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Circular Data Connectors

Product Catalogue

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.

- IP68 when mated, Tested in accordance with EN60529:1992+A2:2013
- IP69K when mated, Tested in accordance with DIN 40050/Part 9 IP69k
- EN60068-2-52 Test Kb Salt Mist (Cyclic) Marine Severity Level 1
- Secure, proven & reliable screw locking mechanism
- PUR / PVC Jacket on cable
- Chemical resistance & flame retardant
- Cat 8 toolless Keystone IDC connector
- Data rates up to 25Gbps

- Backwards compatibility throughout
- Cat 5e or Cat 6a Shielded coupler
- Rewireable Flex connector up to Cat 6a
- Field termination up to Cat 6a
- Earth lead version of panel mounting coupler
- Cat 5e PCB Mount & IDC termination panel connector
- High noise immunity, full shielding and EMI protection
- Power over Ethernet (PoE) compliant

Standard Buccaneer - Ethernet

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Patch Cord Flex Connector

- • Mates with all panel mounting connectors
- • Patchcords with IP68 connector
- • Supplied with shielded RJ45 plug
- • Single or double end terminated
- • Standard lengths: 2m, 3m & 5m
- • S-FTP cable construction
- • PUR (Cat 5e) or PVC (Cat 6a / 8) jacket cable
- • Wiring configuration to 568-B

PX0836

LENGTH ±20.0
Ø 38.1   60.6

LENGTH ±20.0
Ø 38.1   60.6

LENGTH ±20.0
60.6   60.6
Ø 38.1
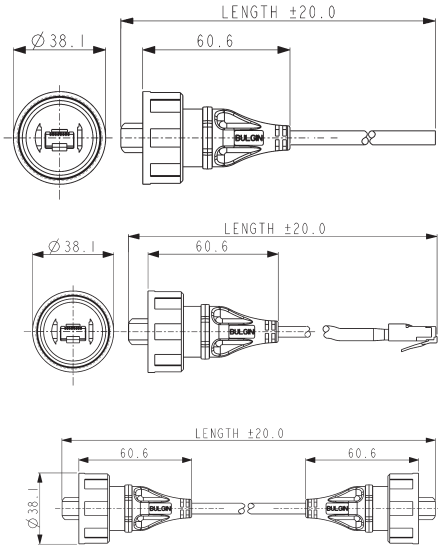
Part no.	Type	Length	Description
PX0836/2M00	Wire end	2m	Cat 5e IP68 RJ45 Buccaneer to bare end
PX0836/3M00	Wire end	3m	Cat 5e IP68 RJ45 Buccaneer to bare end
PX0836/5M00	Wire end	5m	Cat 5e IP68 RJ45 Buccaneer to bare end
PX0837/2M00	Single ended	2m	Cat 5e IP68 RJ45 Buccaneer to Shielded RJ45
PX0837/3M00	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

- • Mates with all panel mounting connectors
- • Supplied with shielded RJ45 plug
- • Two versions:
- • 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.

PX0834

Ø 38.1   77.5
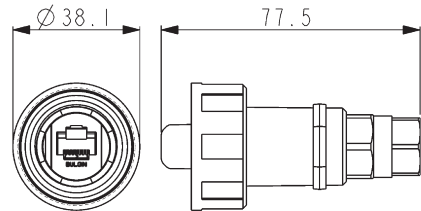
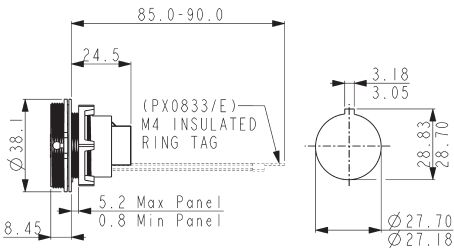| Part no.	Description
PX0834/A	Cat 5e suitable for use with cables from 5 to 6mm diameter
PX0834/B	Cat 5e with 2 extra cable glands, suitable for use with cables from 3.5 to 8mm diameter
PX0894/A	Cat 6a suitable for use with cables from 5 to 6mm diameter
PX0894/B	Cat 6a with 2 extra cable glands, suitable for use with cables from 3.5 to 8mm diameter

Standard Buccaneer - Ethernet

Front Panel Mounting Coupler 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
- Single hole fixing
- Complete with panel sealing gasket

PX0833

85.0-90.0
24.5
(PX0833/E)
M4 INSULATED
RING TAG
Ø38.1
3.18
3.05
28.83
28.70
5.2 Max Panel
0.8 Min Panel
8.45
Ø27.70
Ø27.18

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

- 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

PX0855/KS

36
3.18
3.05
Ø38
28.83
28.70
8.45
5.2 Max Panel
0.8 Min Panel
Ø27.70
Ø27.18
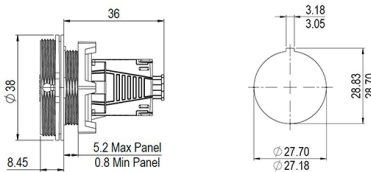
Part no.	Description	Fixing
PX0855/KS	Cat 8 Keystone connector	Front panel mounted

Rear Panel Mounting Keystone Connector

- 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

PX0856/KS

29
2.60
2.70
45
Ø42
19.50
19.30
5.2 Max Panel
0.8 Min Panel
Ø35.70
Ø35.25
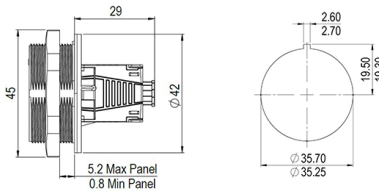
Part no.	Description	Fixing
PX0856/KS	Cat 8 Keystone connector	Rear panel mounted

Standard Buccaneer - Ethernet

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Flange Mounting Connector

PX0870

- 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
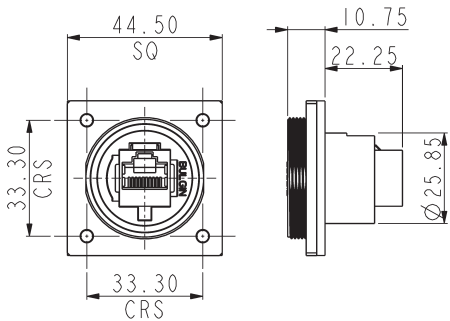
Part no.	Description	Fixing
PX0870	Cat 5e coupler	Flange mounting
PX0870/E	Cat 5e coupler + earth wire	Flange mounting
PX0890	Cat 6a coupler	Flange mounting
PX0890/E	Cat 6a coupler + earth wire	Flange mounting

PCB Mounting Connector

PX0839/PC

- Cat 5e shielded RJ45 interface
- Rear of panel mounted
- Mates with PX0836, PX0837,PX0838 and PX0834 flex connectors
- For direct vertical mounting to PCB, straight Plugs
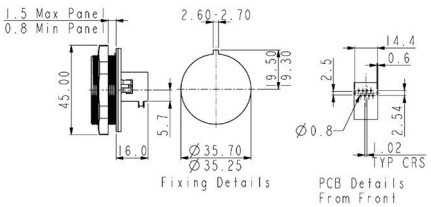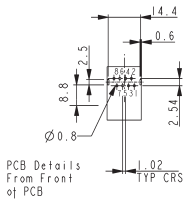- Complete with panel sealing PX0839/PC gasket
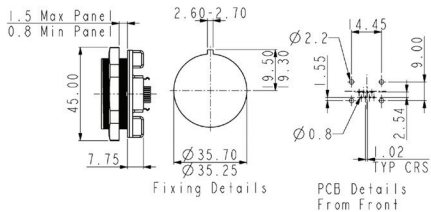
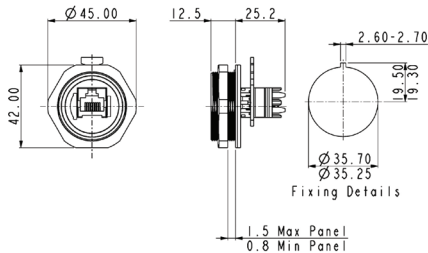| Part no.	Description	Fixing
PX0839/PC	Cat 5e connector - PC	Rear panel mounted

PCB Mounting Connector

PX0839/90

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

Part no.	Description	Fixing
PX0839/90	Cat 5e connector - 90 degree Plugs	Rear panel mounted

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Panel Mounting Connector

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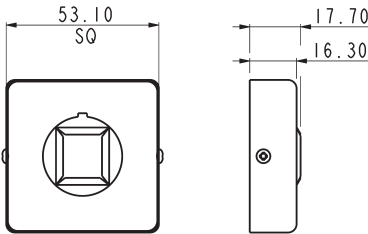- Complete with panel sealing

PX0839/IDC

Part no.	Description	Fixing
PX0839/IDC	Cat 5e coupler - IDC	Rear panel mounted

Shield Back Shell Accessory

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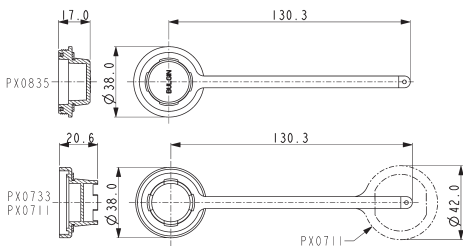- For use on PX0833, PX0893 & PX0855

PX0888

Part no.	Description
PX0888	Shielding backshell accessory

Accessories

- 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

Sealing Caps

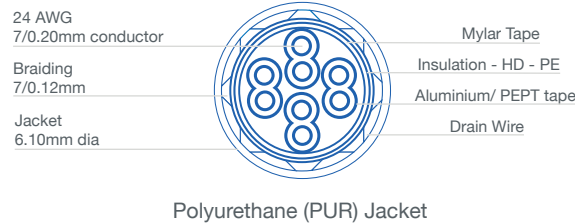| Part no.	Description
PX0835	Sealing Cap for use on all ethernet flex connectors
PX0733	Sealing Cap for use on all front panel mounting connectors
PX0711	Sealing Cap for use on all rear panel mounting connectors
14151	Cat 5e & Cat 6a Hand crimp tooling + die set
14199	Cat 5e PUR Jacket Cable - 50m reel
14150	Cat 5e Replacement shielded RJ45
15241	Cat 6a PVC Jacket Cable - 50m reel

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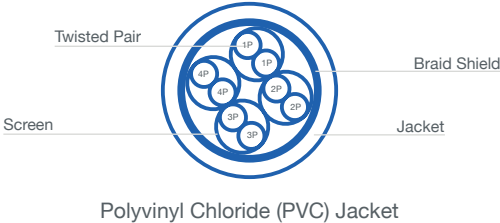| Connectors	Cat 5e & 6a	Cat 8
Sealing:	IP68, EN60529:1992+A2:2013 (10m depth for 2 weeks)	IP68, EN60529:1992+A2:2013 (10m depth for 2 weeks)
	IP69K, Tested in accordance with DIN 40050/Part 9 IP6k9k	IP69K, Tested in accordance with DIN 40050/Part 9 IP6k9k
Operating Temperature:	–20°C to +70°C	–20°C to +60°C
Materials - Overmoulded		
Overmould material:	PVC (black)	Polyamide (black)
Flammability rating:	UL94V-0	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
Flammability rating	UL94V-0
'O' rings	Silicone
Panel Gasket - round	Silicone
Panel Gasket - flange	Neoprene
RoHS	Compliant

Cables & POE	Cat 5e	Cat 6a	Cat 8
Conductors	24AWG (7/0.2mm) bare copper	26AWG (7/0.16mm) bare copper	26AWG (7/0.16mm) bare copper
Insulation	HD-PE	PE (Skin - Foam - Skin)	N/A
Pair	2 of the above cores twisted	2 of the above cores twisted	2 of the above cores twisted
Core	4 of the above cores	4 of the above cores	4 of the above cores
Screen	1 layer mylar and aluminium tape,	Aluminium & Polyester	Aluminium & Polyester
Braid	0.12mm tinned copper braid	Tinned Copper Braid	Tinned Copper Braid
Jacket	PUR (Black)	PVC (Black)	PVC (Black)
Op Temperature	–25°C to +85°C	–25°C to +75°C	–20°C to +60°C
Diameter	6.1mm nominal	6.0 mm nominal	6.0 mm nominal
Flame Test		FT4	
Electrical @ 20°C			
Characteristic:			
Impedance	100 Ω ±15 Ω @ 100MHz		
Capacitance	330pF/km		
Conductor Loop			
Resistance	29/Ω100m maximum	26Ω /km	
Skew	45 nsec/100m @ 100MHz		
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	12.95W	71W	71W
Current rating	350mA	960mA	1500mA
Voltage rating (DC)	44-57V	41.1V-57V	72V
Mechanical Characteristics			
Minimum Tensile Strength of Jacket (kgf/mm^2)		1.05	
Maximum Length for Strip of Jacket (mm)		40	

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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

Twisted Pair

Screen

Braid Shield

Jacket

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 multistranded	24-28AWG, solid or multistranded	26AWG, multistranded (pre-terminated)
Current rating	350mA	1500mA	1500mA
Voltage rating	37V AC, 57V DC	30V AC, 42V DC	72V DC
Contact resistance	10mΩ	10mΩ	20mΩ max.

Cat 8 (Keystone)

Materials	
Coupler Shell	Zinc
Coupler Plating	Nickel
Moulding	PC
IDC Housing	PC
IDC Cap	PC + glass fibre
IDC Terminal	Tin plated Phosphor Bronze
Ground Contact	Stainless 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
RoHS	Compliant

Electrical	
No. Conductors	8
Current rating	1.5A
Voltage rating	100V DC
Dielectric Withstand	1000V DC/AC @ 60hz for 1 minute
Contact resistance	10mΩ max.

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

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

Standard Buccaneer - Ethernet

Cable Joiner

- IP68 Rating
- For Sealed Inline RJ45 Connections
- Supplied Complete with Coupler
- Shielded (STP) & Unshielded (UTP) versions
- Cat5e Shielded Coupler also available
- Cable Range 3.5 - 8mm (with glands supplied)

PX0777

105.0 MAX.

Ø38.1
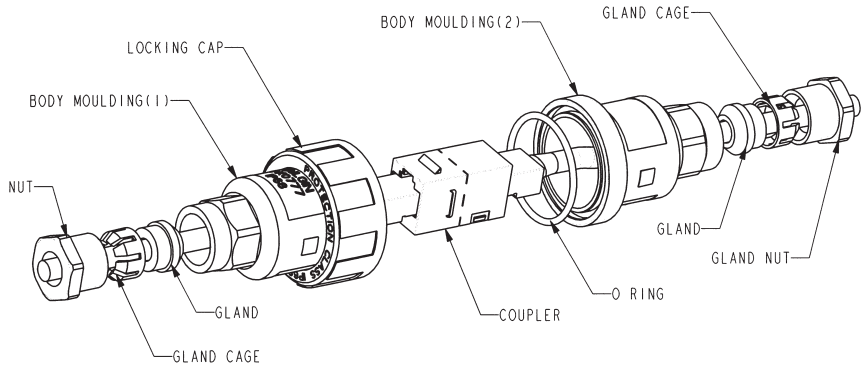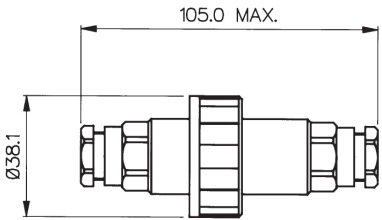
| Specifications	PX0777/UTP	PX0777/STP	PX0777/CAT5ESTP	PX0777/CAT6ASTP
Rating:	1.5A, 30V AC, 42V DC	1.5A, 30V AC, 42V DC	1.5A, 30V AC, 42V DC	1.5A, 30V AC, 42V DC
No. of Conductors:	8	8	8	8
Coupler Type:	Unshielded	Shielded	Shielded CAT5e performance	Shielded CAT6a performance
Cable Range:	3.5 - 8mm	3.5 - 8mm	3.5 - 8mm	3.5 - 8mm
	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)	5 - 7mm (Green)	5 - 7mm (Green)	5 - 7mm (Green)
	6 - 8mm (Red)	6 - 8mm (Red)	6 - 8mm (Red)	6 - 8mm (Red)
Material:	Glass Filled Polyamide UL94V-0	Glass Filled Polyamide UL94V0	Glass Filled Polyamide UL94V0	Glass Filled Polyamide UL94V0
Sealing:	IP68 to BSEN 60529:1992+A2:2013 (10m depth for 2 weeks)	IP68 to BSEN 60529:1992+A2:2013 (10m depth for 2 weeks)	IP68 to BSEN 60529:1992+A2:2013 (10m depth for 2 weeks)	IP68 to BSEN 60529:1992+A2:2013 (10m depth for 2 weeks)
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	EN60068-2-52 Test Kb Salt Mist (Cyclic) Marine Severity Level 1	EN60068-2-52 Test Kb Salt Mist (Cyclic) Marine Severity Level 1
Operating Temp Range:	–20ºC to +70ºC	–20ºC to +70ºC	–20ºC to +70ºC	–20ºC to +70ºC
Colour:	Black	Black	Black	Black
RoHS	Compliant	Compliant	Compliant	Compliant

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

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

Standard Buccaneer - HDMI

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Sealed HDMI Cables - Single Ended

- Single ended sealed cable assembly
- IP68 HDMI connector to standard HDMI connector
- Mates with all panel mount connectors
- Available in 2m, 3m & 5m lengths
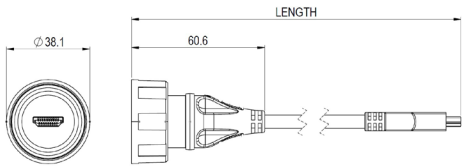
PX0867

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

- Double ended sealed cable assembly
- IP68 HDMI connector to IP68 HDMI connector
- Mates with all panel mount connectors
- Available in 2m, 3m & 5m lengths
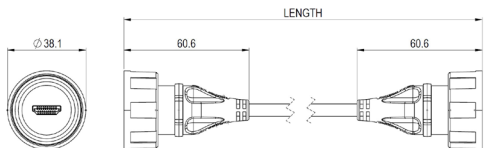
PX0868

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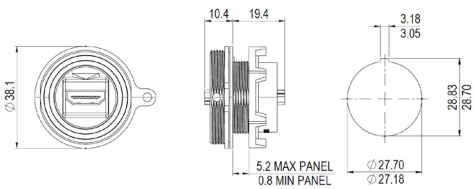
PX0863

Part no.	Description
PX0863	IP68 HDMI female, front panel mounted. Sealed HDMI at front of panel, standard HDMI type at rear

Standard Buccaneer - HDMI

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Front Panel Mounting Connector

- PX0863/1M00 – HDMI IP68 connector with 1m HDMI male lead at rear of panel
- Mates with PX0867 and PX0868 cable connectors
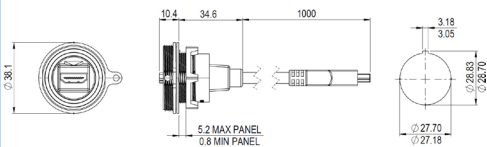
PX0863/1M00
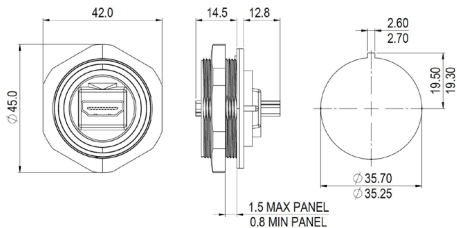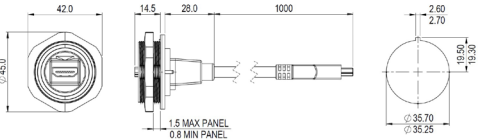
Part no.	Length	Description
PX0863/1M00	1m	IP68 HDMI female with 1m lead, front panel mounted, sealed HDMI at front of panel, standard HDMI at rear

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Rear Panel Mounting Connector

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

PX0869

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 – HDMI IP68 connector with 1m HDMI male lead at rear of panel
- Mates with PX0867 and PX0868 cable connectors

PX0869/1M00

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

Standard Buccaneer - HDMI

Accessories

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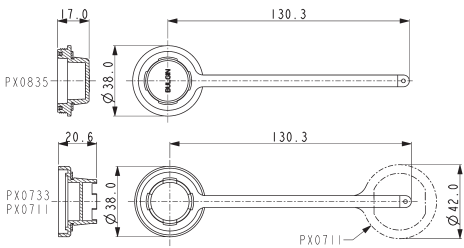
Sealing Caps

Part no.	Description
PX0835	Sealing Cap for cable connectors (PX0867, PX0868)
PX0733	Sealing Cap for front panel mounting connector (PX0863, PX0863/1M00)
PX0711	Sealing Cap for rear panel mounting connector (PX0869, PX0869/1M00)

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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	-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	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)
Braid	Aluminium-Magnesium Alloy
Screen Foil	Aluminium Foil
Insulation	HDPE and F-PE
Drain Wire	Tin-Copper Alloy
Flammability Rating	UL94V-0

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

Cable construction - PX0867, PX0868
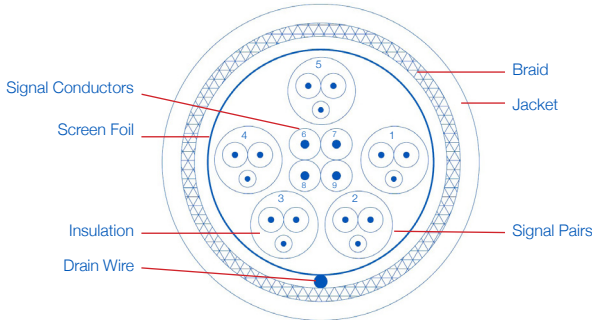
Standard Buccaneer - USB

- IP68 when mated, tested in accordance with EN60529:1992+A2:2013

- IP69K when mated, tested in accordance with DIN 40050/Part 9 IP6k9k

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

- USB version 2.0 and 3.0 performance

- 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

- 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

Standard Buccaneer - USB

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

LENGTH
Ø 38.1   60.6

PX0840/A/xMxx
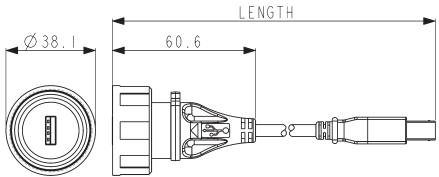
LENGTH
Ø 38.1   60.6
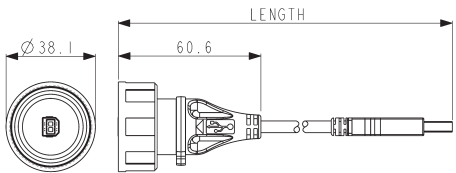
PX0840/B/xMxx
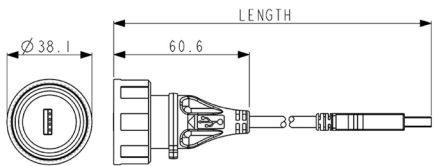
LENGTH
Ø 38.1   60.6

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

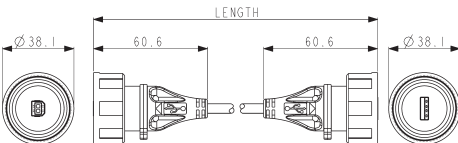## Sealed USB Cables Double Ended

PX0841/AA

PX0841/AB

- 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
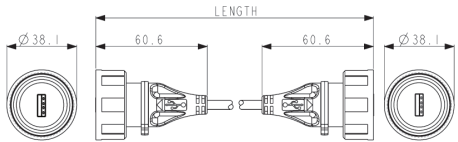
PX0841/AA/xMxx

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/B

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
- PX0842/A3 – USB 3.0 'A' type IP68 to USB 3.0 'A' type connector
- PX0842/B – USB 2.0 'B' type IP68 to USB 2.0 'A' type connector
- Mates with PX0840 and PX0841 cable connectors
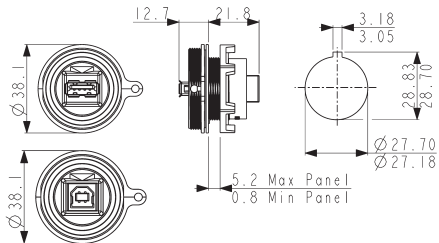
Part no.	Description
PX0842/A	IP68 A type USB 2.0, front panel mounted. Sealed A type at front of panel, standard B type at rear
PX0842/B	IP68 B type USB 2.0, front panel mounted. Sealed B type at front of panel, standard A type at rear
PX0842/AA	IP68 A type USB 2.0, front panel mounted. Sealed A type at front of panel, standard A type at rear
PX0842/A3	IP68 A type USB 3.0, front panel mounted. Sealed A type at front of panel, standard A type at rear

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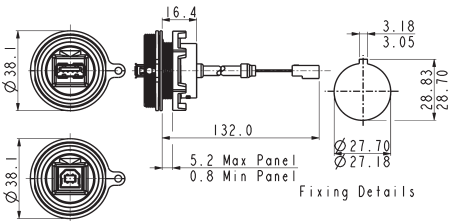
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Front Panel Mounting Connector

PX0843/B

PX0843/A

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

Front Panel Mounting Connector

PX0844/B

PX0844/A

- IP68 Sealed through panel
- PX0844/A – USB 2.0 'A' type IP68 connector
- PX0844/B – USB 2.0 'B' type IP68 connector
- 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
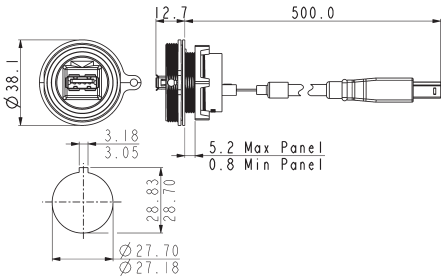
| Part no.	Length	Description
PX0844/A/0M50/A	0.5m	IP68 A type USB 2.0, sealed through panel, Sealed 'A' type at front of panel, standard 'A' type at rear
PX0844/A/0M50/B	0.5m	IP68 A type USB 2.0, sealed through panel, Sealed 'A' type at front of panel, standard 'B' type at rear
PX0844/B/0M50/A	0.5m	IP68 B type USB 2.0, sealed through panel, Sealed 'B' type at front of panel, standard 'A' type at rear
PX0844/B/0M50/B	0.5m	IP68 B type USB 2.0, sealed through panel, Sealed 'B' type at front of panel, standard 'B' type at rear
PX0844/A3/0M50/A3	0.5m	IP68 B type USB 3.0, sealed through panel, Sealed 'A' type at front of panel, standard 'A' type at rear

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Rear Panel Mounting Connector

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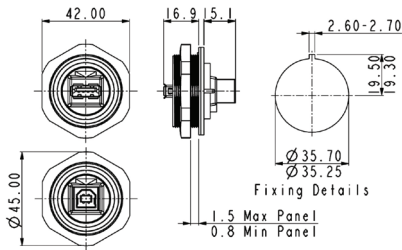
PX0848/B

PX0848/A

Part no.	Description
PX0848/A	IP68 A type USB 2.0, rear panel mounted. Sealed A type at front of panel, standard B type at rear
PX0848/B	IP68 B type USB 2.0, rear panel mounted. Sealed B type at front of panel, standard A type at rear
PX0848/AA	IP68 A type USB 2.0, rear panel mounted. Sealed A type at front of panel, standard A type at rear
PX0848/A3	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 - 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
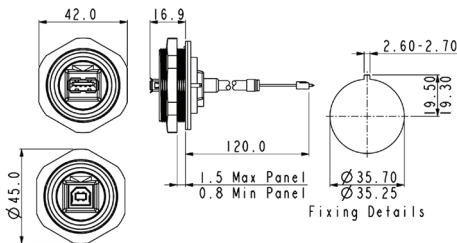
PX0849/B

PX0849/A

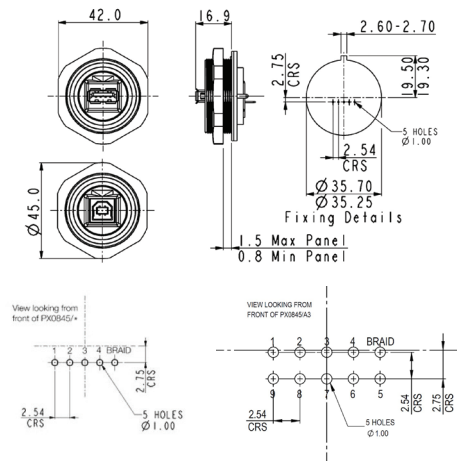| Part no.	Description
PX0849/A	IP68 A type USB 2.0, rear panel mounted. Sealed A type at front of panel, 5-way header at rear
PX0849/B	IP68 B type USB 2.0, rear panel mounted. Sealed B type at front of panel, 5-way header at rear
PX0849/A3	IP68 A type USB 3.0, rear panel mounted. Sealed A type at front of panel, 10-way header at rear

PCB Panel Mounting Connector- PCB DIrect Mount

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

PX0845/B

PX0845/A

View looking from front of PX0845/*

VIEW LOOKING FROM FRONT OF PX0845/A3

Part no.	Description
PX0845/A	IP68 A type USB 2.0, rear panel mounted. Sealed A type at front of panel, direct mount PCB contacts at rear
PX0845/B	IP68 A type USB 2.0, rear panel mounted. Sealed A type at front of panel, direct mount PCB contacts at rear
PX0845/A3	IP68 A type USB 3.0, rear panel mounted. Sealed A type at front of panel, direct mount PCB contacts at rear

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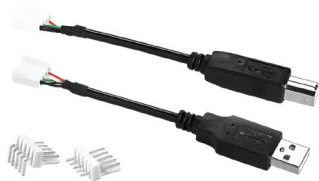
PCB Adaptor Leads

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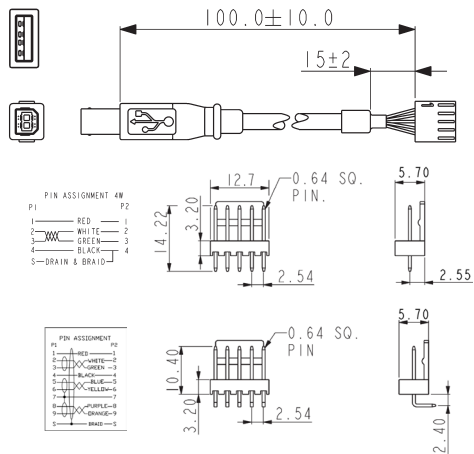
Part no.	Description
14193	USB 2.0 'A' type to 5-way crimp connector
14194	USB 2.0 'B' type to 5-way crimp connector
100286	USB 3.0 'A' type to 10-way crimp connector
14191	5-way PCB header straight
14192	5-way PCB header right angle
100287	10-way PCB header straight
100288	10-way PCB header right angle

Accessories

- Sealing caps to maintain IP68 rating when connectors are not in use
- PX0835 for cable connectors PX0840 & PX0841
- PX0733 for front panel mount connectors PX0842, PX0843 & PX0844
- PX0711 for rear panel mount connectors PX0848, PX0849 & PX0845
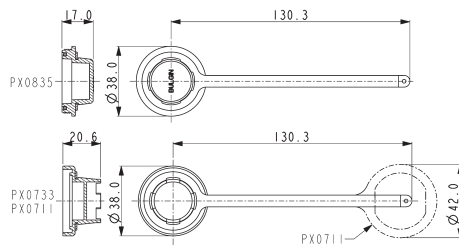
Part no.	Description
PX0835	Sealing Cap for cable connectors (PX0840, PX0841)
PX0733	Sealing Cap for front panel mounting connector (PX0842, PX0843 & PX0844)
PX0711	Sealing Cap for rear panel mounting connector (PX0848, PX0849, PX0845)

USB Flash Drive Cover

- 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
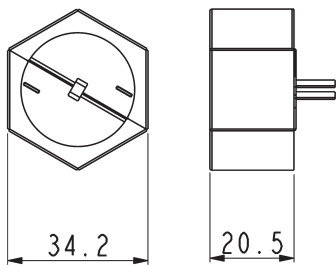- Internal accommodation 17.5 x 14.0 x 83mm approx.

PX0852
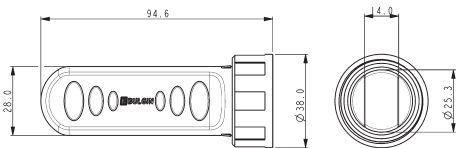
Screening Can

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

PX0465

Cables & connectors

Mechanical

Sealing	IP68, EN60529:1992+A2:2013
	(10m depth for 2 weeks)
	IP69K, Tested in accordance with DIN 40050/Part 9 IP6k9k
Operating temperature	0°C to +70°C
Salt Mist	EN60068-2-52 Test Kb Salt Mist (Cyclic) Marine Severity Level 1

Electrical

No. of Contacts	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

Shell material	Steel
Shell plating	Nickel
Contact material	Copper Alloy
Contact plating	30 micro inch Gold
Connector body & locking ring	Glass Loaded Polyester
Panel connector	Acetal
Flammability rating	UL94 HB
'O' rings	Silicone
Panel Gasket - round	Silicone
Panel Gasket - square	Neoprene
Mating cycles	1,000
RoHS	Compliant

Materials - cable

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

Length:	Dia	Conductors Signal	Conductors 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

PCB adaptor leads

Electrical

No. of conductors	4
Current rating	1A
Voltage rating	30V AC (RMS)
Contact resistance	<10m Ω 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)
Conductors	4 x 28AWG
Operating temperature	0°C to +70°C
Mating cycles	1,000
RoHS	Compliant

USB 2.0 Cable construction - PX0840, PX0841

PVC Jacket
Braid
Insulation SR-PVC
Conductor
2m - 24AWG
3m - 22AWG
5m - 20AWG
Drain Wire
Insulation - Polyofein

Insulation
HD - PE
Conductor
2m - 28AWG
3m - 28AWG
5m - 25AWG
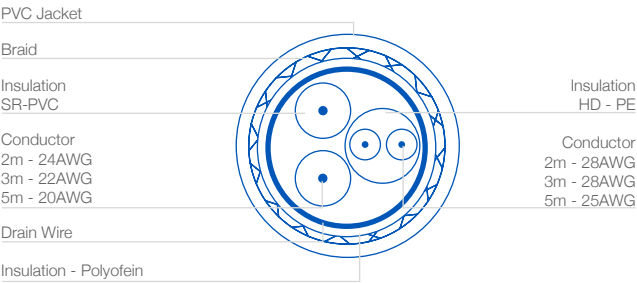
USB 2.0 Contact Diagram - PX0843 & PX0849

P1	TYPE	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

Cables & connectors

Mechanical

Sealing	IP68, EN60529:1992+A2:2013 (10m depth for 2 weeks)
	IP69K, Tested in accordance with DIN 40050/Part 9 IP6k9k
Operating temperature	0°C to +70°C
Salt Mist	EN60068-2-52 Test Kb Salt Mist (Cyclic) Marine Severity Level 1

Electrical

No. of Contacts	9
Current rating	1A
Voltage rating	30V AC (RMS)
Contact resistance	30m Ω max.
Performance	USB version 3.0

Materials - Overmoulded

Overmould material	PVC (black)
Flammability rating	UL94V-0

Materials - Re-wireable and Panel Connectors

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

Materials - cable

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

Length:	Dia	Conductors Signal	Conductors 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	9
Current rating	1A
Voltage rating	30V AC (RMS)
Contact resistance	30m Ω max.
PCB pitch	2.54mm

Materials

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

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

PVC Jacket
Braid
Al/Mylar
Ground
UTP Signal Pair
Power Conductor
SDP Signal Pair
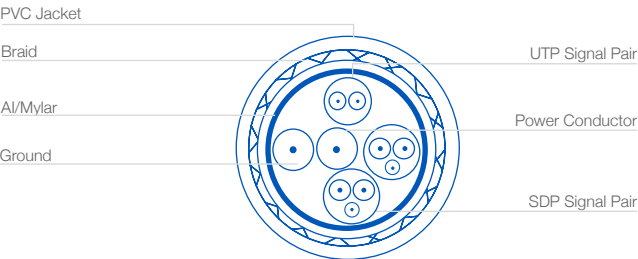
USB 3.0 Contact Diagram - PX0843/A3 & PX0849/A3

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

AO Series Active Optical USB

Active Optical

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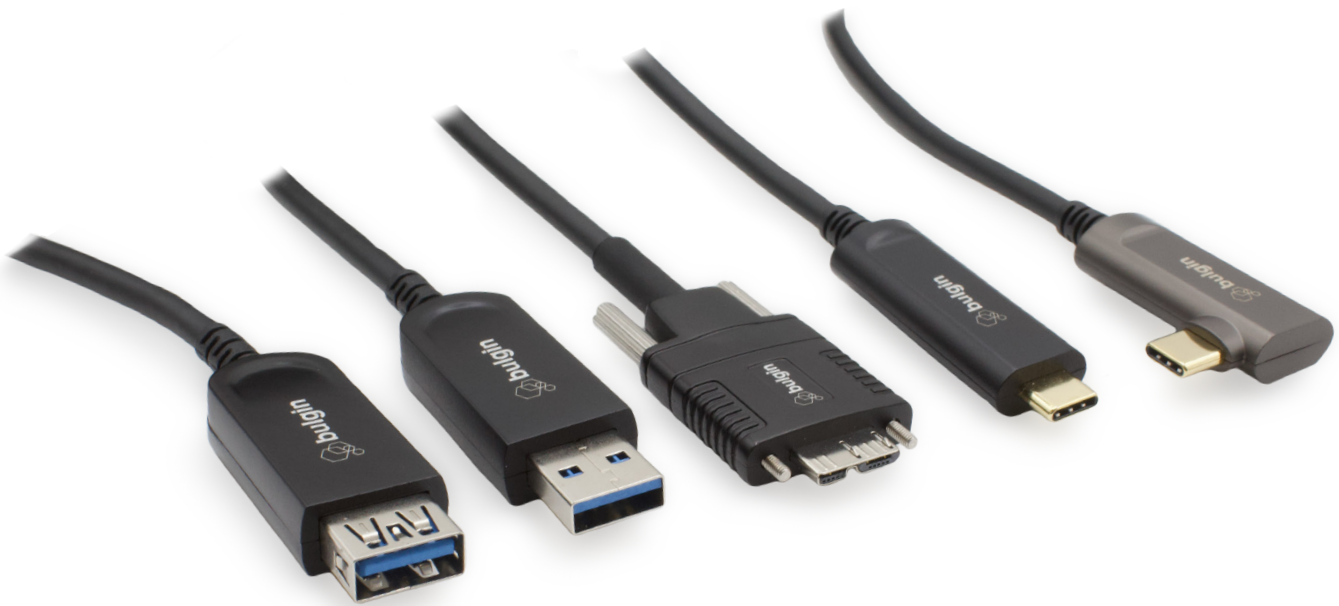
- Hybrid optical cable with fibre and copper
- High speed and long length USB 3.2 cables
- No loss of signal and reduced EMI/RFI
- Plug and Play
- Flammability VW-1 rated
- Available in custom lengths up to specified range(30m or 50m)*

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AO A-A Extension Cable

- Active Optical USB 3.2 Gen1 Cable, A Male to A Female with PVC Jacket
- Available in lengths: 10, 20, and 30m
- USB 3.0 type A cable extension
- Up to 5Gbps

AOUS1/XXX

Part no.	Length	Description
AOUS1/010	10m	USB 3.2 Gen1 Active Optical Cable, A male to A female PVC jacket
AOUS1/020	20m	USB 3.2 Gen1 Active Optical Cable, A male to A female PVC jacket
AOUS1/030	30m	USB 3.2 Gen1 Active Optical Cable, A male to A female PVC jacket

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AO Drag Chain A-C Screw Cable

- Active Optical USB 3.2 Gen2 Cable, A Male to C Male, Drag Chain Jacket with Screws
- Available in lengths: 5, 8, 10, 15, 20, and 30m
- Secure screw lock design
- Braided cable jacket for drag chain applications
- Up to 10Gbps

AOUS2/XXX

Part no.	Length	Description
AOUS2/005	5m	USB 3.2 Gen2 Active Optical Cable, A male to C male drag chain jacket with screws
AOUS2/080	8m	USB 3.2 Gen2 Active Optical Cable, A male to C male drag chain jacket with screws
AOUS2/010	10m	USB 3.2 Gen2 Active Optical Cable, A male to C male drag chain jacket with screws
AOUS2/015	15m	USB 3.2 Gen2 Active Optical Cable, A male to C male drag chain jacket with screws
AOUS2/020	20m	USB 3.2 Gen2 Active Optical Cable, A male to C male drag chain jacket with screws
AOUS2/030	30m	USB 3.2 Gen2 Active Optical Cable, A male to C male drag chain jacket with screws

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AO Right Angle A-C 90° Cable

- Active Optical USB 3.2 Gen2 Cable, A Male to C Male, PVC Jacket Right Angle
- Available in lengths: 5m, 8m, 10m, 15m, 20m, and 30m
- 90-degree angle design for limited space connections
- Up to 10Gbps

AOUS3/XXX

Part no.	Length	Description
AOUS3/005	5m	USB 3.2 Gen2 Active Optical Cable, A male to C male PVC jacket no screws, right angle
AOUS3/008	8m	USB 3.2 Gen2 Active Optical Cable, A male to C male PVC jacket no screws, right angle
AOUS3/010	10m	USB 3.2 Gen2 Active Optical Cable, A male to C male PVC jacket no screws, right angle
AOUS3/015	15m	USB 3.2 Gen2 Active Optical Cable, A male to C male PVC jacket no screws, right angle
AOUS3/020	20m	USB 3.2 Gen2 Active Optical Cable, A male to C male PVC jacket no screws, right angle
AOUS3/030	30m	USB 3.2 Gen2 Active Optical Cable, A male to C male PVC jacket no screws, right angle

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AO A-C Cable

- Active Optical USB 3.2 Gen2 Cable, A male to C male PVC jacket no screw
- Available in lengths: 5m, 8m, 10m, 15m, 20m, and 30m
- Up to 10Gbps

AOUS4/XXX
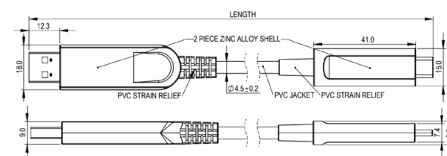
Part no.	Length	Description
AOUS4/005	5m	USB 3.2 Gen2 Active Optical Cable, A male to C male PVC jacket no screws
AOUS4/008	8m	USB 3.2 Gen2 Active Optical Cable, A male to C male PVC jacket no screws
AOUS4/010	10m	USB 3.2 Gen2 Active Optical Cable, A male to C male PVC jacket no screws
AOUS4/015	15m	USB 3.2 Gen2 Active Optical Cable, A male to C male PVC jacket no screws
AOUS4/020	20m	USB 3.2 Gen2 Active Optical Cable, A male to C male PVC jacket no screws
AOUS4/030	30m	USB 3.2 Gen2 Active Optical Cable, A male to C male PVC jacket no screws

AO Drag Chain A-Micro B Screw Cable

- USB 3.2 Gen1 Active Optical Cable, A male to Micro-B male drag chain jacket w/ screw
- Available in lengths: 5m, 8m, 10m, 15m, 20m, and 30m
- Secure screw lock design
- Braided cable jacket for drag chain applications
- Up to 5Gbps

AOUS6/XXX
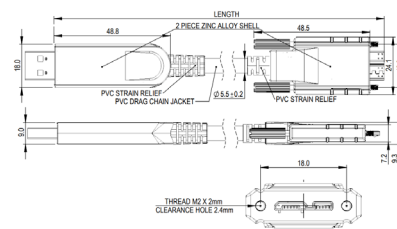
Part no.	Length	Description
AOUS6/005	5m	USB 3.2 Gen1 Active Optical Cable, A male to Micro-B male drag chain jacket with screws
AOUS6/008	8m	USB 3.2 Gen1 Active Optical Cable, A male to Micro-B male drag chain jacket with screws
AOUS6/010	10m	USB 3.2 Gen1 Active Optical Cable, A male to Micro-B male drag chain jacket with screws
AOUS6/015	15m	USB 3.2 Gen1 Active Optical Cable, A male to Micro-B male drag chain jacket with screws
AOUS6/020	20m	USB 3.2 Gen1 Active Optical Cable, A male to Micro-B male drag chain jacket with screws
AOUS6/030	30m	USB 3.2 Gen1 Active Optical Cable, A male to Micro-B male drag chain jacket with screws

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AO A-Micro B Screw Cable

- USB 3.2 Gen1 Active Optical Cable, A male to Micro-B male PVC jacket with screws
- Available in lengths: 5m, 8m, 10m, 15m, 20m, and 30m
- Secure screw lock design
- Braided cable jacket for drag chain applications
- Up to 5Gbps

AOUS7/XXX
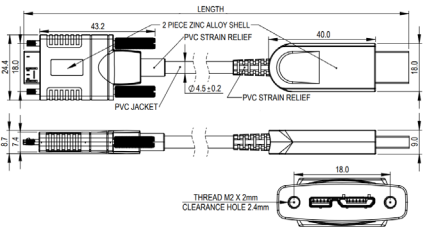
Part no.	Length	Description
AOUS7/005	5m	USB 3.2 Gen1 Active Optical Cable, A male to Micro-B male PVC jacket with screws
AOUS7/080	8m	USB 3.2 Gen1 Active Optical Cable, A male to Micro-B male PVC jacket with screws
AOUS7/010	10m	USB 3.2 Gen1 Active Optical Cable, A male to Micro-B male PVC jacket with screws
AOUS7/015	15m	USB 3.2 Gen1 Active Optical Cable, A male to Micro-B male PVC jacket with screws
AOUS7/020	20m	USB 3.2 Gen1 Active Optical Cable, A male to Micro-B male PVC jacket with screws
AOUS7/030	30m	USB 3.2 Gen1 Active Optical Cable, A male to Micro-B male PVC jacket with screws

Product Configuration Table						
Product	Type	Terminations	Angle	Screws	Cable Jacket	Available Lengths
AOUS1	USB	Male A to Female A	Straight	No	PVC Normal Jacket	10m, 20m, and 30m
AOUS2	USB	Male A to Male C	Straight	Yes	PVC Optimised for Drag Chain jacket (Braided PVC)	5m, 8m, 10m, 15m, 20m, 30m
AOUS3	USB	Male A to Male C	Right angle	No	PVC Normal Jacket	5m, 8m, 10m, 15m, 20m, 30m
AOUS4	USB	Male A to Male C	Straight	No	PVC Normal Jacket	5m, 8m, 10m, 15m, 20m, 30m
AOUS6	USB	Male A to Male Micro B	Straight	Yes	PVC Optimised for Drag Chain jacket (Braided PVC)	5m, 8m, 10m, 15m, 20m, 30m
AOUS7	USB	Male A to Male Micro B	Straight	Yes	PVC Normal Jacket	5m, 8m, 10m, 15m, 20m, 30m

AO Series Active Optical USB

Active Optical

Electrical	
Voltage MIN/MAX Absolute	-0.5V / 5.5V
Voltage Supply MIN/TYP/MAX	4.75V / 5.00V / 5.25V
Power Consumption	≤ 0.5W
Differential Impedance	90Ω

Performance	
Fibre Mode	Multimode

Optical	
Optical Transceiver	850nm VCSEL (Multimode)
TX Random Jitter	3ps
TX Deterministic Jitter	60ps
Total Jitter at a 10-12 BER	100ps
RX Sensitivity MIN	-7.5dBm
AC Coupling Capacitor RXOUT	MIN 75nF, TYP 100nF, MAX 200nF

Material	
Connector Shell material	Zinc Alloy
Jacket Material	PVC

Dimensions	
Minimum bend radius	25mm

Safety	
Flammability	VW-1
Environment Protection	ROHS
Operating Temperature	0C to 50C
Storage Temperature	-20C to 85C
Humidity	10% to 85%

Individual Specifications						
Electrical	**AOUS1**	**AOUS2**	**AOUS3**	**AOUS4**	**AOUS6**	**AOUS7**
Connector Type Host End	USB A Male	USB A Male	USB A Male	USB A Male	USB A Male	USB A Male
Connector Type Device End	USB A Female	USB C Male	USB C Male	USB C Male	USB Micro B Male	USB Micro B Male
Number of Contacts Host End	9	9	9	9	9	9
Number of Contacts Device End	9	24	24	24	10	10
Current at bus power MIN	49.5mA	49.5mA	49.5mA	49.5mA	750mA	49.5mA
Current at bus power TYP	55 mA	55 mA	55 mA	55 mA	800mA	55mA
Current at bus power MAX	60.5 mA	60.5 mA	60.5 mA	60.5 mA	850mA	60.5mA
Material	**AOUS1**	**AOUS2**	**AOUS3**	**AOUS4**	**AOUS6**	**AOUS7**
Jacket Type	Normal	Braided	Normal	Normal	Braided	Normal
Cable Diameter	4.5mm	5.5mm	4.5mm	4.5mm	5.5mm	4.5mm
Performance	**AOUS1**	**AOUS2**	**AOUS3**	**AOUS4**	**AOUS6**	**AOUS7**
Max Data Rate	5Gbps	10Gbps	10Gbps	10Gbps	5Gbps	5Gbps
Range	50m	30m	50m	50m	30m	30m
Screw Lock Dimensions	N/A	M2 X 2mm	N/A	N/A	M2 X 2mm	M2 X 2mm
Screw Spacing	N/A	15mm	N/A	N/A	18mm	18mm

Cable construction

AOUS1, AOUS3, AOUS4, AOUS7
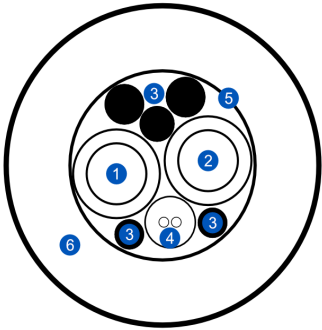
1. 18 AWG (red insulation)
2. 18 AWG (black insulation)
3. Filler
4. Fiber
5. Aluminium foil
6. Jacket

AOUS2, AOUS6
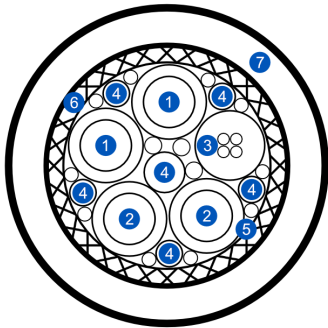
1. 21 AWG (red insulation)
2. 21 AWG (black insulation)
3. Fiber
4. Cotton
5. Filler
6. Braid
7. Jacket

AO Series Active Optical USB

Active Optical

Wiring

AOUS1, AOUS6, AOUS7
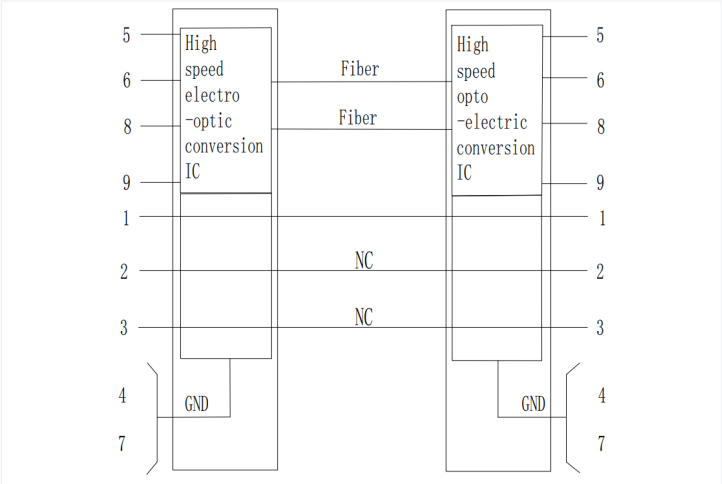
AOUS2, AOUS3, AOUS4

20 Series USB Waterproof - IP67 Connectors

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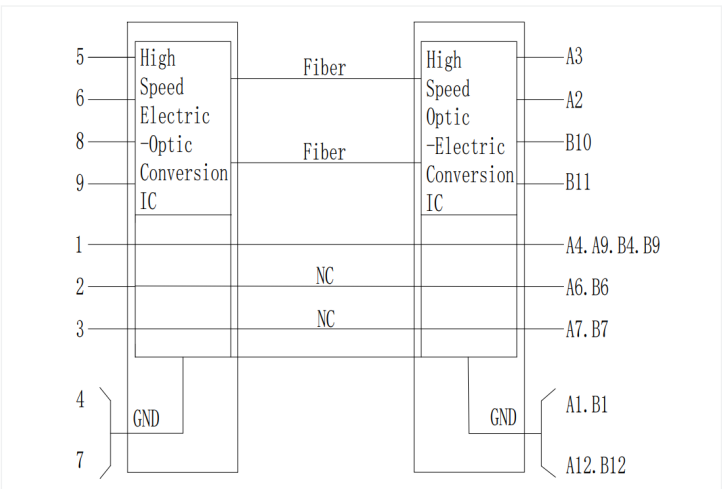
- .76μm (micrometer) gold contact plating for reliable and repeated connections

- IP67 rated (when mated or with Sealing Cap fitted)

- Connections including USB A, USB B, USB C, and Mini USB

- Molded backshells for durability

- Plastic and metal rear panel mount cable variants available

- Plastic and metal sealing caps available

- Standard lengths are 0.3, 0.5, 1, 2, 3, and 5 meters

- USB A Cable Assembly PXP0020 available to mate with USB A panel mount variants

20 Series USB Waterproof - IP67 Connectors

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Plastic Flex USB A to Standard USB A Cable Assembly

PXP0020/A/XMXX/A

- IP67 Male USB A to Male USB A
- IP67 when mated
- Mates with rear panel mount connectors PXP0023, PXM0023
- USB 2.0 Performance
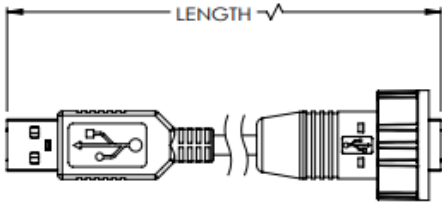
LENGTH

Part no.	Length	Description
PXP0020/A/0M50/A	0.5m	Flex USB A to Standard USB A Cable Assembly 0.5m
PXP0020/A/1M00/A	1m	Flex USB A to Standard USB A Cable Assembly 1m
PXP0020/A/2M00/A	2m	Flex USB A to Standard USB A Cable Assembly 2m
PXP0020/A/3M00/A	3m	Flex USB A to Standard USB A Cable Assembly 3m

Plastic Rear Panel Mount USB A Female to USB A Male Cable Assembly

PXP0023/A/XMXX/A

- IP67 Female USB A to Male USB A
- IP67 when mated or fitted with Sealing Cap PXP0024, PXM0024
- Plastic and metal Sealing Caps available
- Mates with Plastic Flex USB A to USB A Cable Assembly PXP0020
- USB 2.0 Performance
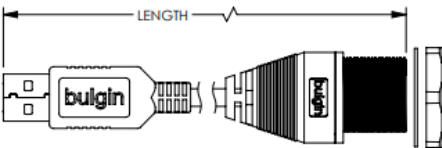
LENGTH

Part no.	Length	Description
PXP0023/A/0M30/A	0.3m	Plastic Rear Panel Mount USB A Female to USB A Male Cable Assembly 0.3m
PXP0023/A/0M50/A	0.5m	Plastic Rear Panel Mount USB A Female to USB A Male Cable Assembly 0.5m
PXP0023/A/1M00/A	1m	Plastic Rear Panel Mount USB A Female to USB A Male Cable Assembly 1m
PXP0023/A/2M00/A	2m	Plastic Rear Panel Mount USB A Female to USB A Male Cable Assembly 2m
PXP0023/A/3M00/A	3m	Plastic Rear Panel Mount USB A Female to USB A Male Cable Assembly 3m
PXP0023/A/5M00/A	5m	Plastic Rear Panel Mount USB A Female to USB A Male Cable Assembly 5m

Plastic Rear Panel Mount USB A Female to USB A Male Cable Assembly 5m

PXM0023/A/XMXX/A

- IP67 Female USB A to Male USB A
- IP67 when mated or fitted with Sealing Cap PXP0024, PXM0024
- Plastic and metal Sealing Caps available
- Mates with Plastic Flex USB A to USB A Cable Assembly PXP0020
- USB 2.0 Performance
- Unmated shielding maintained when used with metal Sealing Cap PXM0024
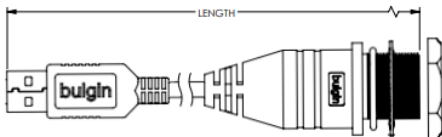
LENGTH

Part no.	Length	Description
PXP0023/A/0M50/A	0.5m	Metal Rear Panel Mount USB A Female to USB A Male Cable Assembly 0.5m
PXP0023/A/1M00/A	1m	Metal Rear Panel Mount USB A Female to USB A Male Cable Assembly 1m
PXP0023/A/2M00/A	2m	Metal Rear Panel Mount USB A Female to USB A Male Cable Assembly 2m
PXP0023/A/3M00/A	3m	Metal Rear Panel Mount USB A Female to USB A Male Cable Assembly 3m
PXP0023/A/5M00/A	5m	Metal Rear Panel Mount USB A Female to USB A Male Cable Assembly 5m

Rear Panel Mount USB A Female to Flying Leads

- IP67 Female USB A or Female USB B to 5x flying leads
- IP67 when mated or fitted with Sealing Cap PXP0024, PXM0024
- Flying leads 0.25m long
- 24AWG flying leads
- Plastic and metal Sealing Caps available
- USB A version PXP0023/A/0M25/FL mates with Plastic Flex USB A to USB A Cable Assembly PXP0020
- USB 2.0 Performance
  Attention:
  PXP0023/A/0M25/FL has non stardard USB wiring, please refer to wiring table in specification.

PXP0023/A/0M25/FL

PXP0023/B/0M25/FL

10.0
[254]
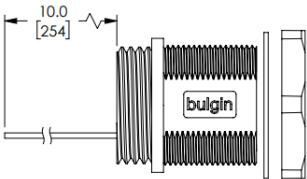
Part no.	Length	Description
PXP0023/A/0M25/FL	0.25m	Rear Panel Mount USB A Female to Flying Leads 0.25m
PXP0023/B/0M25/FL	0.25m	Rear Panel Mount USB B Female to Flying Leads 0.25m

Miniature Plastic Rear Panel Mount USB C Female to USB A Male Cable Assembly
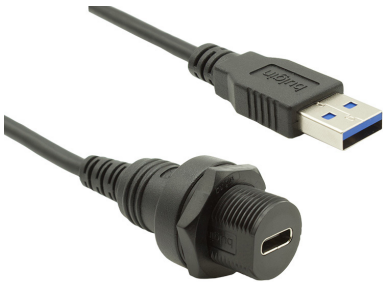
- IP67 Female USB C to Male USB A
- IP67 when fitted with Miniature Sealing Cap PXP0026
- 1m length
- Overall aluminium+polyester shield plus tinned copper braid shield
- USB 3.0 Performance

PXP0025/C/1M00/A
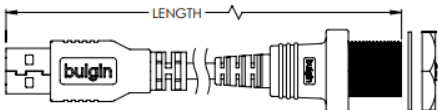
LENGTH

Part no.	Length	Description
PXP0025/C/1M00/A	1m	Miniature Plastic Rear Panel Mount USB C Female to USB A Male Cable Assembly 1m

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Miniature Plastic Rear Panel Mount Mini USB
Female to Mini USB Male Cable Assembly

- IP67 Female Mini USB to Male Mini USB
- IP67 when fitted with Miniature Sealing Cap PXP0026
- Overall aluminized polyester shield with drain wire plus tinned copper braided shield
- USB 2.0 Performance

PXP0025/MB/XMXX/MB
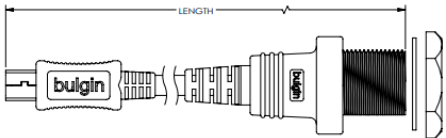
Part no.	Length	Description
PXP0025/MB/0M30/MB	0.3m	Miniature Plastic Rear Panel Mount Mini USB Female to Mini USB Male Cable Assembly 0.3m
PXP0025/MB/0M50/MB	0.5m	Miniature Plastic Rear Panel Mount Mini USB Female to Mini USB Male Cable Assembly 0.5m
PXP0025/MB/1M00/MB	1m	Miniature Plastic Rear Panel Mount Mini USB Female to Mini USB Male Cable Assembly 1m

Accessories

Sealing Caps

Metal Sealing Caps provide shielding when fitted to Metal Rear Panel Mount USB A Female to USB A Male Cable Assembly PXM0023/A/XMXX/A. As standard, all Sealing Caps are sold with a rubber lanyard, unless ordered with the part number PXP0024/CH, this variant comes with a chain lanyard with a 3.4mm diameter fixing loop, giving more options for attachment

Plastic Sealing Cap with Rubber Lanyard

- IP67 Plastic Sealing Cap
- IP67 when fitted
- Rubber lanyard
- Fits PXP0023 and PXM0023
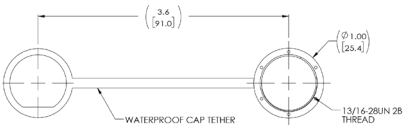
PXP0024

Part no.	Lanyard	Cap Material	Description
PXP0024	Rubber	Plastic	Plastic Sealing Cap with Rubber Lanyard

Plastic Sealing Cap with Chain Lanyard

- IP67 Plastic Sealing Cap
- IP67 when fitted
- Metal chain lanyard
- Fits PXP0023 and PXM0023
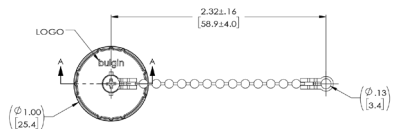
PXP0024/CH

Part no.	Lanyard	Cap Material	Description
PXP0024/CH	Metal Chain	Plastic	Plastic Sealing Cap with Chain Lanyard

Metal Sealing Cap with Rubber Lanyard

- IP67 Metal Sealing Cap
- IP67 when fitted
- Rubber lanyard
- Offers shielding when mated with Metal Rear Panel Mount PXM0023
- Fits PXP0023 and PXM0023
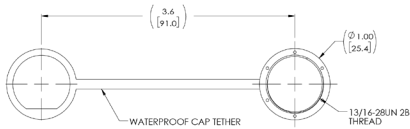
PXM0024

Part no.	Lanyard	Cap Material	Description
PXM0024	Rubber	Metal	Metal Sealing Cap with Rubber Lanyard

Miniature Plastic Sealing Cap with Rubber Lanyard

- IP67 Plastic Miniature Sealing Cap
- IP67 when fitted
- Rubber lanyard
- Fits PXP0025
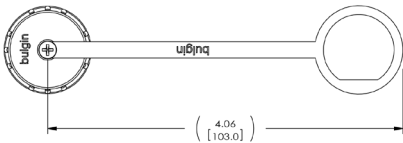
PXP0026

Part no.	Lanyard	Cap Material	Description
PXP0026	Rubber	Plastic	Miniature Plastic Sealing Cap with Rubber Lanyard

20 Series USB Waterproof - IP67 Connectors

Mechanical	
Sealing	IP67
Operating temperature PXP0020, PXP0023, PXM0023, PXP0025/MB/XXXX/MB	-10°C to +80°C
PXP0023/A/0M25/FL, PXP0023/B/0M25/FL, PXP0025/C/1M00/A, PXP0026	-20°C to +80°C
PXP0024	-40°C to +80°C
Flammability	UL94 V-0, (UL94HB for PN: PXP0026)

Mating Threads	
PXP0023, PXM0023	13/16-28UN 2A
PXP0024	13/16-28UN 2B
PXP0025	5/8-27UN-2A
PXP0026	5/8-27UN-2B

Materials	
Cable outer jacket	PVC
Overmould material	PVC
Contact material	Copper alloy
Contact plating	.76 μm (micrometer) gold

Electrical	
PXP0020, PXP0023, PXM0023	24AWG conductors and 28AWG Twisted pairs
PXP0023/A/0M25/FL, PXP0023/B/0M25/FL	24AWG
PXP0025/C/1M00/A	26AWG conductors and 32AWG twisted pairs
PXP0025/MB/XMXX/MB	28AWG conductors and twisted pairs

Wiring

PXP0023/B/0M25/FL

P1	TYPE	WIRE COLOUR	P2
1	—	Red (PT 1954C)	1
2	—	White (RAL 9003)	2
3	—	Green (PT 328C)	3
4	—	Black (PT Black 6C)	4
Shell	—	Gray (PT 421C)	Shell

PXP0023/A/0M25/FL

P1	TYPE	WIRE COLOUR	P2
1	—	Black (PT Black 6C)	1
2	—	Green (PT 328C)	2
3	—	White (RAL 9003)	3
4	—	Red (PT 1954C)	4
Shell	—	Gray (PT 421C)	Shell

Panel Cut inches [mm]

PXP0023, PXM0023

⌀.819
[20.8]

.764
[19.4]

RECOMMENDED
PANEL OPENING

PXP0025

.580±.005
[15±0.1]

⌀.640±.005
[16±0.1]

RECOMMENDED
PANEL CUTOUT
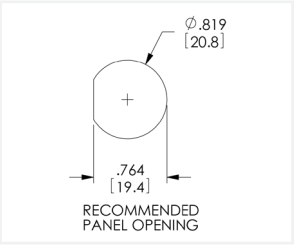
Cables:

- Attached dust cap on each end of the cable

- Threaded coupling rated to IP67 when mated

- Gold plated contact ensures reliable and repeated connections

- PVC molded durable backshells

- Available in 1m, 2m, 3m, 4m lengths

- HDMI 1.4 performance

Panel Mount Connectors:

- Attached Sealing Cap

- Threaded coupling rated to IP67

- Gold plated contact ensures reliable and repeated connections

IP67 Waterproof HDMI Cable

PXP0036/XM00

- IP67 Waterproof HDMI Cable
- Attached dust cap on each end of the cable
- Threaded coupling rated to IP67
- Gold plated contact ensures reliable and repeated connections
- PVC molded durable backshells
- Available in 1m, 2m, 3m, 4m lengths
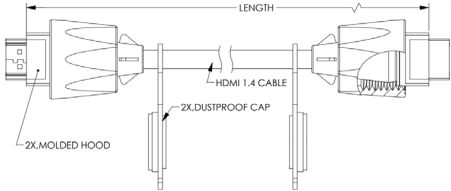
Part no.	Length	Description
PXP0036/1M00	1m	IP67 Waterproof HDMI Cable Assembly 1m
PXP0036/2M00	2m	IP67 Waterproof HDMI Cable Assembly 2m
PXP0036/3M00	3m	IP67 Waterproof HDMI Cable Assembly 3m
PXP0036/4M00	4m	IP67 Waterproof HDMI Cable Assembly 4m

IP67 Waterproof HDMI Panel Mount Coupler with Sealing Cap

PXP0037

- IP67 Waterproof HDMI Panel Mount Coupler with Sealing Cap
- Attached Sealing Cap
- Threaded couplings rated to IP67 when mated
- Gold plated contact ensures reliable and repeated connections
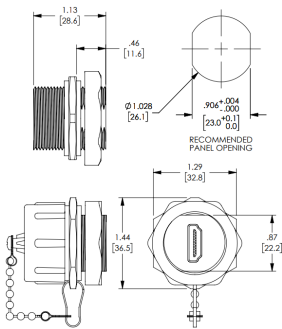
Part no.	Description
PXP0037	IP67 Waterproof HDMI Front Panel Mount Coupler

30 Series Waterproof HDMI
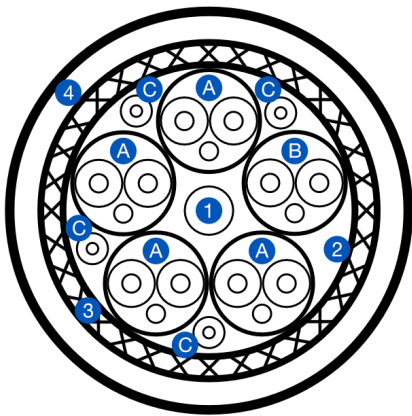
A: Component A (see table)
B: Component B (see table)
C: Component C (see table)

1. Filler, cotton thread
2. Film, alu-side face out + mylar
3. Cu braid, 85% coverage
4. Black PVC outer jacket

Component A	TMDS Data & CLK Pairs
Conductor	1/0.26(30AWG) Solid OFC
Insulation	Polyolefin OD: 0.74±0.05
Drain Wire	1/0.26(30AWG) Solid OFC
Shielding	Al Side Face in+ Mylar&Mylar

Component B	HDMI eARC Pair (Enhanced Audio Return Channel)
Conductor	1/0.26(30AWG) Solid OFC
Insulation	Polyolefin OD: 0.74±0.05
Drain Wire	1/0.26(30AWG) Solid OFC
Shielding	Al Side Face in+ Mylar&Mylar

Component C	Signal Wires
Conductor	1/0.26(30AWG) Solid OFC
Insulationl	Foam-PE OD:0.60±0.05

Cable Assembly

Material

Shroud	PBT
Hood	PVC, UL94V-0
O-ring Seal	EPDM
Jacket	PVC
Dustproof	PVC

Electrical Testing

Insulation Resistance	20MΩ Min
Conductor Resistance	3Ω Max
Voltage	300V DC/0.1s

Environmental

Ingress Protection Rating	IP67
Operating Temperature Range	-24°C to 85°C
Humidity	10%~90% RH

Miscellaneous

Cable Outer Diameter	(1M+2M) 6.0mm, (3M+4M) 7.3mm

Panel Mount Connector Assembly

Material

Main Body + Dust Cap	PBT+GF
Hood	Molded 25P PVC
Chain	Bronze Nickel Plated
Contact	Copper Alloy
Shell	Copper Alloy

Physical Characteristics

Mating	44N Max
Withdrawal	10N min
Durability	1000 insertion cycles
Operating Temperature Range	-10°C to 60°C
Storage Temperature Range	-40°C to 68°C
Humidity	10% to 90% RH (Non – Condensing)

Electrical

Contact Current Rating	0.5A
Dielectric Withstanding voltage	300V AC
Insulation Resistance	Mate 100MΩ min 500VDC Unmate 10MΩ min @ 150VDC
Contact Resistance	30mΩ Max
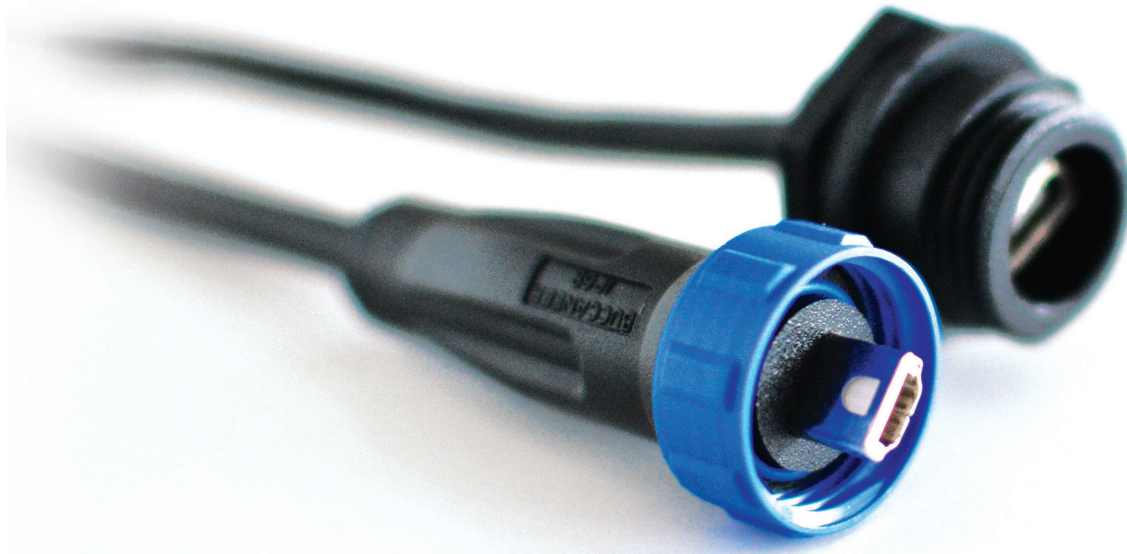
400 Series - Mini USB Buccaneer

bulgin
an INFINITⓘ brand

- IP68, Tested in accordance with EN60529:1992+A2:2013

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

- USB version 2.0 performance

- Plug and play capability

- Shielded system

- Overmoulded cables

- Screw coupling

- PCB versions

- Dust and waterproof to EN60529

- Data rates up to 480Mbps

- Hot pluggable, standard 4 Contacts interface

- High noise immunity

- Tamperproof construction

- Secure, proven locking system

- Direct mounting or via adaptor leads

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

Sealed Mini 'B' to Standard 'A'

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

PX0441

Ø19.1   48.4   44.3   LENGTH ± 20
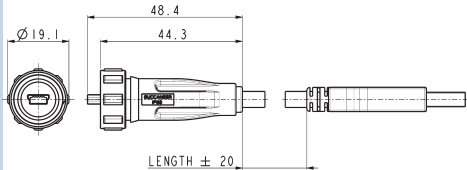
Sealed Mini 'B' to Mini 'A'

- 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

PX0442

Ø19.1   48.4   44.3   LENGTH ± 20
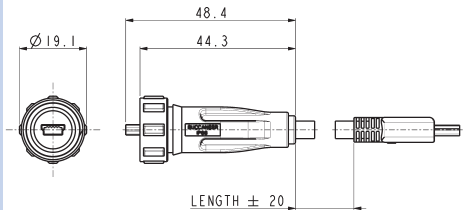
Sealed Mini 'A' to Mini 'B'

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

PX0444

Ø19.10   48.4   44.3   LENGTH ±20.0

PIN ASSIGNMENT
P1   P2
1   RED   1
2   WHITE   2
3   GREEN   3
         4
5   BLACK   5
S   BRAID   S
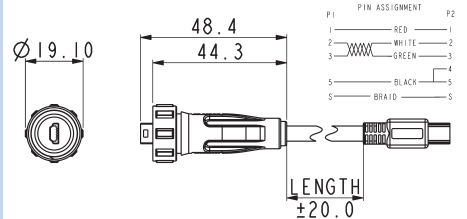
Part No.	Length	Description
PX0441/2M00	2.0m	IP68 Sealed Mini 'B' to Standard 'A' Type USB
PX0441/3M00	3.0m	IP68 Sealed Mini 'B' to Standard 'A' Type USB
PX0441/4M50	4.5m	IP68 Sealed Mini 'B' to Standard 'A' Type USB
PX0442/2M00	2.0m	IP68 Sealed Mini 'B' to Mini 'A' Type USB
PX0442/3M00	3.0m	IP68 Sealed 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

400 Series - Mini USB Buccaneer

Front Panel Mounting Connector

- Mini 'B' Type Receptacle
- Leaded with 5 way crimp, for use with PCB header
- Mates with PX0441 & PX0442 type cables
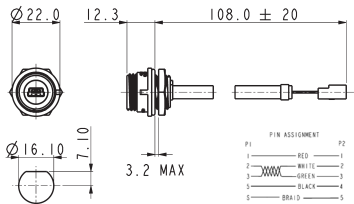
PX0443

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

- Mini 'AB' Type Receptacle
- Leaded with 6 way crimp, for use with PCB header
- Mates with PX0441, PX0442 & PX0444 type cables
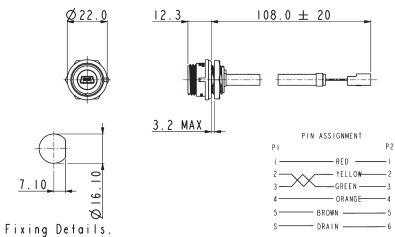
PX0456

Part no.	Description
PX0456	IP68 AB type Mini USB, front panel mounted. 6 way crimp connector at rear.

Rear Panel Mounting Connector

- Mini 'B' Type Receptacle
- Leaded with 5 way header
- Mates with PX0441 & PX0442 type cables
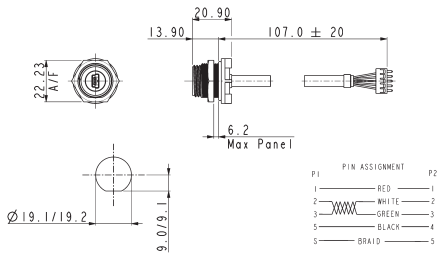
PX0446

Rear Panel Mounting Connector

- Mini 'B' Type Receptacle
- With Plugs for direct PCB mounting
- Mates with PX0441 & PX0442 type cables
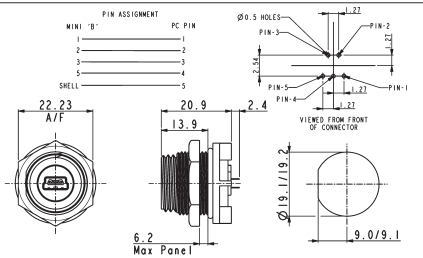
PX0447

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

- Mini 'AB' Type Receptacle
- Leaded with 6 way header
- Mates with PX0441, PX0442 & PX0444 type cables
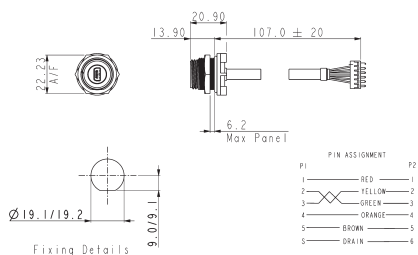
PX0457

Rear Panel Mounting Connector

- Mini 'AB' Type Receptacle
- With Plugs for direct PCB mounting
- Mates with PX0441, PX0442 & PX0444 type cables
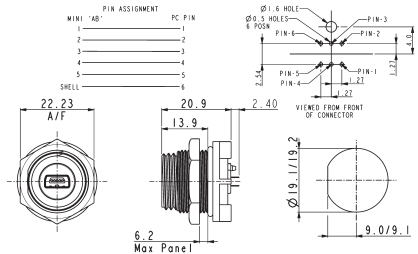
PX0458

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

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

PX0464
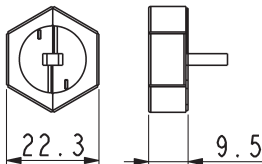
Accessories

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

Part no.	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	Polyester
Panel connector	Nylon 6
Flammability rating	UL94V-0
'O' rings	Nitrile
Mating cycles	5,000
RoHS	Compliant

Materials - cable

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

Length:	Dia	Conductors Signal	Conductors 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
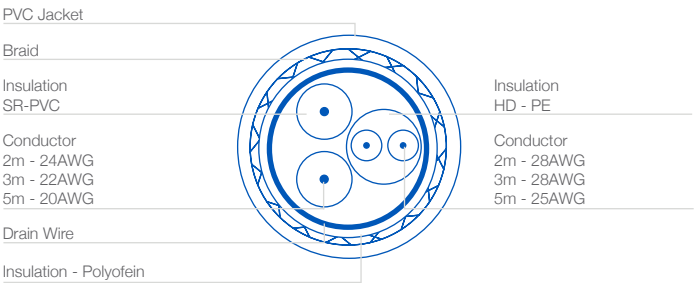
PVC Jacket

Braid

Insulation
SR-PVC

Conductor
2m - 24AWG
3m - 22AWG
5m - 20AWG

Drain Wire

Insulation - Polyofein

Insulation
HD - PE

Conductor
2m - 28AWG
3m - 28AWG
5m - 25AWG

400 Series - SMB Buccaneer

- IP68, Tested in accordance with EN60529:1992+A2:2013

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

- 50Ω Impedance SMB connector

- Frequency range 0-4GHz

- Contact resistance
  - centre - 6mΩ max.
  - outer - 2.5mΩ max.

- Gold plated contacts

- Diameter over coupling ring 19mm

- 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

Re- Wireable Flex Connector

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

PX0415/1

19.1

46.0 max
42.3 max
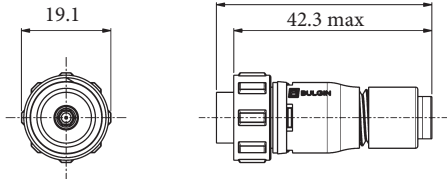
Part no.	Description
PX0415/1	Re-wireable connector with SMB Plug - for RG-174 cable

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

$\varnothing$19.1

47.3
44.3
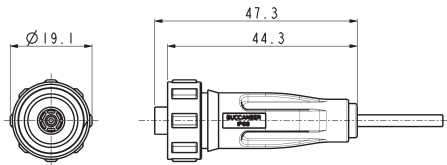
Part no.	Description
PX0416/1M00	Overmoulded connector with SMB plug - cable length 1m
PX0416/3M00	Overmoulded connector with SMB plug - cable length 3m
PX0416/5M00	Overmoulded connector with SMB plug - cable length 5m

Front Panel Mount Connector

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

PX0414/xMxx

$\varnothing$22.0

19.9
12.3

16.10

7.10

3.2 max
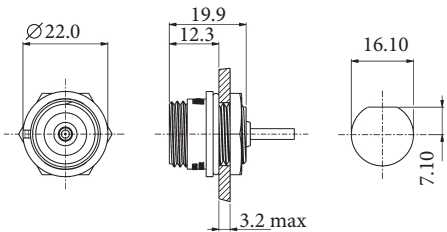
Part no.	Description
PX0414/0M50	Panel connector with SMB jack - cable length 0.5m
PX0414/1M00	Panel connector with SMB jack - cable length 1m
PX0414/1M50	Panel connector with SMB jack - cable length 1.5m

Sealing Caps

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

PX0480   PX0481   PX0485

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

Electrical

Impedance:	50Ω
Frequency Range:	0-4GHz
Contact Resistance:	
Centre:	6mΩ (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
Salt Mist	EN60068-2-52 Test Kb Salt Mist (Cyclic) Marine Severity Level 1
Cable Acceptance:	RG-174
Insertion/Withdrawal Force:	
Insertion Force:	36N
Withdrawal Force:	36N
Cable Retention Force:	18N
Mating Cycles:	500
Operating Temperature:	–20ºC to +80ºC

Material:

PX0415/1 and PX0414	
Body Mouldings:	Polyamide
Flammability Rating:	UL94V-0
UV Resistance:	To EN 50021:1999
PX0416	
Body Mouldings:	PVC (black)
Flammability Rating:	UL94V-0
O Rings:	Nitrile
Panel Sealing O Ring:	Nitrile
SMB Connector	
Body:	Brass to QQ-B-626, Gold Plated
Centre Contact:	
Plug:	Brass to QQ-B-626, Gold Plated
Jack:	Beryllium Copper to QQ-B-530, Gold Plated
Insulator:	Teflon
Crimp Ferrules:	Annealed Copper
RoHS	Compliant

400 Series - Wireless Buccaneer
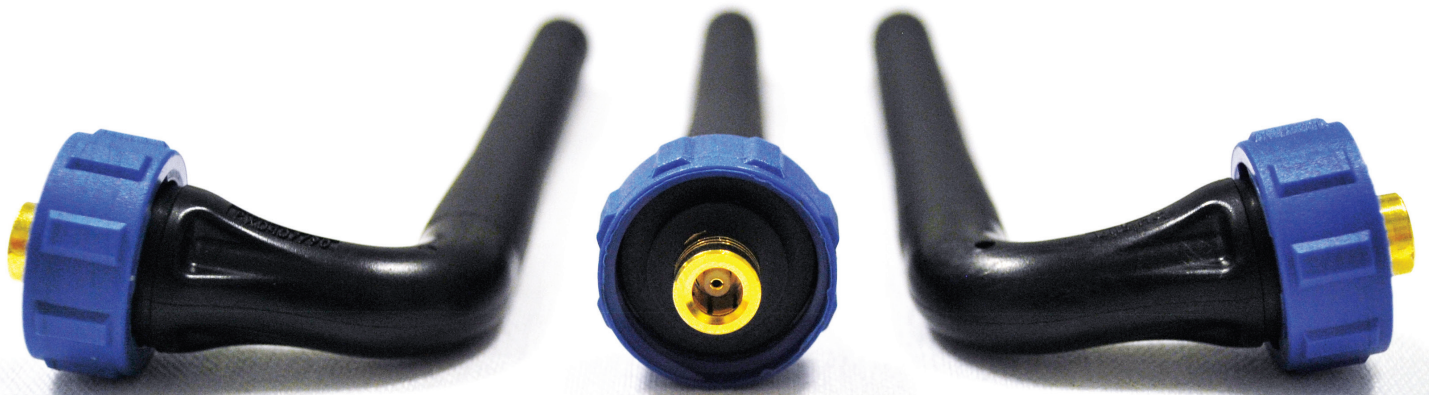
SMB Antenna

○ IP68, Tested in accordance with EN60529:1992+A2:2013

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

○ SMB 50 ohm interface

○ For use with SMB Buccaneer

○ Three frequency bands:
440 to 470MHz
850-900/1800/1900MHz
2.4 to 2.5GHz

○ Maintains sealing integrity of equipment

Bluetooth Cable Replacement

○ IP68, Tested in accordance with EN60529:1992+A2:2013

○ RS485/RS232 serial interfaces

○ Serial data to Bluetooth

○ Wireless transparent data connection

○ Up to 100m range (class 1)

○ Maintains sealing integrity of equipment

400 Series - Wireless Buccaneer
Antenna

bulgin
an INFINITE brand

SMB Antenna

PX0407

PX0407/90

- Dust & waterproof to IP68
- EN60529 when mated
- 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

Ø19.1   91.5

86.5

35.9

Ø19.1
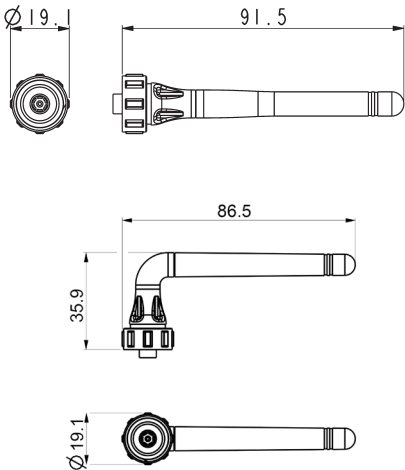
Part no.	Description
PX0407	IP68 rated, Buccaneer Antenna, 2.4 to 2.5GHz frequency band
PX0408	IP68 rated, Buccaneer Antenna, 440 to 470MHz frequency band
PX0409	IP68 rated, Buccaneer Antenna, 850-900/1800/1900MHz frequency band
PX0407/90	IP68 rated, Buccaneer Antenna, 2.4 to 2.5GHz frequency band
PX0408/90	IP68 rated, Buccaneer Antenna, 440 to 470MHz frequency band
PX0409/90	IP68 rated, Buccaneer Antenna, 850-900/1800/1900MHz frequency band

Specification

Electrical

Frequency
PX0407	2.4 to 2.5GHz
PX0408	440 to 470MHz
PX0409	850-900/1800/1900MHz

Configuration
PX0407	¼ Wavelength
PX0408	½ Wavelength
PX0409	½ Wavelength

Radiation	Omnidirectional
Polarization	Vertical
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:	–20ºC to +65ºC
Salt Mist	EN60068-2-52 Test Kb Salt Mist (Cyclic)
	Marine Severity Level 1

Material

Body Mouldings	PVC
Flammability Rating	UL94V-0
UV Resistance	EN50021:1999
RoHS	Compliant

PX0407 Polar plots - 2.4 to 2.5GHz Frequency Band
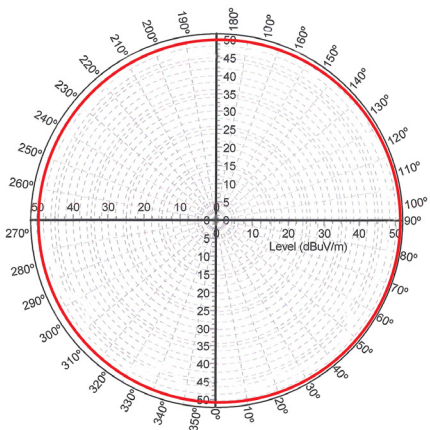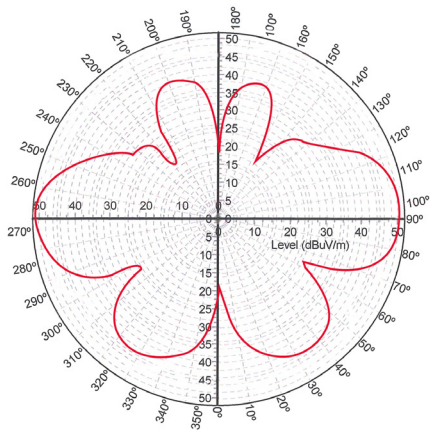
PX0407 Radiation Pattern plots
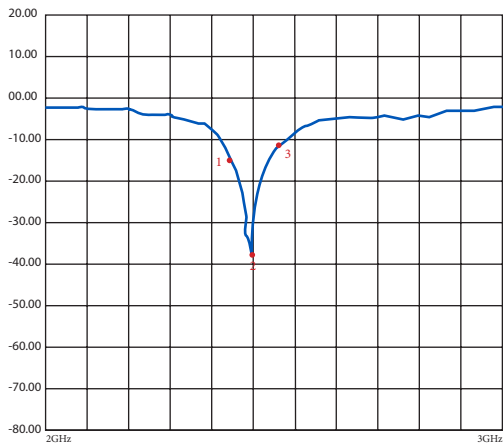
1 -12624 dB 2.v0 GHz
2 -34951 dB 2.45000 GHz
3 -12.777 dB 2500.000 000 MHz
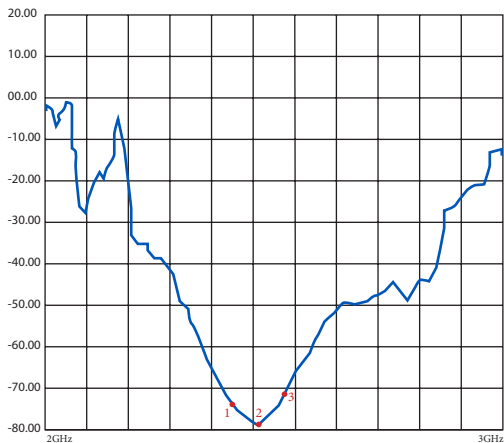
1 1.5659 dB 2.40000 GHz
2 1.6514 dB 2.45000 GHz
3 1.6032 dB 2500.000 000 MHz

PX0408 Polar plots - 440 to 470MHz Frequency Band
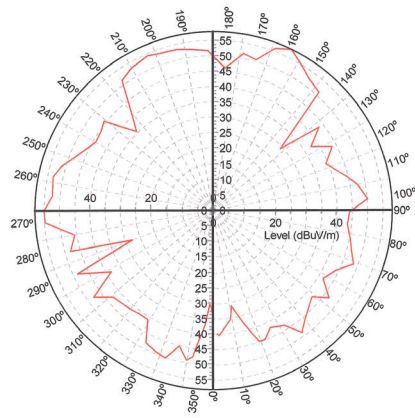
Pattern Field   E
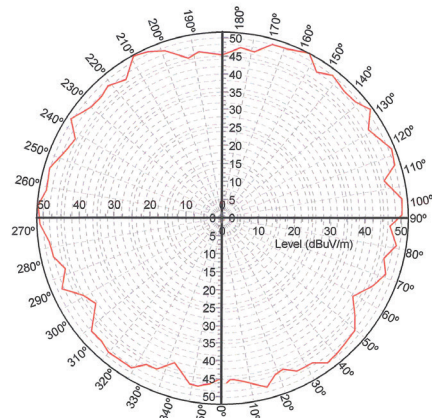
Pattern Field   H

PX0408 Radiation Pattern plots
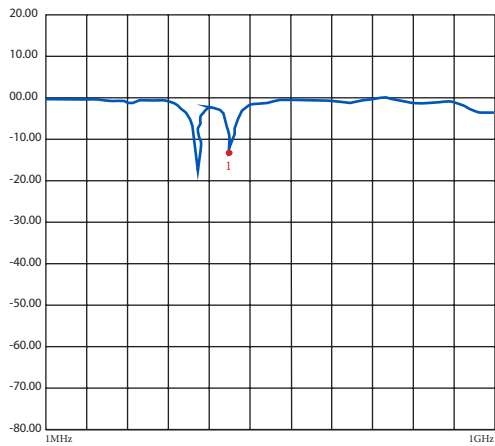
1 450.00000 MHz -13.300 dB
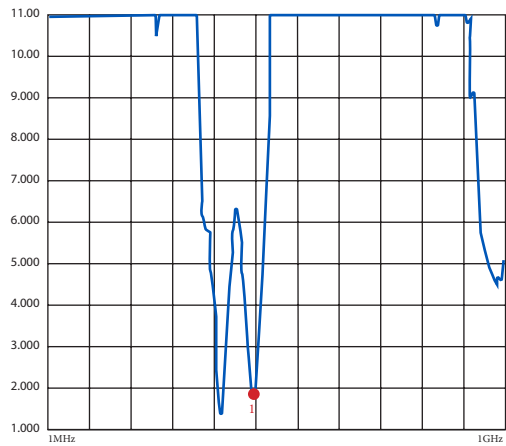
1 450.00000 MHz -13.300 dB

PX0409 / 850-900MHz Polar plots
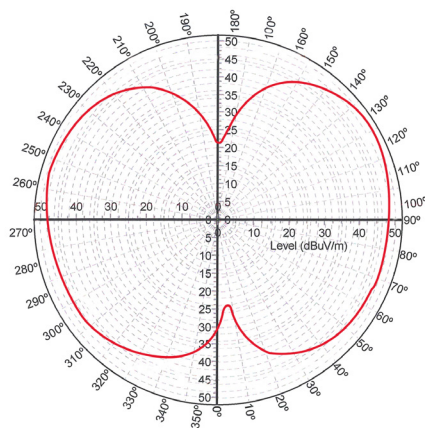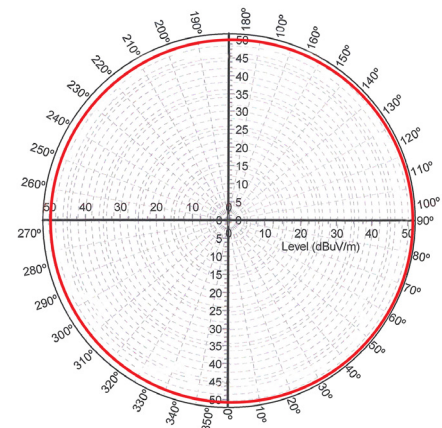
Pattern Field   E

Pattern Field   H
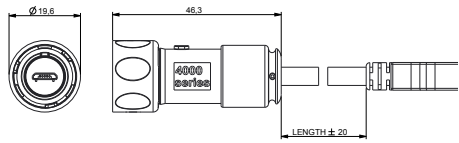
PX0409 / 850-900MHz Radiation Pattern plots
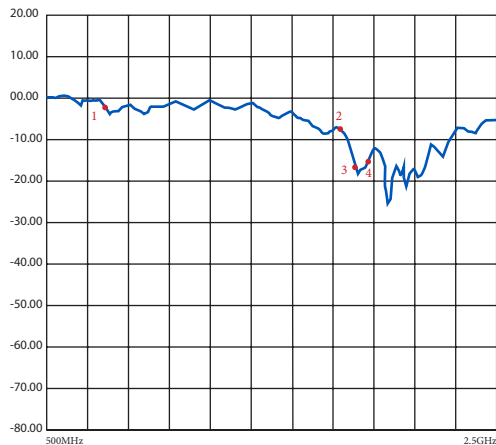
1 900.00000 MHz -3.4307 dB
2 1.8000000 GHz -9.0130 dB
3 1.8800000 GHz -19.516 dB
4 1.9000000 GHz -20.297 dB
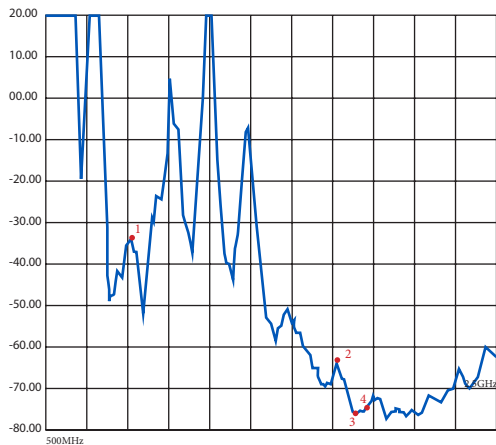
1 900.00000 MHz 5.1694 dB
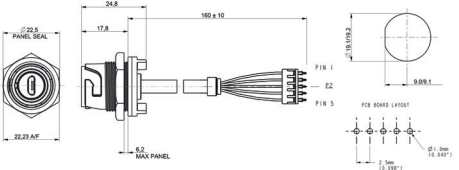2 1.8000000 GHz 2.2481 dB
3 1.8800000 GHz 1.2377 dB
4 1.9000000 GHz 1.2052 dB

PX0409 / 1800MHz Polar plots
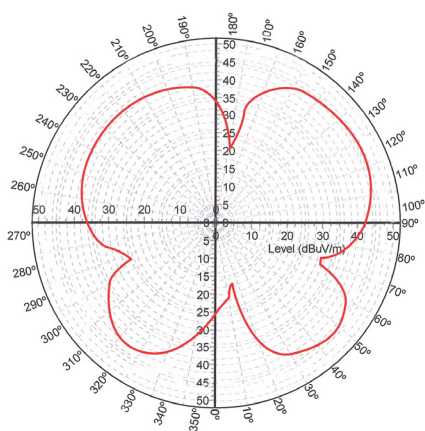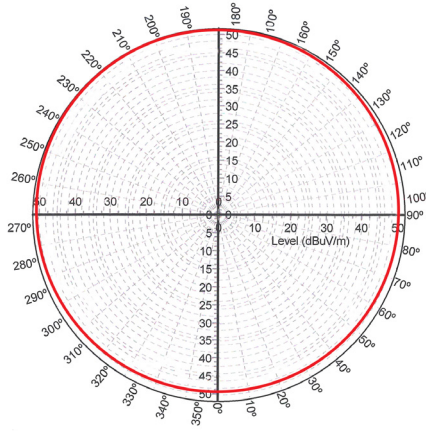
Pattern Field   E

Pattern Field   H

PX0409 / 1800MHz Radiation Pattern plots
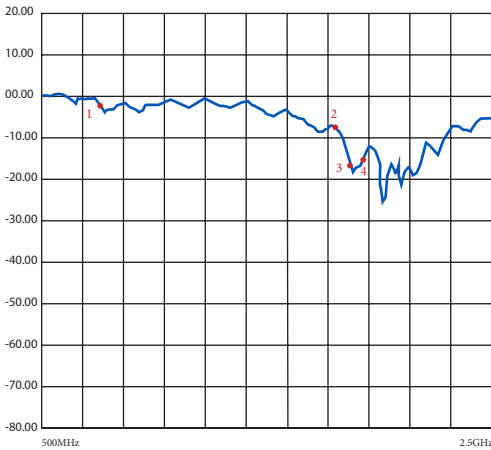
1 900.00000 MHz -3.4307 dB
2 1.8000000 GHz -9.0130 dB
3 1.8800000 GHz -19.516 dB
4 1.9000000 GHz -20.297 dB
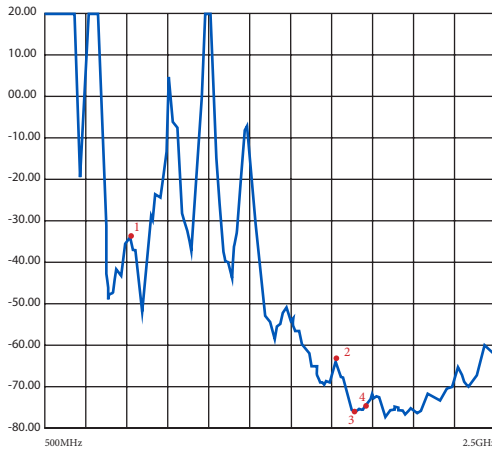
1 900.00000 MHz 5.1694 dB
2 1.8000000 GHz 2.2481 dB
3 1.8800000 GHz 1.2377 dB
4 1.9000000 GHz 1.2052 dB

PX0409 / 1900MHz Polar plots
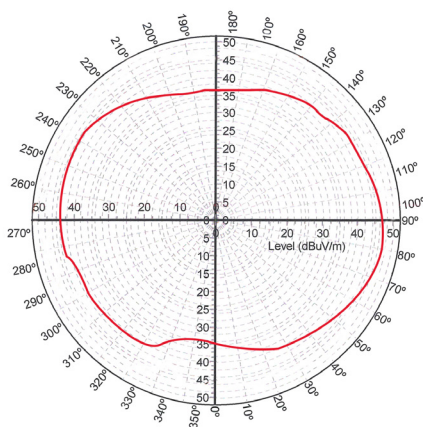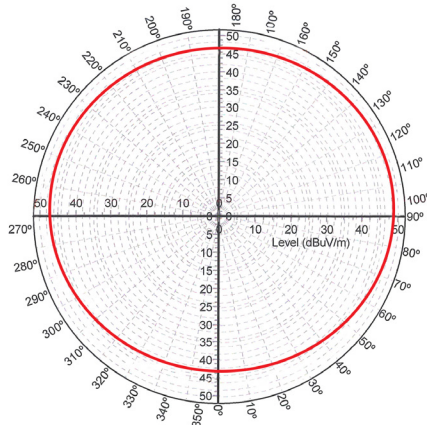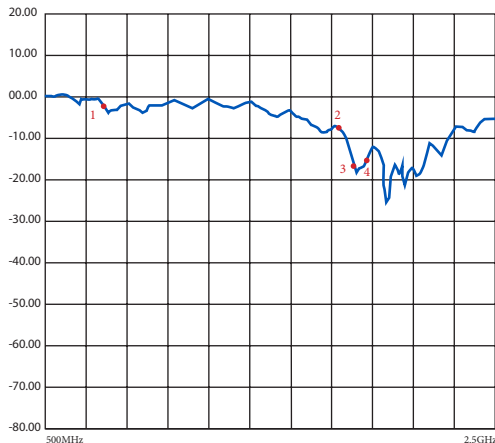
Pattern Field   E

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
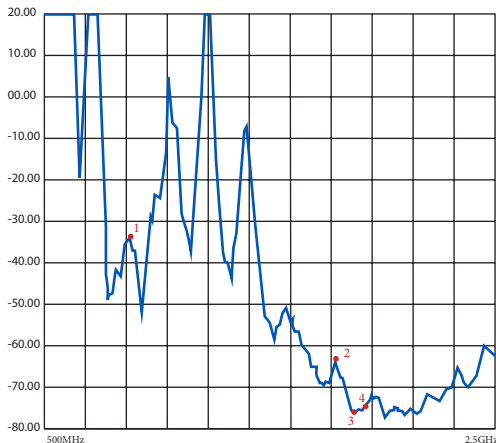
1 900.00000 MHz 5.1694 dB
2 1.8000000 GHz 2.2481 dB
3 1.8800000 GHz 1.2377 dB
4 1.9000000 GHz 1.2052 dB

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

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

Sealed Micro 'B' to Standard 'A'

PXP4040/B

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

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/B

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

Part no.	Description
PXP4043/B	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
PXP4083	Sealing cap for use with PXP4013 & PXP4043

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

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

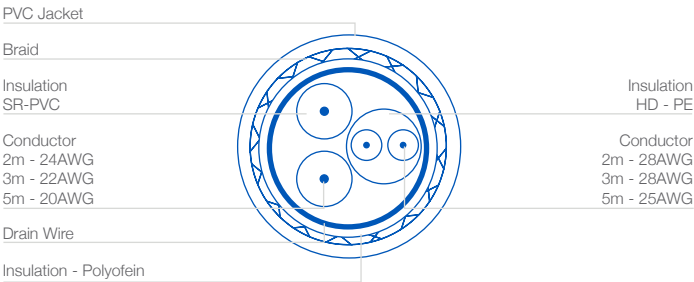### Materials - Re-wireable and Panel Connectors

Shell material	Steel
Shell plating	Nickel
Contact material	Copper Alloy
Contact plating	50 micro inch Gold
Connector body & locking ring	PC/PBT
Panel connector	PC/PBT
Flammability rating	UL94V-0
'O' rings	Silicone
Mating cycles	1,000
RoHS	Compliant

Materials - cable

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

Length:	Dia	Conductors Signal	Conductors 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

PVC Jacket

Braid

Insulation
SR-PVC

Conductor
2m - 24AWG
3m - 22AWG
5m - 20AWG

Drain Wire

Insulation - Polyofein

Insulation
HD - PE

Conductor
2m - 28AWG
3m - 28AWG
5m - 25AWG

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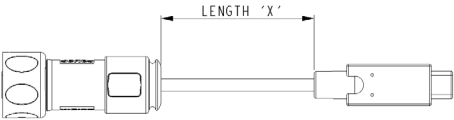
- IP66, IP68 and IP69K rated
- USB3.2 supported
- Plug and play capability
- Shielded system
- Secure, proven locking system

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

4000 Series - C-Type USB Buccaneer

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Sealed 'C' type to Standard 'C'

- 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

LENGTH 'X'

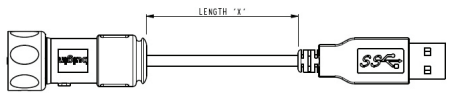| Part No.	Length	Description
PXP4041/C/C/1M00	1.0m	IP-sealed 'C' type to Standard 'C' type USB
PXP4041/C/C/2M00	2.0m	IP-sealed 'C' type to Standard 'C' type USB
PXP4041/C/C/3M00	3.0m	IP-sealed 'C' type to Standard 'C' type USB
PXP4041/C/C/5M00	5.0m	IP-sealed 'C' type to Standard 'C' type USB

Sealed 'C' type to Standard 'A'

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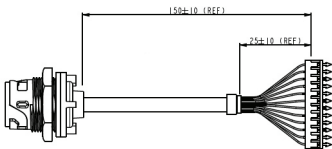- Plug variant mates with PXP4043/C
- USB 3.2 Gen 1 Supported

PXP4040/C/A

LENGTH 'X'

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

- 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

PXP4043/C

150±10 (REF)
25±10 (REF)

Part no.	Description
PXP4043/C	IP-sealed 'C' type USB, rear panel mounted. 2x 12 way header connector at rear

Sealing Caps

- 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	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

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	5A
Voltage rating	≤ 30V AC
Contact resistance	40m Ω max.
USB3.2 Gen 1:	5Gbps (2m maximum length)
USB3.2 Gen 2:	10Gbps (1m maximum length)
USB3.2 Gen 1x2:	10Gbps (2m maximum length)
USB3.2 Gen 2x2:	20Gbps (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	PC/PBT
Panel connector	PC/PBT
Flammability rating	UL94V-0
'O' rings	Silicone
Mating cycles	1,000
RoHS	Compliant

Materials - cable

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

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

Jacket

Braid

AL / MYLAR

MYLAR

Conductor

Insulation

Drain
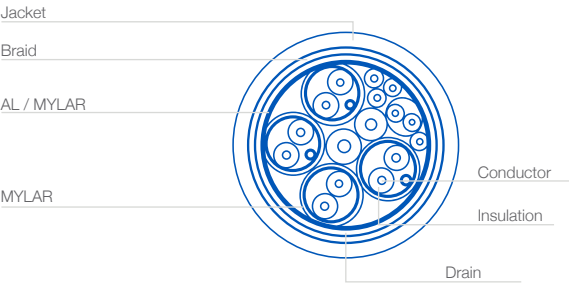
PXP4043/C

|	Wire Colour	Label	Type	Cable Number	PCB Header Plugs P2	PCB Header Plugs P3
A1	-	Gnd	Braid	-	1	-
A2	Orange	TxI+	Shielded Twisted	3	2	-
A3	Brown	TxI-	Shielded Twisted	3	3	-
A4	Red	Vbus	Power	11	4	-
A5	Blue	CC1	Single	10	5	-
A6	White	D+	Shielded Twisted	5	6	-
A7	Green	D-	Shielded Twisted	5	7	-
A8	Orange	Sbu1	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
B3	Red	Tx2-	Shielded Twisted	1	-	10
B4	Red	Vbus	Power	11	-	9
B5	Yellow	CC2	Single	9	-	8
B6	Purple	D+	Twisted Pair	6	-	7
B7	Grey	D-	Twisted Pair	6	-	6
B8	Brown	Sbu2	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
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)

USB-C RECEPTACLE PINOUT END-ON VIEW
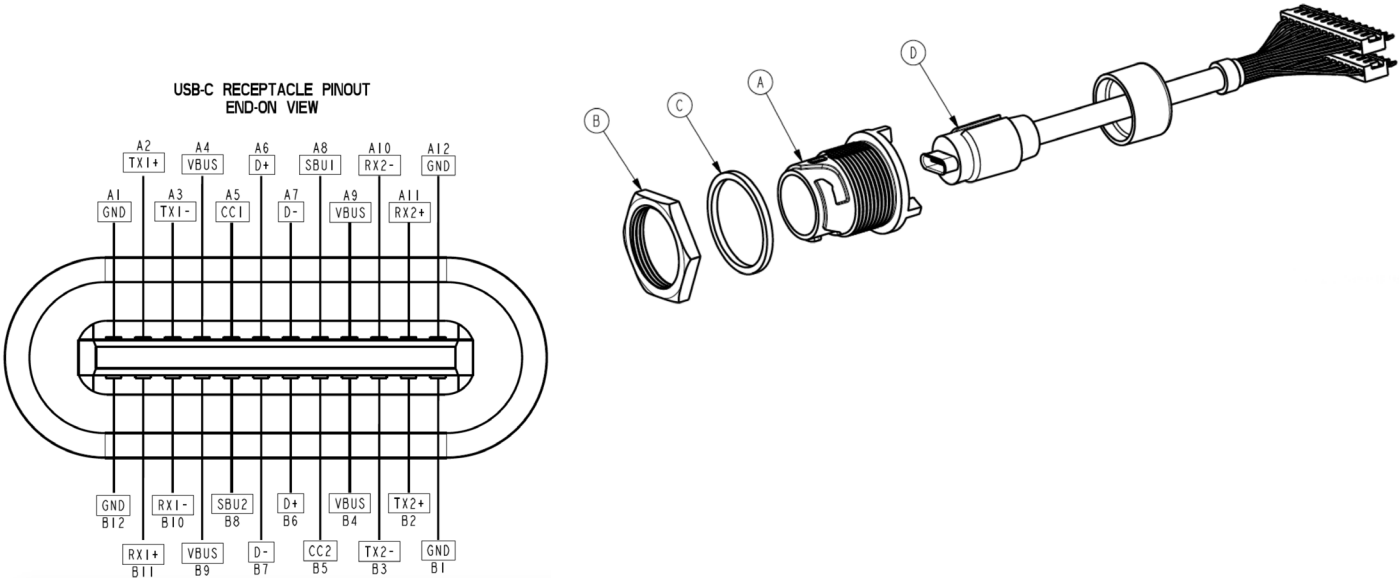
PXP4040/C/A

	Wire Colour	Label	Type	Cable Number	USB-3 Plug P2
A1, B1, A12, B12	-	Gnd	Braid	-	4, 7
A4, B4, A9, B9	Red	Vbus	-	10, 11	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	-	-	Braid	Screen	Shield

USB-C PLUG PINOUT END-ON VIEW
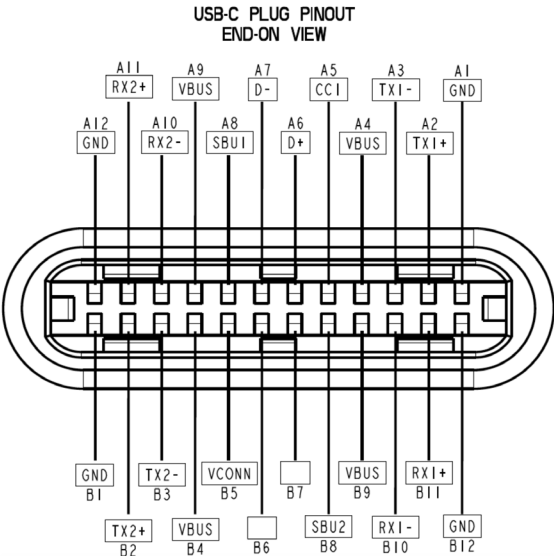
Wiring Notes:

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.
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).
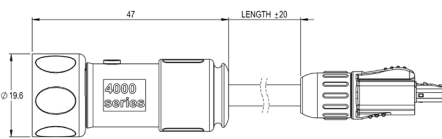
4000 Series - Single Pair Ethernet Buccaneer
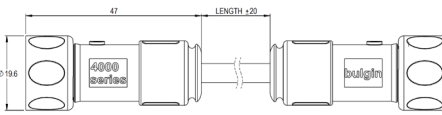
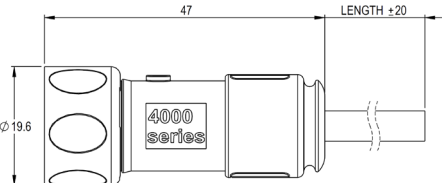Sealed SPE Cables

SPE | INDUSTRIAL PARTNER NETWORK

- IP66, IP68 ratings when mated
- EN60068-2-52 Test Kb Salt Mist (Cyclic) Marine Severity Level 1
- 10BASE-T1L performance in accordance with IEC 61156-12:2021
- Single and double-ended cable assemblies
- 22 AWG and 26 AWG cable options

- Front and rear panel mounts
- Bayonet coupling
- Secure, proven locking system
- Tamperproof construction

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Patch Cord Flex Connector - Single-Ended

- Mates with both Bulgin SPE panel mount connectors
- Fitted with IEC 63171-6:2021 SPE plugs
- Standard lengths: 1m, 2m, 3m, 5m
- 22 AWG and 26 AWG cable sizes

PXPSPE4030

Part No.	Description
PXPSPE4030/1M/22	4000 Series SPE Buccaneer to IP20 'T1' SPE Connector, 1 metre cable, 22 AWG
PXPSPE4030/2M/22	4000 Series SPE Buccaneer to IP20 'T1' SPE Connector, 2 metre cable, 22 AWG
PXPSPE4030/3M/22	4000 Series SPE Buccaneer to IP20 'T1' SPE Connector, 3 metre cable, 22 AWG
PXPSPE4030/5M/22	4000 Series SPE Buccaneer to IP20 'T1' SPE Connector, 5 metre cable, 22 AWG
PXPSPE4030/1M/26	4000 Series SPE Buccaneer to IP20 'T1' SPE Connector, 1 metre cable, 26 AWG
PXPSPE4030/2M/26	4000 Series SPE Buccaneer to IP20 'T1' SPE Connector, 2 metre cable, 26 AWG
PXPSPE4030/3M/26	4000 Series SPE Buccaneer to IP20 'T1' SPE Connector, 3 metre cable, 26 AWG
PXPSPE4030/5M/26	4000 Series SPE Buccaneer to IP20 'T1' SPE Connector, 5 metre cable, 26 AWG

Patch Cord Flex Connector - Double-Ended

- Mates with both Bulgin SPE panel mount connectors
- Fitted with IEC 63171-6:2021 SPE plugs
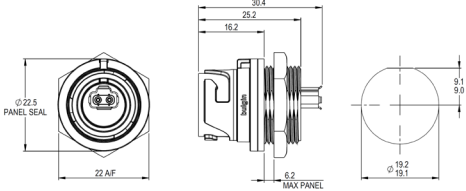- Standard lengths: 1m, 2m, 3m, 5m
- 22 AWG and 26 AWG cable sizes

PXPSPE4031

Part No.	Description
PXPSPE4031/1M/22	4000 Series SPE Buccaneer to 4000 Series SPE Buccaneer, 1 metre cable, 22 AWG
PXPSPE4031/2M/22	4000 Series SPE Buccaneer to 4000 Series SPE Buccaneer, 2 metre cable, 22 AWG
PXPSPE4031/3M/22	4000 Series SPE Buccaneer to 4000 Series SPE Buccaneer, 3 metre cable, 22 AWG
PXPSPE4031/5M/22	4000 Series SPE Buccaneer to 4000 Series SPE Buccaneer, 5 metre cable, 22 AWG
PXPSPE4031/1M/26	4000 Series SPE Buccaneer to 4000 Series SPE Buccaneer, 1 metre cable, 26 AWG
PXPSPE4031/2M/26	4000 Series SPE Buccaneer to 4000 Series SPE Buccaneer, 2 metre cable, 26 AWG
PXPSPE4031/3M/26	4000 Series SPE Buccaneer to 4000 Series SPE Buccaneer, 3 metre cable, 26 AWG
PXPSPE4031/5M/26	4000 Series SPE Buccaneer to 4000 Series SPE Buccaneer, 5 metre cable, 26 AWG

Patch Cord Flex Connector - `Wire-Ended

- Mates with both Bulgin SPE panel mount connectors
- Fitted with IEC 63171-6:2021 SPE plugs
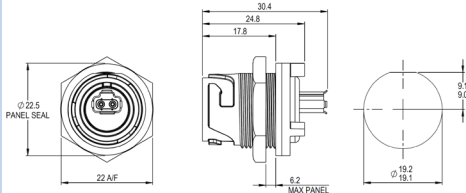- Standard lengths: 1m, 2m, 3m, 5m
- 22 AWG and 26 AWG cable sizes

PXPSPE4034

Part No.	Description
PXPSPE4034/1M/22	4000 Series SPE Buccaneer to blunt-cut wire, 1 metre cable, 22 AWG
PXPSPE4034/2M/22	4000 Series SPE Buccaneer to blunt-cut wire, 2 metre cable, 22 AWG
PXPSPE4034/3M/22	4000 Series SPE Buccaneer to blunt-cut wire, 3 metre cable, 22 AWG
PXPSPE4034/5M/22	4000 Series SPE Buccaneer to blunt-cut wire, 5 metre cable, 22 AWG
PXPSPE4034/1M/26	4000 Series SPE Buccaneer to blunt-cut wire, 1 metre cable, 26 AWG
PXPSPE4034/2M/26	4000 Series SPE Buccaneer to blunt-cut wire, 2 metre cable, 26 AWG
PXPSPE4034/3M/26	4000 Series SPE Buccaneer to blunt-cut wire, 3 metre cable, 26 AWG
PXPSPE4034/5M/26	4000 Series SPE Buccaneer to blunt-cut wire, 3 metre cable, 26 AWG

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Front Panel Mounting Connector

- Mates with all Bulgin PXPSPE403X patch cords
- Standard 'T1' SPE plugs can be used with either side
- Single hole fixing
- Complete with panel sealing gasket

PXPSPE4032

Part No.	Description	Fixing
PXPSPE4032	SPE coupler	Front panel mounted

Rear Panel Mounting Connector

- Mates with all Bulgin PXPSPE403X patch cords
- Standard 'T1' SPE plugs can be used with either side
- Single hole fixing
- Complete with panel sealing gasket

PXPSPE4033

Part No.	Description	Fixing
PXPSPE4033	SPE coupler	Rear panel mounted

Sealing Caps

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

PXP4083   PXP4081

Part No.	Description
PXP4081	Sealing cap for use with patch cords PXPSPE4030, PXPSPE4031, and PXPSPE4034
PXP4083	Sealing cap for use with panel mounts PXPSPE4032 and PXPSPE4033

Patch Cord Part Numbering

PXPSPE403X	/	XM	/	XX

Cable Assembly Style	Cable length	Cable gauge
PXPSPE4030 = Flex to 'T1'	1M = 1 metre	22 = 22 AWG
PXPSPE4031 = Flex to Flex	2M = 2 metre	26 = 26 AWG
PXPSPE4034 = Flex to bare end	3M = 3 metre	
	5M = 5 metre	

Examples:

PXPSPE4030/1M/22 = 4000 Series SPE Buccaneer to IP20 'T1' SPE Connector patch cord, 1 metre cable, 22 AWG

PXPSPE4031/2M/26 = 4000 Series SPE Buccaneer to 4000 Series SPE Buccaneer patch cord, 2 metre cable, 26 AWG

PXPSPE4034/5M/22 = 4000 Series SPE Buccaneer to bare end patch cord, 5 metre cable, 22 AWG

PXPSPE403X-XM-22 Cable Cross-Section

1. Tinned, stranded copper
2. Blue PE insulation (core 1)
3. White PE insulation (core 2)
4. Filler
5. Alu-coated polyester film
6. Wire braiding
7. Outer PVC jacket
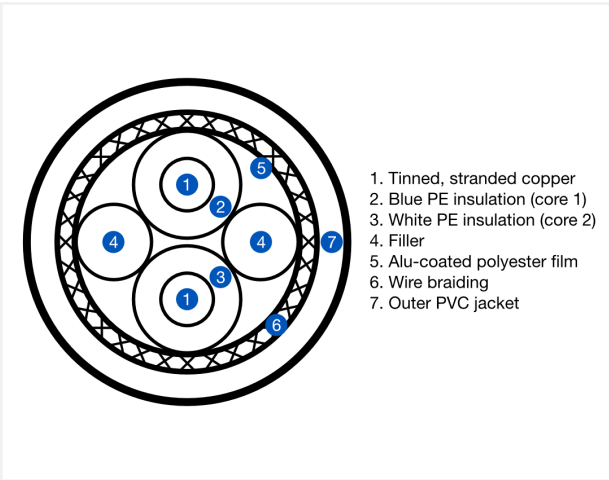
PXPSPE403X-XM-26 Cable Cross-Section

1. Tinned, stranded copper
2. Blue PE insulation (core 1)
3. White PE insulation (core 2)
4. Filler
5. Inner TPE jacket
6. Alu-coated polyester film
7. Wire braiding
8. Outer PUR jacket

Cables & Connectors

Mechanical

Sealing	IP68, EN 60529:1992 + A2:2013 (10m depth for 2 weeks) IP66, EN 60529:1992 + A2:2013
Salt Mist	EN60068-2-52 Test Kb Salt Mist (Cyclic) Marine Severity Level 1
Operating temperature	-40°C to +80°C
Panel Mount Nut Torque	1.0 – 1.1 Nm (91 lb.in)

Electrical

No. of Contacts	2 way + shielding
Current rating	4 A
Voltage rating	60 V DC
Contact resistance	≤ 20 mΩ

Materials - Patch Cords and Panel Connectors

Shell material	Stainless Steel
Shell plating	Nickel
Contact material	Copper Alloy, Gold Plated
Connector body & locking ring	PC/PBT
Flammability rating	UL94V-0
'O' rings	Silicone
Mating cycles	1,000
RoHS	Compliant

Material - Cable

Cable Jacket	Black PVC (22 AWG), Black PUR (26 AWG)
Screen	Tinned copper braid
Flammability	UL94V-0
RoHS	Compliant

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, vibrations & extreme temperatures. Moreover, our 600 Series offer 100% transversely sealed (IP68) connectors preventing dust, water or moisture penetration. 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:

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

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

Transversely Sealed Inline Plug

- IP68 when mated & unmated
- Female RJ45 interface
- Screw coupling
- Mates with Plug with cap & Plug
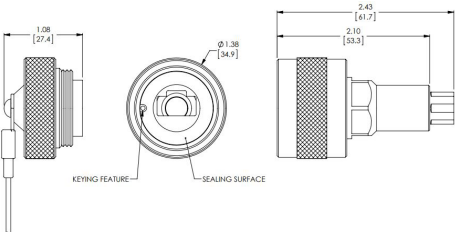- Standard RJ45 cable to be sourced or modular connector
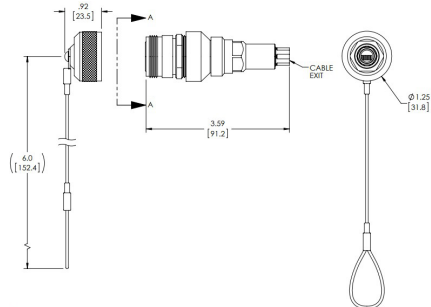
PXM0608

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

Plug with Cap

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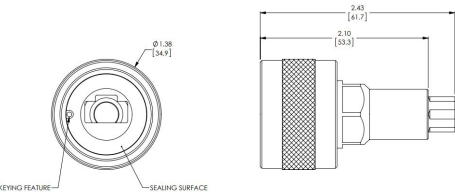- Standard RJ45 cable to be sourced or modular connector

PXM0609

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	6.88-8.38mm

Jam Nut with Cap

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

PXM0610

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

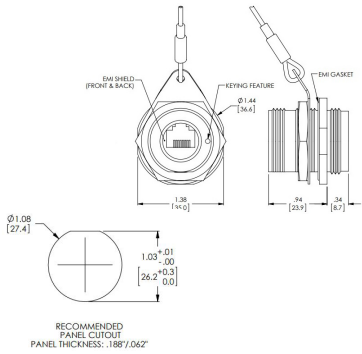## Jam Nut

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

PXM0619

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

Transversely Sealed Flange Mount

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

PXM0628

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
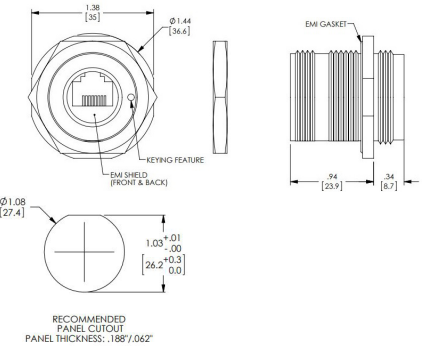- Mates with Plug with cap & Plug
- Panel thickness: 1.5-5mm

PXM0627

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

- IP68 when mated
- Female RJ45 interface
- Screw coupling
- Mates with Plug with cap & Plug
- Panel thckness: 1.5-5mm
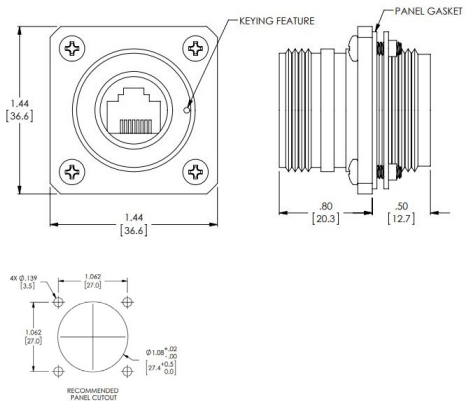
PXM0626

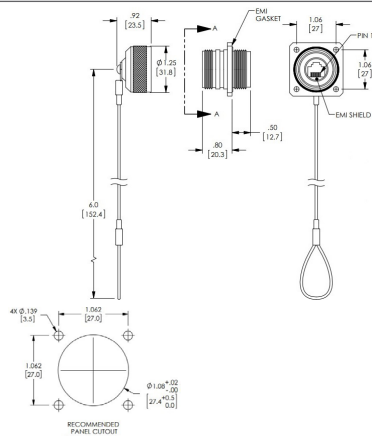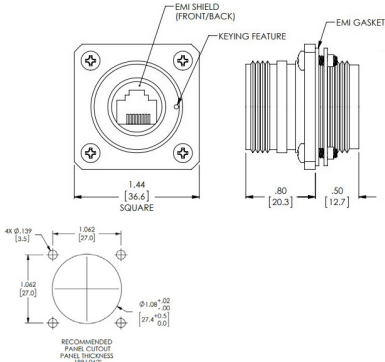| Part No.	Category	Plating	Colour	EMI Protection
PXM06265FANBKUS	Category 5e	Anodised	Black	Unshielded

Flange Mount

- IP68 when mated
- Female RJ45 interface
- Screw coupling
- Mates with Plug with cap & Plug
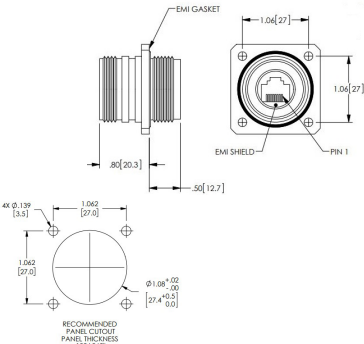
PXM0629

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

Product Specification:

Electrical

Shock Resistance:	100g 6ms
Humidity:	98%
Insertion Loss:	1000 BASE-T
Hi-pot high-voltage Test:	600VAC-60Hz, 900uA
Shell-to-shell conductivity:	1A @ 1.5VDC, 100hrs
Electromagnetic Shielding Effectiveness:	20kHz, 150kHz, 14MHz, 400MHz, 600MHz, 1GHz, 2GHz, 8GHz, 10GHz, vert. and horz., <-60dB

Material:

Body:	Aluminium
Plating:	Available in Anodised, Electroless Nickel
Hardware:	Stainless Steel
Seals:	Silicone
Flammability:	Compliant to V0, V1, 10sec each
Lanyard:	Stainless Steel
RoHS	Compliant

Mechanical:

Cycles:	>500
Sealing:	IP68, 1m depth for 48hrs
Dust Test:	20mBAR air pressure, 8hrs
Termination:	Crimp terminals
Salt Spray:	500hr
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

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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 tests
IP 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

○ 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

○ 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

Sealed USB Cables - Single Ended

PXP6040/A

PXP6040/B

- Single ended sealed cable assembly
- Mates with all panel mounting connectors
- 30° twist locking
- 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
- Available in 2m, 3m & 5m lengths
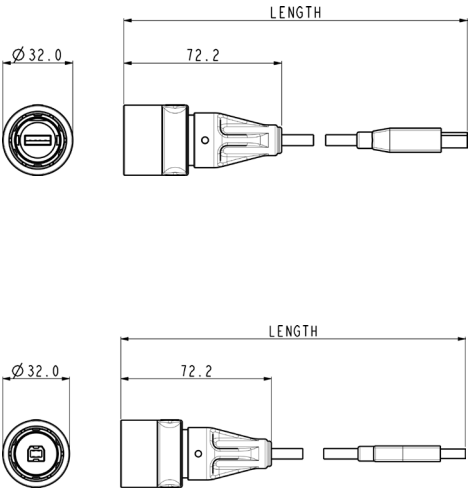
Part no	Length	Description
PXP6040/A/2M00	2m	IP rated A type USB to standard B type USB
PXP6040/A/3M00	3m	IP rated A type USB to standard B type USB
PXP6040/A/5M00	5m	IP rated A type USB to standard B type USB
PXP6040/B/2M00	2m	IP rated B type USB to standard A type USB
PXP6040/B/3M00	3m	IP rated B type 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
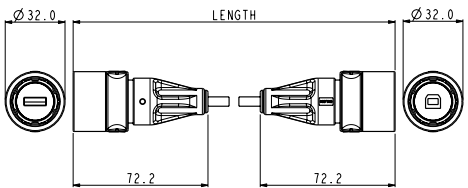
| Part no	Length	Description
PXP6041/AB/2M00	2m	IP rated A type USB to IP rated B type USB
PXP6041/AB/3M00	3m	IP rated A type USB to IP rated B type USB
PXP6041/AB/5M00	5m	IP rated A type USB to IP rated B type USB

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

PXP6042/B   PXP6042/A

26.6 MAX   14.0 MAX   3.5
Ø32.0   R13.5
Ø32.0   Ø22.5
5.2 Max Panel
0.8 Min Panel
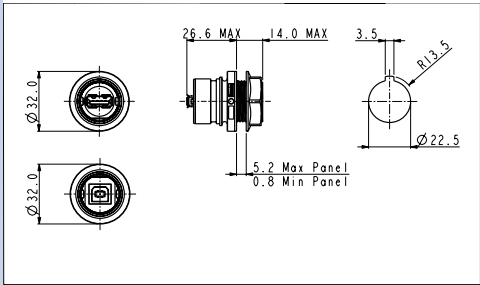
Part No.	Description
PXP6042/A	IP rated A type USB, front panel mounted. Sealed A type at front of panel, standard B type at rear.
PXP6042/B	IP rated B type USB, front panel mounted. Sealed B type at front of panel, standard A type at rear.

Front Panel Mounting Connector

- ○ PXP6043/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

PXP6043/B   PXP6043/A

26.6 MAX   14.0 MAX   3.5
Ø32.0   R13.5
Ø32.0   Ø22.5
5.2 Max Panel
0.8 Min Panel
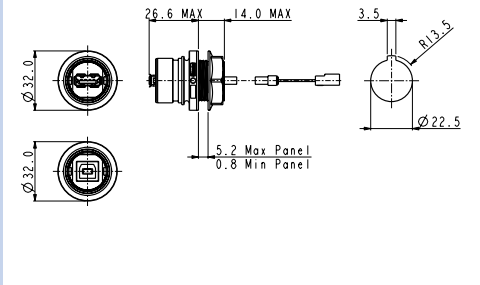
Part No.	Description
PXP6043/A	IP rated A type USB, front panel mounted. Sealed A type at front of panel, 5 way crimp connector at rear.
PXP6043/B	IP rated B type USB, front panel mounted. Sealed B type at front of panel, 5 way crimp connector at rear.
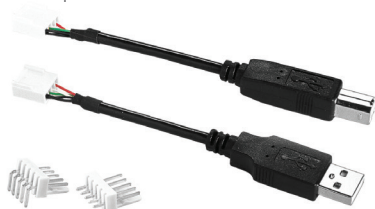
PCB Adaptor Leads

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

PNo 14193

PNo 14194

PNo 14191

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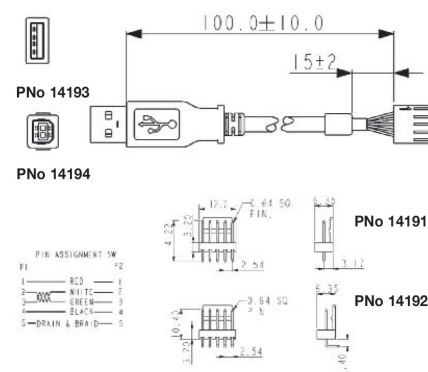
Part No.	Description
14193	USB 'A' type to 5 way crimp connector
14194	USB 'B' type to 5 way crimp connector
14191	5 way PCB header straight
14192	5 way PCB header right angle

Sealing Caps

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

PXP6083 & PXP6081
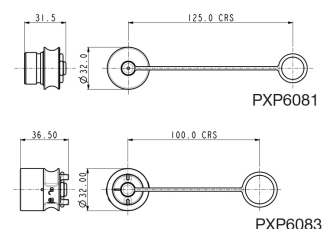
PXP6081

PXP6083

Part No.	Description
PXP6081	Sealing Cap for Flex cable connectors (PXP6040, PXP6041)
PXP6083	Sealing Cap for front panel mounting connector (PXP6042, PXP6043)

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| 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

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
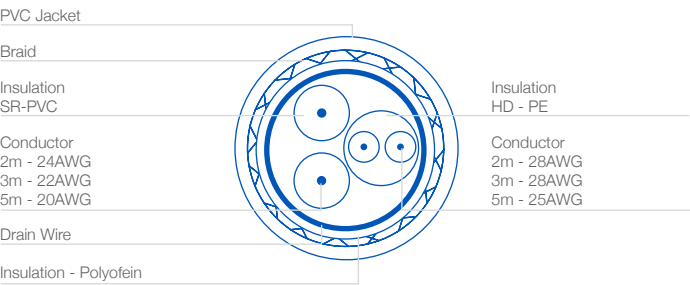
Cables & connectors

Mechanical

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

Electrical

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

Materials - Overmoulded

Overmould material	PVC (black)
Flammability rating	UL94V-0

Materials - Re-wireable and Panel Connectors

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

Materials - cable

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

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

PCB adaptor leads

Electrical

No. of conductors	4
Current rating	1A
Voltage rating	30V AC (RMS)
Contact resistance	<10mΩ max.
PCB pitch	2.54mm

Materials

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

Cable construction - PXP6040, PXP6041

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

Patch Cord Flex Connector - Pur Jacket Cable

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

PXP6037

Ø 32.0   LENGTH ±20.0   72.2

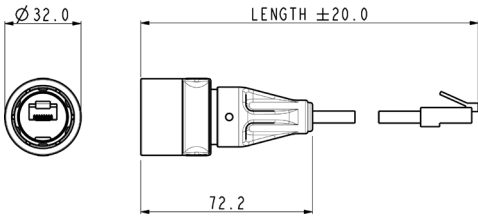| Part no	Type	Length	Description
PXP6037/2M00	Single ended	2m	IP RJ Buccaneer to Shielded RJ45
PXP6037/3M00	Single ended	3m	IP RJ Buccaneer to Shielded RJ45
PXP6037/5M00	Single ended	5m	IP RJ Buccaneer to Shielded RJ45

Patch Cord Flex Connector - Pur Jacket Cable

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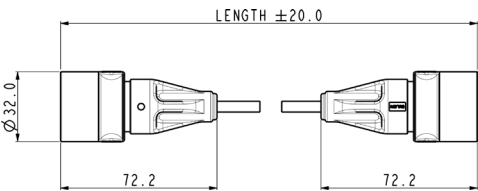○ Exceeds EIA/TIA Cat 5e

PXP6038

LENGTH ±20.0   Ø 32.0   72.2   72.2

Part no	Type	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

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

PXP6034

Ø 32.0   78.4 MAX
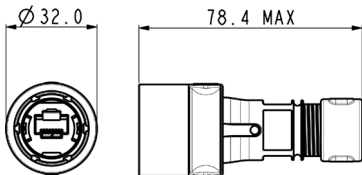
Part no	Description
PXP6034/A	Cable glands optimised for PUR jacket cable to maintain Cat 5e performance
PXP6034/B	Suitable for use with cables from 4.0 to 10.0mm diameter

Front Panel Mounting Connector

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

PXP6033TP

Ø 32.0   90.0-95.0   3.5   R13.5   Ø22.5   30.0   14.0   (PXP6033TP/E) M4 INSULATED RING TAG   5.2 Max Panel   0.8 Min Panel

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

Re-wireable Flex Connector

○ 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.

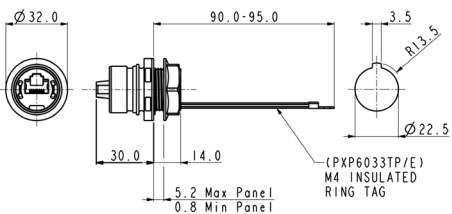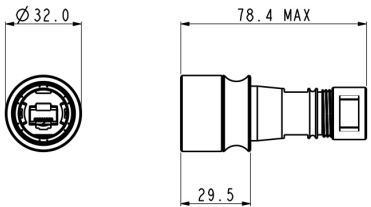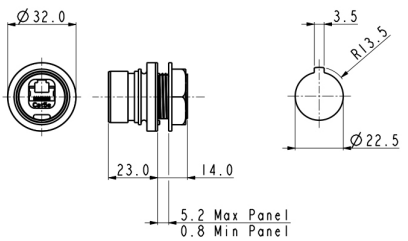PXM6034

Ø 32.0   78.4 MAX   29.5

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

Front Panel Mounting Connector

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

PXM6033

Ø 32.0   3.5   R13.5   Ø 22.5
23.0   14.0
5.2 Max Panel
0.8 Min Panel

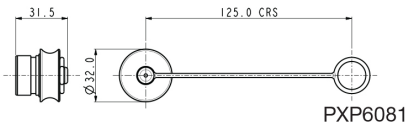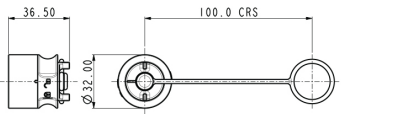| Part no	Description	Fixing
PXM6033TP	Cat 5e coupler	Front panel mounted - sealed through panel

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

31.5 125.0 CRS Ø32.0

PXP6081

36.50 100.0 CRS Ø32.00

PXP6083

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

Sealing Caps

PXM6083 & PXM6081

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

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

31.5 125.0 CRS Ø32.0

PXM6081

35.2 100.0 CRS Ø32.0
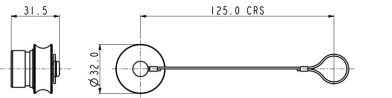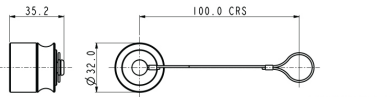
PXM6083

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

PX X	/	6XXX	/	XX	/	X or XXXX

Series Designation

PXP - Plastic
PXM - Metal

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

PXM6033TP = Panel mounted coupler, through panel sealed

Ethernet – Metal and Thermo-plastic versions

Connectors

Mechanical

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

Materials - Overmoulded

Overmould material	PVC (black)
Flammability rating	UL94V-0

Materials - Re-wireable and Panel Connectors

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

Stranded S-FTP Patch cord cable - PUR Jacket

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

Cable

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

Electrical @ 20°C

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

Cable construction - PXP6037, PXP6038 and 14199

PCB adaptor leads

Electrical

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

Materials

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

Cable construction - PXP6040, PXP6041

24 AWG - 7/0.20mm conductor — Mylar tape

Braiding 7/0.12mm — Insulation - HD-PE

Jacket 6.10mm dia. — Aluminium/PEPT tape

— Drain Wire