

Ethernet Buccaneer®



With Ethernet extending from the office to the factory floor and beyond into external environments, the demand for a secure connection for data applications is dramatically increasing.

This system is based upon the tried and tested Standard Buccaneer connector. It offers a secure connection for Ethernet based networks running up to 100Mbps, using the industry standard RJ45 connector as the base connection.

The system uses shielded connectors and couplers with S-FTP stranded cable to provide a high level of noise immunity.

Patchcords have been independently tested to TIA/ EIA Cat $5\mathrm{e}$ levels.

FEATURES AND BENEFITS

Compatible with standard shielded RJ45 components.

Protection for RJ45 interface against contact damage/wear due to mechanical vibration.

- IP68 rated
- Cat 5e compliant
- PE jacket on cable
- Shielded system
- Cat 5e shielded couplerShroud on RI45
- Screw coupling
- Re-wireable versionEarth lead
- Dust and water sealing
- Data rate up to 100MHz
- Good chemical and water resistance
- High noise immunity and EMI protection
- Maintains shielding
- Protection from abuse and mis-mating
- Secure, proven locking system
- Ability to 'field' terminate
- Maintains shielding of panel mount connector

PART NUMBERS

Re-wireable flex connectors

PX0834/A Glanding optimised for use with PE Jacket cable to maintain

Cat 5e performance

PX0834/B Suitable for use with cables of diameter from 3.5 to 8mm dia

Patch cord flex connectors

PX0830/2M00	Wire end	2m	RJ Buccaneer to bare end
PX0830/3M00	Wire end	3m	RJ Buccaneer to bare end
PX0830/5M00	Wire end	5m	RJ Buccaneer to bare end
PX0831/2M00	Single ended	2m	RJ Buccaneer to Shielded RJ45
PX0831/3M00	Single ended	3m	RJ Buccaneer to Shielded RJ45
PX0831/5M00	Single ended	5m	RJ Buccaneer to Shielded RJ45
PX0832/2M00	Double ended	2m	RJ Buccaneer to RJ Buccaneer
PX0832/3M00	Double ended	3m	RJ Buccaneer to RJ Buccaneer
PX0832/5M00	Double ended	5m	RJ Buccaneer to RJ Buccaneer

Panel mounting connectors

PX0833 Cat 5e Coupler

PX0833/E Cat 5e Coupler + earth wire

Accessories

PX0835	Sealing Cap for flex connectors
PX0733	Sealing Cap for panel mounting connecto

14151 Hand crimp tooling + die set
 14152 PE Jacket Cable - 50m reels
 14150 Replacement shielded RJ45



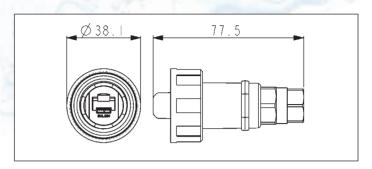
Ethernet Buccaneer®



RE-WIREABLE FLEX CONNECTOR



- Re-wireable flex cable connector
- Supplied with shielded RJ45 plug
- Two versions:
 - for use with PE Jacket cable (Cat 5e) for use with other cable sizes from 3.5 to 8mm dia.
- Mates with panel mounting connector



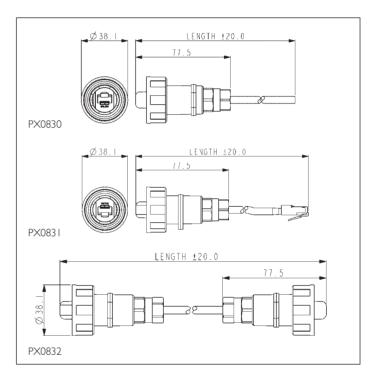
PATCH CORD FLEX CONNECTOR



- Patchcords with IP68 connector
- Supplied with shielded RJ45 plug
- Single or double end terminated
- Standard lengths; 2m, 3m & 5m
- Mates with panel mounting connector
- S-FTP cable construction
- PE lacket cable
- Wiring configuration to 568-B
- Exceeds EIA/TIA Cat 5e



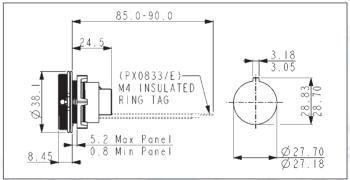




PANEL MOUNTING CONNECTOR



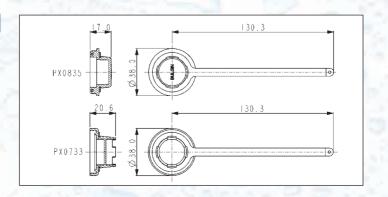
- Cat 5e shielded coupler
- For use with IP68 flex connectors
- Standard patchcord can be plugged into rear
- Version with earth wire available
- Single hole fixing
- Complete with panel sealing gasket



ACCESSORIES



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



Ethernet Buccaneer® Connector

TECHNICAL SPECIFICATION

Stranded S-FTP Patch cord cable - PE Jacket

A cable with internal construction exceeding Cat 5e performance levels. Designed to cope with the rigours that applications in external environments demand. Its outer sheath provides good levels of resistance to water, oils and chemicals, will not crack with prolonged exposure to water or UV, and provides good abrasion resistance.

Construction

Conductors

26AWG 7/0.16mm bare copper
Insulation

Polyeolefin (0.94mm nominal)

Pair

2 of the above cores twisted

Core
4 of the above cores

Tape
I lap of PEPT Tape

Screen

I layer of PEPT and aluminium tape

0. Imm Tinned copper braid

 $\begin{tabular}{lll} Sheath & PE Jacket Black \\ Operating Temperature & -25 ^{\circ}C +60 ^{\circ}C \\ Min. bend radius & 8 \times o/d (installation) \\ Min. bend radius & 4 \times o/d (installed) \\ Diameter & 5.6mm nominal \\ \end{tabular}$

Electrical @ 20°C

TIA/EIA Rating

Characteristic Capacitance $100\Omega \pm 15\Omega$ @ 4MHz - 100MHz Operating capacity 1600pF/km Conductor Loop resistance $29\Omega/100$ m maximum Skew 40 nsec/100m @ 100MHz Smoke index IEC 61034 Acid Gas Emissions IEC 60754

Cat 5e

Flex & Panel mounted connectors

Mechanical

Sealing IP68, EN60529

Materials

Connector Body Glass filled Polyamide
Flammability rating UL94-V0
'O' rings Neoprene
Panel Gasket Silicon

Operating Temperature -20°C to +70°C

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
 I,000 cycles

Electrical

No. Conductors 8
Current rating 30V ac, 42V dc
Voltage rating 1.5A
Contact resistance $10m\Omega$ max.

Performance Cat 5 EIA/TIA 2840, annex B specification

RJ45 Coupler

Materials

Coupler Shell Copper Alloy Coupler Plating Nickel ABS Moulding UI 94V-0 Flammability Contact material Phosphor Bronze Contact plating 50 micron gold -40°C to +70°C Operating Temperature Mating cycles 1,000 cycles

Electrical

No. Conductors 8
Current rating 30V ac, 42V dc

Voltage rating I.5A Contact resistance I0m Ω r

Performance Cat 5 EIA/TIA 2840, annex B specification