

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.







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

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



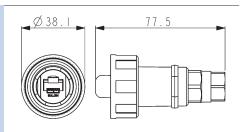
Patch Cord Flex C	Connector		 Mates with all panel mounting connectors Patchcords with IP68 connector Supplied with shielded RJ45 plug Single or double end terminated Standard lengths: 2m, 3m & 5m S-FTP cable construction PUR (Cat 5e) or PVC (Cat 6a / 8) jacket cable 	
		PX0836	 Wiring configuration to 568-B 	
Part no.	Туре	Length	Description	
PX0836/2M00 PX0836/3M00 PX0836/5M00 PX0837/2M00 PX0837/3M00 PX0837/5M00 PX0838/2M00 PX0838/2M00 PX0896/2M00 PX0896/2M00 PX0896/5M00 PX0896/5M00 PX0897/2M00 PX0897/2M00 PX0898/2M00 PX0898/2M00 PX0857/2M00 PX0857/2M00 PX0857/2M00 PX0857/5M00 PX0858/2M00 PX0858/2M00 PX0858/3M00 PX0858/3M00 PX0858/3M00	Wire end Wire end Single ended Single ended Double ended Double ended Double ended Wire end Wire end Wire end Single ended Single ended Double ended Double ended Single ended Single ended Single ended Single ended Single ended Double ended Double ended Double ended Double ended Double ended Double ended	2m 3m 5m 2m 3m 5m 2m 3m 5m 2m 3m 5m 2m 3m 5m 2m 3m 5m 2m 3m 5m 2m 3m 5m 2m	Cat 5e IP68 RJ45 Buccaneer to bare end Cat 5e IP68 RJ45 Buccaneer to bare end Cat 5e IP68 RJ45 Buccaneer to Shielded RJ45 Cat 5e IP68 RJ45 Buccaneer to Shielded RJ45 Cat 5e IP68 RJ45 Buccaneer to IP68 RJ45 Buccaneer Cat 6a IP68 RJ45 Buccaneer to IP68 RJ45 Buccaneer Cat 6a IP68 RJ45 Buccaneer to bare end Cat 6a IP68 RJ45 Buccaneer to bare end Cat 6a IP68 RJ45 Buccaneer to Shielded RJ45 Cat 6a IP68 RJ45 Buccaneer to IP68 RJ45 Buccaneer Cat 8a IP68 RJ45 Buccaneer to IP68 Shielded RJ45 Cat 8a IP68 RJ45 Buccaneer to IP68 RJ45 Buccaneer Cat 8a IP68 RJ45 Buccaneer to IP68 RJ45 Buccaneer	

Re Wireable Flex Connector



\bigcirc	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

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



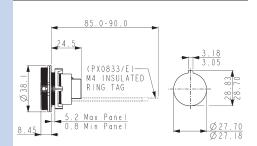
Front Panel Mounting Coupler Connector

Part no.



- Cat 5e mates with PX0836, PX0837, PX0838 & PX0834 flex connectors ○ Cat 6a mates with PX0896, PX0897, PX0898 & PX0894 flex connectors
- $\bigcirc~$ Standard RJ45 patchcord can be plugged into rear
 Version with earth wire available

- Single hole fixing
 Complete with panel sealing gasket



Description	Fixing
PX0833	

PX0833 PX0833/E PX0893 PX0893/E	Cat 5e coupler Cat 5e coupler + earth Cat 6a coupler Cat 6a coupler + earth		Front panel mounted Front panel mounted Front panel mounted Front panel mounted		
Front Panel Mounting K	eystone Connector	Conn Cat 8 flex c Toolle Main Singl	wards compatible with all flex ectors mates with PX0857, PX0858 connectors ess jack termination tains shielding ground continuity e hole fixing plete with panel sealing gasket	36 52 Max Panel 8.45 0.8 Min Panel	3.18 3.05 Ø 88 88 87 Ø 27.70 Ø 27.18

PX0855/KS

Part no.	Description	Fixing		
PX0855/KS	Cat 8 Keystone conne	ctor Front panel mounted		
Rear Panel Moun	ting 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 	29 50 52 Max Panel 0.8 Mn Panel	2.60 2.70 St (65) 50 50 50 50 50 50 50 50 50 50 50 50 50
	PX0856/KS			
Part no.	Description	Fixing		

PX0856/KS Cat 8 Keystone connector

Rear panel mounted



Flange Mountin	ng Connector	 Cat 5e mates with PX0836, PX0837, PX0838 & PX0834 flex connectors Cat 6a mates with PX0896, PX0897, PX0898 & PX0894 flex connectors Standard RJ45 patchcord can be plugged into rear Version with earth wire available Flange fixing Complete with panel sealing gasket 	44.50 SQ CRS 44.50 10.75 22.25 50 50 50 50 50 50 50 50 50 50 50 50 50
	Description	Fiving	
Part no. PX0870 PX0870/E PX0890 PX0890/E	Description Cat 5e coupler Cat 5e coupler + earth wire Cat 6a coupler Cat 6a coupler + earth wire	Fixing Flange mounting Flange mounting Flange mounting Flange mounting	
PCB Mounting	Connector	 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 	1.5 Max Panel 0.8 Min Pane 7.75 Fixing Details C.60-2.70 0.2.2 0.8 Min Pane 0.8
Part no.	Description	Fixing	
PX0839/PC	Cat 5e connector - PC	Rear panel mounted	
PCB Mounting	Connector	 Cat 5e shielded RJ45 interface Rear of panel mounted Mates with PX0836, PX0837, PX0838 and PX0834 flex connectors For direct horizontal mounting to PCB, 90° Plugs Complete with panel sealing PX0839/90 gasket 	1.5 Max Pane 0.8 Min Pane 6.9 35.70 6.9 35.70 Fixing Details From Front
		Eixing	4.4
Part no. PX0839/90	Description Cat 5e connector - 90 degree	Fixing e Plugs Rear panel mounted	Ø 0.8 PCB Details From Front of PCB



Panel Mounting	g 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 	Ø 45.00 0 0 0 0 0 0 0 0 0 0 0 0
Part no.	Description	Fixing	
PX0839/IDC	Cat 5e coupler - IDC	Rear panel mounted	
Shield Back Sl	hell Accessory	 Maintains RJ45 coupler screening directly to panel Shielding can is fixed to rear of panel mount connector For use on PX0833, PX0893 & PX0855 	53.10 50 16.30
Part no.	Description		
PX0888	Shielding backshell accesso	ry	
Accessories	Sealing Caps	 Sealing caps to maintain IP68 rating when connectors are not in use Replacement shielded RJ45s Hand crimp tool for shielded RJ45 Patch cord cable available in 50m reels 	PX0835
Part no.	Description		
PX0835 PX0733 PX0711 14151 14199 14150 15241	Sealing Cap for use on all ethe Sealing Cap for use on all from Sealing Cap for use on all rear Cat 5e & Cat 6a Hand crimp to Cat 5e PUR Jacket Cable - 50 Cat 5e Replacement shielded Cat 6a PVC Jacket Cable - 50	t panel mounting connectors panel mounting connectors poling + die set m reel RJ45	



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

Materials - Re-wireable and Panel Connectors

Connector body & locking ring	Polyester
Panel connector	Nylon 6
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 Insulation Pair Core Screen Braid Jacket Op Temperature Diameter Flame Test Electrical @ 20°C	24AWG (7/0.2mm) bare copper HD-PE 2 of the above cores twisted 4 of the above cores 1 layer mylar and aluminium tape, 0.12mm tinned copper braid PUR (Black) -25°C to +85°C 6.1mm nominal	26AWG (7/0.16mm) bare copper PE (Skin - Foam - Skin) 2 of the above cores twisted 4 of the above cores Aluminium & Polyester Tinned Copper Braid PVC (Black) -25°C to +75°C 6.0 mm nominal FT4	26AWG (7/0.16mm) bare copper N/A 2 of the above cores twisted 4 of the above cores Aluminium & Polyester Tinned Copper Braid PVC (Black) -20°C to +60°C 6.0 mm nominal
Characteristic: Impedance Capacitance Conductor Loop Resistance Skew PoE Standard:	100 Ω ±15 Ω @ 100MHz 330pF/km 29/Ω100m maximum 45 nsec/100m @ 100MHz IEEE 802.3af (2 pair)	26Ω /km IEEE 802.3bt, Type 4 (4 pair) 4PoE++	IEEE 802.3bt, Type 4 (4 pair) 4PoE++
Power rating Current rating Voltage rating (DC) Mechanical Characteristics Minimum Tensile Strength of Jacket (kgf/mm ²) Maximum Length for Strip of Jacket (mm)	12.95W 350mA 44-57V	71W 960mA 41.1V-57V 1.05 40	71W 1500mA 72V



Cable construction - CAT 5e

24 AWG 7/0.20mm conductor Braiding 7/0.12mm Jacket 6.10mm dia



Insulation - HD - PE Aluminium/ PEPT tape Drain Wire

Mylar Tape

Polyurethane (PUR) Jacket

Cable construction - Cat 6a & Cat 8



Polyvinyl Chloride (PVC) Jacket

RJ45 Plug Cat 5e & PoE Materials

Moulding Shielding Flammability Contact material Contact plating Operating Temperature Mating cycles RoHS

Electrical No. Conductors Conductor types

Current rating Voltage rating Contact resistance

Polycarbonate

UL94V-0 Phosphor Bronze 50-micron gold -40°C to +70°C 1,000 cycles Compliant

8 24-28AWG, solid or multistranded

350mA 37V AC, 57V DC 10mΩ

Zinc

Polycarbonate

Cat 6a

UL94V-0 Phosphor Bronze 50-micron gold -40°C to +70°C 1,000 cycles Compliant

8 24-28AWG, solid or multistranded

1500mA 30V AC, 42V DC 10mΩ Polycarbonate Zinc Alloy UL94V-2 Phosphor Bronze 50-micron gold -20°C to +60°C 1,200 cycles Compliant

Cat 8

8 26AWG, multistranded (pre-terminated)

1500mA 72V DC 20mΩ max.

Cat 8 (Keystone)

Materials

Coupler Shell Coupler Plating Moulding IDC Housing IDC Cap IDC Terminal Ground Contact Tie wrap Flammability Contact material Contact plating Operating Temperature Mating cycles - Jack Mating cycles - IDC RoHS

Electrical

No. Conductors Current rating Voltage rating Dielectric Withstand Contact resistance Nickel PC PC PC + glass fibre Tin plated Phosphor Bronze Stainless steel, Copper foil Nylon 6/6 UL94V-2 Phosphor Bronze 50-micron gold -10°C to +60°C >750 cycles >20 terminations Compliant

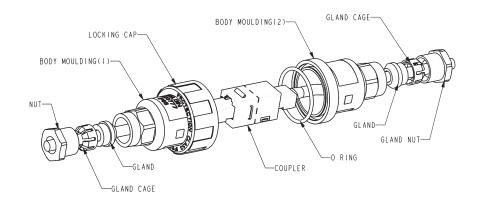
8 1.5A 100V DC 1000V DC/AC @ 60hz for 1 minute 10mΩ max.



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 Mating cycles	-40°C to +70°C	
RoHS	1,000 cycles Compliant	
	Compliant	
	8	
No. Conductors	1.5A	
Current rating		
Valtaga rating	JUV AL, 42V DL,	
Voltage rating	30V AC, 42V DC 10mO max.	
oltage rating Contact resistance		







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

BUCCANEER FOR DATA Standard Buccaneer - HDMI





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

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



Sealed HDMI Cabl	les - 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
Part no.	Length	Description
PX0867/2M00 PX0867/3M00 PX0867/5M00	2m 3m 5m	IP68 HDMI male to standard HDMI male IP68 HDMI male to standard HDMI male IP68 HDMI male to standard HDMI male
Sealed HDMI Cab	les - Double Ender	d 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 PX0868/3M00 PX0868/5M00	2m 3m 5m	IP68 HDMI male to IP68 HDMI male IP68 HDMI male to IP68 HDMI male IP68 HDMI male to IP68 HDMI male
Front Panel Mount	ting Connector	 PX0863 - HDMI IP68 connector Female HDMI connector at rear of panel Mates with PX0867 and PX0868 cable connectors
Part no.		ription
PX0863	IP68 H	IDMI female, front panel mounted. Sealed HDMI at front of panel, standard HDMI type at rear



Front Panel Mount		 PX0863/1M00 – HDMI IP68 connector with 1m HDMI male lead at rear of panel Mates with PX0867 and PX0868 cable connectors
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
Rear Panel Mounti	ing Connector	 PX0869 - HDMI IP68 connector Female HDMI connector at rear of panel Mates with PX0867 and PX0868 cable connectors
Part no.	Descr	
PX0869		IDMI female, rear panel mounted, sealed HDMI at front of panel, standard HDMI type at rear
Rear Panel Mounti		 PX0869/1M00 - HDMI IP68 connector with 1m HDMI male lead at rear of panel Mates with PX0867 and PX0868 cable connectors

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

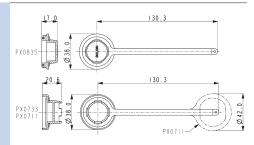
BUCCANEER FOR DATA Standard Buccaneer - HDMI



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)

BUCCANEER FOR DATA Standard Buccaneer - HDMI

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 Current rating Voltage rating Contact resistance Withstanding Voltage	19 0.5A 30V AC (RMS) 40m Ω max. 500V AC RMS
Performance	Ultra High Speed HDMI™ Cable with Ethernet
Materials - Overmoulded	

PVC (black)

Glass Loaded Polyester

UL94V-0

Materials - Re-wireable and Pan	el Connectors
Shell material	Steel
Shell plating	Nickel
Contact material	Brass
Contact plating	Tin & Gold
Connector body & locking ring	Glass Loade
Panel connector	Acetal
Flammability rating	UL94 HB
'O' rings	Silicone
Panel Gasket - round	Silicone
Panel Gasket - square	Neoprene
Mating cycles	1,000
BoHS	Compliant

Materials - cable

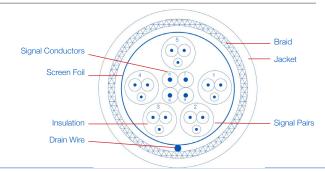
Overmould material

Flammability rating

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
	Conductore Conducto

		Conductors	Conductors
Length:	Dia	Signal	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









- IP68 when mated, tested in accordance with EN60529:1992+A2:2013
- IP69K when mated, tested in accordance with DIN 40050/Part 9 IP6k9k
- O EN60068-2-52 Test Kb Salt Mist (Cyclic) Marine Severity Level 1
- **O** USB version 2.0 and 3.0 performance
- O Shielded system
- O Single and double ended cables
- O Screw coupling
- O 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
- O Alignment indicator reduces risk of damage during mating
- O High noise immunity and EMI protection
- O Suitable for PC and peripheral configuration
- O Secure, proven locking system
- O Direct mounting or via adaptor leads
- O Plug and play capability



Sealed USB Cables - Single Ended LENGTH ○ Single ended sealed cable Ø 38.1 60.6 assembly ○ IP68 'A' type USB 2.0 connector to standard 'A' or 'B' type USB 2.0 connector 8 8 8 -CII IP68 'B' type USB 2.0 connector to standard 'A' type USB 2.0 connector O IP68 'A' type USB 3.0 connector PX0840/A/xMxx PX0840/A to standard USB 3.0 'A' type connector Mates with all panel mount connectors LENGTH O USB 2.0 variants available in 2m, Ø<u>38.</u>∣ 60.6 3m & 5m lengths O USB 3.0 variants available in 1m, 2m & 3m lengths 8 32 11 11 PX0840/B/xMxx PX0840/B LENGTH Ø 38. I 60.6 PX0840/AA 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

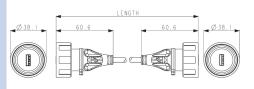


Sealed USB Cables Double Ended

PX0841/AA

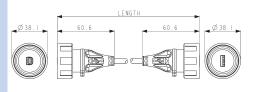


- Double ended sealed cable assembly
- IP68 'A' type USB 2.0 connector to IP68 'A' or 'B' type USB 2.0 connector
- IP68 'A' type USB 3.0 connector to IP68 'A' type USB 3.0 connector
- Mates with all panel mount connectors
- USB 2.0 variants available in 2m, 3m & 5m lengths
- USB 3.0 variants available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



PX0841/AA/xMxx

PX0841/AB/xMxx



PX0841/AB

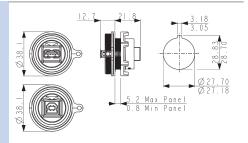
Part no.	Length	Description
PX0841/AB/2M00	2m	IP68 A type USB 2.0 to IP68 B type USB 2.0
PX0841/AB/3M00	3m	IP68 A type USB 2.0 to IP68 B type USB 2.0
PX0841/AB/5M00	5m	IP68 A type USB 2.0 to IP68 B type USB 2.0
PX0841/AA/2M00	2m	IP68 A type USB 2.0 to IP68 A type USB 2.0
PX0841/AA/3M00	3m	IP68 A type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

Front Panel Mounting Connector



PX0842/A

- PX0842/A USB 2.0 'A' type IP68 to USB 2.0 'B' type connector
- PX0842/AA USB 2.0 'A' type IP68 to USB 2.0 'A' type
- connector 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.

PX0842/A PX0842/B PX0842/AA PX0842/A3

Description

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



Front Panel Mounting Connector O PX0843/A – USB 2.0 'A' type IP68 connector with 5-way crimp 16.4 connector ○ PX0843/B – USB 2.0 'B' type IP68 connector with 5-way crimp connector 132 0 PX0843/A3 – USB 3.0 'A' type Ø21.10 5.2 Max Pane 0.8 Min Pane IP68 connector with 10-way PX0843/B Fixing Details crimp connector O Mates with PX0840 and PX0841 cable connectors PX0843/A

Part no. PX0843/A

PX0843/B PX0843/A3

PX0460/A PX0460/B

PX0460/A3

Description

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

Front Panel Mounting Connector

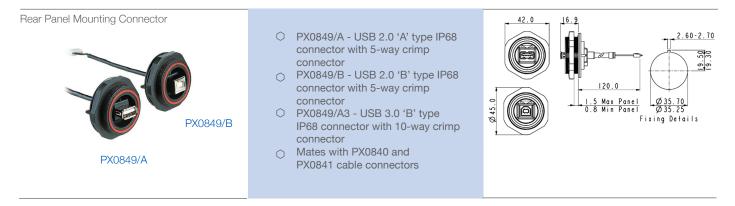
Соста С	 IP68 Sealed through panel PX0844/A – USB 2.0 'A' type IP68 connector PX0844/B – USB 2.0 'B' type IP68 connector PX0844/A3 – USB 3.0 'A' type IP68 connector Standard USB interface plug options to rear of panel 0.5m standard cable length, other lengths available Mates with PX0840 and PX0841 cable connectors 	2.7 500.0 3.18 3.05 0.8 Min Panel 0.8 Min Panel 0.27.18
PX0844/A		

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



Rear Panel Mounting Connector PX0848/A	 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 	42.00 6.9 5.1 6.9 5.1 6.9 5.1 6.9 5.1 6.9 5.1 6.9 5.1 6.0-2.70

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

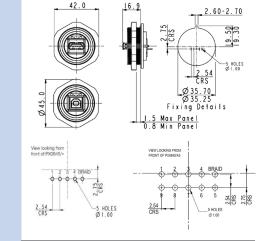


Part no.DescriptionPX0849/AIP68 A type USB 2.0, rear panel mounted. Sealed A type at front of panel, 5-way header at rearPX0849/BIP68 B type USB 2.0, rear panel mounted. Sealed B type at front of panel, 5-way header at rearPX0849/A3IP68 A type USB 3.0, rear panel mounted. Sealed A type at front of panel, 10-way header at rear

PCB Panel Mounting Connector- PCB Direct Mount

PX0845/A

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



Part no.

Description

PX0845/B

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

BUCCANEER FOR DATA Standard Buccaneer - USB

Accessories



PCB Adaptor Leads



Description

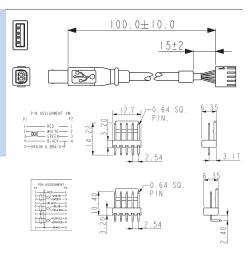
USB 2.0 'A' type to 5-way crimp connector USB 2.0 'B' type to 5-way crimp connector

USB 3.0 'A' type to 10-way crimp connector

5-way PCB header straight 5-way PCB header right angle

10-way PCB header straight 10-way PCB header right angle

- 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



100288

Accessories

Part no.

14193

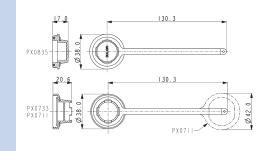
14194

14192 100287

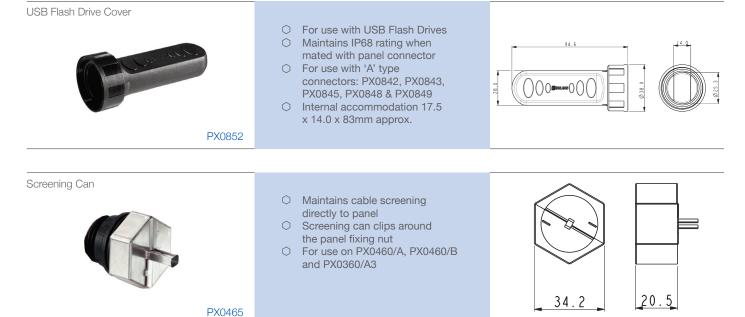
100286 14191



- 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 PX0733	Sealing Cap for cable connectors (PX0840, PX0841) Sealing Cap for front panel mounting connector (PX0842, PX0843 & PX0844)
PX0711	Sealing Cap for rear panel mounting connector (PX0848, PX0849, PX0845)



22 Buccaneer for Data

BUCCANEER FOR DATA Standard Buccaneer - USB

USB 2.0 Specifications

Cables & connectors

Mechanical Sealing

Operating temperature

Salt Mist

Electrical

No. of Contacts Current rating Voltage rating Contact resistance Performance

Materials - Overmoulded

Overmould material Flammability rating

Materials - Re-wireable and Panel Connectors

Shell material Shell plating Contact material Contact plating Connector body & locking ring Panel connector Flammability rating 'O' rings Panel Gasket - round Panel Gasket - square Mating cycles RoHS

Materials - cable Cable Jacket

Screen

Flammability RoHS

PVC (black) Tinned copper braid UL94V-0 Compliant

		Conductors	Conductors
Length:	Dia	Signal	Power
2m	4.8mm	2 x 28AWG	2 x 24AWG
3m	5.0mm	2 x 28AWG	2 x 22AWG
5m	5.2mm	2 x 25AWG	2 x 20AWG

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

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

0°C to +70°C

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

4 1A 30V AC (RMS) 30m Ω max. USB version 2.0

PVC (black)

Copper Alloy

30 micro inch Gold

Glass Loaded Polyester

UL94V-0

Steel Nickel

Acetal

UL94 HB

Silicone

Silicone

1,000

Neoprene

Compliant

PCB adaptor leads

Electrical

No. of conductors Current rating Voltage rating Contact resistance PCB pitch

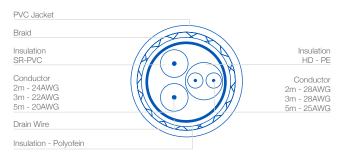
Materials

Moulding Flammability Contact material Contact plating Wire insulation Conductors Operating temperature Mating cycles RoHS

4 1A 30V AC (RMS) $<10m \Omega$ max. 2.54mm

Polycarbonate UL94V-0 Copper Alloy 30 micro inch Gold PVC (black) 4 x 28AWG 0°C to +70°C 1,000 Compliant

USB 2.0 Cable construction - PX0840, PX0841



USB 2.0 Contact Diagram - PX0843 & PX0849

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

Buccaneer for Data 23



BUCCANEER FOR DATA Standard Buccaneer - USB

USB 3.0 Specifications

Cables & connectors

Operating temperature

Mechanical Sealing

Salt Mist

Electrical

No. of Contacts

Current rating

Voltage rating

Performance

Contact resistance

Overmould material

0°C to +70°C

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

IP68, EN60529:1992+A2:2013

IP69K, Tested in accordance with DIN

(10m depth for 2 weeks)

40050/Part 9 IP6k9k

9 1A 30V AC (RMS) $30m \Omega max.$ USB version 3.0

PVC (black)

Copper Alloy

Steel

Nickel

Gold

Acetal

UL94 HB

Silicone

Silicone

1.000

Neoprene

Compliant

PCB adaptor leads

Electrical

No. of conductors Current rating Voltage rating Contact resistance PCB pitch

Materials

Moulding Flammability Contact material Contact plating Wire insulation Flammability Conductors Operating temperature Mating cycles

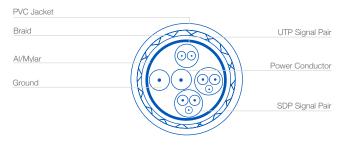
30V AC (RMS) $30m \Omega max.$ 2.54mm Polycarbonate

9

1A

UL94V-0 Copper Alloy Gold PVC (black) UL94-V0 9 x 28AWG 0°C to +70°C 1,000 Compliant

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



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

P1	PAIR	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

Flammability rating UL94V-0

Materials - Re-wireable and Panel Connectors Shell material Shell plating Contact material Contact plating Connector body & locking ring Glass Loaded Polyester Panel connector Flammability rating 'O' rings Panel Gasket - round Panel Gasket - square Mating cycles RoHS

Materials - Overmoulded

Materials - cable Cable Jacket

Screen Flammability

RoHS

Length: 1m 2m 3m

PVC (black) Tinned copper braid UL94V-0 Compliant

		Conductors	Conductors
Γ	Dia	Signal	Power
5	5.5mm	7 x 28AWG	2 x 24AWG
5	5.5mm	7 x 28AWG	2 x 24AWG
Ę	5.5mm	7 x 28AWG	2 x 24AWG



BUCCANEER FOR DATA 400 Series - Mini USB Buccaneer IP68 Sealed





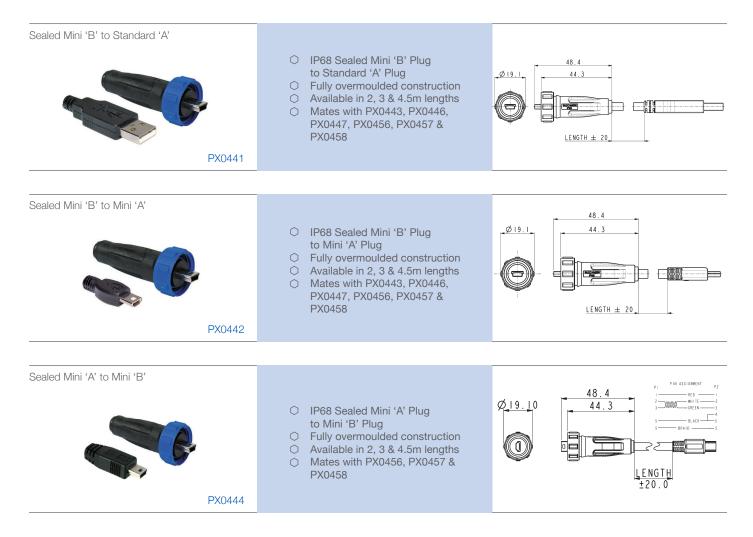
- IP68, Tested in accordance with EN60529:1992+A2:2013
- O IP69K, Tested in accordance with DIN 40050/Part 9 IP6k9k
- O USB version 2.0 performance
- Plug and play capability
- Shielded system
- Overmoulded cables
- Screw coupling
- PCB versions

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

BUCCANEER FOR DATA 400 Series - Mini USB Buccaneer

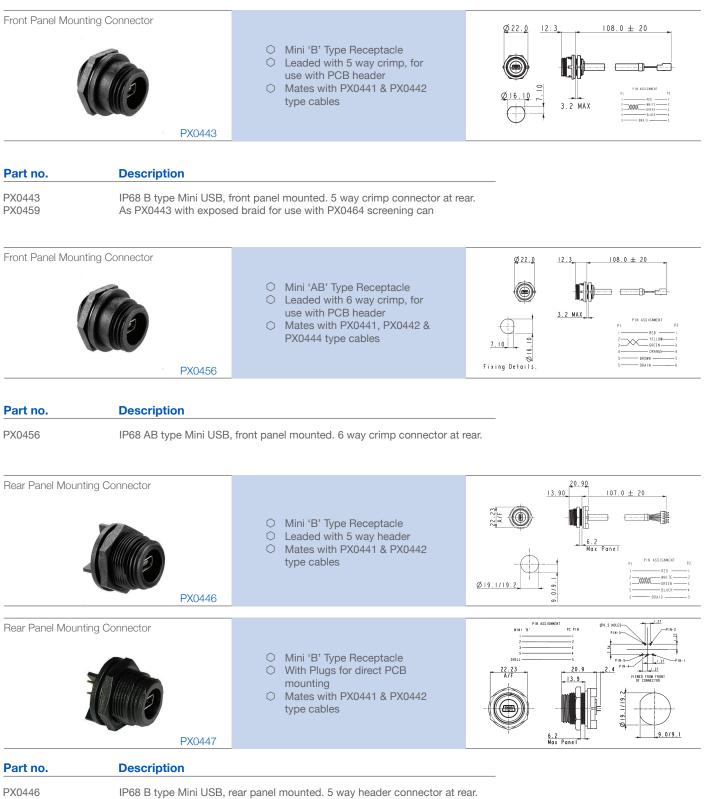
Sealed Mini USB Cables - Single Ended





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

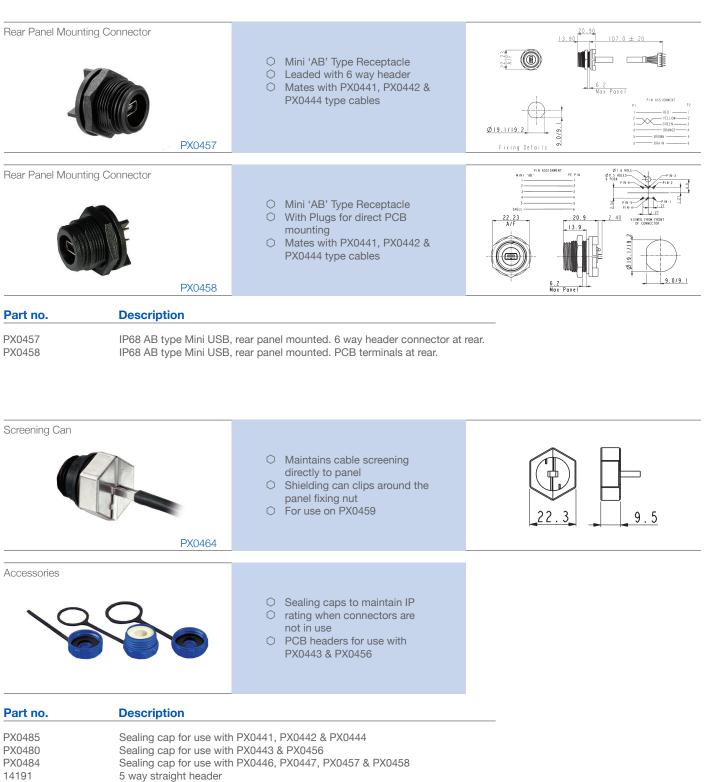




IP68 B type Mini USB, rear panel mounted. 5 way header connector at rea IP68 B type Mini USB, rear panel mounted. PCB terminals at rear.

PX0447





- 5 way right angle header
- 6 way straight header
- 14564 6 way right angle header

14192

14563

BUCCANEER FOR DATA 400 Series - Mini USB Buccaneer

Cables & connectors

Mechanical

Sealing

Operating temperature Salt Mist

Electrical

No. of Contacts Current rating Voltage rating Contact resistance Performance

4 and 5 1A 30V AC, 42V DC $50m \Omega max.$

Materials - Overmoulded

Overmould material Flammability rating

Materials - Re-wireable and Panel Connectors

Shell material Shell plating Contact material Contact plating Connector body & locking ring Polyester Panel connector Flammability rating 'O' rings Mating cycles RoHS

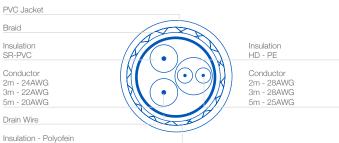
Materials - cable Cable Jacket

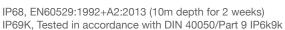
Screen Flammability RoHS

PVC (black)
Tinned copper braid
UL94V-0
Compliant

		Conductors	Conductors
Length:	Dia	Signal	Power
2m	4.8mm	2 x 28AWG	2 x 24AWG
3m	5.0mm	2 x 28AWG	2 x 22AWG
5m	5.2mm	2 x 25AWG	2 x 20AWG

Cable construction - PX0441, PX0442, PX0444





-35C to +70C EN60068-2-52 Test Kb Salt Mist (Cyclic)

PVC (black)

Copper Alloy

50 micro inch Gold

UL94V-0

Steel

Nickel

Nylon 6 UL94V-0

Nitrile

5,000 Compliant

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

Marine Severity Level 1

USB version 2.0

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BUCCANEER FOR DATA 400 Series - SMB Buccaneer





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

- O 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
- O Cable type (pre-wired connectors), RG-174



Re- Wireable Flex Co	onnector			
			 Mates with Panel connector (PX0414) Re-wireable connector For RG-174 cable Supplied with SMB plug 	19.1 46.0 max 42.3 max 42.3 max
		PX0415/1		
Part no.	Descrip			
PX0415/1	Re-wirea	ble connector	with SMB Plug - for RG-174 cable	
Pre- Wireable Flex C	onnector			
			 Mates with Panel connector (PX0414) Pre-wired Overmoulded construction Supplied with SMB plug terminated with RG-174 cable 1m, 3m & 5m cable lengths 	
	P	X0416/xMxx		
Part no.	Descrip	otion		
PX0416/1M00 PX0416/3M00 PX0416/5M00	Overmou	ulded connecto	r with SMB plug - cable length 1m r with SMB plug - cable length 3m r with SMB plug - cable length 5m	
Front Panel Mount C			 Mates with Flex connectors (PX0415, PX0416) Single hole fixing Supplied with SMB jack terminated with RG-174 cable U.FL cable version also available 	
		2X0414/xMxx		
Px0414/0M50 PX0414/1M00 PX0414/1M50	Panel co	nnector with SI nnector with SI	MB jack - cable length 0.5m MB jack - cable length 1m MB jack - cable length 1.5m	
Sealing Caps			 Sealing caps maintain IP rating when connectors are not in use 	
			Part no. Desc	ription
PX0480	PX0481	PX0485	PX0481 Sealin PX0485 Sealin	g cap for PX0414 chassis connector g cap for PX0415 re-wireable flex connectors g cap for PX0416 overmoulded flex connector crimp tool for SMB

BUCCANEER FOR DATA 400 Series - SMB Buccaneer

Specifications

Operating Temperature:

octrical Ele _

Electrical	
Impedance: Frequency Range: Contact Resistance:	50Ω 0-4GHz
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 Force:	36N
Withdrawal Force:	36N
Cable Retention Force:	18N
Mating Cycles:	500

-20°C to +80°C

Material:

PX0415/1 and PX0414 Body Mouldings: Flammability Rating: UV Resistance: PX0416 Body Mouldings: Flammability Rating: O Rings: Panel Sealing O Ring: SMB Connector Body: Centre Contact: Plug: Jack: Insulator: Crimp Ferrules: RoHS

Polyamide UL94V-0 To EN 50021:1999

PVC (black) UL94V-0 Nitrile Nitrile

Brass to QQ-B-626, Gold Plated

Brass to QQ-B-626, Gold Plated Beryllium Copper to QQ-B-530, Gold Plated Teflon Annealed Copper Compliant

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BUCCANEER FOR DATA 400 Series - Wireless Buccaneer





SMB Antenna

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

Bluetooth Cable Replacement

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

BUCCANEER FOR DATA 400 Series - Wireless Buccaneer

Antenna



SMB Antenna <u>Ø19.</u> 91.5 0 \mathbb{D} Dust & waterproof to IP68 EN60529 when mated \bigcirc Secure screw thread locking \bigcirc Built-in sealed antenna PX0407 Mates with SMB Buccaneer \bigcirc 86.5 PX0414 ○ Frequency bands: 2.4 to 2.5GHz 35.9 440 to 470MHz 850-900/1800/1900MHz Ø 19.1 0 PX0407/90

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

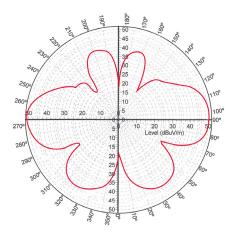
Specification

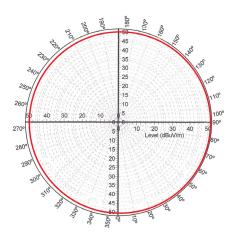
Electrical Frequency PX0407 2.4 to 2.5GHz PX0408 440 to 470MHz PX0409 850-900/1800/1900MHz Configuration PX0407 1/4 Wavelength PX0408 1/2 Wavelength PX0409 1/2 Wavelength Radiation Omnidirectional Vertical Polarization Impedance 50Ω nominal VSWR <2 Mechanical Sealing IP68, EN60529:1992+A2:2013, when mated (10m depth for 2 weeks) IP69K, Tested in accordance with DIN 40050/Part 9 IP6k9k **Operating Temperature:** -20°C to +65°C EN60068-2-52 Test Kb Salt Mist (Cyclic) Salt Mist Marine Severity Level 1 Material PVC **Body Mouldings** UL94V-0 Flammability Rating EN50021:1999 UV Resistance RoHS Compliant

Polar/Antenna Plots

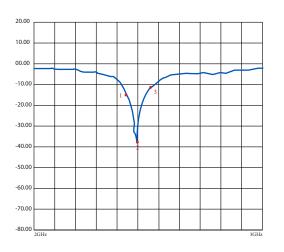
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PX0407 Polar plots - 2.4 to 2.5GHz Frequency Band

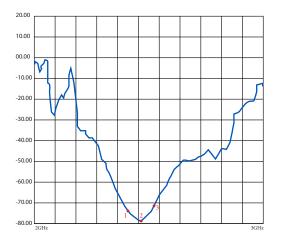




PX0407 Radiation Pattern plots



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

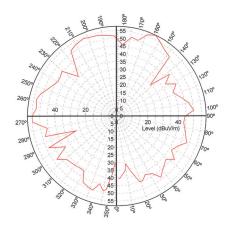


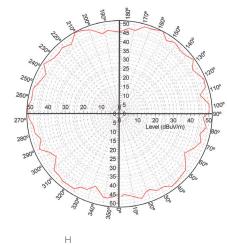
1.5659 dB 2.40000 GHz
 2.16514 dB 2.45000 GHz
 3.16032 dB 2500.000 000 MHz

Polar/Antenna Plots



PX0408 Polar plots - 440 to 470MHz Frequency Band



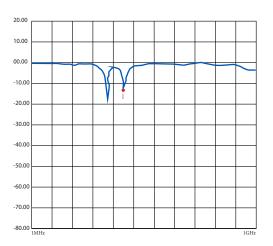


Pattern Field

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Pattern Field

PX0408 Radiation Pattern plots



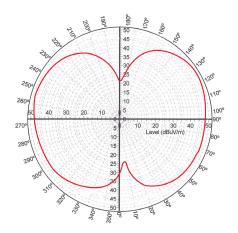
1 450.00000 MHz -13.300 dB

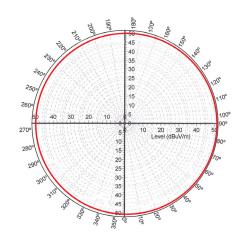
11.00 9.000 8.000 7.000 6.000 5.000 4.000 3.000 2.000 1.001

1 450.00000 MHz -13.300 dB

Polar/Antenna Plots

PX0409 / 850-900MHz Polar plots





bulgin

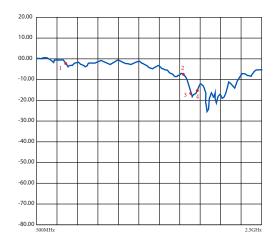
Pattern Field

Е

Pattern Field

Н

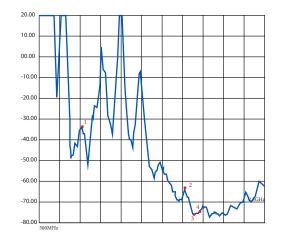
PX0409 / 850-900MHz Radiation Pattern plots



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

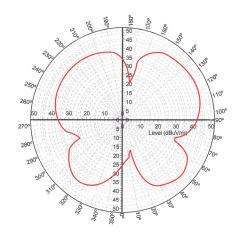


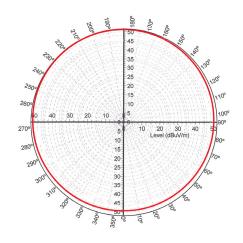
1 900.00000 MHz 5.1694 dB 2 1.8000000 GHz 2.2481 dB 3 1.8800000 GHz 1.2377 dB

4 1.9000000 GHz 1.2052 dB

Polar/Antenna Plots

PX0409 / 1800MHz Polar plots





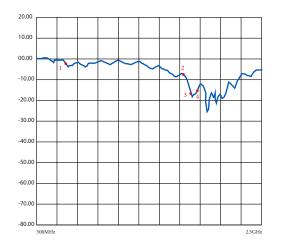
Pattern Field

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Pattern Field

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PX0409 / 1800MHz Radiation Pattern plots

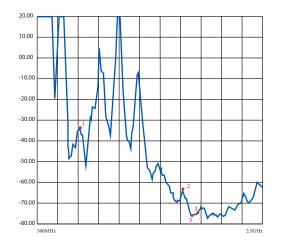


1 900.00000 MHz -3.4307 dB

2 1.8000000 GHz -9.0130 dB

3 1.8800000 GHz -19.516 dB

4 1.9000000 GHz -20.297 dB

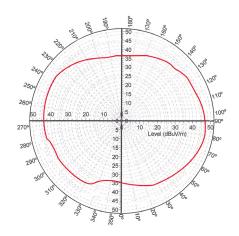


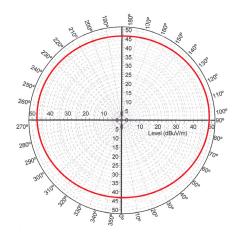
1 900.0000 MHz 5.1694 dB 2 1.800000 GHz 2.2481 dB 3 1.880000 GHz 1.2377 dB 4 1.900000 GHz 1.2052 dB



Polar/Antenna Plots

PX0409 / 1900MHz Polar plots





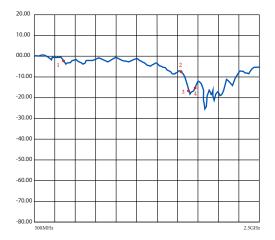
bulgin

Pattern Field

E

Pattern Field

Н

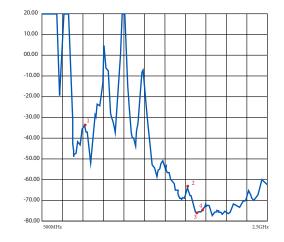


1 900.00000 MHz -3.4307 dB

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



Our 600 Series - Ethernet Buccaneer Connectors provide a reliable ethernet connection in environments where regular Ethernet connectors would be prone to damage or malfunction. They are designed to withstand the harshest of environments, such as outdoor, industrial, or military applications. These connectors are built with materials & features that protect against dust & water ingress, vibrations & extreme temperatures. The 600 series connectors come with EMI shielded & unshielded versions and are available in jam nut, flange mount, inline plug, and plug options.

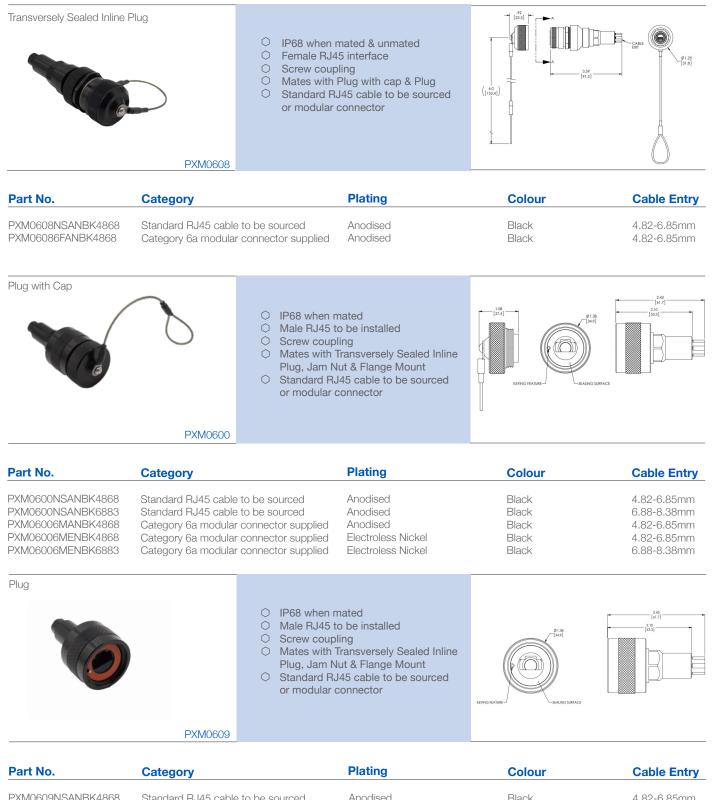


Key Features:

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

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





PXM0609NSANBK4868 PXM0609NSANBK6883 Standard RJ45 cable to be sourced Standard RJ45 cable to be sourced Anodised Anodised

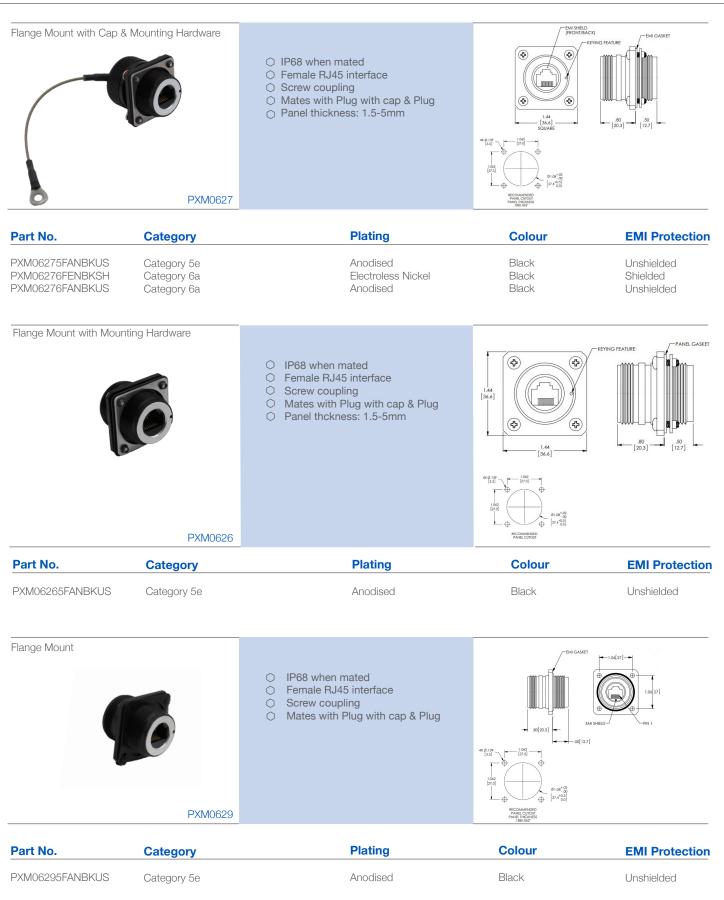
Black Black

4.82-6.85mm 6.88-8.38mm



Jam Nut with Cap	PXM0610	 IP68 when mated Female RJ45 interface Screw coupling Mates with Plug with cap & Plug Panel thickness: 1.5-5mm 	(1) DB (2) ABC (2) ABC	
Part No.	Category	Plating	Colour	EMI Protection
PXM06105FANBKUS PXM06106FENBKSH	Category 5e Category 6a	Anodised Electroless Nickel	Black Black	Unshielded Shielded
Jam Nut) PXM0619	 IP68 when mated Female RJ45 interface Screw coupling Mates with Plug with cap & Plug Panel thickness: 1.5-5mm 	1.3 (3.4) (3.4	
Part No.	Category	Plating	Colour	EMI Protection
PXM06195FANBKUS	Category 5e	Anodised	Black	Unshielded
Transversely Sealed Fland	ge Mount	 IP68 when mated & unmated Female RJ45 interface Screw coupling Mates with Plug with cap & Plug 		
Dout No.	Cotoner	Disting	Colour	
Part No. PXM06285FANBKUS	Category Category 5e	Plating	Colour Black	EMI Protection Unshielded
	-			





Product Specification:

Electrical

Shock Resistance: Humidity: Insertion Loss: Hi-pot high-voltage Test: Shell-to-shell conductivity: Electromagnetic Shielding Effectiveness: 100g 6ms 98% 1000 BASE-T 600VAC-60Hz, 900uA 1A @ 1.5VDC, 100hrs

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

Material:

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

Mechanical:

Cycles: Sealing: Dust Test: Termination: Salt Spray: Mechanical Shock: Operating Temperature Range: Panel Mount Thickness: Panel Mount Nut Torque: >500 IP68, 1m depth for 48hrs 20mBAR air pressure, 8hrs Crimp terminals 500hr 100G (6ms) -40° C to +100° C 1.5-5mm 1.6-1.7Nm







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

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

Sealed Micro USB Cables - Single Ended



Sealed Micro 'B' to Standard 'A'				
PXF	Star O Ava	lled Micro 'B' plug to ndard 'A' plug ilable in 2, 3 & 5m lengths g variant mates with PXP4043		46.3 (6000) (9000) (1) (1) (1) (1) (1) (1) (1) (1
Part No. Length	Descripti	on		
PXP4040/B/2M002.0mPXP4040/B/3M003.0mPXP4040/B/5M005.0m	IP-sealed n	nicro 'B' to Standard 'A' type USE nicro 'B' to Standard 'A' type USE nicro 'B' to Standard 'A' type USE	3	
Rear Panel Mounting Connector	○ Lea○ Soc	ro 'B' type ded with 5 way header sket variant mates with 24040/B type cables	24 1746 1664 174 174 174 174 174 174 174 174 174 174 174 174 174	
Part no. Description PXP4043 IP-sealed B ty		mounted. 5 way header connecto	or at rear	
		mounted. 5 way neader connect		
Accessories	ratir	ling caps to maintain IP ng when connectors are in use	Part no. PXP4081 PXP4082	Description Sealing cap for use with PXP4010 & PXP4040/B Sealing cap for use with PXP4011
			PXP4083	Sealing cap for use with PXP4013 & PXP4043
Gland Packs				
	Part no.	Description		
🚯 📄 🥮 🖉	Part no. PXP4088/0305	Description Pack of 4 pairs cable glands and 3.0 to 5.0mm diameter.	collets to suit cables fror	
		Pack of 4 pairs cable glands and		n
	PXP4088/0305	Pack of 4 pairs cable glands and 3.0 to 5.0mm diameter. Pack of 4 pairs cable glands and		n
🚯 📄 🥮 🖉	PXP4088/0305	Pack of 4 pairs cable glands and 3.0 to 5.0mm diameter. Pack of 4 pairs cable glands and		n

Cables & connectors

Mechanical Sealing

Panel Mount Nut Operating temperature Salt Mist

Electrical

No. of Contacts Current rating Voltage rating Contact resistance Performance

IP69K, DIN40050-9 IP68, EN60529:1992+A2:2013 (10m depth for 2 weeks) IP66, EN60529:1992+A2:2013 1.0 - 1.1NM (91lb.in) -40°C to +70°C EN60068-2-52 Test Kb Salt Mist (Cyclic) Marine Severity Level 1

4 and 5 1A 30V AC, 42V DC $50m \Omega max.$ USB version 2.0

Steel

Nickel

PC/PBT

UL94V-0

Silicone

1,000 Compliant

Copper Alloy

50 micro inch Gold

Materials - Re-wireable and Panel Connectors

Shell material Shell plating Contact material Contact plating Connector body & locking ring PC/PBT Panel connector Flammability rating 'O' rings Mating cycles RoHS

Materials - cable

Cable Jacket

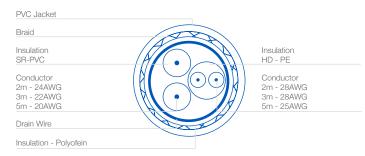
Flammability RoHS

Screen

PVC (black) Tinned copper braid UL94V-0 Compliant

		Conductors	
Length:	Dia	Signal	Power
2m	4.8mm	2 x 28AWG	2 x 24AWG
3m	5.0mm	2 x 28AWG	2 x 22AWG
5m	5.2mm	2 x 25AWG	2 x 20AWG

Cable construction - PXP4040/B & PXP4043



BUCCANEER FOR DATA 4000 Series - C-Type USB Buccaneer Sealed C-Type USB Cables





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

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

Sealed C-Type USB Cables



Sealed	'C' type to Standard 'C' PXP4041/C/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 	
Part No.	Length	Description	
PXP4041/C/C/1M00 PXP4041/C/C/2M00 PXP4041/C/C/3M00 PXP4041/C/C/5M00	1.0m 2.0m 3.0m 5.0m	IP-sealed 'C' type to Standard 'C' type USE IP-sealed 'C' type to Standard 'C' type USE IP-sealed 'C' type to Standard 'C' type USE IP-sealed 'C' type to Standard 'C' type USE	3
Sealed	I '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		
Part No.	Length	Description	
2XP4040/C/A/1M00 2XP4040/C/A/2M00 2XP4040/C/A/3M00 2XP4040/C/A/5M00	1.0m 2.0m 3.0m 5.0m	IP-sealed 'C' type to Standard 'A' type USB IP-sealed 'C' type to Standard 'A' type USB IP-sealed 'C' type to Standard 'A' type USB 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 	
Part no.	Description		
2XP4043/C		rear panel mounted. 2x 12 way header connect	or at rear
Sealing Caps		 Sealing caps to maintain IP 	Part no.DescriptionPXP4081Sealing cap for use with PXP4040/C/A and PXP4041/C/
99	S	rating when connectors are not in use	PXP4083 Sealing cap for use with PXP4043/C
O-ring & washer pack			_
		Part no. Description	
	\bigcirc \bigcirc \bigcirc \bigcirc	PXP4089/YL Yellow coloured O-ring and was PXP4089/BL Blue coloured O-ring and washe PXP4089/RD Red coloured O-ring and washe PXP4089/WH White coloured O-ring and wash PXP4089/GN Green coloured O-ring and wash	er pack er pack her pack

PXP4089/YL PXP4089/BL	Yellow coloured O-ring and washer pack Blue coloured O-ring and washer pack
PXP4089/RD	Red coloured O-ring and washer pack
PXP4089/WH	White coloured O-ring and washer pack
PXP4089/GN	Green coloured O-ring and washer pack

Sealed C-Type USB Cables

Cables & connectors

Mechanical Sealing

Panel Mount Nut Operating temperature Salt Mist

Electrical

No. of Contacts Current rating Voltage rating Contact resistance USB3.2 Gen 1: USB3.2 Gen 2: USB3.2 Gen 1x2: USB3.2 Gen 2x2: IP69K, DIN40050-9 IP68, EN60529:1992+A2:2013 (10m depth for 2 weeks) IP66, EN60529:1992+A2:2013 1.0 - 1.1Nm (91lb.in) -40°C to +80°C EN60068-2-52 Test Kb Salt Mist (Cyclic) Marine Severity Level 1

2x 12 way 5A ≤ 30V AC 40m Ω max. 5Gbps (2m maximum length) 10Gbps (1m maximum length) 10Gbps (2m maximum length) 20Gbps (1m maximum length)

Materials - Re-wireable and Panel Connectors

Shell material
Shell plating
Contact material
Contact plating
Connector body & locking ring
Panel connector
Flammability rating
'O' rings
Mating cycles
RoHS

Materials - cable

Cable Jacket Screen Flammability RoHS Nickel Copper Alloy 30 micro inch Gold 9 PC/PBT PC/PBT UL94V-0 Silicone 1,000 Compliant

Stainless Steel

Tinned copper braid UL94V-0 Compliant

PVC (black)

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





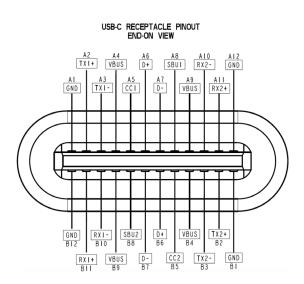


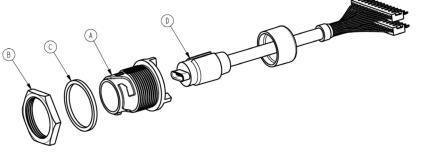
PXP4043/C

	Wire Colour	Label	Туре	Cable Number	PCB Header Plugs P2	PCB Header Plugs P3
A1	-	Gnd	Braid	-	1	-
A2	Orange	Txl+	, Shielded Twisted	3	2	-
A3	Brown	Txl-	⁽ Shielded Twisted ⁾	3	3	-
A4	Red	Vbus	Power	11	4	-
A5	Blue	CC	Single	10	5	-
A6	White	D0+	, Shielded Twisted 、	5	6	-
A7	Green	D0-	(Shielded Twisted)	5	7	-
A 8	Orange	SbuA	Single	8	8	-
A9	Red	Vbus	Power	11	9	-
A10	Blue	Rx2+	/ Shielded Twisted	2	10	-
A11	Black	Rx2-	[\] Shielded Twisted [/]	2	11	-
A12	-	Gnd	Braid	-	12	-
B1	-	Gnd	Braid	-	-	12
B2	White	Tx2+	, Shielded Twisted	1	-	11
B 3	Red	Tx2-	⁽ Shielded Twisted [/]	1	-	10
B4	Red	Vbus	Power	11	-	9
B5	Yellow	Vconn	Single	9	-	8
B6	Purple	DI-	(Twisted Pair)	6	-	7
B7	Grey	DI+	[\] Twisted Pair [/]	6	-	6
B8	Brown	SbuB	Single	7	-	5
B9	Red	Vbus	Power	11	-	4
B10	Yellow	RXI-	, Shielded Twisted	4	-	3
B11	Green	RXI+	⁽ Shielded Twisted [/]	4	-	2
B12	-	Gnd	Braid	-	-	1

Receptacle Plug Colour Key:

A1, A12, B12, B1:	Cable Ground
A2, A3, B3, B2:	High Speed Path (TX for USB or for DP Alt mode)
A4, A9, B9, B4:	Cable Bus Power
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)

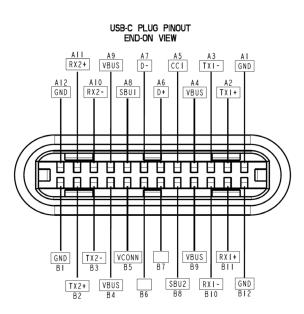






PXP4040/C/A

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



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 $\Omega \pm 5\%$ 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).



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

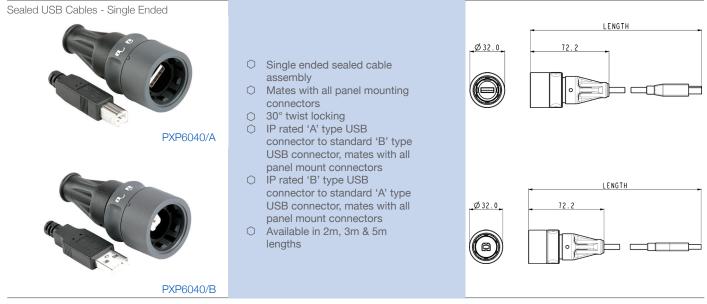
PUR jacket on cable
 Good chemical resistance, flame retardant

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

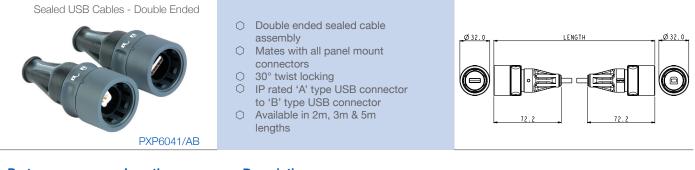


USB Thermo Plastic



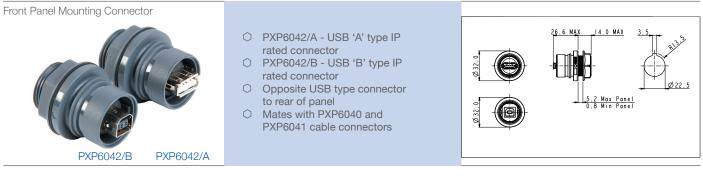


Part no	Length	Description
PXP6040/A/2M00	2m	IP rated A type USB to standard B type USB
PXP6040/A/3M00	3m	IP rated A type USB to standard B type USB
PXP6040/A/5M00	5m	IP rated A type USB to standard B type USB
PXP6040/B/2M00	2m	IP rated B type USB to standard A type USB
PXP6040/B/3M00	3m	IP rated B type USB to standard A type USB
PXP6040/B/5M00	5m	IP rated B type USB to standard A type USB

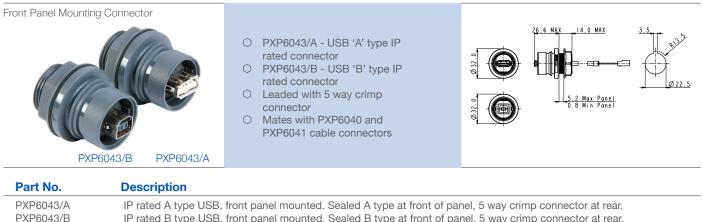


Part no	Length	Description
PXP6041/AB/2M00	2m	IP rated A type USB to IP rated B type USB
PXP6041/AB/3M00	3m	IP rated A type USB to IP rated B type USB
PXP6041/AB/5M00	5m	IP rated A type USB to IP rated B type USB





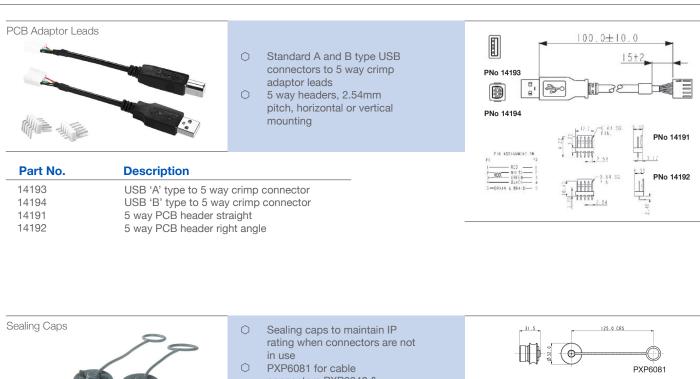
Part No.	Description
PXP6042/A	IP rated A type USB, front panel mounted. Sealed A type at front of panel, standard B type at rear.
PXP6042/B	IP rated B type USB, front panel mounted. Sealed B type at front of panel, standard A type at rear.

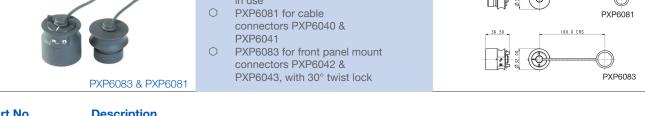


IP rated B type USB, front panel mounted. Sealed B type at front of panel, 5 way crimp connector at rear.

Accessories







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

USB Thermo Plastic - Part No System



РХР	/ <u>6xxx</u>	/ 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

USB Thermo Plastic - Specificatior

Cables & connectors

Mechanical

Sealing

Salt Mist

Operating temperature

Electrical

No. of Contacts Current rating Voltage rating Contact resistance Performance

Materials - Overmoulded

Overmould material Flammability rating

PVC (black) UL94V-0

PC/PBT

UL94V-0

Silicone

Silicone

Silicone

PVC (black)

UL94V-0

Dia

Compliant

Tinned copper braid

Materials - Re-wireable and Panel Connectors

Plastic Metal Flammability rating 'O' rings Panel Gasket - round Panel Gasket - flange

Materials - cable

Cable Jacket Screen Flammability RoHS

Length: 2m 3m 5m

IP69K, DIN40050-9 IP68, EN60529:1992+A2:2013 (10m depth for 2 weeks)

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

EN60068-2-52 Test Kb Salt Mist

Machined Brass, Nickel Plated

Conductors

5.2mm 2 x 28AWG 2 x 20AWG

Signal

4.8mm 2 x 28AWG

5.0mm 2 x 28AWG

Conductors Power

2 x 24AWG

2 x 22AWG

(Cyclic) Marine Severity Level 1 0°C to +70°C

4 1A 30V AC (RMS) 30mΩ max. USB version 2.0

PCB adaptor leads

Electrical

No. of conductors Current rating Voltage rating Contact resistance PCB pitch

Materials

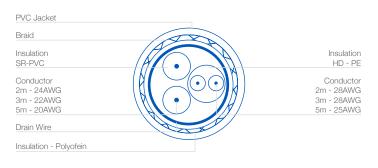
Moulding Flammability Contact material Contact plating Wire insulation Flammability Conductors Operating temperature Mating cycles RoHS

1A 30V AC (RMS) <10mΩ max. 2.54mm

4

Polycarbonate UL94V-0 Copper Alloy 30 micro inch Gold PVC (black) UL94-V0 4 x 28AWG 0°C to +70°C 1,000 Compliant

Cable construction - PXP6040, PXP6041



bulgin

Thermo-plastic version

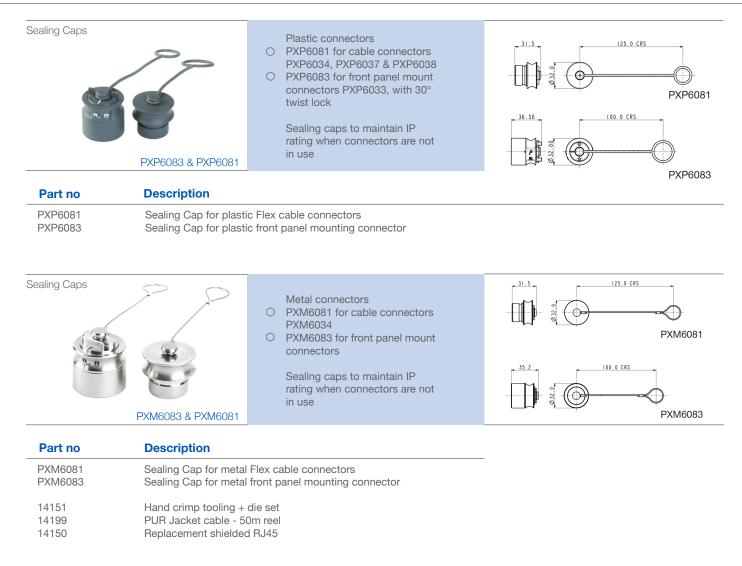


Patch Cord Flex Connec	tor - Pur Jacket Cable	 Mates with PXP60 mounting connector 30° twist locking Overmoulded patc connector Supplied with shiel Single or double er Standard lengths: S-FTP cable const PUR jacket cable Wiring configuratio Exceeds EIA/TIA C 	ors with IP rated Ided RJ45 plug nd terminated 2m, 3m & 5m ruction on to 568-B	Ø 32.0
Part no	Туре	Length	Description	
PXP6037/2M00 PXP6037/3M00 PXP6037/5M00	Single ended Single ended Single ended	2m 3m 5m	IP RJ Buccane IP RJ Buccane	er to Shielded RJ45 er to Shielded RJ45 er to Shielded RJ45
Patch Cord Flex Connect	tor - Pur Jacket Cable	 Mates with PXP60 mounting connector 30° twist locking Overmoulded patc connector Supplied with shiel Single or double er Standard lengths: S-FTP cable const PUR jacket cable Wiring configuratio Exceeds EIA/TIA C 	ors with IP rated Ided RJ45 plug nd terminated 2m, 3m & 5m rruction	LENGTH ±20.0
Part no	Туре	Length	Description	
PXP6038/2M00 PXP6038/3M00 PXP6038/5M00	Double ended Double ended Double ended	2m 3m 5m	IP RJ Buccane IP RJ Buccane	er to IP68 RJ Buccaneer er to IP68 RJ Buccaneer er to IP68 RJ Buccaneer
Rewireable Flex Connect	tor	 Mates with PXP60: panel mounting co 30° twist locking Supplied with shiel plug Two versions: for PUR jacket cab for other cable size 4.0 to 10.0mm dia. 	Ided RJ45 Ide (Cat 5e) es from	Ø 32.0 78.4 MAX
Part no	Description			
PXP6034/A PXP6034/B	Cable glands opti	mised for PUR jacket cal /ith cables from 4.0 to 10		performance
Front Panel Mounting Co	Drinector Description PXP6033TP	 Sealed through participation Cat 5e shielded co Mates with all plas Standard RJ45 participation Standard RJ45 participation Version with earth Single hole fixing Complete with participation 	oupler tic flex connectors tchcord can ar wire available	90.0-95.0 90.0-95.0
Part no	Description	Fixing		
PXP6033TP PXP6033TP/E	Cat 5e coupler Cat 5e coupler + earth v	Front panel mounted - sealed through panel		



Re-wireable Flex Con	nnector	 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. 	Ø 32.0	78.4 MAX	
Part no	Description				
PXM6034/A PXM6034/B		sed for PUR jacket cable to maintain Cat 5e perform cables from 4.0 to 10.0mm diameter	nance		
Front Panel Mountin	g 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 		3.5 3.5 0 0 0 0 0 0 0 0 0 0 0 0 0	
Part no	Description	Fixing			
PXM6033TP	Cat 5e coupler	Front panel mounted - sealed through panel			





Part No System





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

IP69K, DIN40050-9

-20°C to +70°C

0°C to +70°C

PVC (black)

UL94V-0

(10m depth for 2 weeks)

IP68, EN60529:1992+A2:2013

IP66, EN60529:1992+A2:2013

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

Ethernet - Metal and Thermo-plastic versions

Connectors

Mechanical Sealing

Salt Mist:

Operating Temperature Re-wireable and Metal Overmoulded patchcords

Materials - Overmoulded Overmould material

Flammability rating

Materials - Re-wireable and Panel Connectors

Plastic Metal Flammability rating 'O' rings Panel Gasket - round Panel Gasket - flange Approvals

PC/PBT Machined Brass, Nickel Plated UL94V-0 Silicone Silicone Silicone

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

RoHS

Conductors Insulation Pair Core Таре Screen

Sheath **Op** Temperature Min. bend radius Min bend radius Diameter

Electrical @ 20°C

Characteristic Impedance

Capacitance Conductor Loop resistance Skew TIA/EIA Rating

24AWG (7/0.2mm) bare copper HD-PE 2 of the above cores twisted 4 of the above cores 1 lap mylar tape 1 layer mylar and aluminium tape, 0.12mm tinned copper braid PUR Jacket Black -25°C to +85°C 10 x O/D (installation) 6 x O/D (installed) 6.1mm nominal

100Ω ±15Ω @ 100MHz

330pF/km

29Ω/100m maximum 45 nsec/100m @ 100MHz Cat 5e & POE

Cable construction - PXP6037, PXP6038 and 14199

PCB adaptor leads

Electrical

No. of conductors Current rating Voltage rating Contact resistance PCB pitch

Materials

Moulding Flammability Contact material Contact plating Wire insulation Flammability Conductors Operating temperature Mating cycles RoHS

4 350mA 37V - 57V <10mΩ max. 2.54mm

Polycarbonate UL94V-0 Copper Alloy 30 micro inch Gold PVC (black) UL94-V0 4 x 28AWG 0°C to +70°C 1,000 Compliant

Cable construction - PXP6040, PXP6041



