metal connector grounded to cable screen
 Continuous screening of panel mount connector
- Sealed through panel Ethernet Prevent water ingress into equipment
- EN60068-2-52 Test Kb Salt Mist (Cyclic) Marine Severity Level 1



6000 Series - USB Buccaneer

USB Thermo Plastic



Sealed USB Cables - Single Ended

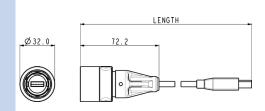


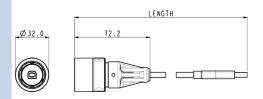
PXP6040/A



PXP6040/B

- Single ended sealed cable assembly
- Mates with all panel mounting connectors
- O IP rated 'A' type USB connector to standard 'B' type USB connector, mates with all panel mount connectors
- IP rated 'B' type USB connector to standard 'A' type USB connector, mates with all panel mount connectors
- O Available in 2m, 3m & 5m lengths





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

Sealed USB Cables - Double Ended



PXP6041/AB

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

Ø 32.0	LENGTH	7 Ø 32.0
	72.2 12.2	

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

6000 Series - USB Buccaneer

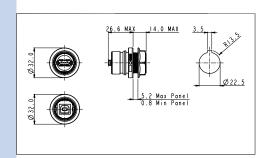
USB Thermo Plastic



Front Panel Mounting Connector



- 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

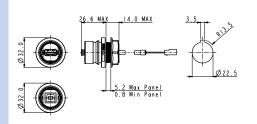
PXP6042/A PXP6042/B IP rated A type USB, front panel mounted. Sealed A type at front of panel, standard B type at rear. IP rated B type USB, front panel mounted. Sealed B type at front of panel, standard A type at rear.

Front Panel Mounting Connector



PXP6043/B PXP6043/A

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



Part No.

Description

PXP6043/A PXP6043/B IP rated A type USB, front panel mounted. Sealed A type at front of panel, 5 way crimp connector at rear. IP rated B type USB, front panel mounted. Sealed B type at front of panel, 5 way crimp connector at rear.

6000 Series - USB Buccaneer

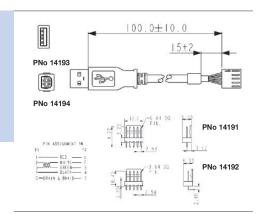
Accessories





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

Part No.	Description
14193	USB 'A' type to 5 way crimp connector
14194	USB 'B' type to 5 way crimp connector
14191	5 way PCB header straight
14192	5 way PCB header right angle

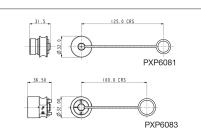






PXP6083 & PXP6081

- Sealing caps to maintain IP rating when connectors are not in use
- O PXP6081 for cable connectors PXP6040 & PXP6041
- PXP6083 for front panel mount connectors PXP6042 & PXP6043, with 30° twist lock



Part No. Description

PXP6081 PXP6083 Sealing Cap for Flex cable connectors (PXP6040, PXP6041) Sealing Cap for front panel mounting connector (PXP6042, PXP6043)

BUCCANEER FOR DATA 6000 Series - USB Buccaneer

USB Thermo Plastic - Part No System



PXP	/	6XXX	/ X or XX /	/	XXXX
Series Designation		Series / Body Style 040 = Single ended cable 041 = Double ended cable 042 = Panel with adaptor 043 = Panel with lead	Characteristics A = 'A' type sealed interface B = 'B' type sealed interface AB = 'A' & 'B' type sealed interface (for use with 6041 only)		Cable length 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

 $\label{eq:pxpequal} PXP6040/A/2M00 = Cable \ assembly \ with \ sealed \ 'A' \ type \ connector \ to \ unsealed \ 'B' \ type \ connector, 2 \ metres \ long$

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

6000 Series - USB Buccaneer

USB Thermo Plastic - Specifications



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 30m Ω 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
'O' rings
Panel Gasket - round
Panel Gasket - flange
UL94V-0
Silicone
Silicone

Materials - cable

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

RoHS Compliant

 Length:
 Dia
 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

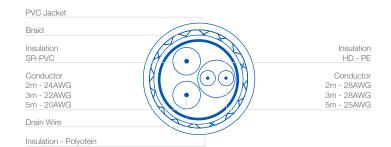
No. of conductors 4 Current rating 1A

 $\begin{array}{ll} \mbox{Voltage rating} & \mbox{30V AC (RMS)} \\ \mbox{Contact resistance} & \mbox{<10m}\Omega\mbox{ max.} \\ \mbox{PCB pitch} & \mbox{2.54mm} \end{array}$

Materials

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

Cable construction - PXP6040, PXP6041



6000 Series - Ethernet Buccaneer

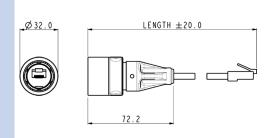
PXP6037



Patch Cord Flex Connector - Pur Jacket Cable



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

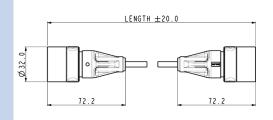


Part no Type	Length	Description	
PXP6037/2M00 Single ended PXP6037/3M00 Single ended PXP6037/5M00 Single ended	2m 3m 5m	IP RJ Buccaneer to Shielded RJ45 IP RJ Buccaneer to Shielded RJ45 IP RJ Buccaneer to Shielded RJ45	

Patch Cord Flex Connector - Pur Jacket Cable



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



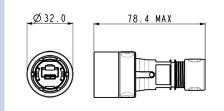
	PAP0038

Part no	Туре	Length	Description
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 0 plug
- Two versions: for PUR jacket cable (Cat 5e) for other cable sizes from 4.0 to 10.0mm dia.



Part no

Description

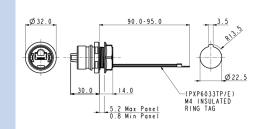
PXP6034/A PXP6034/B

Cable glands optimised for PUR jacket cable to maintain Cat 5e performance Suitable for use with cables from 4.0 to 10.0mm diameter

Front Panel Mounting Connector



- Sealed through panel
- O 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



PXP6033TP

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

6000 Series - Ethernet Buccaneer

Metal version



Re-wireable Flex Connector

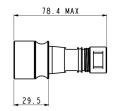


 Mates with PXM6033TP type panel mounting connectors

○ 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.





PXM6034

Part no	Description

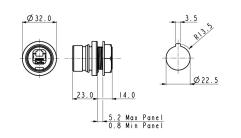
PXM6034/A PXM6034/B Cable glands optimised for PUR jacket cable to maintain Cat 5e performance Suitable for use with cables from 4.0 to 10.0mm diameter

Front Panel Mounting Connector



PXM6033

- Sealed through panel
- O 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
- O Complete with panel sealing gasket



Part no Description Fixing

PXM6033TP

Cat 5e coupler

Front panel mounted - sealed through panel

6000 Series - Ethernet Buccaneer



Sealing Caps

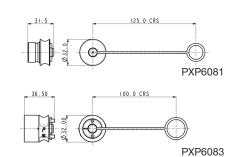


PXP6083 & PXP6081

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



Part no Description

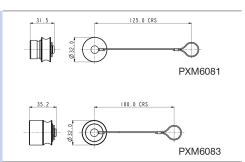
PXP6081 Sealing Cap for plastic Flex cable connectors PXP6083 Sealing Cap for plastic front panel mounting connector



Metal connectors

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

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



Part no Description PYM6081 Sealing Cap for metal Flex

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

6000 Series - Ethernet Buccaneer



PX X X or XXXX **6XXX** XX

Series Designation

PXP - Plastic

Series / Body Style

033 = Panel 034 = Re-wireable Flex 037 = Patchcord (Single Ended) 038 = Patchcord (Double Ended)

Panel Sealing

TP = through panel sealing (for use with PXP6033 panel body only)

Blank = not applicable

Characteristics

E = Earth lead (for use with PXP6033 plastic panel body only)
A = Glanding for PUR cable (for use with PXP6034 re-wireable flex only)
B = Glanding for 3.5 to 8mm cables (for use with PXP6034 re-wireable flex 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)

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

 ${\sf PXM6033TP} = {\sf Panel \ mounted \ coupler}, \ {\sf through \ panel \ sealed}$

6000 Series - Ethernet Buccaneer



Ethernet - Metal and Thermo-plastic versions

Connectors

Mechanical

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 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.

Conductors 24AWG (7/0.2mm) bare copper HD-PE

Insulation

2 of the above cores twisted Pair Core 4 of the above cores Tape 1 lap mylar tape

1 layer mylar and aluminium tape, Screen 0.12mm tinned copper braid

Sheath PUR Jacket Black Op Temperature -25°C to +85°C 10 x O/D (installation) Min. bend radius Min, bend radius 6 x O/D (installed) Diameter 6.1mm nominal

Electrical @ 20°C

Characteristic

100Ω ±15Ω @ 100MHz Impedance

330pF/km Capacitance Conductor Loop

29Ω/100m maximum resistance 45 nsec/100m @ 100MHz Skew

TIA/EIA Rating Cat 5e & POE

Cable construction - PXP6037, PXP6038 and 14199

PCB adaptor leads

Electrical

No. of conductors 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



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