# Standard Buccaneer - Ethernet

bulgin

- IP68 rated
- IP69K, Tested in accordance with DIN 40050/Part 9 IP6k9k
- Cat 5e or Cat 6a compliant
- PUR / PVC jacket on cable
- Shielded system
- Cat 5e or Cat 6a shielded coupler
- Shroud on RJ45
- Screw coupling
- Rewireable flex connector
- PCB mounted panel connector
- IDC termination panel connector
- Earth lead version of panel adaptor
- EN60068-2-52 Test Kb Salt Mist (Cyclic) Marine Severity Level 1

- Dust and waterproof sealing when mated
- Data rate up to 100MHz
- Good chemical resistance, flame retardant
- High noise immunity and EMI protection
- Maintains shielding
- Protection from abuse and mis-mating
- Secure, proven locking system
- Ability to 'field' terminate
- Direct PCB mount panel connector
- Simple termination
- Continuous screening of panel mount connector

Standard Buccaneer - Ethernet

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Patch Cord Flex Connector - PUR Jacket

○ 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 / PVC jacket cable
○ Wiring configuration to 568-B

PX0836

LENGTH ±20.0
Ø38.1   60.6

LENGTH ±20.0
Ø38.1   60.6

LENGTH ±20.0
Ø38.1   60.6   60.6
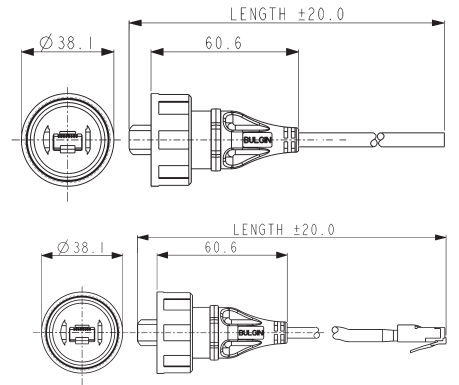
| Part no.	Type	Length	Description
PX0836/2M00	Wire end	2m	Cat 5e IP68 RJ45 Buccaneer to bare end
PX0836/3M00	Wire end	3m	Cat 5e IP68 RJ45 Buccaneer to bare end
PX0836/5M00	Wire end	5m	Cat 5e IP68 RJ45 Buccaneer to bare end
PX0837/2M00	Single ended	2m	Cat 5e IP68 RJ45 Buccaneer to Shielded RJ45
PX0837/3M00	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
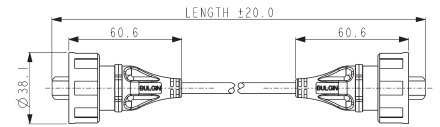
Re wireable Flex Connector

○ Mates with all panel mounting connectors
○ Supplied with shielded RJ45 plug
○ Two versions:
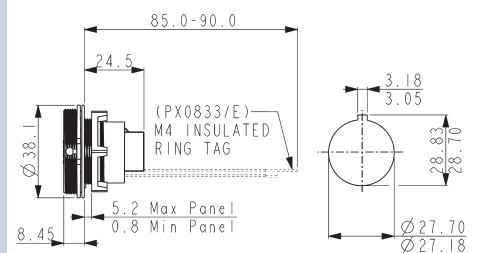 PUR / PVC jacket cable (Cat 5e / 6a) for other cable sizes from 3.5 to 8mm dia.

PX0834

Ø38.1   77.5
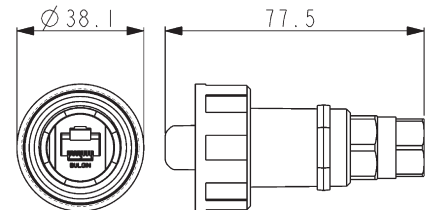
Part no.	Description
PX0834/A	Cat 5e Cable glands optimised for PUR jacket cable to maintain Cat 5e performance
PX0834/B	Cat 5e Suitable for use with cables from 3.5 to 8mm diameter
PX0894/A	Cat 6a Cable glands optimised for PVC jacket cable to maintain Cat 6a performance
PX0894/B	Cat 6a Suitable for use with cables from 3.5 to 8mm diameter

Panel Mounting Connector

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

PX0833

85.0-90.0
24.5
Ø38.1
(PX0833/E)
M4 INSULATED RING TAG
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

Flanged 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
○ Flange fixing
○ Complete with panel sealing gasket
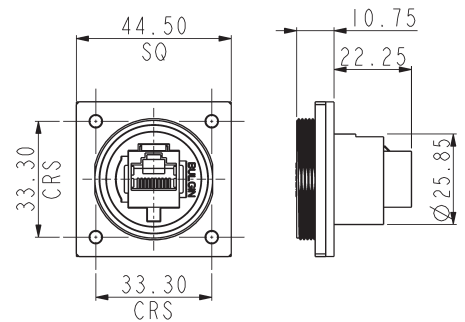
Part no.	Description	Fixing
PX0870	Cat 5e coupler	Flange mounting
PX0870/E	Cat 5e coupler + earth wire	Flange mounting
PX0890	Cat 6a coupler	Flange mounting
PX0890/E	Cat 6a coupler + earth wire	Flange mounting

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 pins
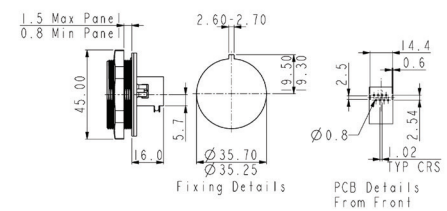○ Complete with panel sealing PX0839/PC gasket
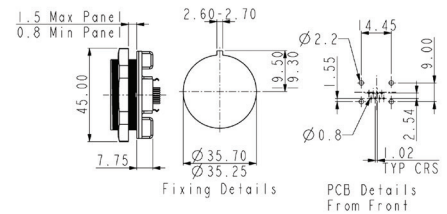
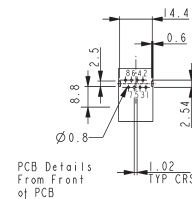| Part no.	Description	Fixing
PX0839/PC	Cat 5e connector - PC	Rear panel mounted

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, 90° pins
○ Complete with panel sealing PX0839/90 gasket

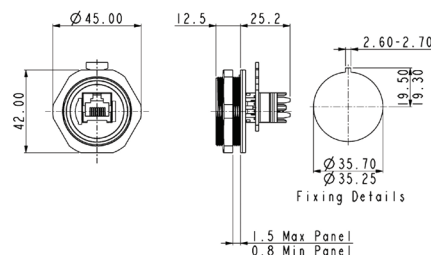| Part no.	Description	Fixing
PX0839/90	Cat 5e connector - PC	Rear panel mounted

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

Ø 45.00   12.5   25.2   2.60-2.70
42.00   9.50 9.30
Ø 35.70
Ø 35.25
Fixing Details
1.5 Max Panel
0.8 Min Panel

Part no.	Description	Fixing
PX0839/IDC	Cat 5e coupler	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

PX0888
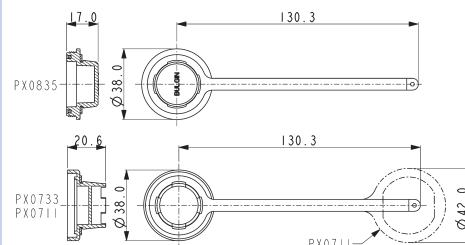
53.10
SQ
17.70
16.30
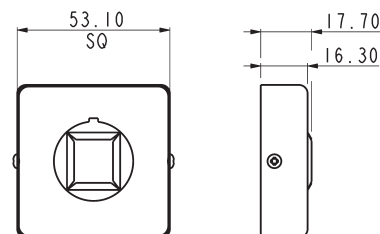
Part no.	Description
PX0888	Shielding backshell accessory

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

17.0   130.3
PX0835   Ø 38.0
20.6   130.3
PX0733   Ø 38.0   Ø 42.0
PX0711   PX0711

Part no.	Description
PX0835	Sealing Cap for flex connectors (PX0834, PX0836-838, PX0894, PX0896-898)
PX0733	Sealing Cap for panel mounting connector (PX0833, PX0870, PX0893, PX0890)
PX0711	Sealing Cap for rear panel mounting connector (PX0839)
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

Connectors

Sealing	IP69K, Tested in accordance with DIN 40050/Part 9 IP6k9k
	IP68, EN60529:1992+A2:2013 (10m depth for 2 weeks)
Operating Temperature	–20°C to +70°C

Materials - Overmoulded

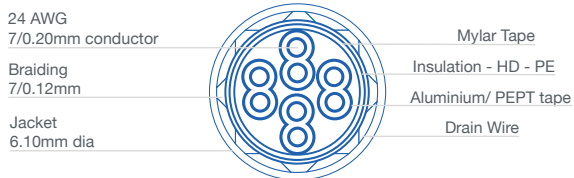|	
Overmould material	PVC (black)
Flammability rating	UL94V-0
Salt Mist	EN60068-2-52 Test Kb Salt Mist (Cyclic) Marine Severity Level 1

Materials - Re-wireable and Panel Connectors

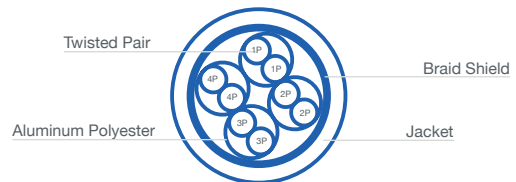|	
Connector body & locking ring	Polyester
Panel connector	Nylon 6
Flammability rating	UL94V-0
'O' rings	Silicone
Panel Gasket - round	Silicone
Panel Gasket - flange	Neoprene
RoHS	Compliant

Cables	Cat 5e	Cat 6a
Conductors	24AWG (7/0.2mm) bare copper	26AWG (7/0.16mm) bare copper
Insulation	HD-PE	PE (Skin - Foam - Skin)
Pair	2 of the above cores twisted	2 of the above cores twisted
Core	4 of the above cores	4 of the above cores
Screen	1 layer mylar and aluminium tape,	Aluminium & Polyester
Braid	0.12mm tinned copper braid	Tinned Copper Braid
Sheath	PUR Jacket Black	PVC Jacket Black
Op Temperature	–25°C to +85°C	–25°C to +75°C
Diameter	6.1mm 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	
TIA/EIA Rating	Cat 5e	Cat 6A
Mechanical Characteristics		
Minimum Tensile Strength of Jacket (kgf/mm^2)		1.05
Maximum Length for Strip of Jacket (mm)		40

Cable construction - PX0836, PX0837, PX0838 and 14199

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 - PX0896, PX0897, PX0898 and 15241

Twisted Pair

Aluminum Polyester

Braid Shield

Jacket

Polyvinyl Chloride (PVC) Jacket

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RJ45 Plug	Cat 5e & POE	Cat 6a
Materials		
Moulding	Polycarbonate	Polycarbonate
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	–40°C to +70°C
Mating cycles	1,000 cycles	1,000 cycles
RoHS	Compliant	Compliant
Electrical		
No. Conductors	8	8
Conductor types	24-28AWG, solid or multistranded	24-28AWG, solid or multistranded
Current rating	350mA	1.5 A
Voltage rating	37V ac, 57V dc	30V ac, 42V dc
Contact resistance	10mΩ max.	10mΩ max.
Performance	Cat 5e & POE	Cat 6a

RJ45 Coupler	Cat 5e	Cat 6a
Materials		
Coupler Shell	Copper Alloy	Copper Alloy
Coupler Plating	Nickel	Nickel
Moulding	ABS	ABS
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	10mV max.	10mV max.
Performance	Cat 5e	Cat 6a

RJ45 PCB Connector	
Materials	
Coupler Shell	Copper Alloy
Coupler Plating	Nickel
Moulding	ABS
Flammability	UL94V-0
Contact material	Phosphor Bronze
Contact plating	50 micron gold
PC Pins	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.
Performance	Cat 5e

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Cable Joiner

- IP68 Rating
- For Sealed In-Line 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
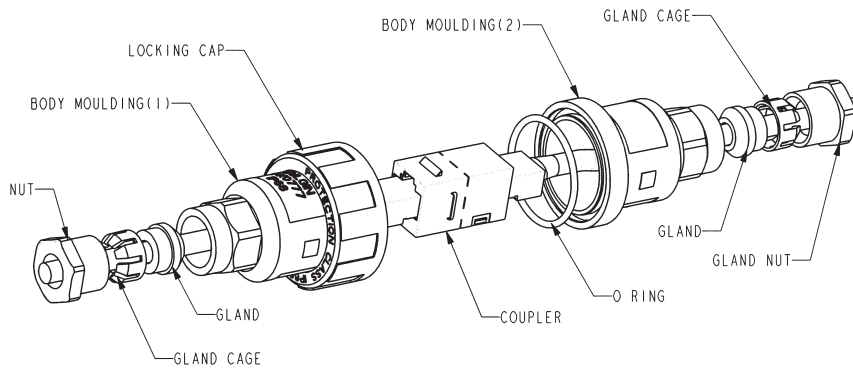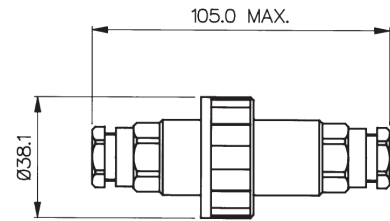
Specifications	PX0777/UTP	PX0777/STP	PX0777/CAT5ESTP	PX0777/CAT6ASTP
Rating: No. of Conductors: Coupler Type: Cable Range:	1.5A, 30V a.c., 42V d.c. 8 Unshielded 3.5 - 8mm With glands supplied: 3.5 - 5mm (Blue) 5 - 7mm (Green) 6 - 8mm (Red)	1.5A, 30V a.c., 42V d.c. 8 Shielded 3.5 - 8mm With glands supplied: 3.5 - 5mm (Blue) 5 - 7mm (Green) 6 - 8mm (Red)	1.5A, 30V a.c., 42V d.c. 8 Shielded CAT5e performance 3.5 - 8mm With glands supplied: 3.5 - 5mm (Blue) 5 - 7mm (Green) 6 - 8mm (Red)	1.5A, 30V a.c., 42V d.c. 8 Shielded CAT6a performance 3.5 - 8mm With glands supplied: 3.5 - 5mm (Blue) 5 - 7mm (Green) 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: RoHS	Black Compliant	Black Compliant	Black Compliant	Black Compliant

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