Mosaic™
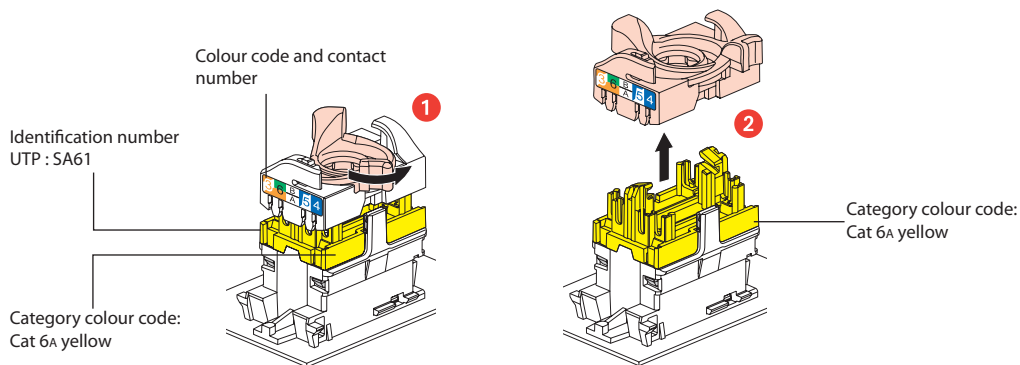**LCS² Cat. 6A UTP RJ 45 socket**
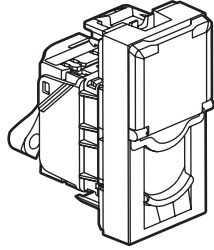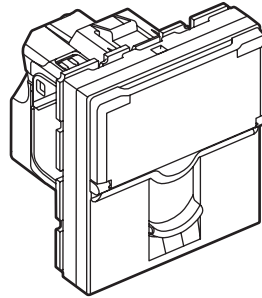
0 765 71

0 765 74

1. USE

Cat. 6A RJ 45 terminal socket for high speed connection to a network.
Enables data transmission at 10 Gbit/s.
Socket is used with U/UTP cables.
The mechanism can be flush-mounted or surface-mounted in 40 mm depth box min.
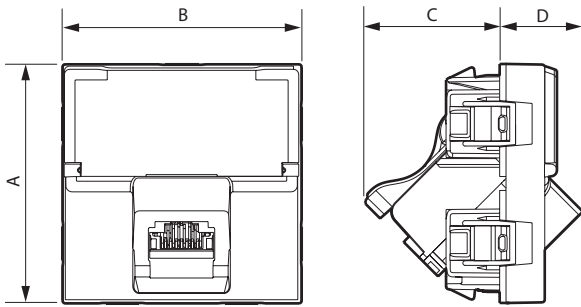To be equipped with frame and plates. Fixing with clips.

2. RANGE

Description	White	Aluminium
Cat. 6A UTP RJ 45 - Metal shielding - 1 module	0 765 71	0 794 71
Cat. 6A UTP RJ 45 - Metal shielding - 1 module - with green shutter	0 765 26	-
Cat. 6A UTP RJ 45 - Metal shielding - 1 module - with orange shutter	0 765 27	-
Cat. 6A UTP RJ 45 - Metal shielding - 2 modules	0 765 74	0 794 74
Cat. 6A UTP RJ 45 - Metal shielding - with controlled access - 2 modules Supplied with 2 keys for 5 sockets - with red shutter	0 765 90	-
Cat. 6A UTP RJ 45 - Metal shielding - with controlled access - 2 modules Supplied with 2 keys for 5 sockets	0 765 09	-

Presentation

Colour code and contact number

Identification number
UTP : SA61

①

Category colour code:
Cat 6A yellow

②

Category colour code:
Cat 6A yellow

Category colour code:
Cat 6A yellow

3. DIMENSIONS (mm)

References	A	B	C	D
0 765 26/27/71 - 0 794 71	45	22.5	24	11
0 765 74 - 0 794 74	45	45	24	11
0 765 90	45	45	24	10
0 765 09	45	45	25.5	15.5

4. CONNECTION

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

Double colour code T568A and T568B on terminals:
STP 9 contacts 360° screen



T568A   **T568B**
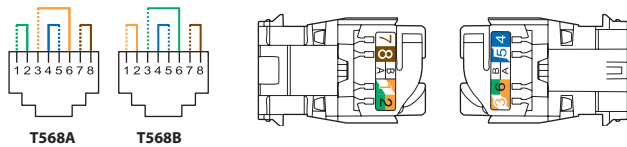
Conductors supported:

- Solid/Stranded : 0.4 to 0.65 mm, AWG 26 to 22

- Polyethylene conductor insulation: 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-cabling in the event of error.
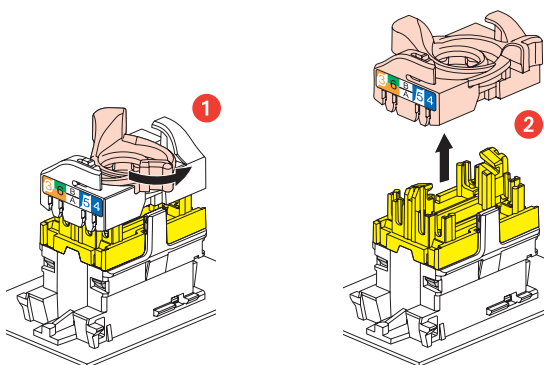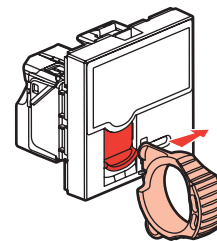

4. CONNECTION *(continued)*

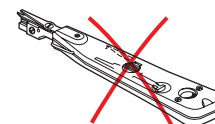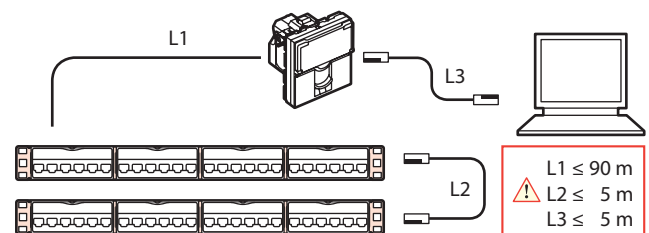This system allows the wire pairs to be spread easily before mounting them on the connector.
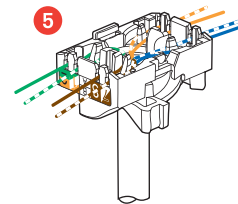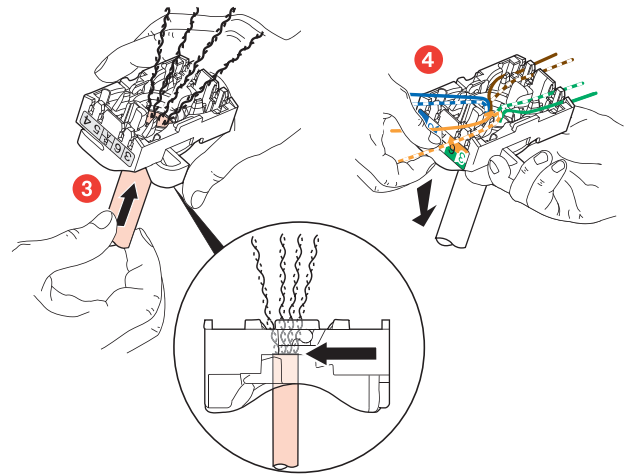
Spreading cables ensures that each pair is separated by the specified 13 mm.
Spreading pairs by 90° in relation to the cable ensures optimum performance.

5. OPERATION

0 765 90 unlocking

Installation

L1 ≤	90 m
L2 ≤	5 m
L3 ≤	5 m

6. TECHNICAL CHARACTERISTICS

■ 6.1 Mechanical characteristics
Impact resistance: IK 03
                IK 04 for 1 module
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).

■ 6.2 Material characteristics
Contacts: Gold/nickel, minimum thickness of gold > 0.8 µm
Metal parts: Bronze, nickel, platinum, gold
For STP products the body and the spreader are made of metal alloy with a copper-nickel coating.

Base: PC

Cover plate: PC
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

■ 6.3 Electrical characteristics
Breakdown voltage ≥ 1000 V
Contact resistance ≤ 20 mΩ
Insulation resistance ≥ 500 mΩ 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).

■ 6.4 Climate characteristics
Storage temperature: - 10°C to + 70°C
Operating temperature: - 10°C to + 60°C

7. CLEANING

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

Resistant to the following products: hexane (NF C 61-314), methylated spirit, soapy water, diluted ammonia, bleach diluted to 10%, window-cleaning products, pre-impregnated wipes.

Caution: Always test before using other special cleaning products.

8. STANDARDS AND APPROVALS

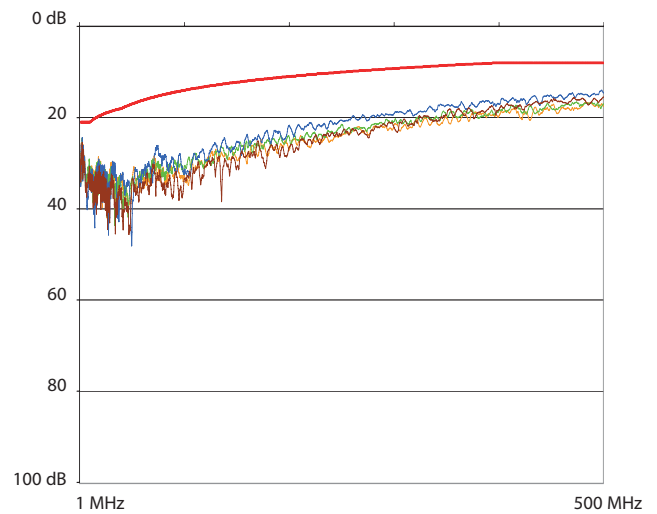Conform to standards ISO/IEC 11801 Ed. 3.0, amendment 2, EN 50173-1 and TIA/EIA 568 C.

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.
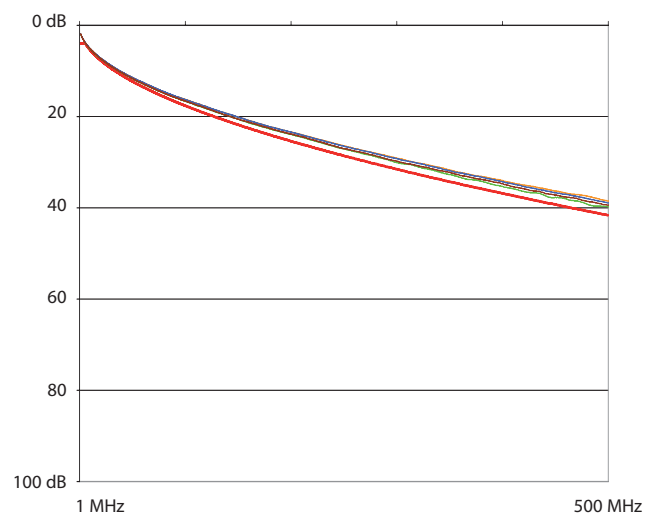
9. PERFORMANCE

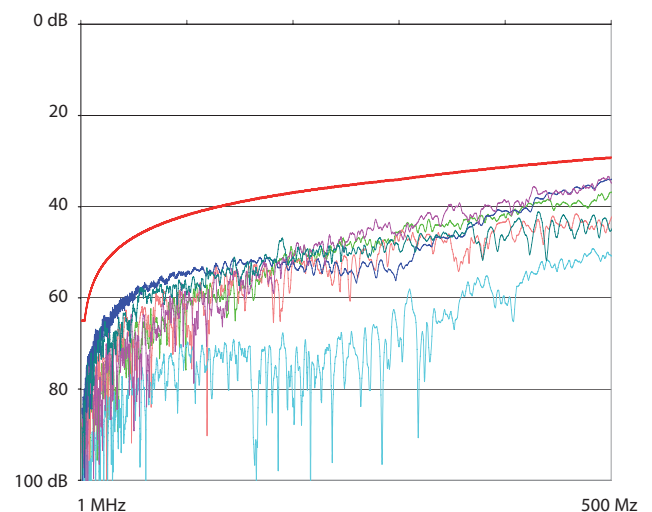### ■ 9.1 Performance of permanent link with cat. 6A U/UTP cable
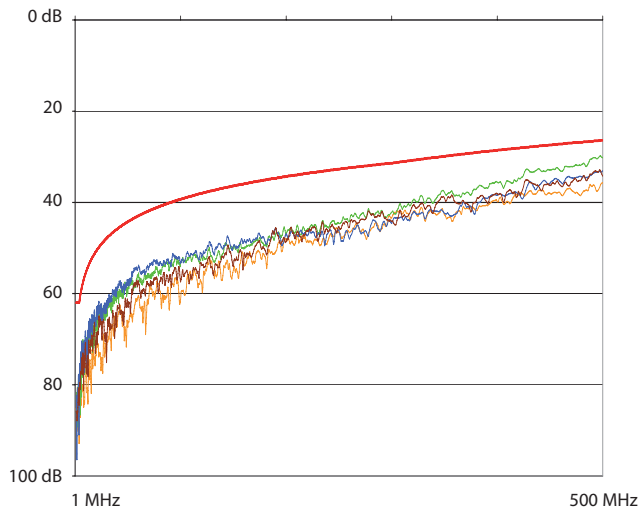Return loss
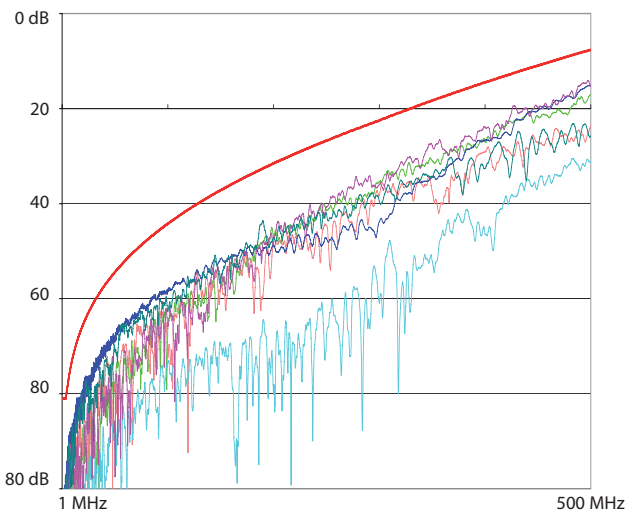

Attenuation

NEXT (Near end Crosstalk Attenuation)

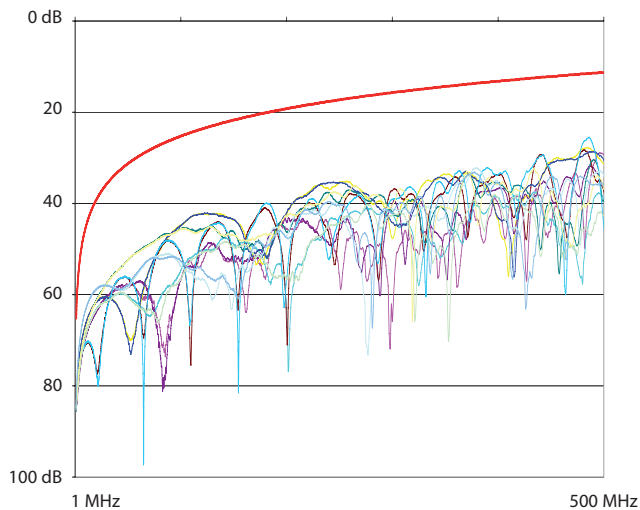## 9. PERFORMANCE *(cont.)*

■ 9.1 Performance of permanent link with cat. 6A U/UTP cable *(cont.)*
PS NEXT (Power Sum NEXT)
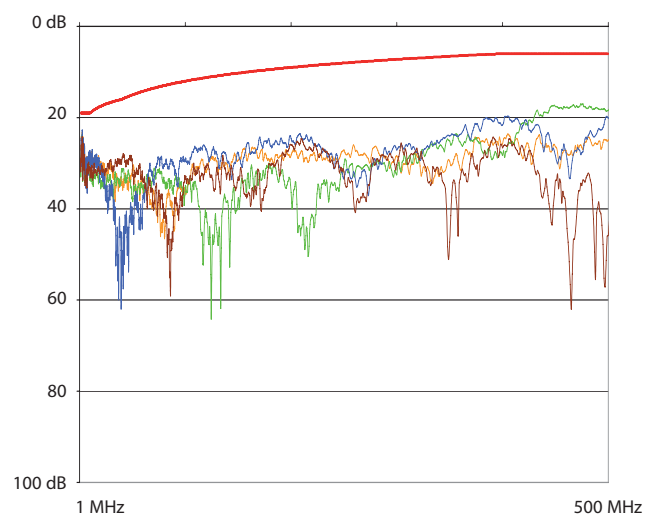

ACR-N (Attenuation to Crosstalk Ratio Near End)

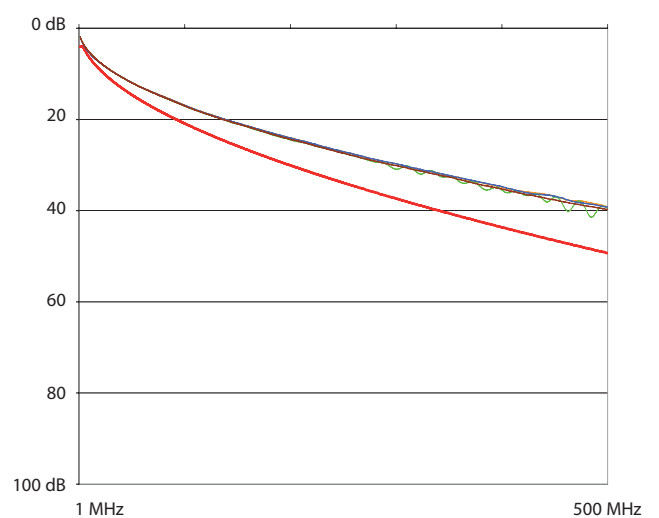ACR-F (Equal Level End Crosstalk Attenuation Far End) - (ELFEXT)
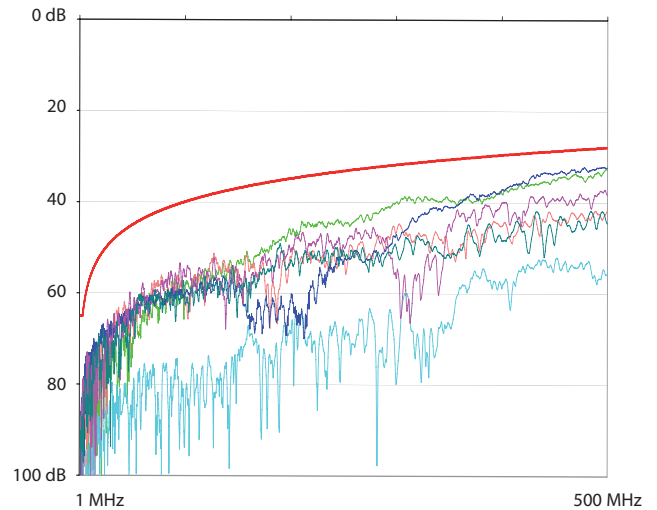

9. PERFORMANCE *(cont.)*
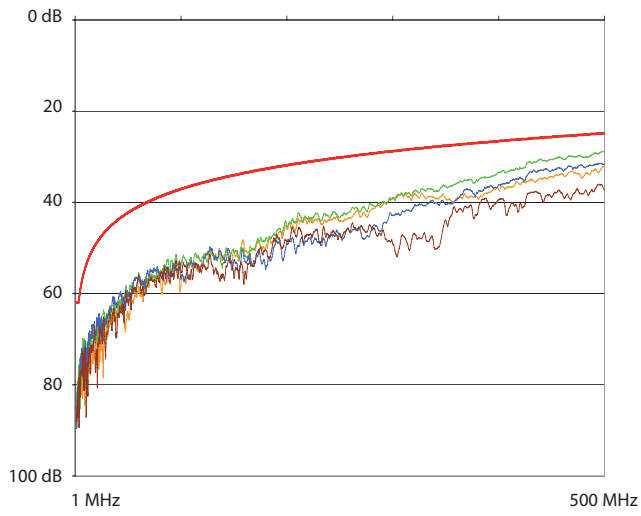
■ 9.2 Performance channel
Return loss

Attenuation

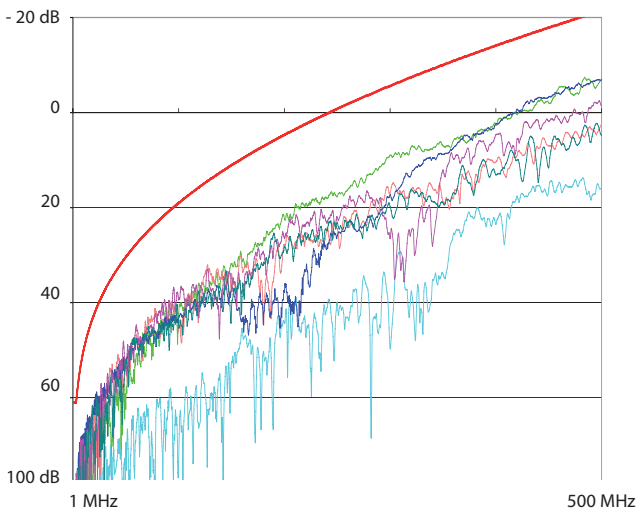NEXT (Near and Crosstalk Attenuation)

9. PERFORMANCE *(cont.)*

■ 9.2 Performance channel *(cont.)*
PS NEXT (Power Sum Next))

ACR-N (Attenuation to Crosstalk Ratio)

ACR-F (Equal Level End Crosstalk Attenuation)