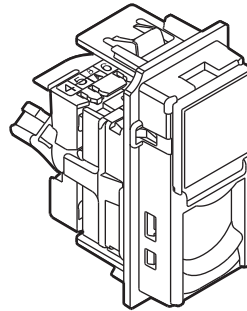


Cat. 6 RJ45 sockets



1. USE

Category 6 RJ 45 socket for high speed transmission (Gigabit Ethernet).
To be equipped with frame and plates.
Fixing with clips.

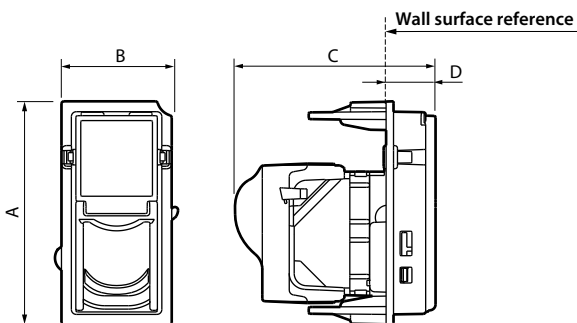
2. RANGE

Category	Cat. Nos.	Related Cover Codes
6 UTP	KW4279C6 KM4279C6 KG4279C6	<input type="checkbox"/> KW07 <input type="checkbox"/> KM07 <input type="checkbox"/> KG07
6 FTP	KW4279C6F KM4279C6F KG4279C6F	<input type="checkbox"/> KW07 <input type="checkbox"/> KM07 <input type="checkbox"/> KG07
6 STP	KW4279C6S KM4279C6S KG4279C6S	<input type="checkbox"/> KW07 <input type="checkbox"/> KM07 <input type="checkbox"/> KG07

Colour code:

- White
- Sand
- Black

3. OVERALL DIMENSIONS (mm)

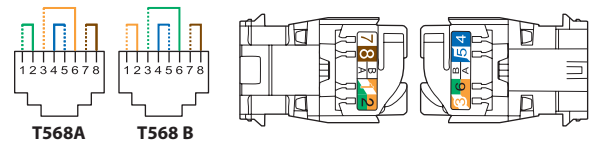


A	B	C	D
45	22	41	10

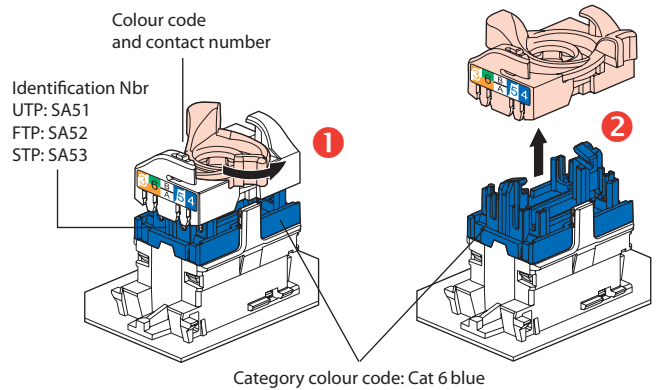
4. CONNECTION

Accepts the following cable connectors:
RJ 11 (4 contacts), RJ 12 (6 contacts), RJ 45 (9 contacts).

Double colour T568A and T568B on terminals:
UTP 8 contacts
FTP 9 contacts
STP 9 contacts 360° screen



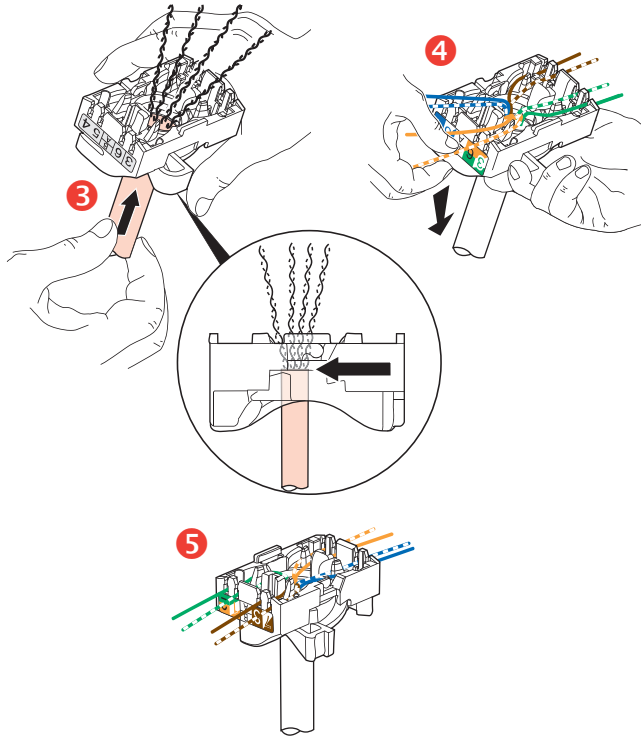
Conductors supported:
Solid/stranded: 0.4 to 0.65 mm, AWG 22 to 26.
Polyethylene conductor insulation: max. Ø 0.85 to 1.7 mm on insulation.
RJ 45 connectors are equipped with a locking nut that does not require the use of a specific tool and which enables re-wiring in the event of error.



Cat. 6 RJ45 sockets

4. CONNECTION (continued)

This system allows you to spread pairs before fitting them onto the connector.



Spreading the cables ensures 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.

5. TECHNICAL CHARACTERISTICS

■ 5.1 Mechanical characteristics

Impact resistance: IK 03
Penetration against solid bodies and liquids: IP 20
Max. number of connections and disconnections: 5 without refreshing the wiring.
Endurance: 2500 movements (plug insertion/withdrawal).

■ 5.2 Material characteristics

Contacts: gold/nickel, thickness of gold > 0.8 µm minimum
Metal parts: bronze, nickel, platinum, gold
Polycarbonate PBT
For the STP products the body and the spreader are made of metal alloy with copper/nickel coating.

Material: ABS for cover plates
Colour: White - Tech - Anthracite
Halogen-free
UV-resistant

Self-extinguishing:

850°C/30 s for insulating components holding live parts in place
650°C/30 s for other insulating components

■ 5.3 Electrical characteristics

Breakdown voltage ≥ 1000 V
Contact resistance ≤ 20 M Ω
Insulation resistance ≥ 500 M Ω at 100 VDC
Tested and independently certified to comply with IEC 60512-99-001 and IEC 60512-99-002 for PoE support up to 90 W (Type 4).

■ 5.4 Climate characteristics

Storage temperature: - 10°C to + 70°C
Usage temperature: - 10°C to + 60°C

6. MAINTENANCE

Clean the surface with a cloth.

Do not use: acetone, tar-removing cleaning agents or trichloroethylene.

Caution: Always test before using other special cleaning products

7. STANDARDS AND APPROVALS

Connectors are compliant to requirements for the following remote powering applications IEEE 802.3af, IEEE 802.3at, IEEE 802.3bt: "Power over Ethernet", Types 1 to 4, up to 90 W.

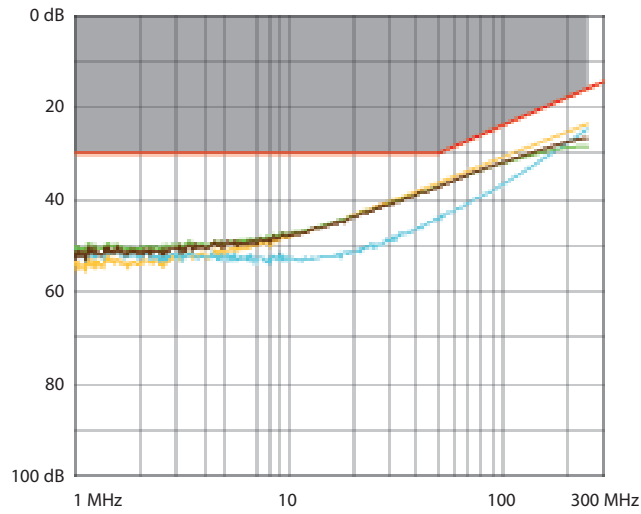
Comply with installation and production standards.
See e-catalogue.

Cat. 6 RJ45 sockets

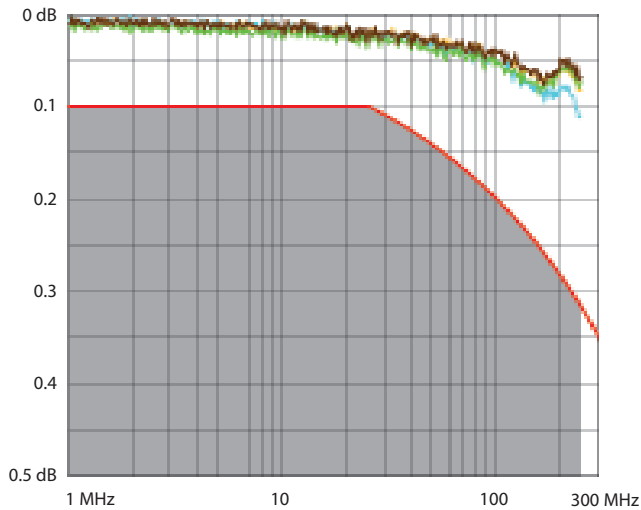
8. PERFORMANCE

■ **8.1 Component performance (RJ 45 connectors)**

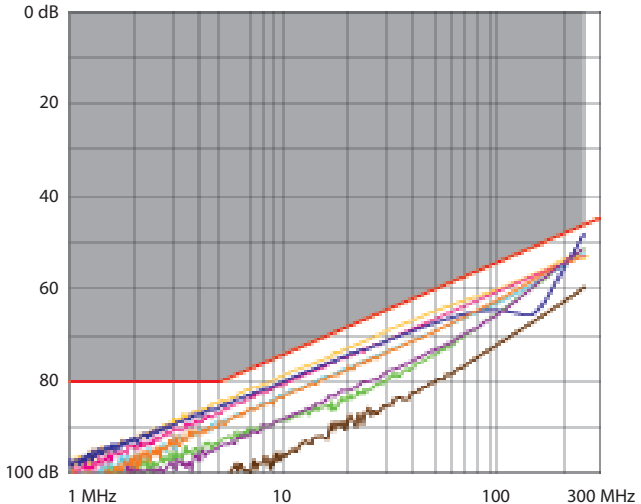
Return loss



Attenuation



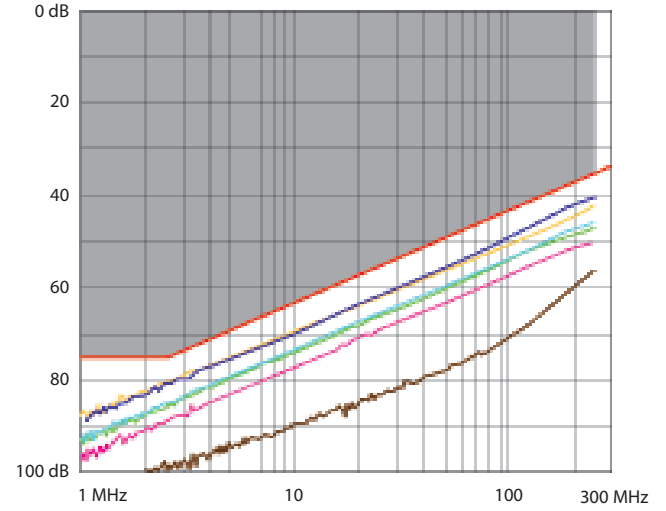
NEXT (Near end Crosstalk Attenuation)



8. PERFORMANCE (Cont.)

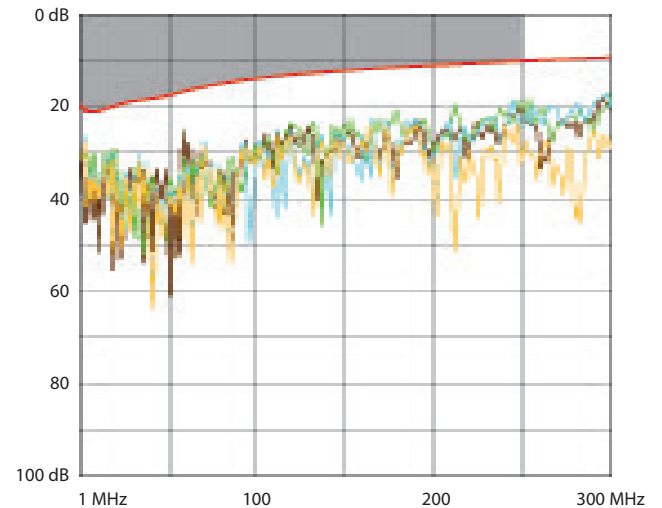
■ **8.1 Component performance (RJ 45 connectors) (cont.)**

FEXT (Far end Crosstalk Attenuation)

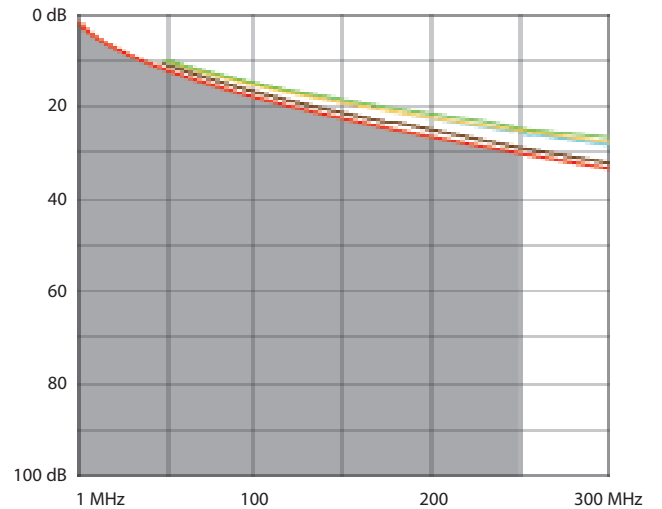


■ **8.2 Performance of permanent link with F/UTP cable**

Return loss



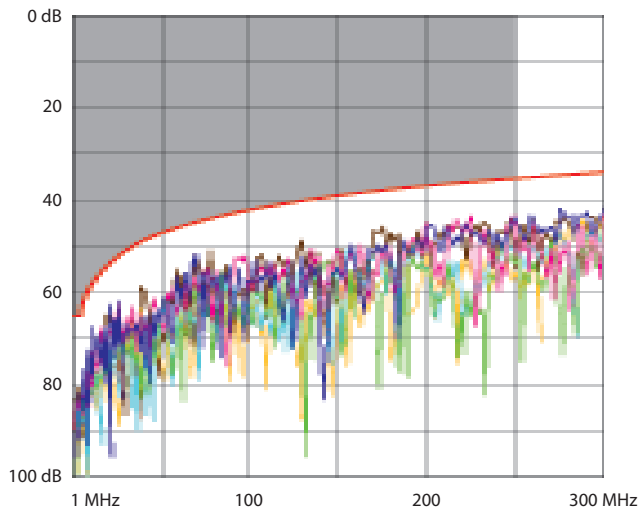
Attenuation



Cat. 6 RJ45 sockets

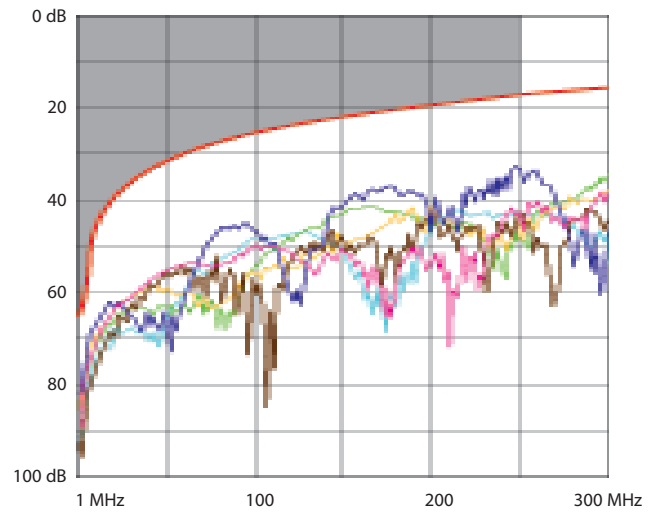
8. PERFORMANCE (Cont.)

■ 8.2 Performance of permanent link with F/UTP cable (Cont.)
NEXT (Near end Crosstalk Attenuation)

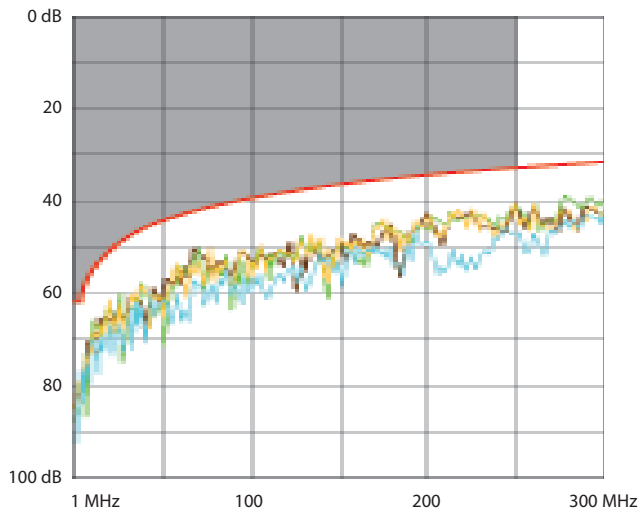


8. PERFORMANCE (Cont.)

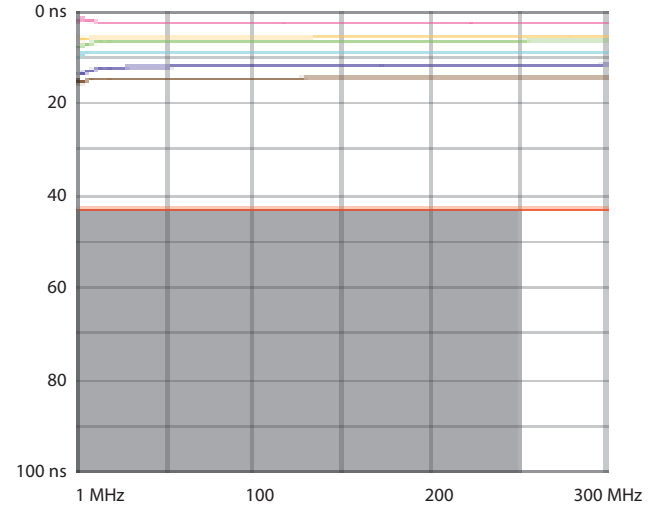
■ 8.2 Performance of permanent link with F/UTP cable (Cont.)
ELFEXT (Equal Level End Crosstalk Attenuation)



PS NEXT (Power Sum NEXT)



Delay skew



ACR (Attenuation to Crosstalk Ratio)

