Ethernet Buccaneer®

Coupling ring, screw thread

Shroud for RJ45 provides protection against damage through mis-use and positive alignment for mating of connectors

> Panel gasket maintains IP68 seal to panel

Sealing gland and cage optimised to maintain IP68 seal and provide secure cable restraint without disrupting signal

> 'O' ring maintains IP68 seal at connector interface

Shielded Cat 5e coupler maintains screenina

Sealing Cap Clip

Shroud for RJ45 provides protection against damage through mis-use and positive alignment for mating of connectors

> 'O' ring maintains IP68 seal at connector interface

Panel gasket maintains IP68 seal to panel

Retaining Nut

Coupling ring, screw thread provides secure cable coupling

- 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

- Dust and waterproof sealing when mated
- Data rate up to 100MHz

Shielded Cat 5e coupler maintains screening

- 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



Over moulded assembly provides

IP68 cable seal

provides secure cable coupling





IP68

LENGTH ±20.0

60.6

. Ø 38

Ethernet Buccaneer®



- 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

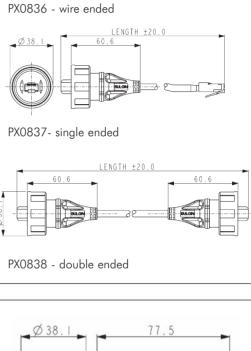
Exceeds EIA/TIA Cat 5e

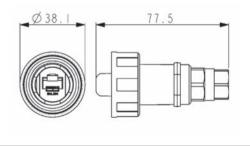
- PUR jacket cable
- Wiring configuration to 568-B

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



- 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



Complete with panel sealing gasket

24.5	85.0-90.0	
	(PX0833/E) M4 INSULATED RING TAG	3.18 3.05
	<u>2 Max Panel</u> 8 Min Panel	58

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



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cinernet	Buccaneer		
FLANGE M Part no. PX0870 PX0870/E	Description Cat 5e coupler Cat 5e coupler + earth wire	 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 Fixing Flange mounting Flange mounting Flange mounting 	44.50 50 22.25 22.25 50 50 50 50 50 50 50 50 50 5
PCB MOU	NTING 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 pins Complete with panel sealing gasket 	2.0 Max Panel 0.8 Min Panel 7.75 Fixing Details
Part no. Description Fixing PX0839/PC Cat 5e connector - PC Rear panel mounted		14.45±0.10 4 HOLES Ø2.20 14.45±0.10 ±0.05 10.5 0 10.5 0 10.5 0 10.5 0 10.5 0 10.5 0 10.5 0 10.5 0 10.5 0 10.5 0.50 10.5 10.5	
PCB MOU	NTING 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° pins Complete with panel sealing gasket 	2.0 Max Panel 0.8 Min Panel 0.6.0 5 5 6.0 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7
Part no. PX0839/90	Description Cat 5e connector - PC	Fixing Rear panel mounted	Ø 0.8 PCB Details From Front From Front PCB Details From Front

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Ø 35.70 Ø 35.25 Fixing Details

17.70 16.30

2.60-2.70 19.50

PANEL MO	OUNTING 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 gasket 	Ø 45.00 12.5 25.2 Ø 35.2 Ø 35.2 Ø 35.2 Fixing De 2.0 Max Panel 0.8 Min Panel
Part no.	Description	Fixing	
PX0839/IDC	Cat 5e coupler	Rear panel mounted	
Part no.	PX0888 Description	 Maintains RJ45 coupler screening directly to panel Shielding can is fixed to rear of panel mount connector For use on PX0833 	
PX0888	Shielding backshell accessory		
ACCESSOR	RIES	 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	Sealing Cap for flex connecto Sealing Cap for panel mounti Sealing Cap for rear panel m Hand crimp tooling + die set PUR Jacket Cable - 50m reel Replacement shielded RJ45	na connector (PX0833, PX0870)	

\$42.0

Ethernet Buccaneer®

SPECIFICATION

Connectors

Mechanical Sealing

Operating Temperature

Materials - Overmoulded Overmould material

Flammability rating

PVC (black) UL94V-0

IP68, EN60529

-20°C to +70°C

Materials - Re-wireable and Panel Connectors

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

Stranded S-FTP Patch cord cable - PUR Jacket

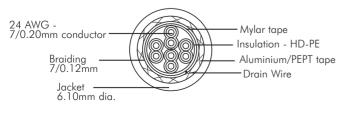
Polyurethane (PUR) jacket cable with internal construction exceeding Cat 5e performance levels. The PUR jacket has excellent abrasion, chemical and ozone resistance, low smoke, low halogen flame retardant construction suitable for internal and external industrial environments.

Cable

	I contraction of the second	
Conductors	24AWG (7/0.2mm) bare copper	
Insulation	HD-PE	
Pair	2 of the above cores twisted	
Core	4 of the above cores	
Таре	1 lap mylar tape	
Screen	1 layer mylar and aluminium tape, 0.12mm tinned copper braid	
Sheath	PUR Jacket Black	
Op Temperature	-25°C to +85°C	
Min. bend radius	10 x o/d (installation)	
Min. bend radius	6 x o/d (installed)	
Diameter	6.1mm nominal	
Electrical @ 20°C		
Characteristic		

100Ω ±15Ω @ 100MHz 330pF/km $29\Omega/100m$ maximum 45 nsec/100m @ 100MHz Cat 5e

Cable construction - PX0836, PX0837, PX0838 and 14199



Polyurethane (PUR) Jacket

Materials	
Moulding	Polycarbonate
Flammability	UL94V-0
Contact material	Phosphor Bronze
Contact plating	50 micron gold
Operating Temperature	$-40^{\circ}C$ to $+70^{\circ}C$
Mating cycles	1,000 cycles
RoHS	Compliant
Electrical	
No. Conductors	8
Conductor types	24-28AWG, solid stranded
Current rating	1.5A
Voltage rating	30V ac, 42V dc
Contact resistance	10m Ω max.
Performance	Cat 5e

BULGIN

or multi-

RJ45 Coupler

Materials Coupler Shell Coupler Plating Moulding Flammability Contact material Contact plating **Operating Temperature** Mating cycles RoHS

Electrical

Electrical	
No. Conductors	8
Current rating	1.5A
Voltage rating	30V ac, 42V dc
Contact resistance	10m Ω max.
Performance	Cat 5e

RJ45 PCB Connector

Materials Coupler Shell Coupler Plating Moulding Flammability Contact material Contact plating PC Pins Operating Temperature Mating cycles RoHS Electrical No. Conductors Current rating Voltage rating

Contact resistance Performance

Copper Alloy Nickel ABS UI94V-0 Phosphor Bronze 50 micron gold Tin plated -40°C to +70°C 1,000 cycles Compliant

Copper Alloy

Phosphor Bronze

50 micron gold

1,000 cycles

Compliant

-40°C to +70°C

Nickel

UL94V-0

ABS

8 1.5A 30V ac, 42V dc $10 \text{m}\Omega$ max. Cat 5e

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Impedance

Capacitance

resistance

Skew

Conductor Loop

TIA/EIA Rating

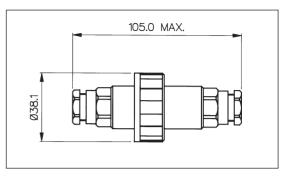


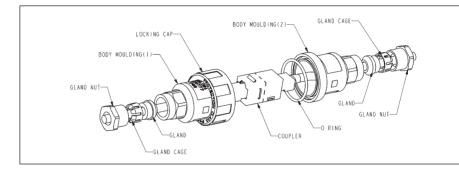
Ethernet Buccaneer®

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)





Specification	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 UL94V-0
Sealing:	IP68 to BSEN 60529 : 1977	IP68 to BSEN 60529 : 1977	IP68 to BSEN 60529 : 1977
Operating Temp. Range:	-20°C to +70°C	-20°C to +70°C	-20°C to +70°C
Colour:	Black	Black	Black
RoHS	Compliant	Compliant	Compliant