



- O IP68, Tested in accordance with EN60529:1992+A2:2013
- O IP69K, Tested in accordance with DIN 40050/Part 9 IP6k9k
- O Cat 5e or Cat 6a compliant
- O PUR / PVC jacket on cable
- O Shielded system
- O Cat 5e or Cat 6a shielded coupler
- O Shroud on RJ45
- O Screw coupling
- O Rewireable flex connector
- O PCB mounted panel connector
- O IDC termination panel connector
- O Earth lead version of panel adaptor
- C EN60068-2-52 Test Kb Salt Mist (Cyclic) Marine Severity Level 1

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

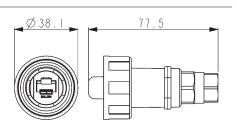


Patch Cord Flex	Connector - PUR J	lacket	<ul> <li>Mates with all panel mounting connectors</li> <li>Patchcords with IP68 connector</li> <li>Supplied with shielded RJ45 plug</li> <li>Single or double end terminated</li> <li>Standard lengths: 2m, 3m &amp; 5m</li> <li>S-FTP cable construction</li> <li>PUR (Cat 5e) or PVC (Cat 6a) jacket cable</li> </ul>	<u> <u> Ø 38.1</u> <u> E NGTH ±20.0</u> <u> Ø 38.1</u> <u> LENGTH ±20.0</u> <u> U ENGTH ±20.0 </u> <u> U ENGTH ±20</u></u>
	Time	PX0836	<ul> <li>Wiring configuration to 568-B</li> </ul>	
Part no.	Туре	Length	Description	
PX0836/2M00	Wire end	2m	Cat 5e IP68 RJ45 Buccaneer to bare end	
PX0836/3M00	Wire end	3m	Cat 5e IP68 RJ45 Buccaneer to bare end	LENGTH ±20.0
PX0836/5M00	Wire end	5m	Cat 5e IP68 RJ45 Buccaneer to bare end	60.6
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 Buccan	
PX0838/3M00	Double ended	3m	Cat 5e IP68 RJ45 Buccaneer to IP68 RJ45 Buccan	
PX0838/5M00	Double ended	5m	Cat 5e IP68 RJ45 Buccaneer to IP68 RJ45 Buccan	leer
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 Buccan	
PX0898/3M00	Double ended	3m	Cat 6a IP68 RJ45 Buccaneer to IP68 RJ45 Buccan	
PX0898/5M00	Double ended	5m	Cat 6a IP68 RJ45 Buccaneer to IP68 RJ45 Buccan	eer

Re wireable Flex Connector



- O 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

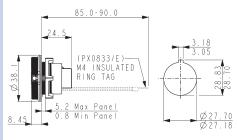
#### Part no. **Description** ... - . . ...

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

Panel Mounting Connector

$\bigcirc$	Cat 5e mates with	PX0836, PX0837
	PX0838 & PX0834	flex connectors
$\frown$	Cat 6a matao with	DV0006 DV0007

- 2X0896, PX0897, with F 6a mates PX0898 & PX0894 flex connectors
- Standard RJ45 patchcord can be plugged into rear
- $\bigcirc$ Version with earth wire available Single hole fixing
- $\bigcirc$
- O Complete with panel sealing gasket



PX0833

#### Description **Fixing** Part no. 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



PCB Details From Front of PCB

Flange Mountin	ng Connector	<ul> <li>Cat 5e mates with PX0836, PX0837, PX0838 &amp; PX0834 flex connectors</li> <li>Cat 6a mates with PX0896, PX0897, PX0898 &amp; PX0894 flex connectors</li> <li>Standard RJ45 patchcord can be plugged into rear</li> <li>Version with earth wire available</li> <li>Flange fixing</li> <li>Complete with panel sealing gasket</li> </ul>	44.50 SO SO CRS 44.50 SO 22.25 SO SO SO SO SO SO SO SO SO SO SO SO SO
Part no.	Description	Fixing	
PX0870 PX0870/E PX0890 PX0890/E	Cat 5e coupler Cat 5e coupler + earth wire Cat 6a coupler Cat 6a coupler + earth wire	Flange mounting Flange mounting Flange mounting Flange mounting	
PCB Mounting	Connector	<ul> <li>Cat 5e shielded RJ45 interface</li> <li>Rear of panel mounted</li> <li>Mates with PX0836, PX0837,</li> <li>PX0838 and PX0834 flex connectors</li> <li>For direct vertical mounting to</li> <li>PCB, straight Plugs</li> <li>Complete with panel sealing PX0839/PC gasket</li> </ul>	1.5 Max Panel 0.8 Min Panel 7.75 Fixing Details CB Details CB Details From Front
Part no.	Description	Fixing	
PX0839/PC	Cat 5e connector - PC	Rear panel mounted	
PCB Mounting	Connector	<ul> <li>Cat 5e shielded RJ45 interface</li> <li>Rear of panel mounted</li> <li>Mates with PX0836, PX0837,</li> <li>PX0838 and PX0834 flex connectors</li> <li>For direct horizontal mounting to PCB, 90° Plugs</li> <li>Complete with panel sealing PX0839/90 gasket</li> </ul>	1.5 Max Pane 0.8 Min Pane 6.0 Jas 70 6.0 Jas 70 6.0 Jas 70 0.8 Jas 70 0.8 Jas 70 0.8 Jas 70 0.8 Jas 70 0.
Part no.	Description	Fixing	
PX0839/90	Cat 5e connector - 90 degre		



Panel Mounting	g Connector	<ul> <li>Cat 5e shielded RJ45 interface</li> <li>Rear of panel mounted</li> <li>Mates with PX0836, PX0837,</li> <li>PX0838 and PX0834 flex connectors</li> <li>Two IDC blocks for discrete termination</li> <li>Complete with panel sealing</li> </ul>	0 0 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 Sh	nell Accessory	<ul> <li>Maintains RJ45 coupler screening directly to panel</li> <li>Shielding can is fixed to rear of panel mount connector</li> <li>For use on PX0833</li> </ul>	53.10 S0 16.30 () () () () () () () () () () () () ()
Part no.	Description		
PX0888	Shielding backshell accesso	ry	
Accessories	Sealing Caps	<ul> <li>Sealing caps to maintain IP68 rating when connectors are not in use</li> <li>Replacement shielded RJ45s</li> <li>Hand crimp tool for shielded RJ45</li> <li>Patch cord cable available in 50m reels</li> </ul>	PX0835
Part no.	Description		
PX0835 PX0733 PX0711 14151	Sealing Cap for flex connector		0)

- 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:	IP68, EN60529:1992+A2:2013 (10m depth for 2 weeks)	
	IP69K, Tested in accordance with DIN 40050/Part 9 IP6k9k	
Operating Temperature:	–20°C to +70°C	
Materials - Overmoulded Overmould material: Flammability rating:	PVC (black) 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	
Mechanical Characteristics		
Minimum Tensile Strength of Jacket (kgf/mm <sup>2</sup> )		1.05
Maximum Length for Strip of Jacket (mm)		40

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

## Cable construction - PX0896, PX0897, PX0898 and 15241





Braiding

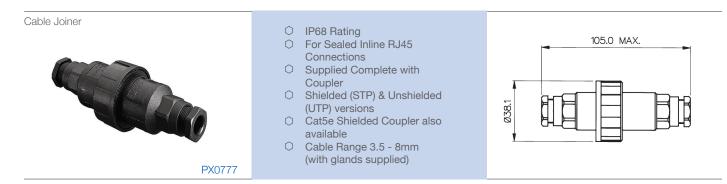
7/0.12mm

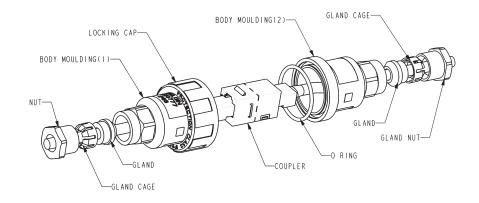
Jacket 6.10mm dia



RJ45 Plug	Cat 5e & PoE	Cat 6a
Materials Moulding Flammability Contact material Contact plating Operating Temperature Mating cycles RoHS	Polycarbonate UL94V-0 Phosphor Bronze 50 micron gold -40°C to +70°C 1,000 cycles Compliant	Polycarbonate UL94V-0 Phosphor Bronze 50 micron gold -40°C to +70°C 1,000 cycles Compliant
Electrical No. Conductors Conductor types	8 24-28AWG, solid or multistranded	8 24-28AWG, solid or multistranded
Current rating Voltage rating Contact resistance	350mA 37V AC, 57V DC 10mΩ max.	1.5 A 30V AC, 42V DC 10mΩ max.
RJ45 Coupler	Cat 5e	Cat 6a
Materials Coupler Shell Coupler Plating Moulding Flammability Contact material Contact plating Operating Temperature Mating cycles <b>ROHS</b> Electrical No. Conductors Current rating Voltage rating Contact resistance	Copper Alloy Nickel PBT UL94V-0 Phosphor Bronze 50 micron gold -40°C to +70°C 1,000 cycles Compliant 8 1.5A 30V AC, 42V DC 10mΩ max.	Copper Alloy Nickel PBT UL94V-0 Phosphor Bronze 50 micron gold 0°C to +70°C 1,000 cycles Compliant 8 1.5A 30V AC, 42V DC 10mΩ max.
RJ45 PCB Connector	Cat 5e	
Materials Coupler Shell Coupler Plating Moulding Flammability Contact material Contact plating PC Plugs Operating Temperature Mating cycles RoHS Electrical No. Conductors	Copper Alloy Nickel PBT UL94V-0 Phosphor Bronze 50 micron gold Tin plated -40°C to +70°C 1,000 cycles Compliant 8	
Current rating Voltage rating Contact resistance	1.5A 30V AC, 42V DC 10mΩ max.	







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