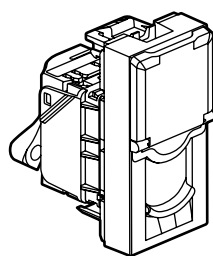


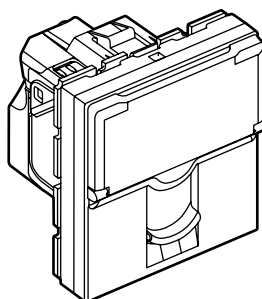
Mosaic™

LCS3 + Cat. 6A STP RJ 45 socket

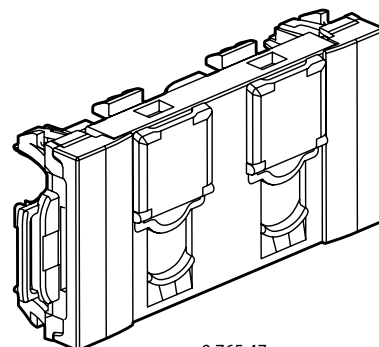
Cat. No(s): 0 765 08/13/24/25/47/73/76/84/85/99
0 791 73L/76L - 0 794 73/76



0 765 73



0 794 76



0 765 47

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 F/UTP, S/FTP, F/FTP, U/FTP.

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.

Socket 0 765 84/85 : This product is made of silver-ion based antimicrobial* material.

This technology eliminates bacteria, fungi and viruses without creating any immunisation or resistance effects (physical, rather than chemical, destruction). Particularly suitable for healthcare establishments (hospitals, clinics, nursing homes, laboratories, waiting rooms, etc.) and more generally for areas subject to hygiene restrictions (industrial, shared and restaurant kitchens, waste, etc.).

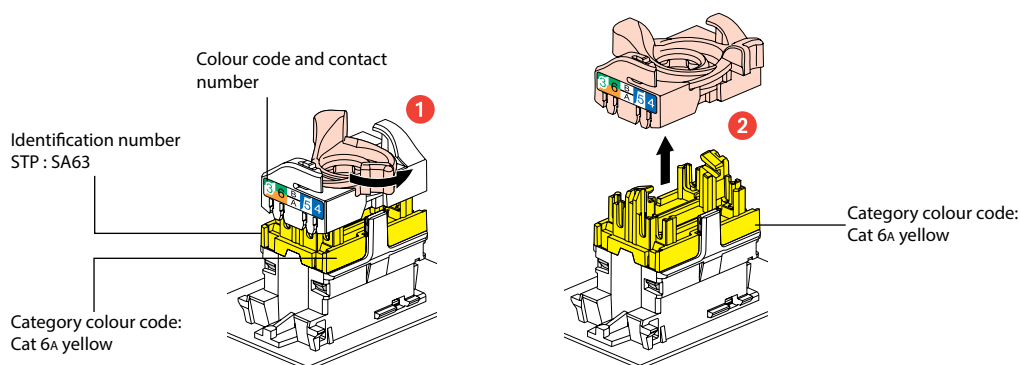
This product offers an additional way of ensuring the non-proliferation of bacteria, fungi and viruses without interfering with cleaning protocols.

The connectors are compliant to all performance, mechanical, climatic and electromagnetic requirements of the ISO/IEC 11801-1.

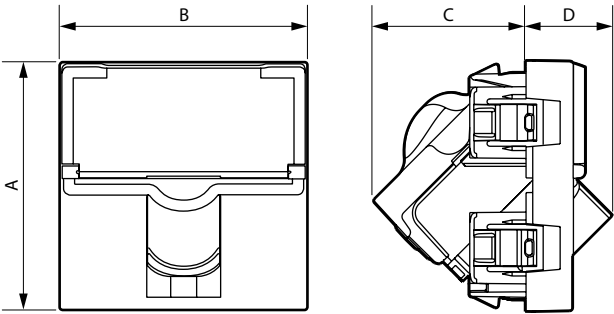
2. RANGE

Presentation

Description	White	Aluminium	White antimicrobial*	Black mat
Cat. 6A STP RJ 45 - Metal shielding - 1 module	0 765 73	0 794 73	0 765 84	0 791 73L
Cat. 6A STP RJ 45 - Metal shielding - 2 modules	0 765 76	0794 76	0 765 85	0 791 76L
Cat. 6A STP RJ 45 - Metal shielding - 2 modules - with green shutter	0 765 24	-	-	-
Cat. 6A STP RJ 45 - Metal shielding - 2 modules - with orange shutter	0 765 25	-	-	-
Cat. 6A STP RJ 45 - Metal shielding - with controlled access - 2 modules Supplied with 2 keys for 5 sockets - with red shutter	0 765 99	-	-	-
Cat. 6A STP RJ 45 - Metal shielding - 45° socket - 2 modules	0 765 08	-	-	-
Cat. 6A STP RJ 45 - Metal shielding - 90° socket - 2 modules	0 765 13	-	-	-
Cat. 6A STP RJ45X2 SOLUCLIP - 4 modules	0 765 47	-	-	-



3. DIMENSIONS (mm)



Références	A	B	C	D
0 765 08/99	45	45	27,5	15,5
0 765 13/24/25/76/85 - 0 791 76L - 0 794 76	45	45	31	11
0 765 47	45	106,3	31	11
0 765 73/84 - 0 791 73L - 0 794 73	45	22,5	31	11
0 765 99	45	45	31	10

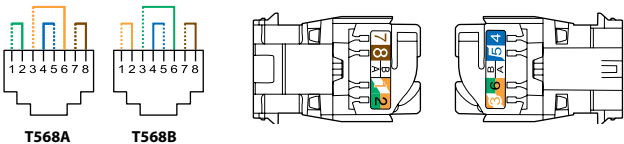
4. CONNECTION

Connectors accept the following plug types:
RJ11 (4 contacts), RJ12 (6 contacts), RJ45 (9 contacts).

Connectors accept the following cable types:

Connector type	Cable type
UTP	UTP, U/UTP
FTP	FTP, STP, F/UTP, U/FTP, F/FTP, S/FTP, SF/UTP, SF/FTP
STP	

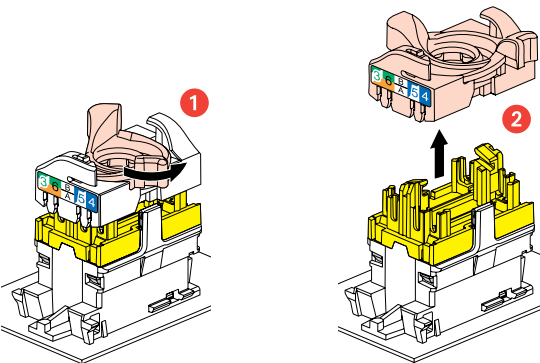
Double colour code T568A and T568B on terminals:
STP 9 contacts 360° screen



Conductors supported:

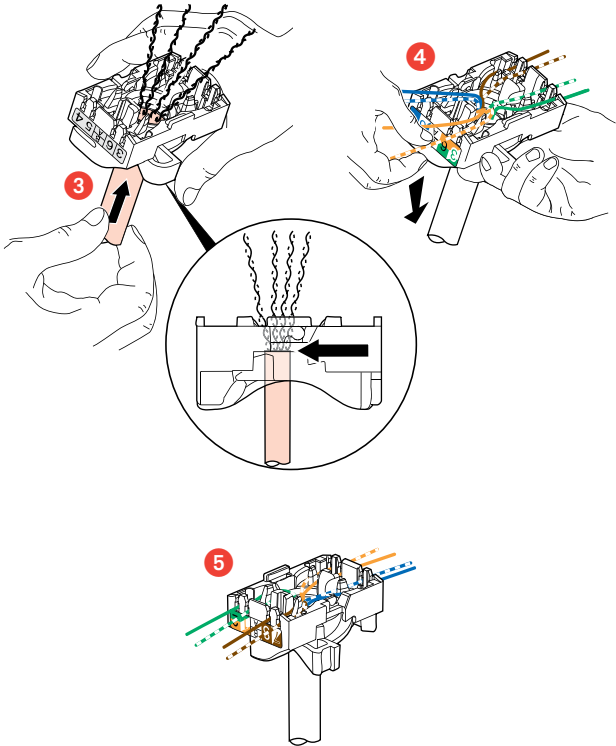
- Solid/Stranded : 0.4 to 0.65 mm, AWG 26 to 22
- Polyethylene conductor insulation: Ø 0.85 to 1.7 mm on insulation

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)

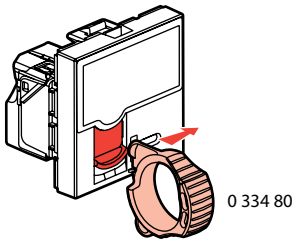
This system allows the wire pairs to be spread easily before mounting them on the connector.



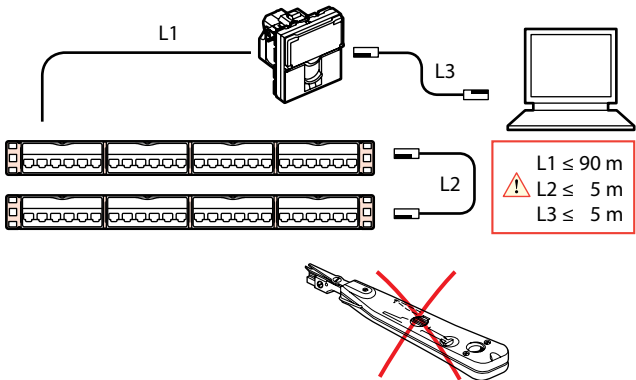
Spreading cables ensures that each pair is separated by the specified 13 mm.
Spreading pairs by 90° in relation to the cable ensures optimum performance.

5. OPERATION

0 765 99 unlocking



Installation



6. TECHNICAL CHARACTERISTICS

■ 6.1 Mechanical characteristics

- Axial retention of the connector in the adapter: minimum 70N
 - Transverse retention of the connector in the adapter (4 directions): minimum 50N
 - Shock resistance of the connector in the adapter: IK03 or IK04(1) according to IEC 62262
 - Retention of the adapter in the 45x45 Legrand support frame: minimum 100N
 - Retention of the adapter in the 45mm Legrand trunking: minimum 50N
- (1) IK03 for the 2-module, IK04 for the 1-module. Impact applied on the adapter.
Penetration against solid bodies and liquids: IP 20
Maximum 20 cable re-termination according to following options:

Test Method	Cable AWG
IEC 60352-3	22 to 24 ⁽¹⁾
IEC 60352-3	24 to 26 ⁽¹⁾
Single AWG	22 or 23 or 24 or 25 or 26 ⁽²⁾

- (1) Re-termination of any mix of conductor sizes within that range.
(2) Re-termination on only 1 conductor size. No mix allowed.

Endurance: 2500 movements (plug insertion/withdrawal) according to ISO/IEC 11801-1 PL2.

■ 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: Polycarbonate
Cover plate: Polycarbonate with antimicrobial* treatment
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: -40°C to +70°C
Operating temperature: -10°C to +60°C

* Contains a silver compound to antagonize the growth of bacteria on the surface.

7. CLEANING

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

■ 7.1 Resistance to cleaning products

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.

■ 7.2 Resistance to hospital grade cleaning products

Resistant to the following products: Anios, Surfanios, Bactylisine, diluted hydrogen peroxide (35%).

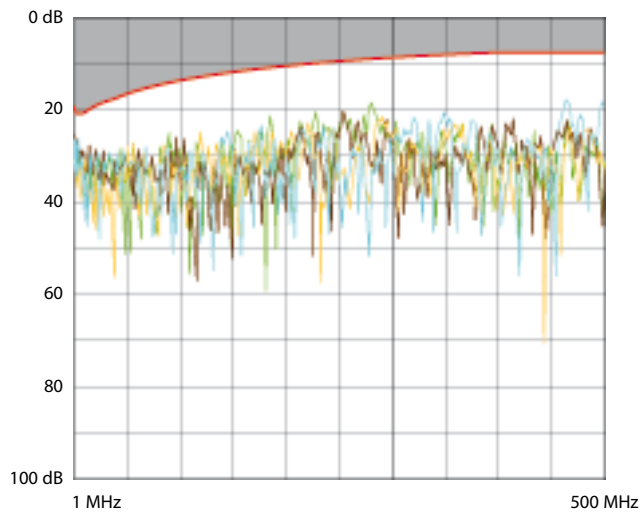
Caution: Always test before using other special cleaning products.

8. STANDARDS AND APPROVALS

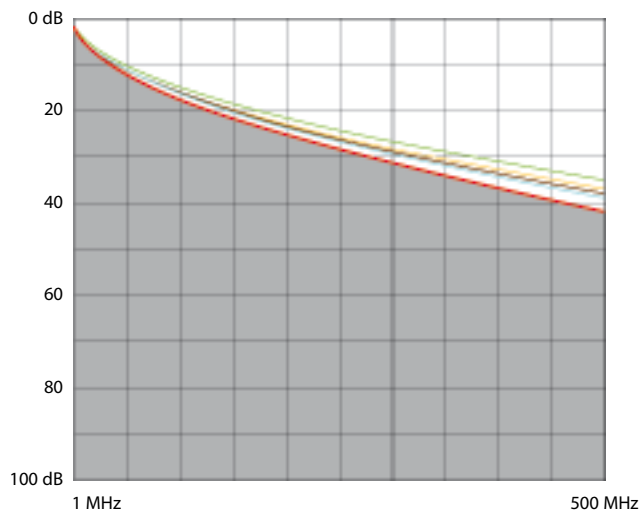
ISO/IEC 11801 series : International standard for generic cabling for customer premises
ANSI/TIA 568 series : North American standard for generic cabling for customer premises
EN 50173 series : European standard for generic cabling for customer premises
IEC 60603-7 series : International standard for connector specifications.
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.
The connectors are compliant NF C90 483.

9. PERFORMANCE AT 20°C

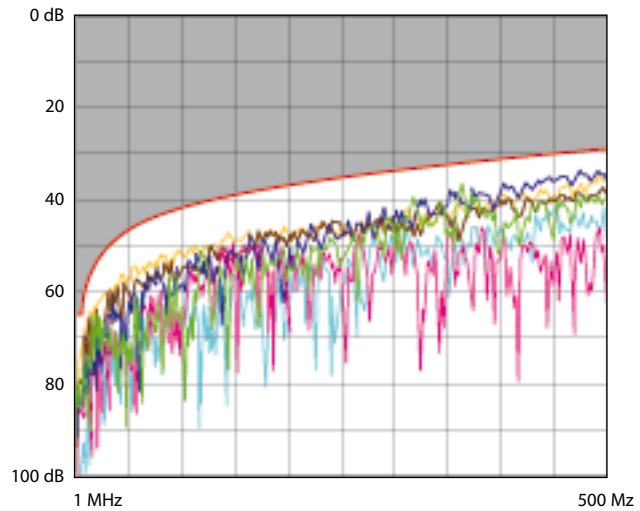
■ 9.1 Performance of permanent link with F/UTP cable
Return loss



Attenuation

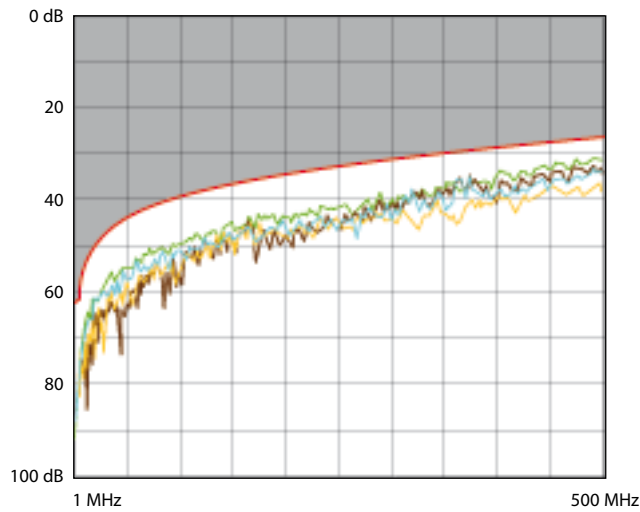


NEXT (Near end Crosstalk Attenuation)

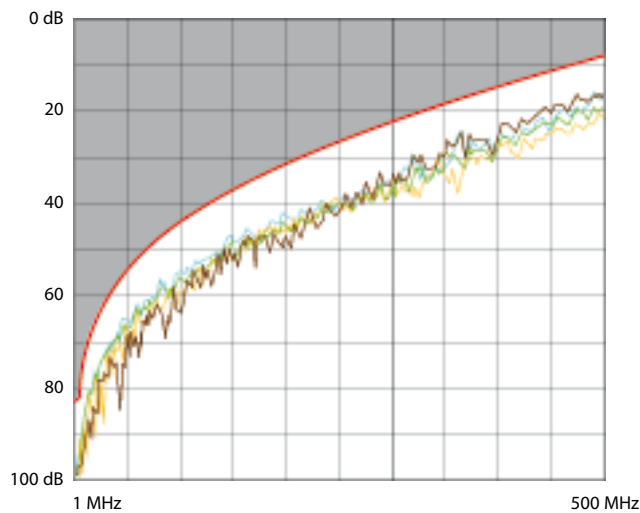


9. PERFORMANCE AT 20°C (cont.)

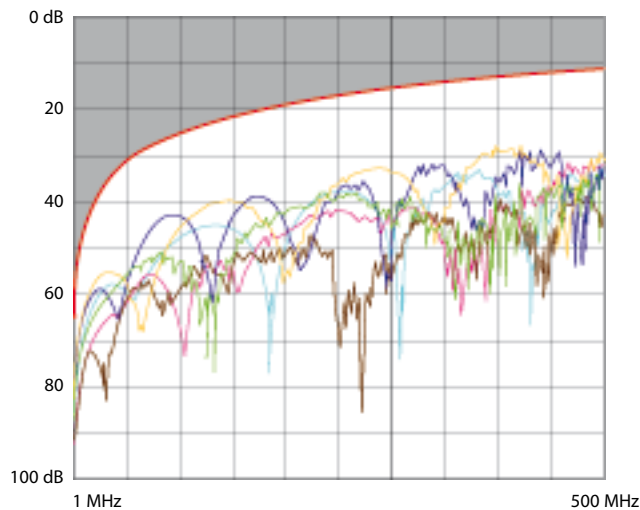
■ 9.1 Performance of permanent link with F/UTP cable (cont.)
PS NEXT (Power Sum NEXT)



ACR (Attenuation to Crosstalk Ratio)

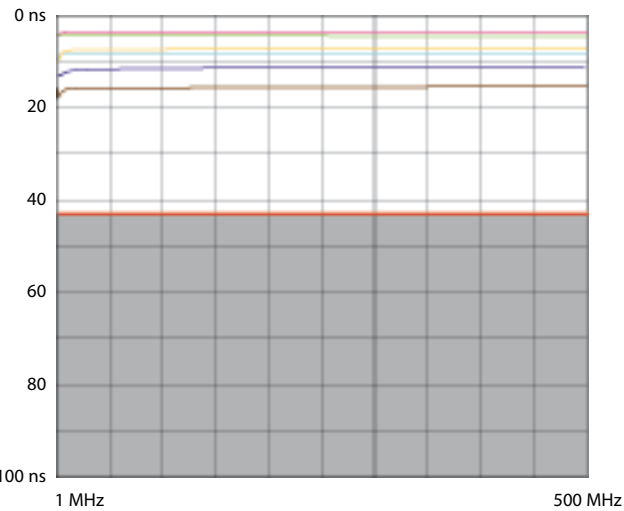


ELFEXT (Equal Level End Crosstalk Attenuation)

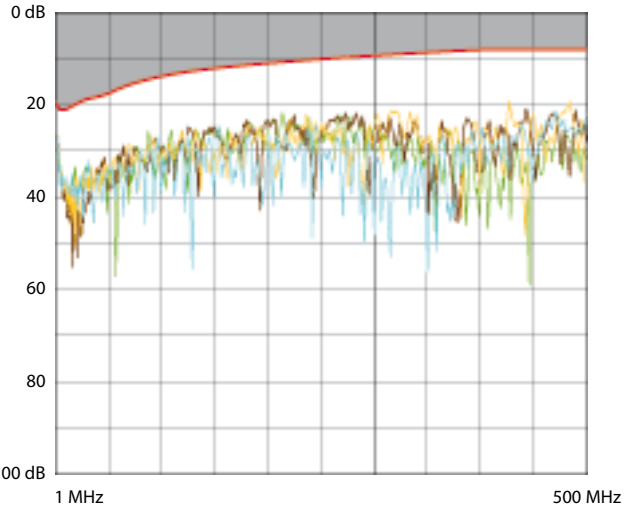


9. PERFORMANCE AT 20°C (cont.)

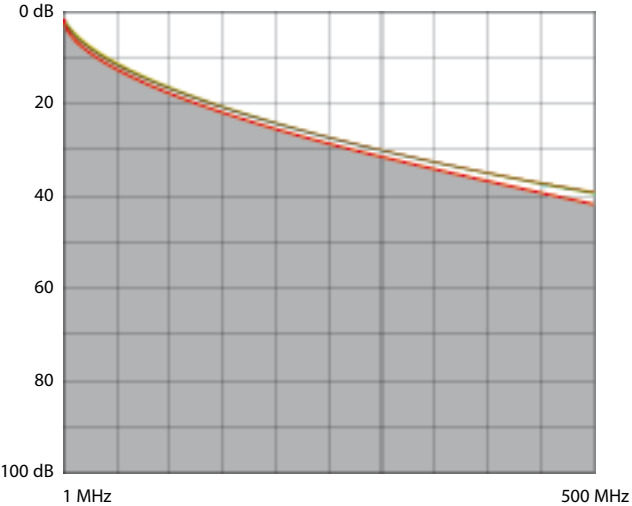
■ 9.1 Performance of permanent link with F/UTP cable (cont.)
Delay skew



■ 9.2 Performance of permanent link with S/FTP cable
Return loss

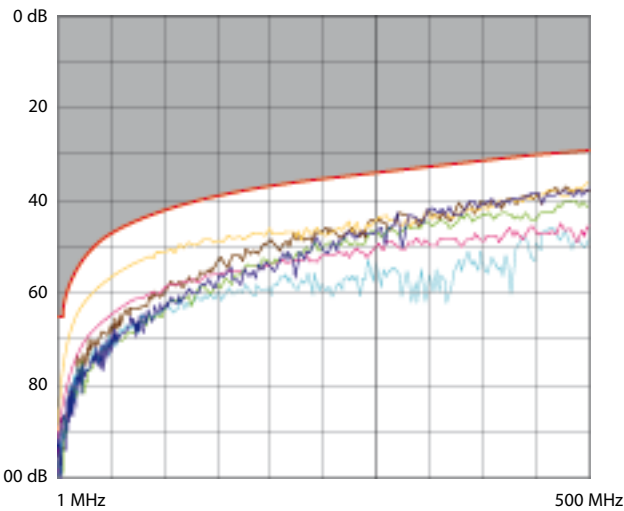


Attenuation

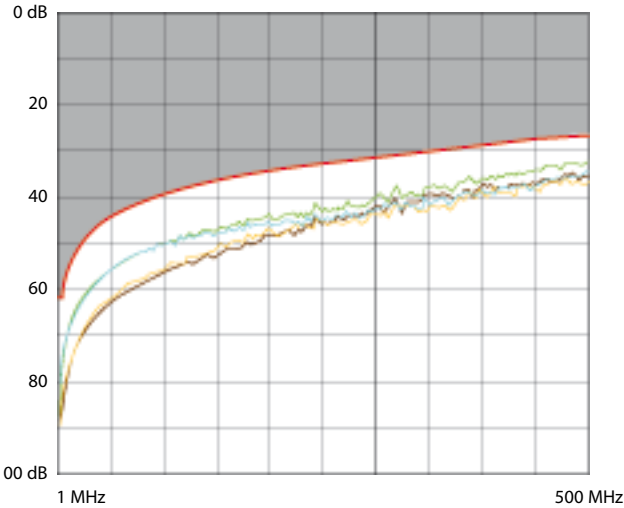


9. PERFORMANCE AT 20°C (cont.)

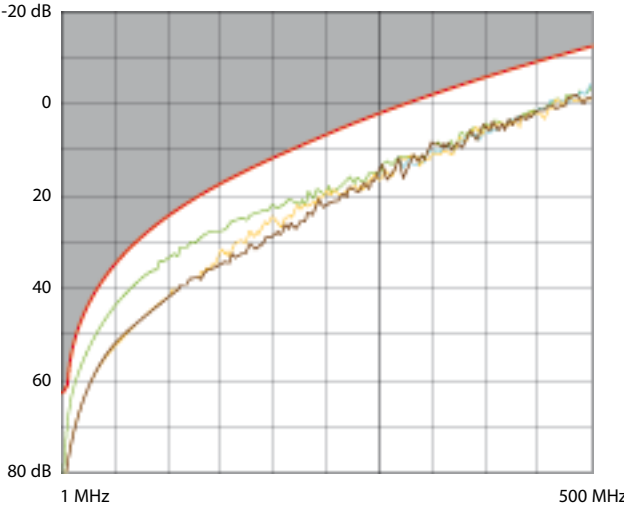
■ 9.2 Performance of permanent link with S/FTP cable (cont.)
NEXT (Near end Crosstalk Attenuation)



PS NEXT (Power Sum NEXT)

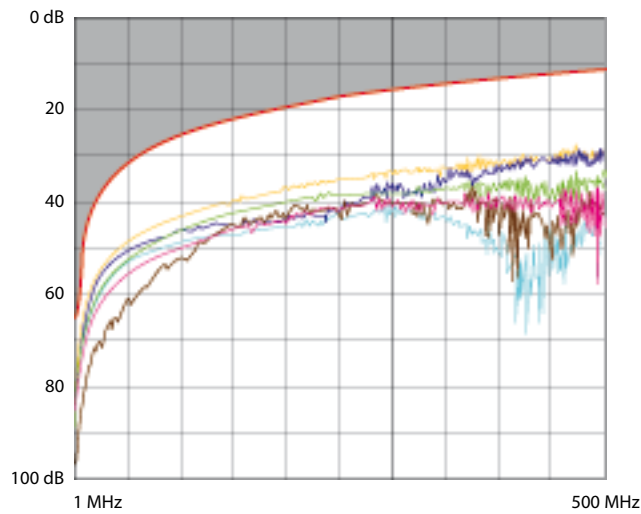


ACR (Attenuation to Crosstalk Ratio) (Ecart paradiaphonique)

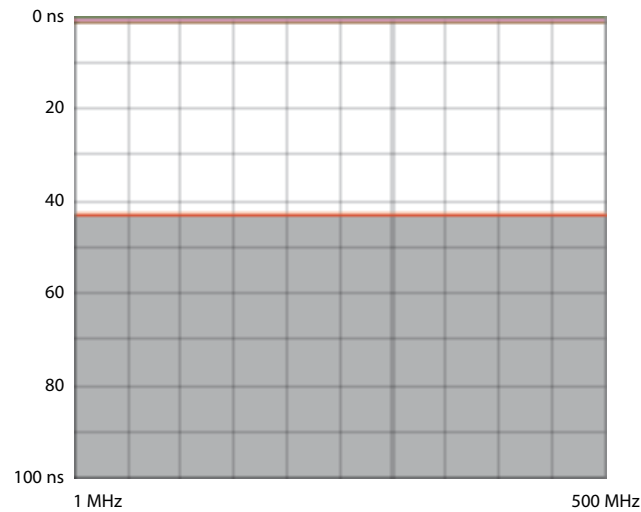


9. PERFORMANCES AT 20°C (cont.)

■ 9.2 Performance of permanent link with S/FTP cable (cont.)
ELFEXT (Equal Level End Crosstalk Attenuation)

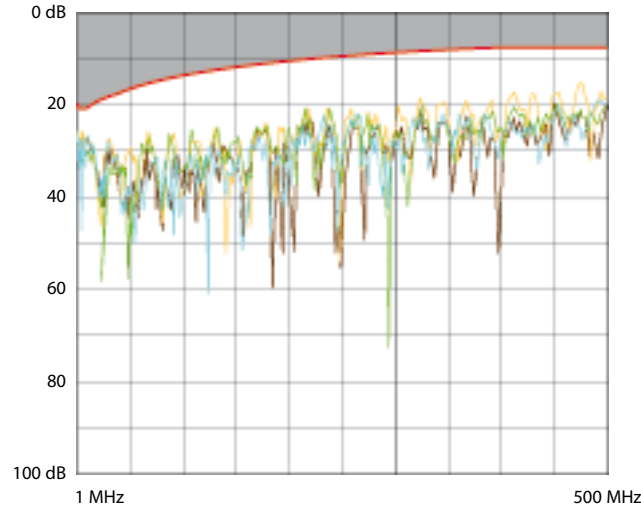


Delay skew



■ 9.3 Channel performance

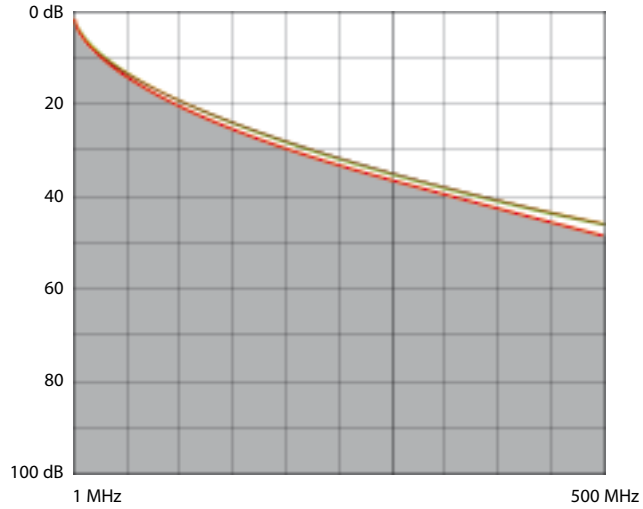
Return loss



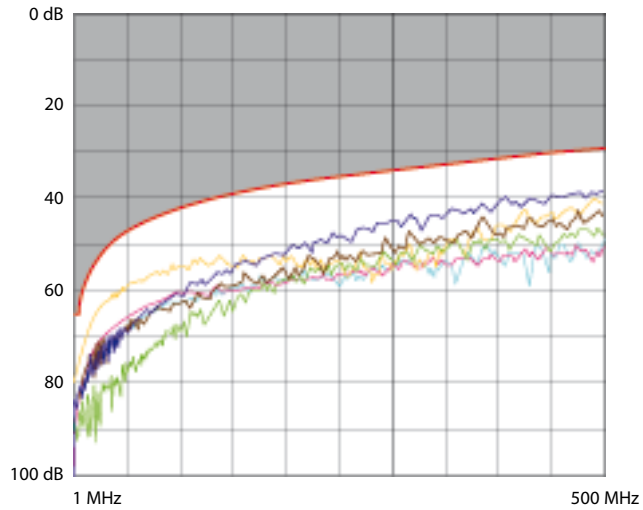
9. PERFORMANCE AT 20°C (cont.)

■ 9.3 Channel performance (cont.)

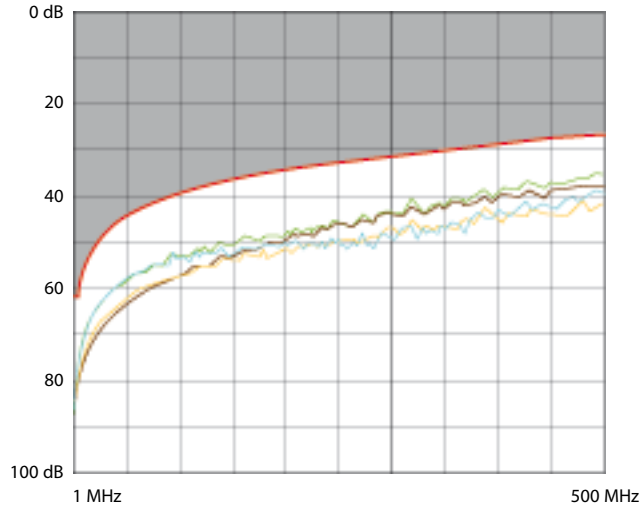
Attenuation



NEXT (Near end Crosstalk Attenuation)

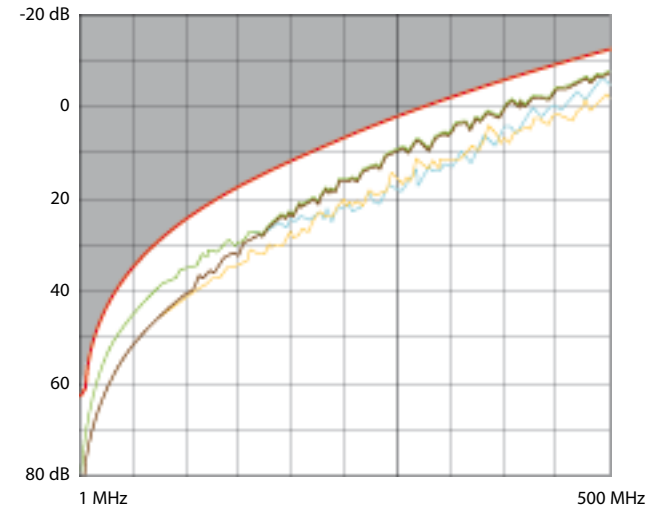


PS NEXT (Power Sum NEXT)

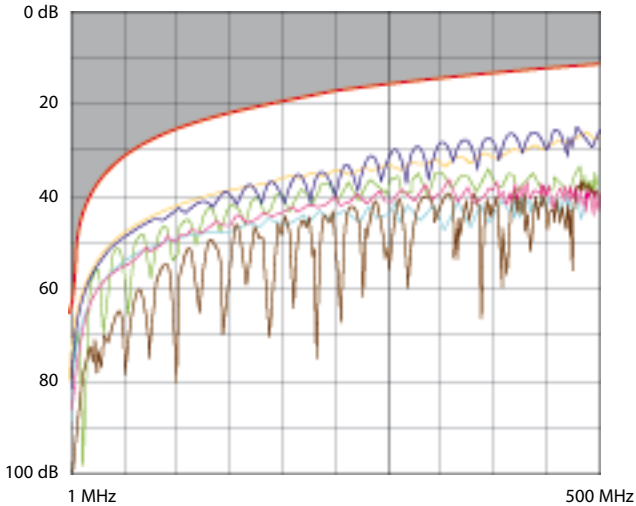


9. PERFORMANCE AT 20°C (cont.)

■ 9.3 Channel performance (cont.)
ACR (Attenuation to Crosstalk Ratio)



ELFEXT (Equal Level End Crosstalk Attenuation)



Delay skew

