

1. USE

RJ 45 connectors for data/telephone transmission.
Specially designed for data transmission and telephone communication.
These connectors are very widely used for computer networks with 4-pair cables.

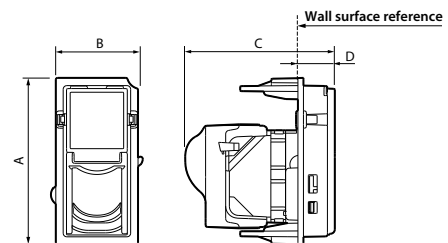
2. RANGE

Category	Cat. Nos.	Related Cover Codes
5E UTP	KW4279CSE KM4279CSE KG4279CSE	<input type="checkbox"/> KW07 <input type="checkbox"/> KM07 <input type="checkbox"/> KG07
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
6A STP	KW4279C6AS KM4279C6AS KG4279C6AS	<input type="checkbox"/> KW07 <input type="checkbox"/> KM07 <input type="checkbox"/> KG07
6A UTP	KW4279C6A KM4279C6A KG4279C6A	<input type="checkbox"/> KW07 <input type="checkbox"/> KM07 <input type="checkbox"/> KG07

Colour code:

- White
- Sand
- Black

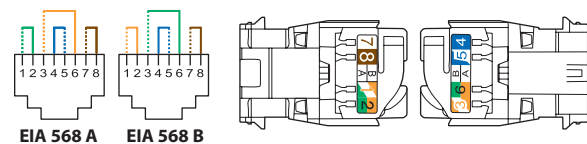
3. OVERALL DIMENSIONS (mm)



Cat. Nos.	A	B	C	D
KW/KM/KG4279CSE	45	22	41	10
KW/KM/KG4279C6	45	22	41	10
KW/KM/KG4279C6F	45	22	41	10
KW/KM/KG4279C6S	45	22	41	10
KW/KM/KG4279C6AS	45	22	41	10
KW/KM/KG4279C6A	45	22	41	10

4. CONNECTION

Tool-free connection.
Takes the following plugs:
RJ 11 (4 contacts), RJ 12 (6 contacts), RJ 45 (9 contacts)

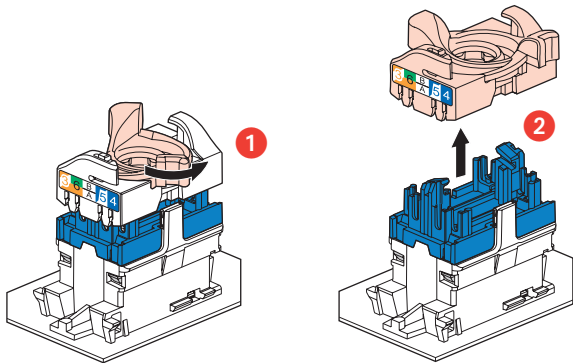


EIA - TIA 568 A and B dual colour code on terminals:

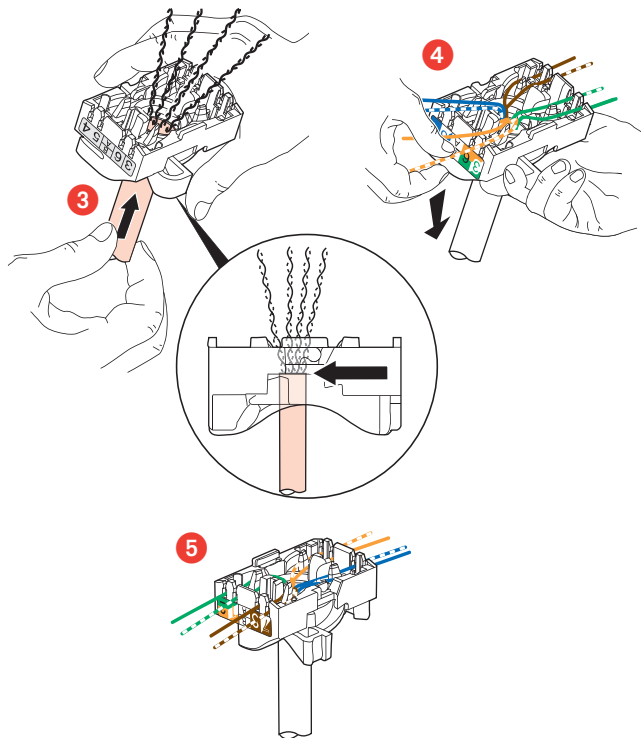
- UTP 8 contacts
 - FTP 9 contacts
 - STP 9 contacts with 360° shielding
- EIA - TIA 568 A and B dual colour code on terminals:
- UTP 8 contacts
 - FTP 9 contacts
 - STP 9 contacts with 360° shielding
- Permitted conductors:
- Single-core: 0.5 to 0.65 mm, AWG 22 to 25
 - Multicore: AWG 26
 - Polyethylene conductor insulation: Ø max. on 1.58 mm insulation

4. CONNECTION (continued)

The RJ 45 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 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 FEATURES

■ 5.1 Protection class

IP: 21 D
IK: 03

■ 5.2 Materials

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 parts holding live parts in place
- 650°C/30 s for other parts made of insulating materials

■ 5.3 Electrical features

Breakdown voltage ≥ 1000 V

Contact resistance ≤ 20 M Ω

Insulation resistance ≥ 500 M Ω at 100 VDC

Connector tested and guaranteed under POE signal stress, standard IEEE 802.3af and POE+, draft standard 802.3at, up to 2500 load connections/disconnections.

Tests are carried out with 2 simultaneous POE+ circuits for a minimum total power of 50 W.

■ 5.4 Climatic features

Storage and usage temperature: - 5°C to + 35°C

6. MAINTENANCE

Clean the surface with a cloth.

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

Attention: An initial test is required for the use of other special maintenance products.

7. STANDARDS AND APPROVALS

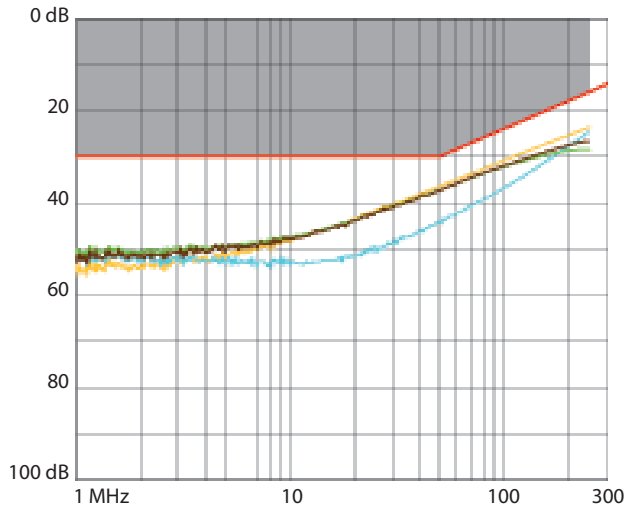
Comply with installation and production standards.

See e-catalogue.

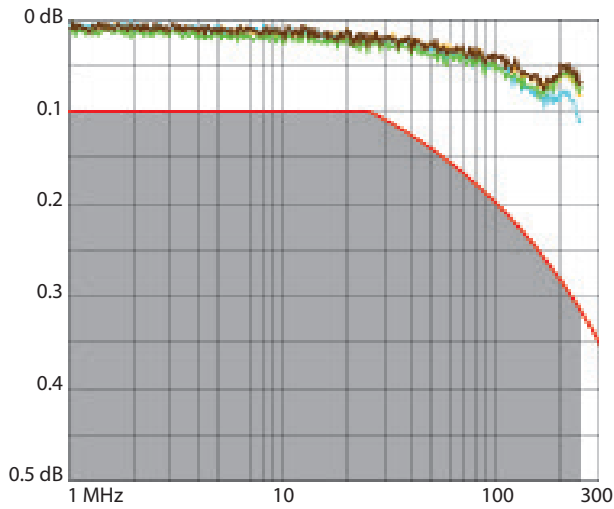
8. PERFORMANCE

■ **8.1 Performance of components (RJ 45 connectors)**

Return loss



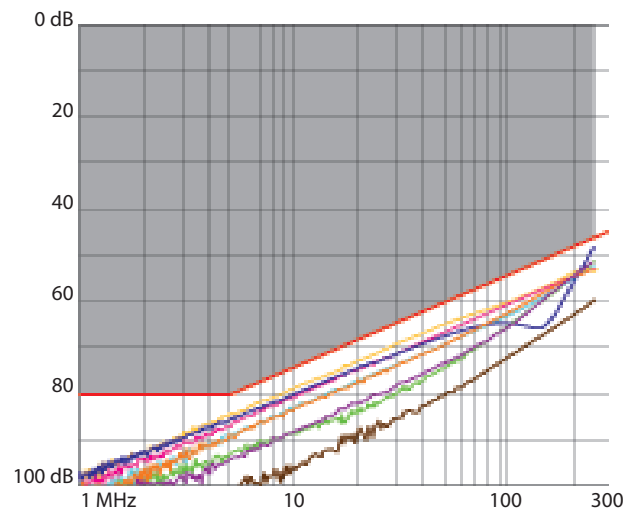
Attenuation



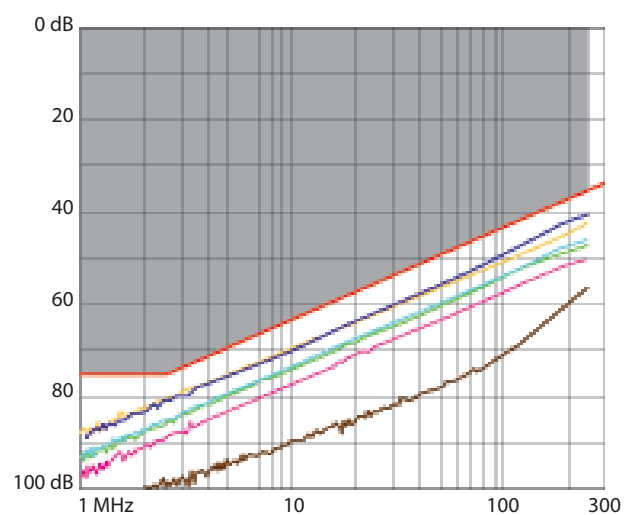
8. PERFORMANCE (continued)

■ **8.1 Performance of components (RJ 45 connectors)**

NEXT (Near end Crosstalk Attenuation)

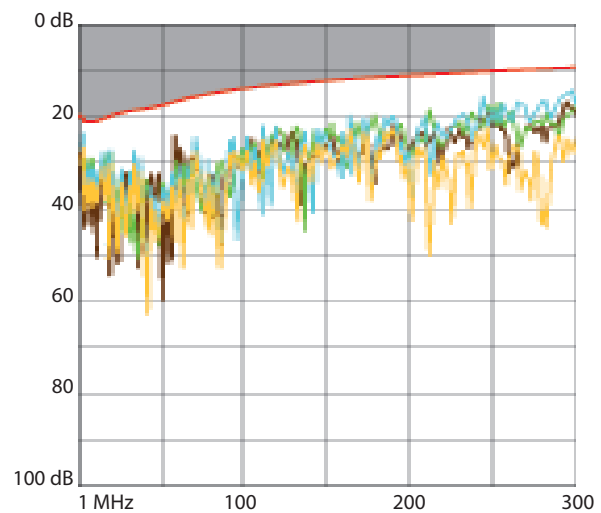


FEXT (Far end Crosstalk Attenuation)



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

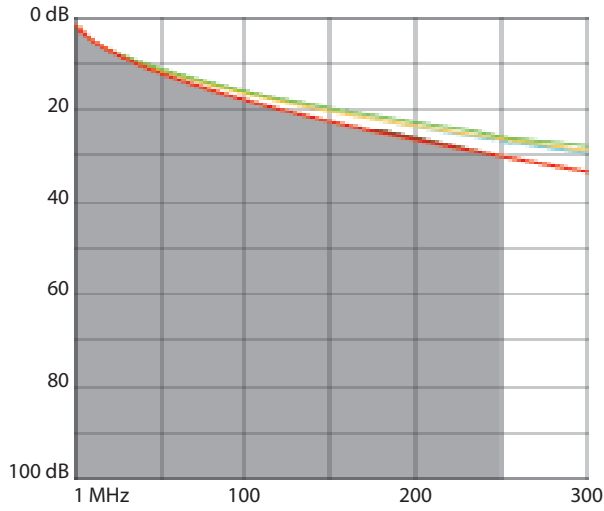
Return loss



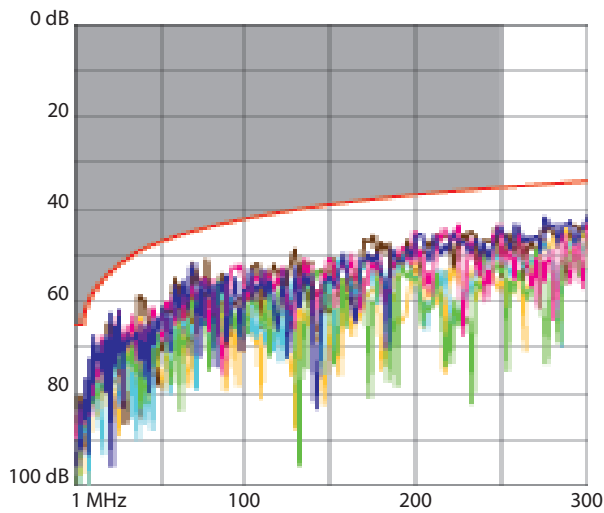
8. PERFORMANCE (continued)

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

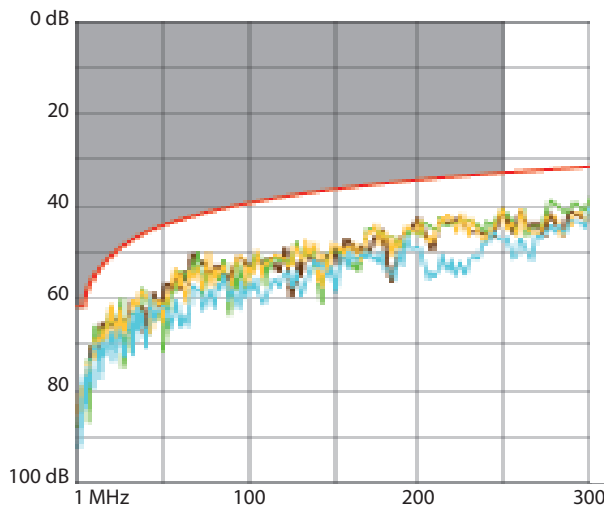
Attenuation



NEXT (Near end Crosstalk Attenuation)



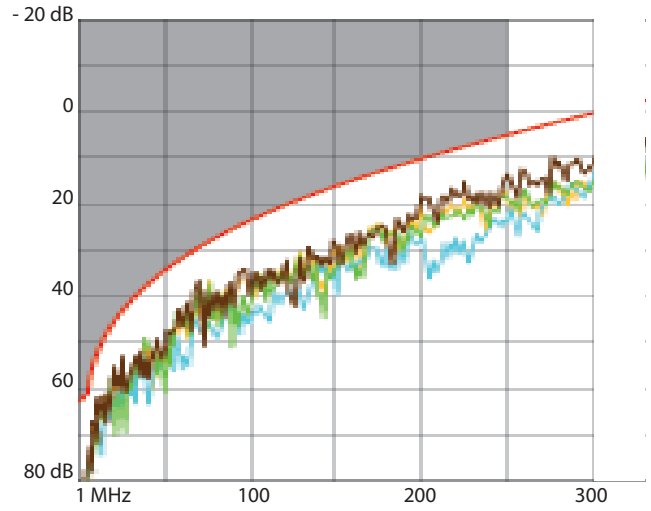
PS NEXT (Power Sum NEXT)



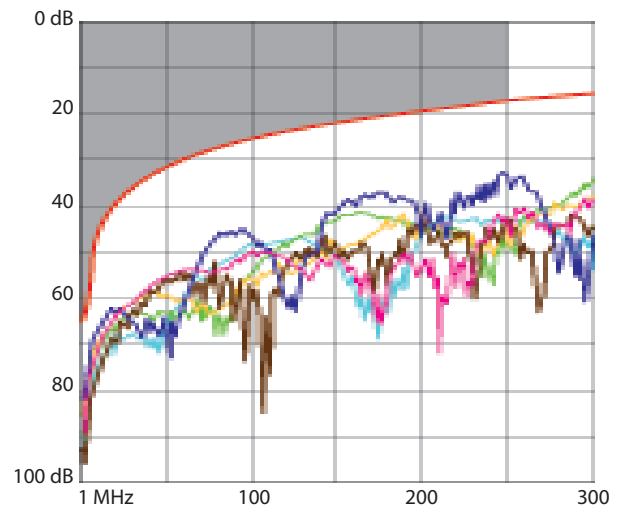
8. PERFORMANCE (continued)

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

Attenuation



NEXT (Near end Crosstalk Attenuation)



Delay skew

