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Classia
RJ 45 socket

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.

Overall dimensions (mm)

Wall surface reference
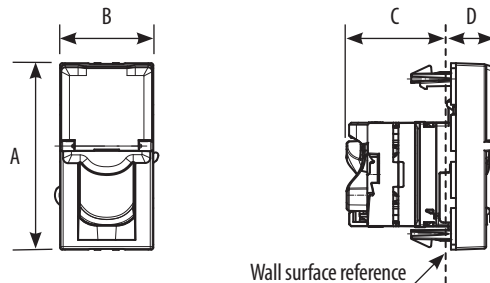
|	A	B	C	D
..4279C..	45	22.5	23.9	12.1

Range

| Designation	Item
RJ45 toolless UTP cat5E	☐ RW4279C5E ■ RG4279C5E
RJ45 toolless UTP cat6	☐ RW4279C6 ■ RG4279C6
RJ45 toolless STP cat6	☐ RW4279C6S ■ RG4279C6S
RJ45 toolless STP cat6A	☐ RW4279C6AS ■ RG4279C6AS

Color code:
☐ **White** colour   ■ **Black** colour

Connection

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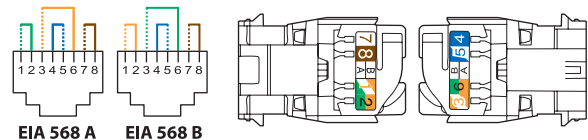

EIA 568 A   **EIA 568 B**

EIA - TIA 568 A and B dual colour code on terminals:
- UTP 8 contacts
- FTP 9 contacts
- STP 9 contacts with 360° shieldingEIA - 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

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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.
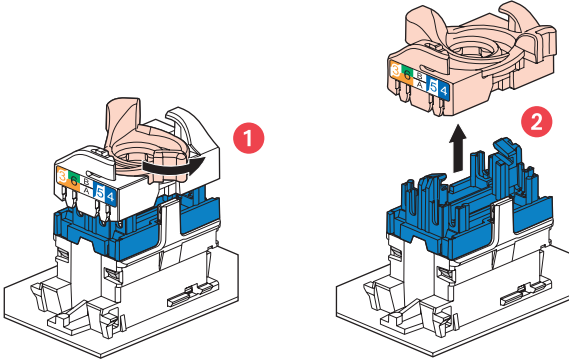
This system allows you to spread pairs before fitting them onto the connector.
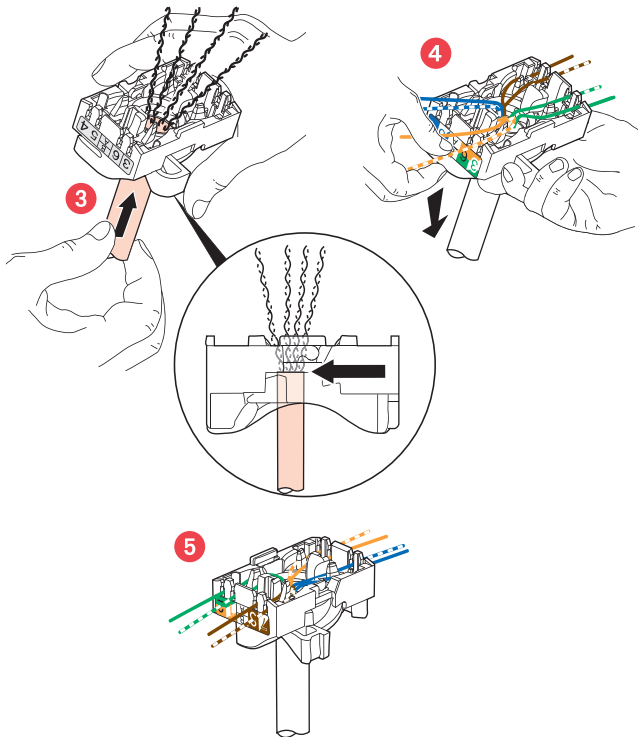
Spreading the cables ensures that a pair-breakage distance of 13 mm is kept between each pair.
Spreading pairs at 90° to the cable ensures the best possible performance.

Technical characteristics

- Protection index
(considering a complete installation, including cover plate)
Penetration by solid bodies/liquid: IP40

- Mechanical characteristics
Impact test: IK 04

- 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

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

- Electrical characteristics
Breakdown voltage ≥ 1000 V
Contact resistance ≤ 20 MΩ
Insulation resistance ≥ 500 MΩ 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.

- Climatic characteristics
Storage temperature: - 10° C to + 70° C
Use temperature: - 5° C to + 35° C

Cleaning

Clean the surface with a cloth.
Do not use acetone, tar-removing cleaning agents or trichloroethylene.

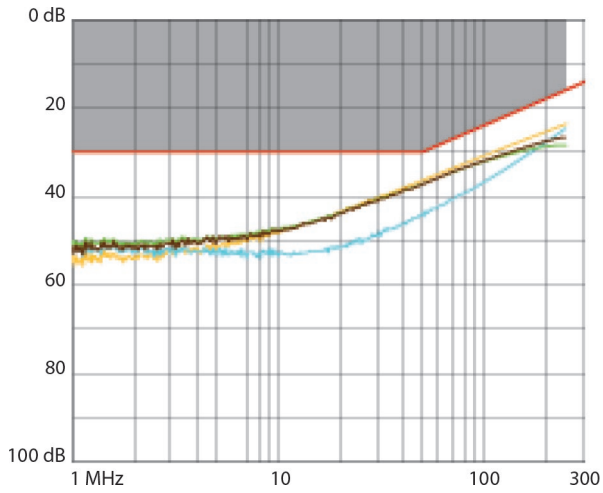**Caution: Always test before using special cleaning products.**

Standards and approvals

Compliance with standards TIA-568-C-2
Refer to e.catalogue.

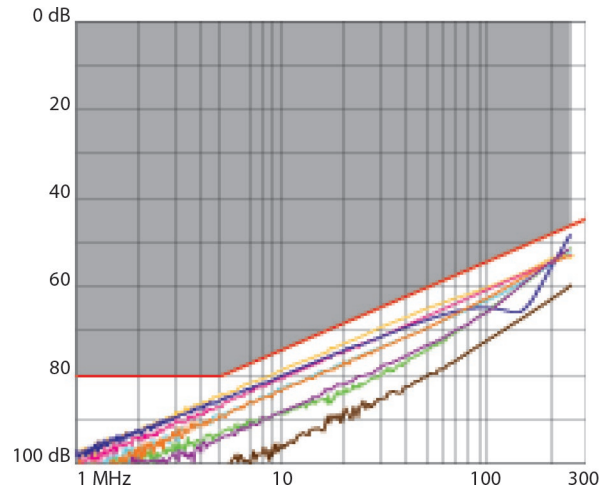## Performance

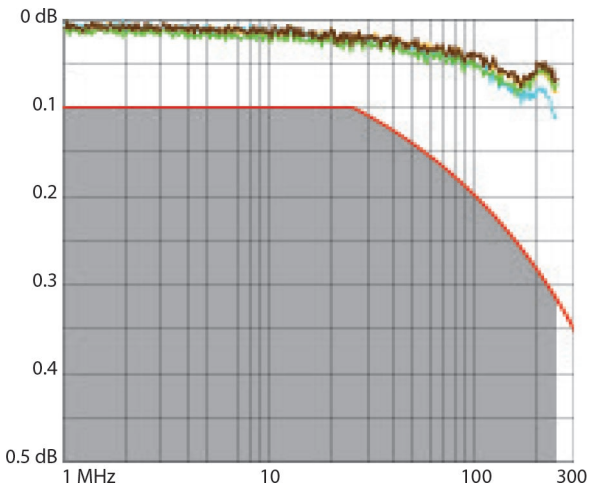**- Performance of components (RJ 45 connectors)**
Return loss

Attenuation

Performance (continued)
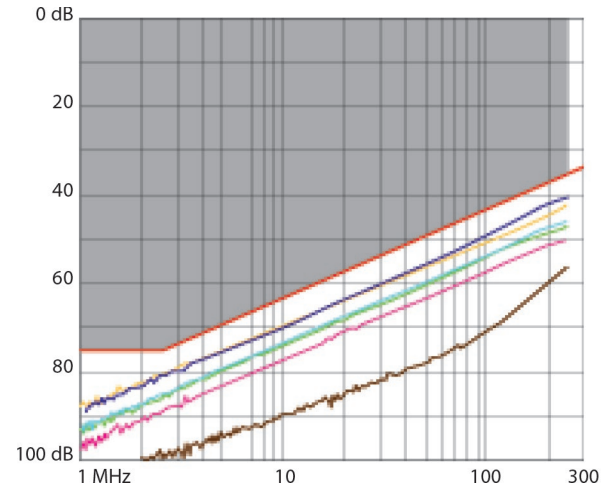
- Performance of components (RJ 45 connectors)
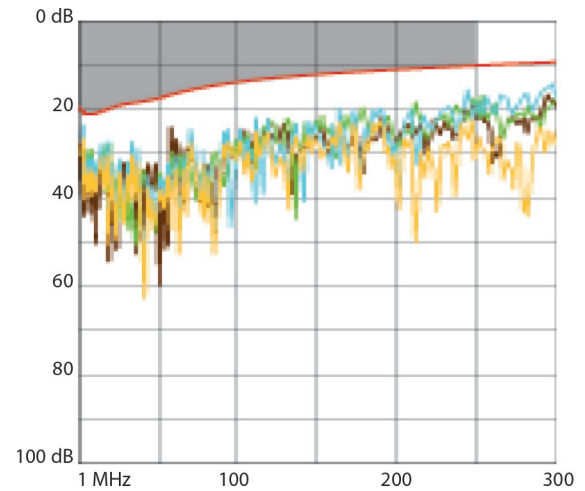NEXT (Near end Crosstalk Attenuation)

FEXT (Far end Crosstalk Attenuation)
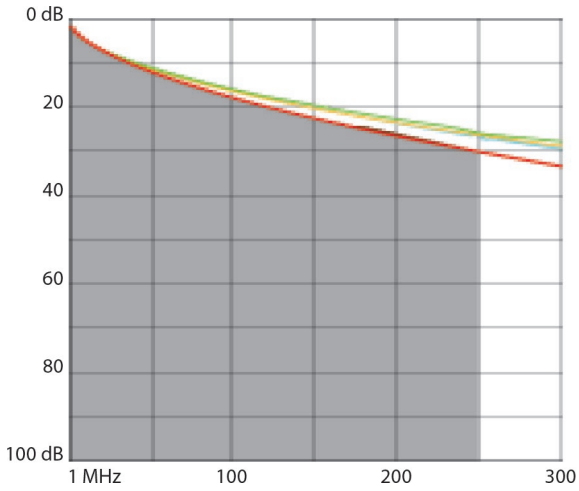

- Performance of permanent link with F/UTP cable
Return loss

Performance (continued)
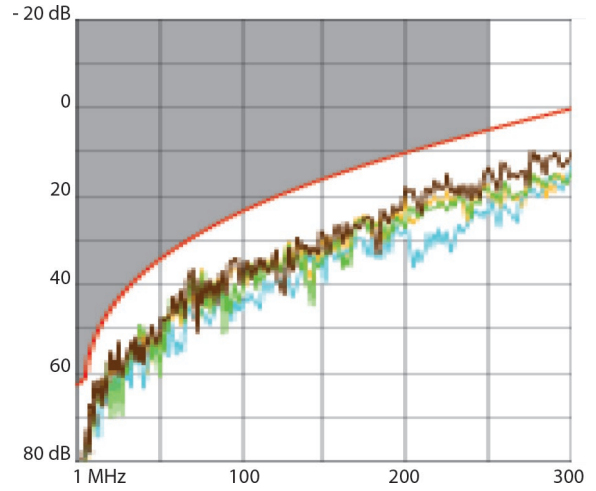
- Performance of permanent link with F/UTP cable
Attenuation

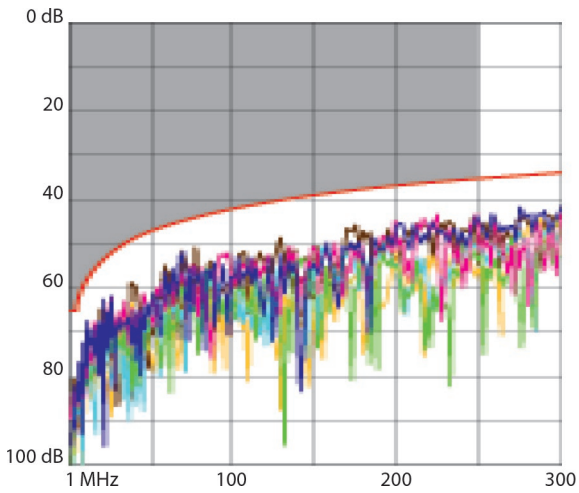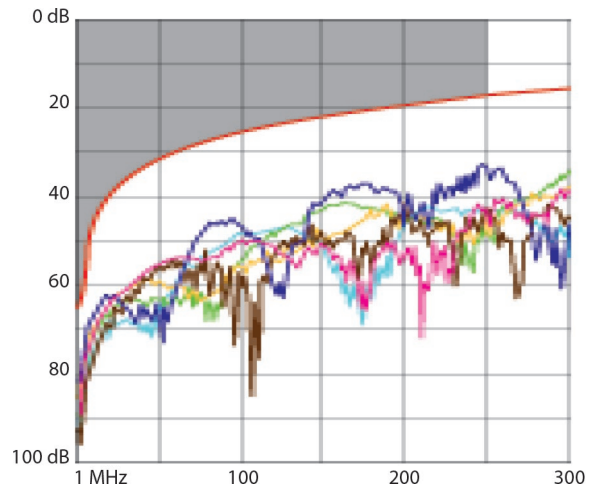NEXT (Near end Crosstalk Attenuation)

PS NEXT (Power Sum NEXT)

Performance (continued)

- Performance of permanent link with F/UTP cable (continued)
Attenuation

NEXT (Near end Crosstalk Attenuation)

Delay skew