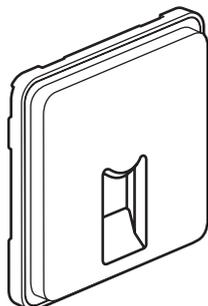


Soliroc™ - IK 10 vandalproof Cat. 6 FTP RJ 45 socket

Cat. No(s): 778 91



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1. USE

Category 6 RJ 45 socket for high speed transmission (Gigabit Ethernet).

The new Soliroc™ IK10 programme guarantees robust impact resistance in environments that are hazardous or unsupervised, whether indoors or outdoors (warehouses, public buildings, motorway services, offices, shops, schools, prisons, etc.).

The 5 commitments of the SOLIROC range.

Security: the IK10 rating (20 joule impact force) guarantees optimal resistance and protection against vandalism. It is impossible to tear off a SOLIROC switch due to the use of four zamak sealing plugs on the plate (removable only by drilling).

Reliability: the IP55 rating guarantees a long useful lifetime whether indoors or outdoors. All external parts are made of zamak for optimal robustness.

Practicality: the plate is deliberately thin, thereby limiting the amount of possible grip and reducing the risk of attempted tear-off. There is minimal space between parts, guaranteed by the IP5X rating (impenetrable by solid bodies greater than 1 mm in diameter and protected against dust).

Installation: Depends on the nature of the building. We recommend using 50 mm-deep multi-material or concrete BATIBOX mounting boxes (40 mm accepted).

To guarantee the best tear-off resistance:

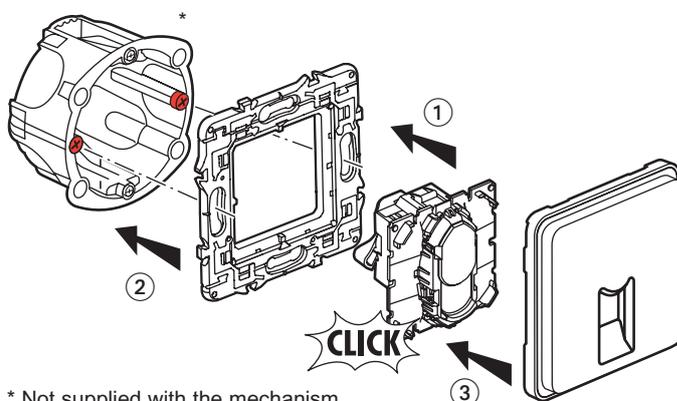
- Attach the SOLIROC plates using 4 standard screws (4 mm diameter, 40 mm length).
- Select wall plugs according to the nature of the walls. For concrete walls, we recommend expanding nylon wall plugs (6 mm diameter, useful length 40 mm).

Quality control: factory inspection according to ISO 9001/9002 procedures.

2. RANGE

	Designation	Number of modules	FTP	Weight (g)
	Cat. 6 FTP RJ 45 socket	2	 778 91	110

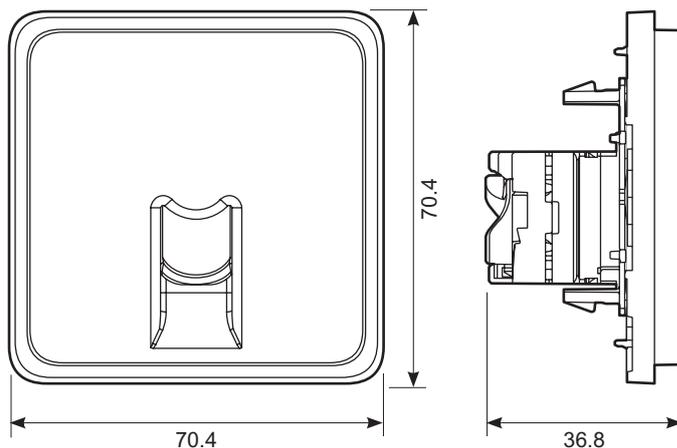
3. INSTALLATION



* Not supplied with the mechanism

- 1 - Clip the rear of the mechanism onto the support frame
- 2 - Screw the mechanism/support frame assembly to the flush-mounting box.
- 3 - Clip the plate onto the support frame.

4. OVERALL DIMENSIONS

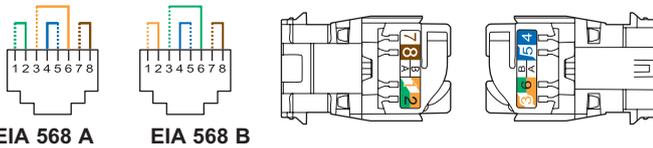


Soliroc™ - IK 10 vandalproof Cat. 6 FTP RJ 45 socket

Car. No(s): 778 91

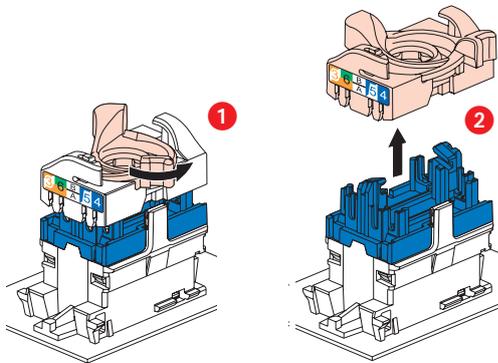
5. USUAL CONNECTION OF RJ 45S

Accepts the following cable connectors:
RJ 11 (4 contacts), RJ 12 (6 contacts), RJ 45 (9 contacts).
Double colour code EIA - TIA 568 A and B on terminals:
- UTP 8 contacts
- FTP 9 contacts
- STP 9 contacts 360° screen.

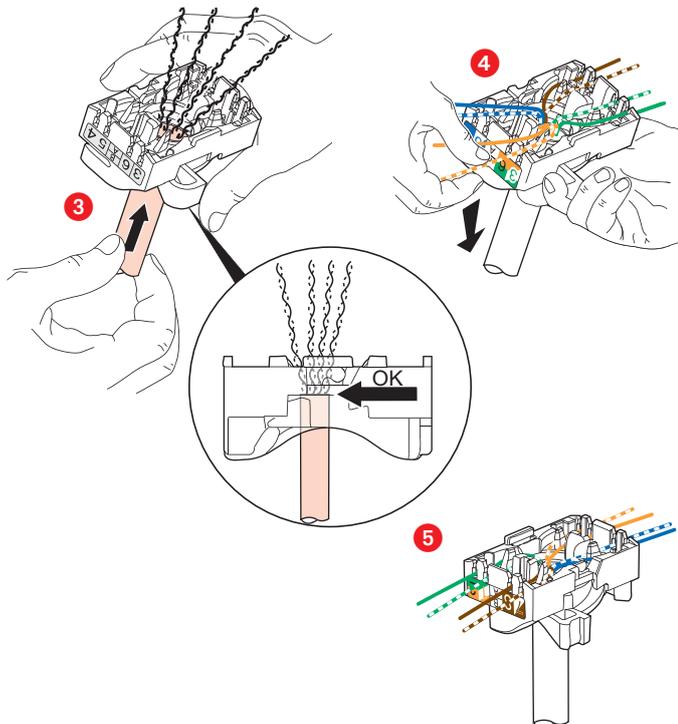


Conductors supported:
- Single-wire: 0.5 to 0.65 mm, AWG 22 to 25
- Multiple-wire: AWG 26
- Polyethylene conductor insulation: max Ø with insulation 1.58 mm

RJ 45 connectors are equipped with a locking nut that does not require the use of a specific tool and which enables re-cabling in the event of error.

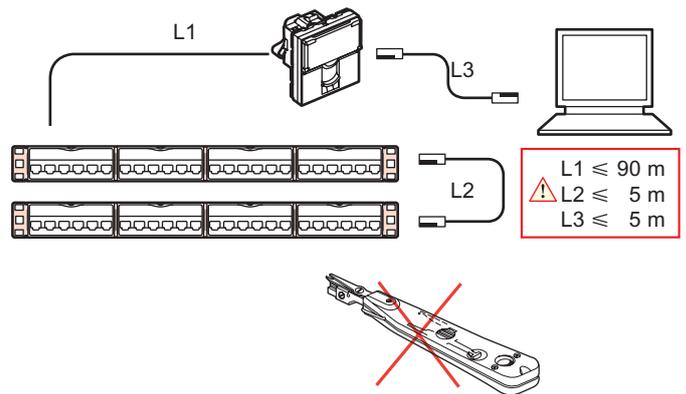


This system allows the wire pairs to be spread easily before mounting them on the connector.



Spreading cables ensures that each pair is separated by the specified 13 mm.
Spreading pairs by 90° in relation to the cable ensures optimum performance.

6. CONNECTION



7. TECHNICAL CHARACTERISTICS

7.1 Mechanical characteristics

Max. number of connections and disconnections: 5 without refreshing the wiring.
Endurance: 2500 movements (plug insertion/withdrawal).
Impact resistance: IK10
Protection by solid liquid/bodies: IP20

7.2 Material characteristics

Contacts: gold/nickel, minimum thickness of gold > 0.8 µm
Metal parts: bronze, nickel, platinum, gold
Mechanism: grey polycarbonate
Rocker: zamak
Sub-plate made of polycarbonate
Surface treatment: copper plating + acid copper plating + matt nickel plating + approximately 0.1 mm thick chrome plating.
Colour: matt chrome grey.
SEBS sealing membrane.

These devices comply with standard NF EN 62094-1 (2003), degree of severity 850° C for components made of insulating material supporting the current-carrying elements and 650° C for the other components.

7.3 Electrical characteristics

Breakdown voltage ≥ 1000 V
Contact resistance ≤ 20 mΩ
Insulation resistance ≥ 500 MΩ at 100 V DC
Connector tested and guaranteed under PoE restrictions, IEEE 802.3af standard and PoE+, draft standard 802.3at, up to 2500 on-load connections / disconnections.
Tests are carried out with 2 simultaneous PoE+ circuits for a minimum total power of 50 W.

7.4 Climatic characteristics

Storage temperature: - 10° C to + 70° C
Operating temperature: - 5° C to + 40° C

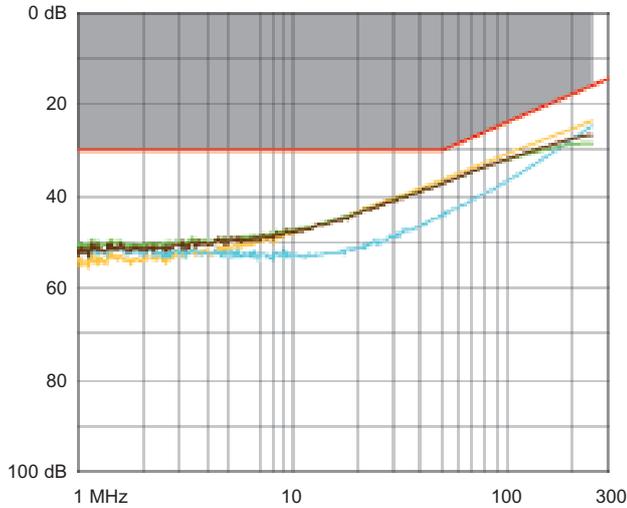
8. STANDARDS AND APPROVALS

Compliant with standards: ISO/IEC 11801 Edition 2
CENELEC EN 50173-1 2007
ANSI/EIA/TIA 568-B.2-1
IEC series 60603-77

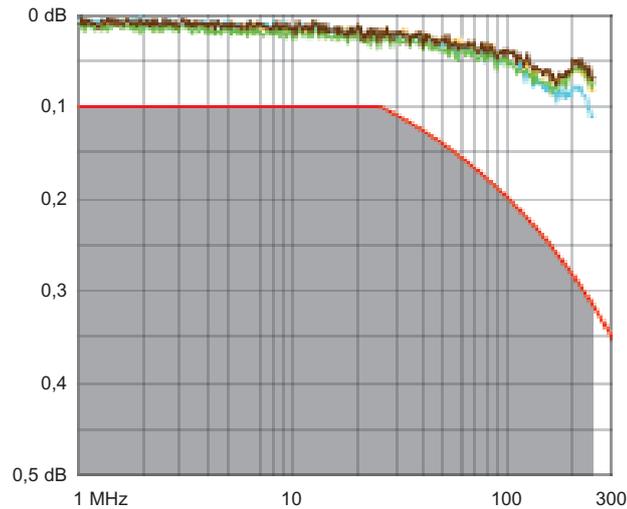
9. PERFORMANCE

9.1 Component performance (RJ 45 connectors)

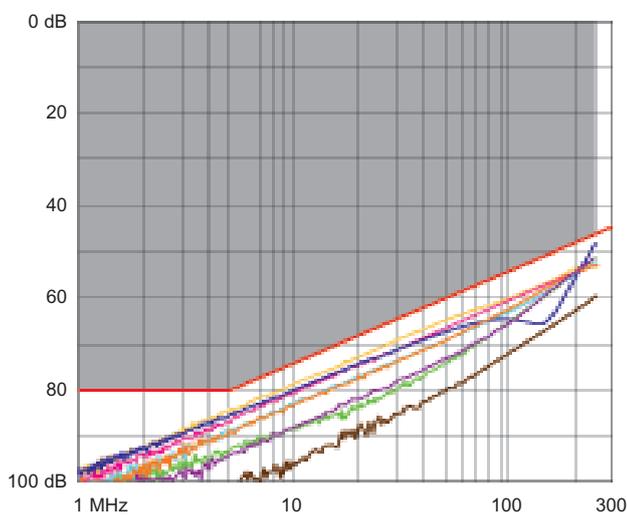
Return loss



Attenuation



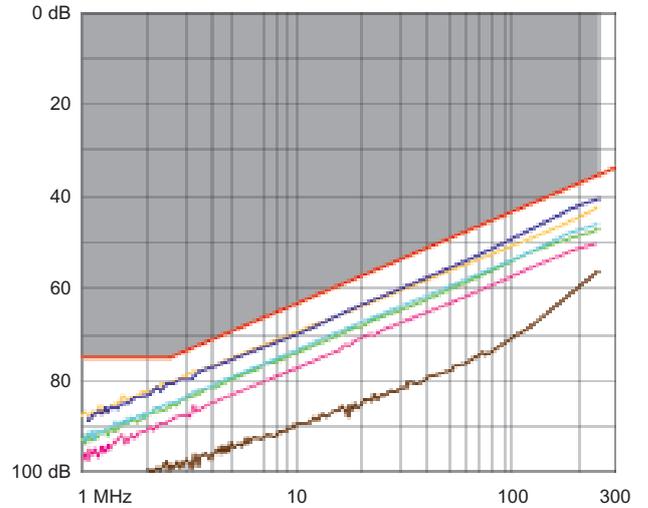
NEXT (Near end Crosstalk Attenuation)



9. PERFORMANCE (cont.)

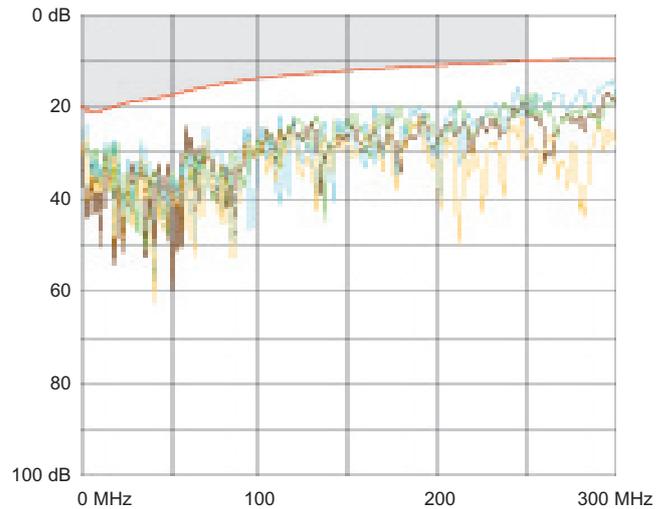
9.1 Component performance (RJ 45 connectors) (cont.)

FEXT (Far end Crosstalk Attenuation)

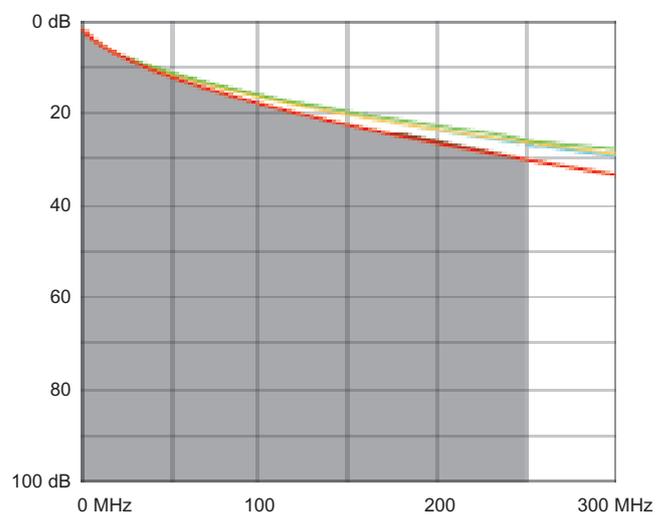


9.2 Performance of permanent link with F/UTP cable

Return loss

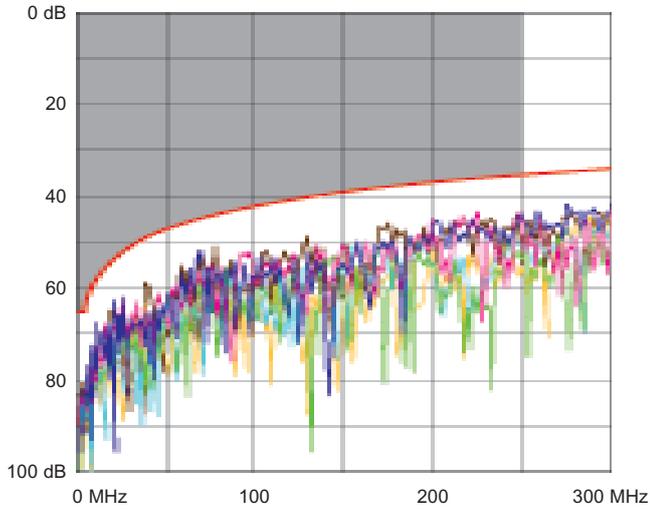


Attenuation

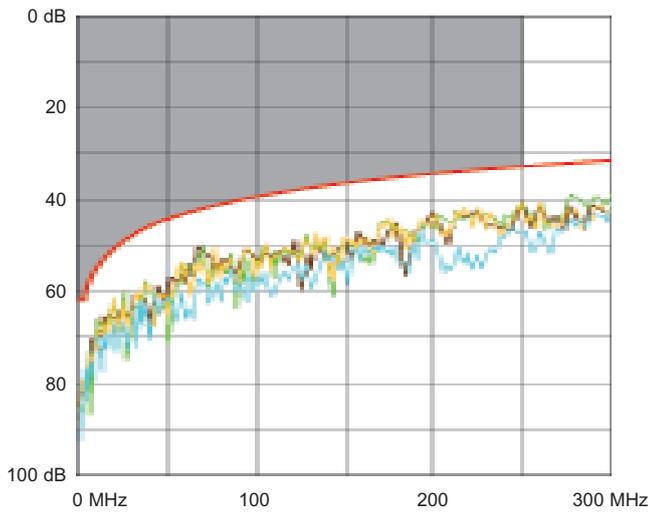


9. PERFORMANCE (cont.)

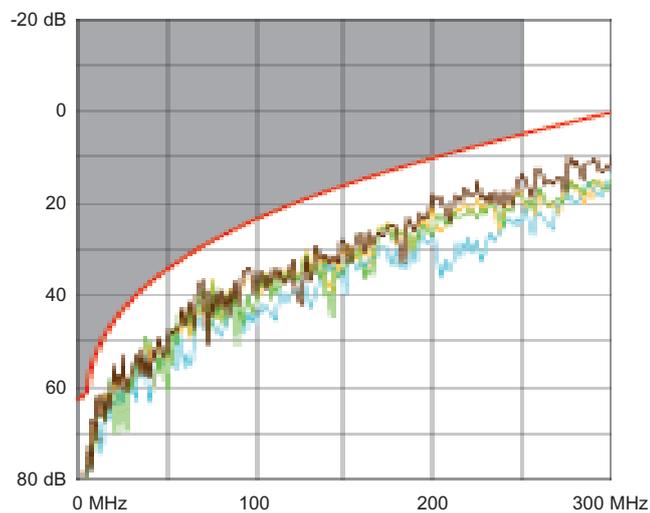
9.2 Performance of permanent link with F/UTP cable (cont.)
 NEXT (Near end Crosstalk Attenuation)



PS NEXT (Power Sum NEXT)

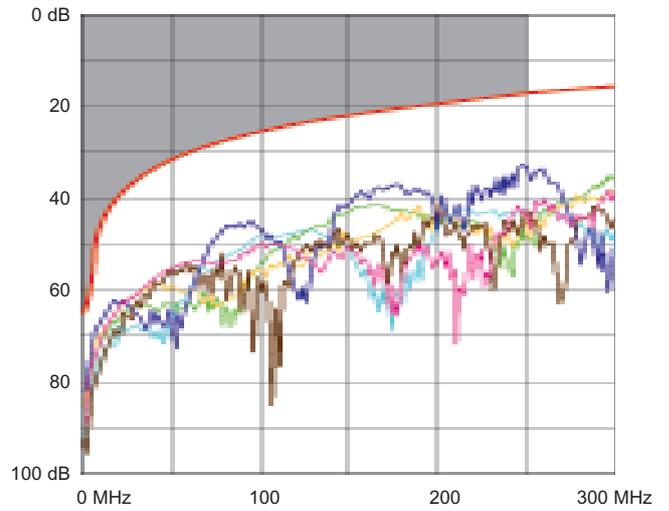


ACR (Attenuation to Crosstalk Ratio)

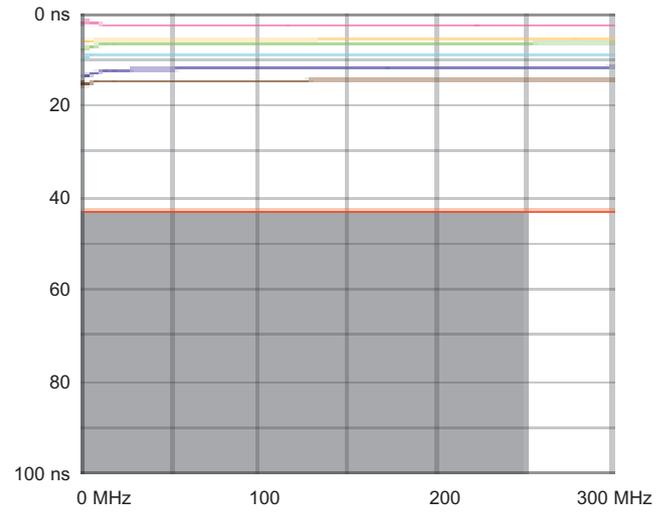


9. PERFORMANCE (cont.)

9.2 Performance of permanent link with F/UTP cable (cont.)
 ELFEXT (Equal Level End Crosstalk Attenuation)



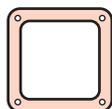
Delay skew



10. ACCESSORIES

10.1 Foam seals

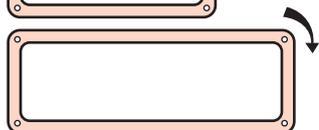
Material: EPDM (Ethylene, Propylene, Diene, Monomer).
 Compensates for major wall defects.



778 85
 1-gang



778 86
 2-gang (horizontal/vertical)

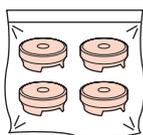


778 87
 3-gang (horizontal/vertical)

10.2 Sealing plug

Spare plugs delivered in bags of 4, with 5 bags to a box and 10 boxes to a carton.

778 96



10.3 Surface mounting frames

Material: polyester

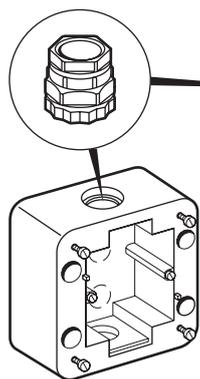
Max depth: 38 mm

ISO 20 cable glands can be mounted: Cat. No. 968 03 (+ nut 968 43)
 and Cat. No. 955 03 (+ nut 979 83)

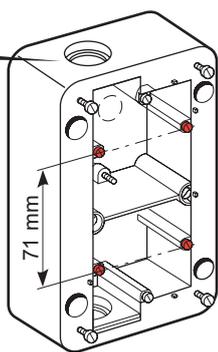
Cable gland

968 03

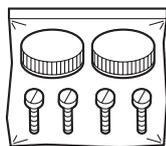
955 03 (metal)



778 90
 1-gang



778 92
 2-gang (horizontal/vertical)



Supplied with a bag containing 2 plugs and 4 screws