

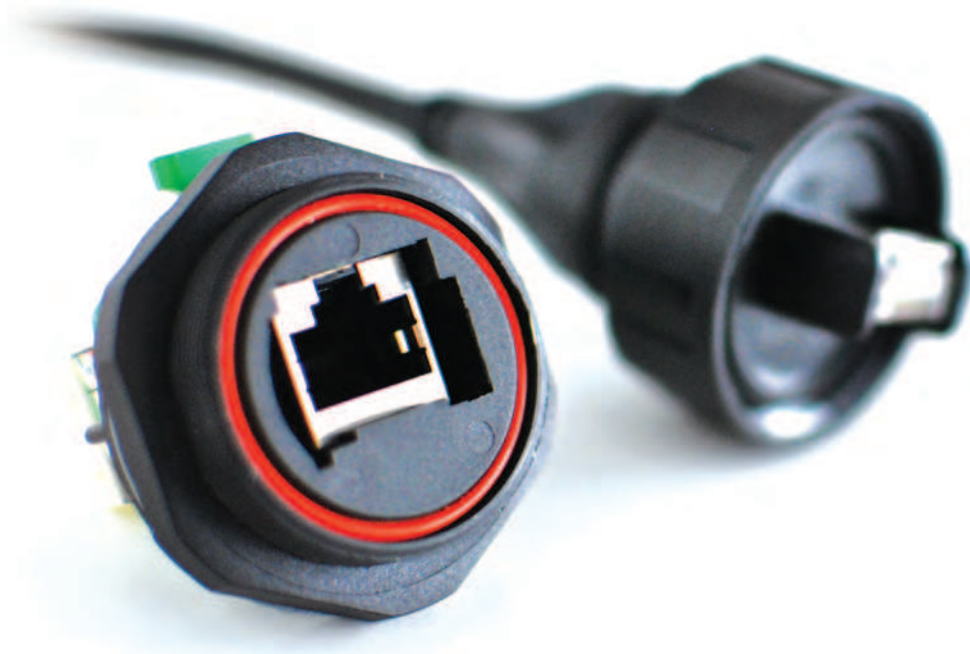
A full range of **IP68** rated environmentally **sealed circular connectors** designed to provide secure and safe connections in harsh or hostile conditions.

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.



Standard Buccaneer - Ethernet	56-61
Standard Buccaneer - USB	62-67
400 Series - Mini USB Buccaneer	68-72
400 Series - SMB Buccaneer	73-75
400 Series - Wireless Buccaneer	76-82
6000 Series Buccaneer - USB	83-88
6000 Series Buccaneer - Ethernet	89-93



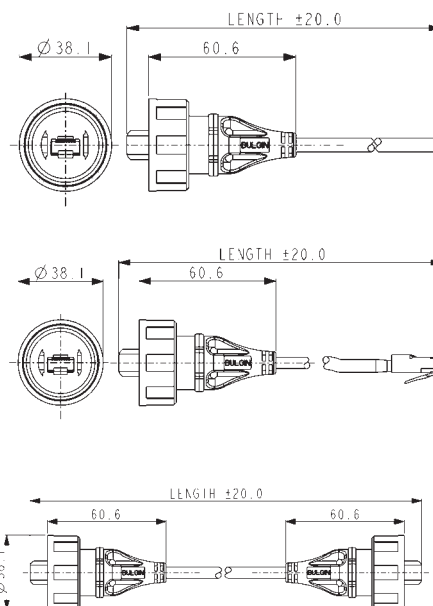
- ⬢ IP68 rated
- ⬢ Cat 5e compliant
- ⬢ PUR jacket on cable
- ⬢ Shielded system
- ⬢ Cat 5e shielded coupler
- ⬢ Shroud on RJ45
- ⬢ Screw coupling
- ⬢ Rewireable flex connector
- ⬢ PCB mounted panel connector
- ⬢ IDC termination panel connector
- ⬢ Earth lead version of panel adaptor
- ⬢ EN60068-2-52 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

## Patch Cord Flex Connector - PUR



PX0836

- 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 jacket cable
- Wiring configuration to 568-B
- Exceeds EIA/TIA Cat 5e



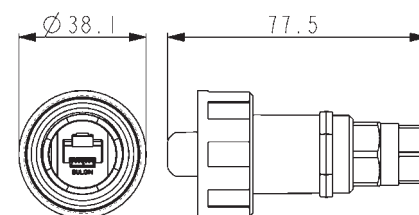
Part no.	Type	Length	Description
PX0836/2M00	Wire end	2m	IP68 RJ45 Buccaneer to bare end
PX0836/3M00	Wire end	3m	IP68 RJ45 Buccaneer to bare end
PX0836/5M00	Wire end	5m	IP68 RJ45 Buccaneer to bare end
PX0837/2M00	Single ended	2m	IP68 RJ45 Buccaneer to Shielded RJ45
PX0837/3M00	Single ended	3m	IP68 RJ45 Buccaneer to Shielded RJ45
PX0837/5M00	Single ended	5m	IP68 RJ45 Buccaneer to Shielded RJ45
PX0838/2M00	Double ended	2m	IP68 RJ45 Buccaneer to IP68 RJ45 Buccaneer
PX0838/3M00	Double ended	3m	IP68 RJ45 Buccaneer to IP68 RJ45 Buccaneer
PX0838/5M00	Double ended	5m	IP68 RJ45 Buccaneer to IP68 RJ45 Buccaneer

## Re wireable Flex Connector



PX0834

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



## Part no. Description

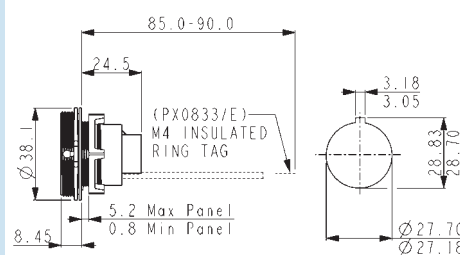
PX0834/A	Cable glands optimised for PUR jacket cable to maintain Cat 5e performance
PX0834/B	Suitable for use with cables from 3.5 to 8mm diameter

## Panel Mounting Connector



PX0833

- Cat 5e shielded coupler
- Mates with PX0836, PX0837, PX0838 and PX0834 flex connectors
- Standard RJ45 patchcord can be plugged into rear
- Version with earth wire available
- Single hole fixing
- Complete with panel sealing gasket



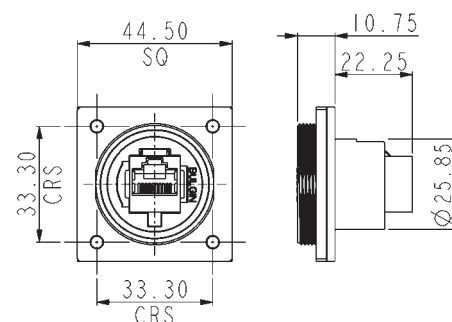
Part no.	Description	Fixing
PX0833	Cat 5e coupler	Front panel mounted
PX0833/E	Cat 5e coupler + earth wire	Front panel mounted

## Flanged Mounting Connector



PX0870

- Cat 5e shielded coupler
- Mates with PX0836, PX0837, PX0838 and PX0834 flex connectors
- Standard RJ45 patchcord can be plugged into rear
- Version with earth wire available
- Flange fixing
- Complete with panel sealing gasket & screw sealing washers



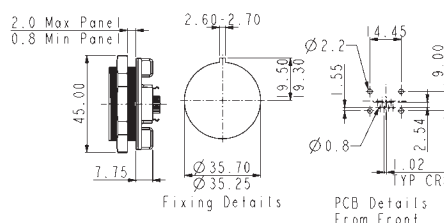
Part no.	Description	Fixing
PX0870	Cat 5e coupler	Flange mounting
PX0870/E	Cat 5e coupler + earth wire	Flange mounting

## 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



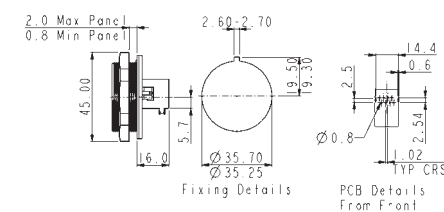
Part no.	Description	Fixing
PX0839/PC	Cat 5e connector - PC	Rear panel mounted

## PCB Mounting Connector

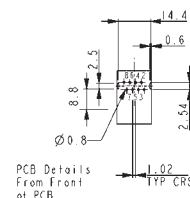


PX0839/90

- 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

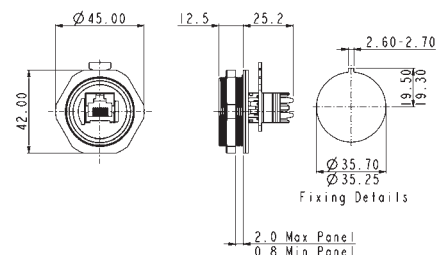


## Panel Mounting Connector



PX0839/IDC

- 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



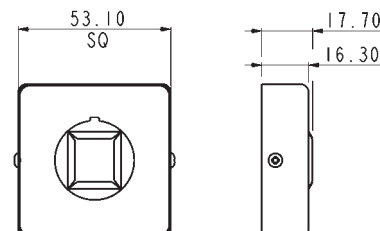
Part no.	Description	Fixing
PX0839/IDC	Cat 5e coupler	Rear panel mounted

## Shield Back Shell Accessory



PX0888

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



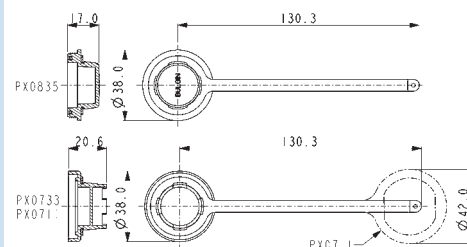
Part no.	Description
PX0888	Shielding backshell accessory

## Accessories



Sealing Caps

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



Part no.	Description
PX0835	Sealing Cap for flex connectors (PX0834, PX0836-838)
PX0733	Sealing Cap for panel mounting connector (PX0833, PX0870)
PX0711	Sealing Cap for rear panel mounting connector (PX0839)
14151	Hand crimp tooling + die set
14199	PUR Jacket Cable - 50m reel
14150	Replacement shielded RJ45

## Connectors

Mechanical	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

## 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
Sheath	tinned copper braid
Op Temperature	PUR Jacket Black
Min. bend radius	-25°C to +85°C
Min. bend radius	10 x o/d (installation)
Diameter	6 x o/d (installed) 6.1mm nominal

Electrical @ 20°C

Characteristic	
Impedance	100 $\Omega$ $\pm$ 15 $\Omega$ @ 100MHz
Capacitance	330pF/km
Conductor Loop resistance	29/ $\Omega$ 100m maximum
Skew	45 nsec/100m @ 100MHz
TIA/EIA Rating	Cat 5e

## Cable construction - PX0836, PX0837, PX0838 and 14199

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

Polyurethane (PUR) Jacket

## RJ45 Plug

### Materials

Moulding	Polycarbonate
Flammability	UL94V-0
Contact material	Phosphor Bronze
Contact plating	50 micron gold
Operating Temperature	-40°C to +70°C
Mating cycles	1,000 cycles
RoHS	Compliant

### Electrical

No. Conductors	8
Conductor types	24-28AWG, solid or multistranded
Current rating	1.5A
Voltage rating	30V ac, 42V dc
Contact resistance	10m $\Omega$ max.
Performance	Cat 5e

## RJ45 Coupler

### Materials

Coupler Shell	Copper Alloy
Coupler Plating	Nickel
Moulding	ABS
Flammability	UL94V-0
Contact material	Phosphor Bronze
Contact plating	50 micron gold
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	10mV max.
Performance	Cat 5e

## 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	10m $\Omega$ max.
Performance	Cat 5e

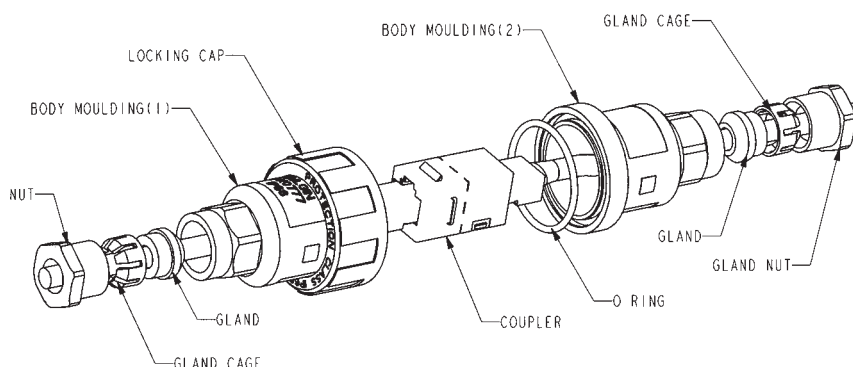
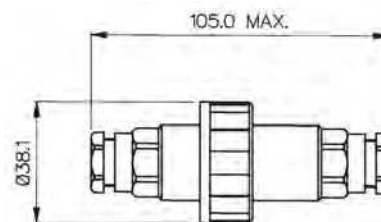


Cable Joiner



PX0777

- 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)



Specifications	PX0777/UTP	PX0777/STP	PX0777/CAT5ESTP
Rating:	1.5A, 30V a.c., 42V d.c.	1.5A, 30V a.c., 42V d.c.	1.5A, 30V a.c., 42V d.c.
No. of Conductors:	8	8	8
Coupler Type:	Unshielded	Shielded	Shielded CAT5e performance
Cable Range:	3.5 - 8mm With glands supplied: 3.5 - 5mm (Blue) 5 - 7mm (Green) 6 - 8mm (Red)	3.5 - 8mm With glands supplied: 3.5 - 5mm (Blue) 5 - 7mm (Green) 6 - 8mm (Red)	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
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)
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
Operating Temp Range:	-20°C to +70°C	-20°C to +70°C	-20°C to +70°C
Colour:	Black	Black	Black
<b>RoHS</b>	Compliant	Compliant	Compliant