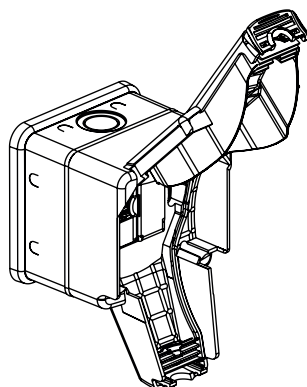


Plexo™ 66 FTP Category 6 RJ45 socket

Cat. No(s): 0 904 67



1. INTRODUCTION

90° FTP Category 6 RJ45 socket.

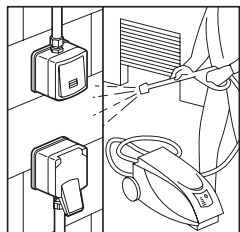
Weatherproof product for installation inside or outside premises exposed to:

- frequent cleaning (high-pressure cleaning at 70 to 90 bar, 70 to 80°C)
- disinfectants
- chemical attack
- inclement weather
- impacts

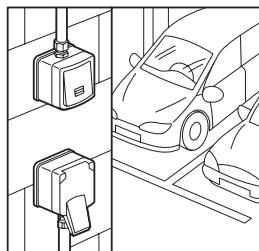
2. USAGE ENVIRONMENTS

2.1 COMMERCIAL

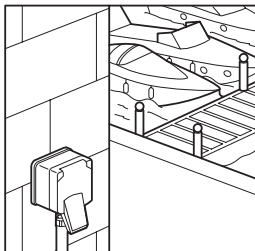
High-pressure cleaning
or with foam gun
(food processing industry)
< 90 bars, < 80°



Garage

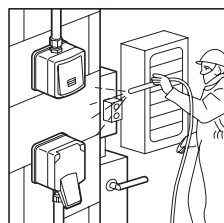


Port



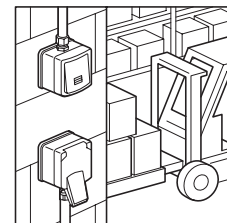
2.2 SEMI-INDUSTRIAL

Wash station and
platform

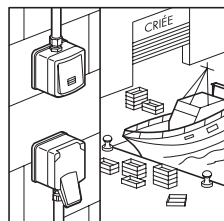


Risk of impact

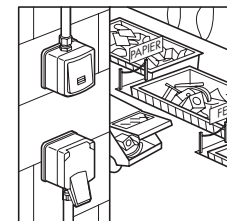
Warehouse - Moving around



Fish auctions
Ports



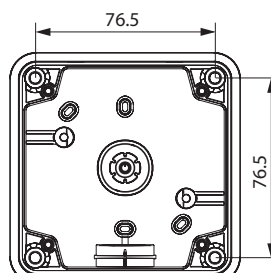
Organic waste storage site
(dump, farm)
Off-gas



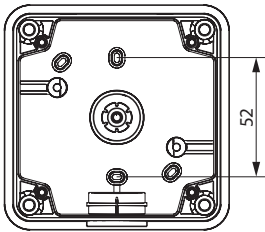
3. FITTING

3.1 FIXING

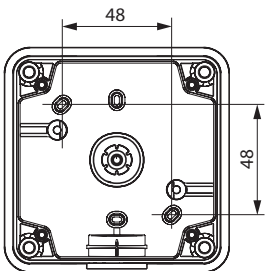
- Backbox screwed onto the support using 2 Ø 4 to 4.5 mm screws
- IP 66 weatherproof fixing for all types of surface



Vertical fixing (Plexo 55 fixing centre) IP 66 IK 08



Diagonal fixing for all types of surface (Plexo 55 fixing centre)



4. TECHNICAL CHARACTERISTICS

4.1 Protection class

Protection against solid bodies and liquids:

- IP 66 closed flap IK 07
- IP 66 closed flap plug inserted

Protection against impacts: IK 08

4.2 Materials

Contacts: gold/nickel, minimum gold thickness >0.8 µm

- Metal parts: bronze, nickel, platinum, gold

- Polycarbonate, PBT, PP

For STP products, the body and the spreader are made of metal alloy with copper/nickel coating.

- Box and cover: glass fibre reinforced polypropylene in light grey T029

- Flap: ABS charcoal grey RAL 7016

- Mechanism: polycarbonate grey RAL 7016

- Terminal and cover fixing screws: stainless steel

- Seal: grey elastomer

Zero halogen

UV resistant

Resistant to the following products: - chlorine pH 10-11
 - alkaline pH 9-10
 - acid pH 3

Salt spray resistance: 7 days (168 hrs)

Self-extinguishing:

+ 850°C/30 s for insulating parts holding live parts in place

+ 650°C/30 s for other parts made of insulating materials

4.3 Electrical characteristics

Breakdown voltage ≥ 1000 V

Contact resistance ≤ 20 mΩ

Insulation resistance ≥ 500 MΩ at 100 VDC

Compatible remote powering "PoE" up to 100w. (IEEE 802.3af, IEEE 802.3at, IEEE 802.3bt)

4.4 Mechanical characteristics

Max. number of connections and disconnections: 5 without replacing the wire

Endurance: 2500 operations (mating/extraction)

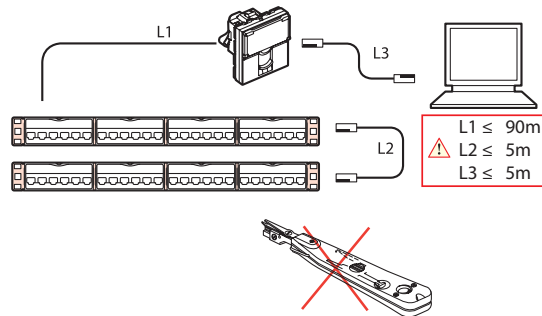
IK03

4.5 Climate characteristics

Operating temperatures: -40°C to +70°C

Humid heat 21-day cycle

5. INSTALLATION

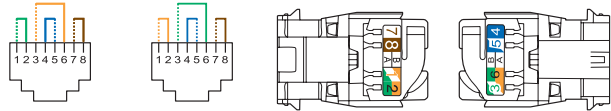


6. TYPICAL RJ45 CONNECTION

Takes the following plugs:

RJ11 (4 contacts), RJ12 (6 contacts), RJ45 (9 contacts).

EIA/TIA 568 A and B dual colour code on FTP 9-contact terminals



Permissible conductors:

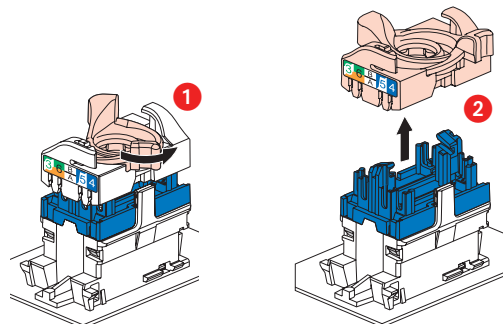
- Single-core: 0.5 to 0.65 mm, AWG 22 to 25

- Multicore: AWG 26

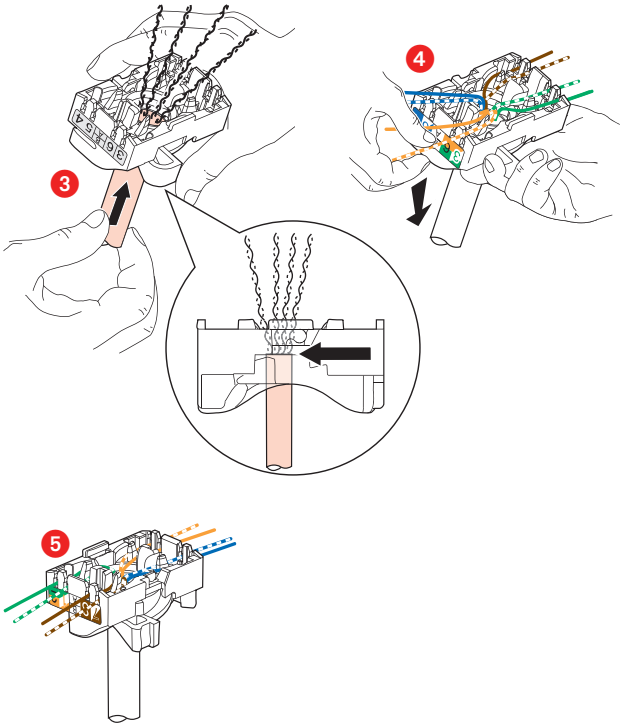
- Polyethylene conductor insulation: max. insulation Ø: 1.58 mm

Number of wires to be connected per connection: 1

RJ45 connectors are equipped with a locking nut. They do not require a special tool and can be re-wired if a mistake is made.



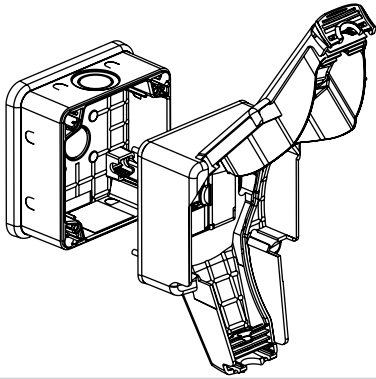
This system makes it easy to spread pairs before fitting them onto the connector.



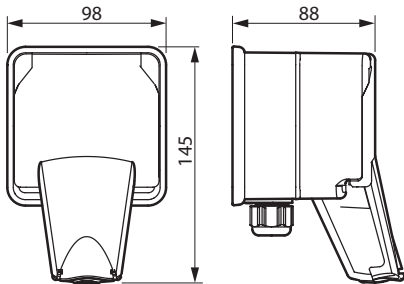
Spreading the cables allows you to ensure that a pair-breakage distance of 13 mm is kept between each pair.
Spreading pairs at 90° to the cable ensures the best possible performance.

7. ASSEMBLY

The front part (cover mechanism) is screwed onto the box using 4 coarse pitch screws (minimum tightening torque for IP 66: 0.5 Nm).



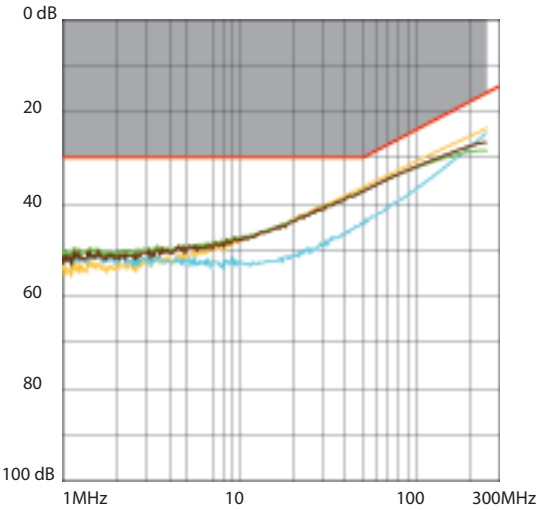
8. DIMENSIONS



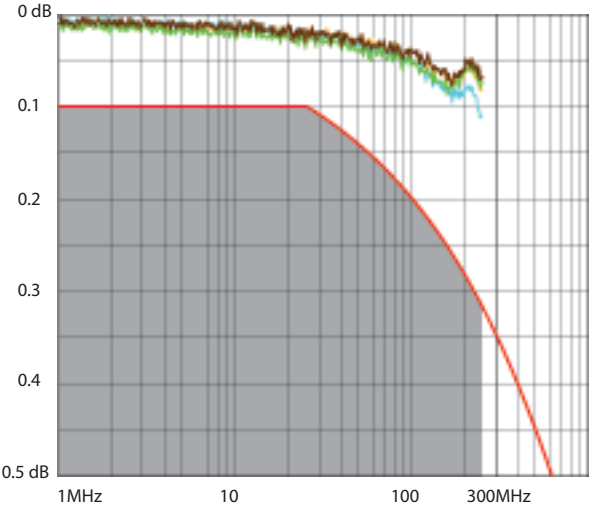
9. PERFORMANCE

9.1 Performance of components (RJ45 connectors)

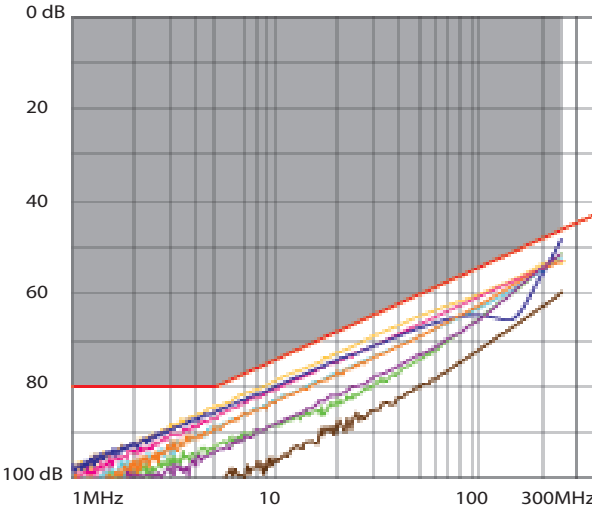
Return loss



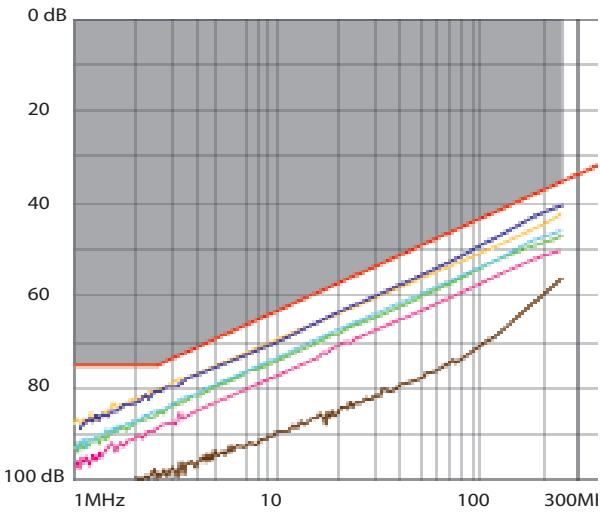
Attenuation



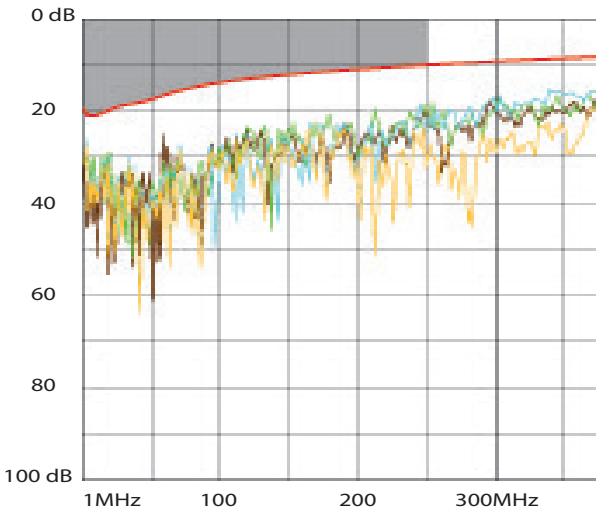
NEXT (Near end Crosstalk Attenuation)



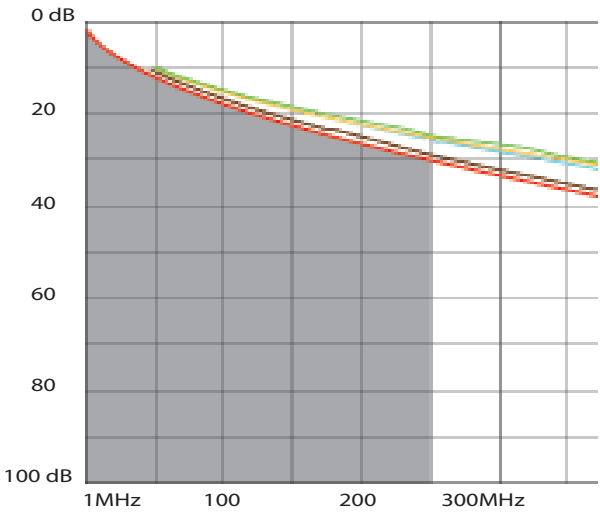
FEXT (Far end Crosstalk Attenuation)



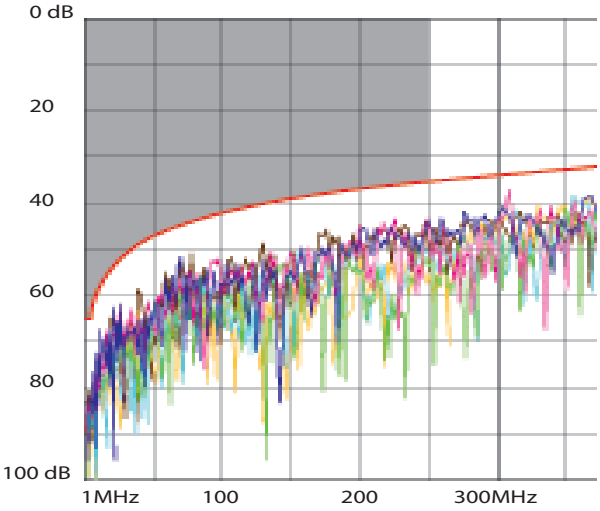
9.2 Performance of permanent link with F/UTP cable
Return loss



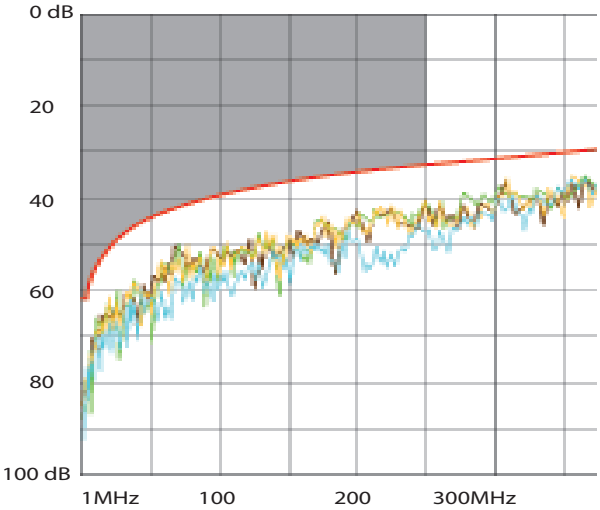
Attenuation



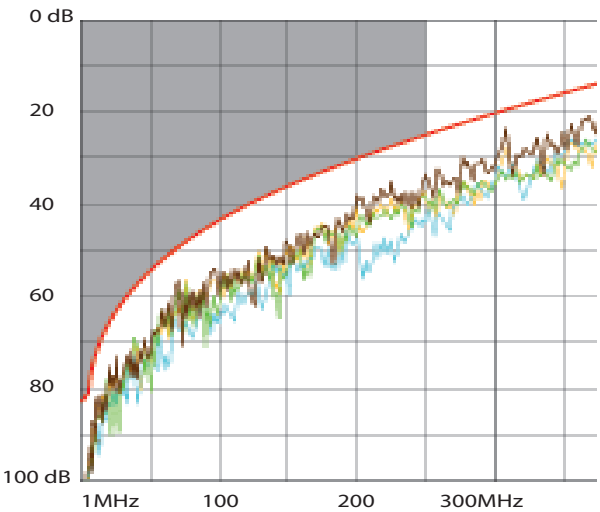
NEXT (Near end Crosstalk Attenuation)



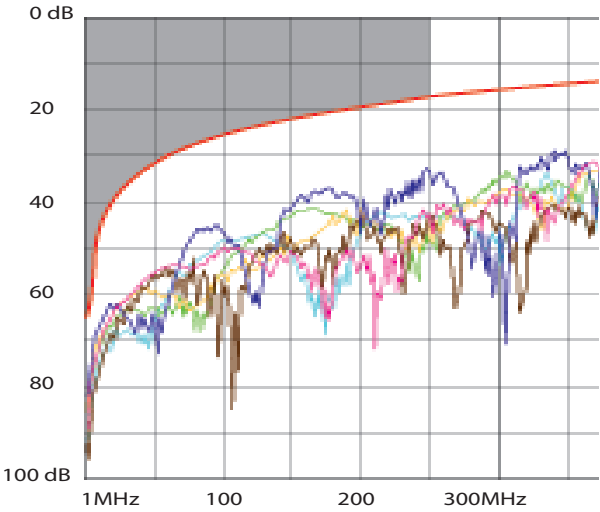
PS NEXT (Power Sum NEXT)



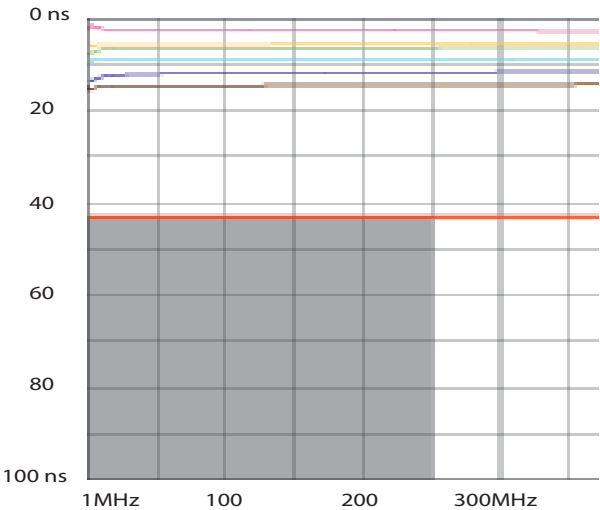
ACR (Attenuation to Crosstalk Ratio)



ELFEXT (Equal Level Far End Crosstalk Attenuation)



Delay skew



10. STANDARDS AND APPROVALS

Conforming to standards: ISO/IEC 11801 Ed2 and Amd.
 CENELEC EN 50173-1 2007
 ANSI/TIA 568.2-D
 IEC 60603-7 series
 IEEE 802.3bt : PoE++