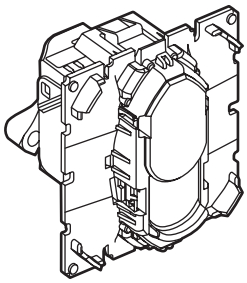
128, av. du Maréchal-de-Lattre-de-Tassigny - 87045 LIMOGES Cedex
Tel.: 33(0)5 55 06 87 87 - Fax: 33(0)5 55 06 88 88
www.legrand.com

Céliane™
LCS² Cat. 6A RJ 45 socket

Cat. No(s): CM0346 - CM0349



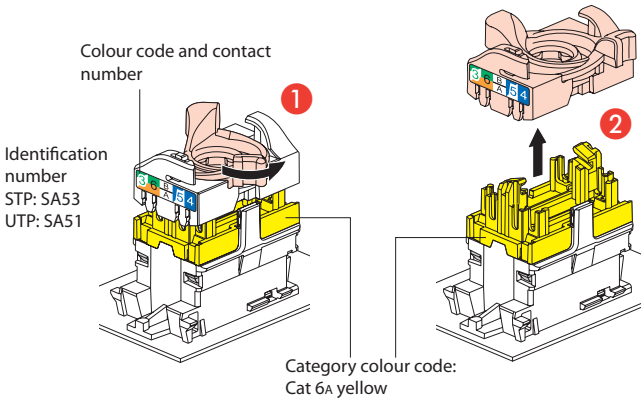
CM0346

1. USE

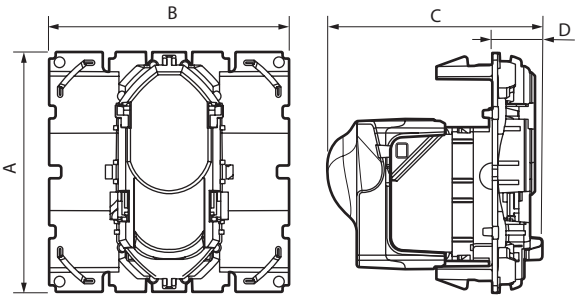
Cat. 6A RJ 45 terminal socket for high speed connection to a network.
Enables data transmission at 10 Gbit/s.
Socket is used with F/UTP ou S/UTP.
To be equipped with frame and plates.
Fixing with clips.

2. RANGE

Description	Cat. No(s)
Cat. 6A RJ 45 - Metal shielding - STP	CM0346
Cat. 6A RJ 45 - Metal shielding - UTP	CM0349



3. DIMENSIONS (mm)

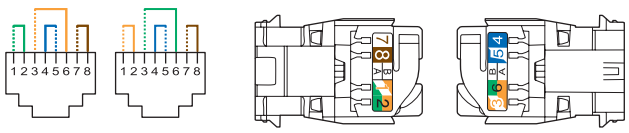


A	B	C	D
45	45	31	9,5

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

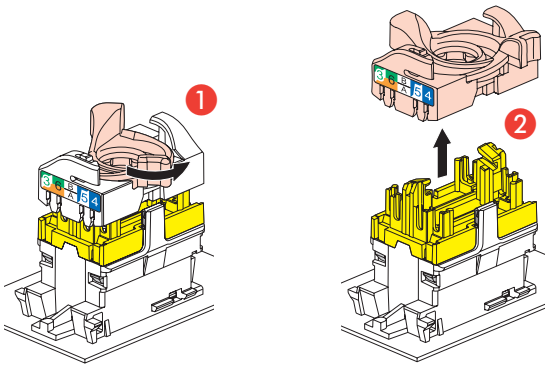


T568A **T568B**

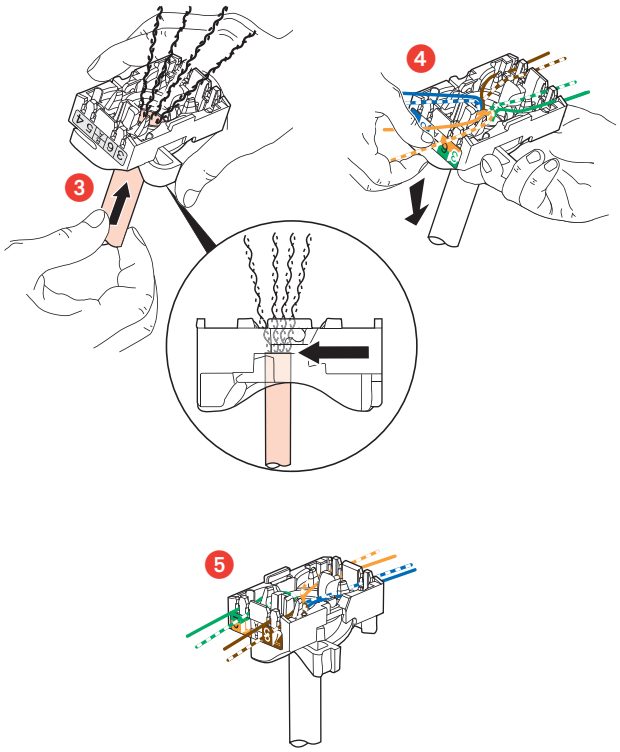
Conductors supported:
- Solid/stranded: 0.4 to 0.65 mm, AWG 26 to 22
- Polyethylene conductor insulation: Ø 0.85 to 1.7 mm on insulation

4. CONNECTION *(continued)*

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.



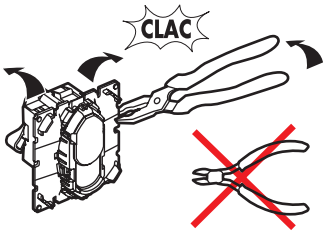
This system allows the wire pairs to be spread easily before mounting them on the connector.



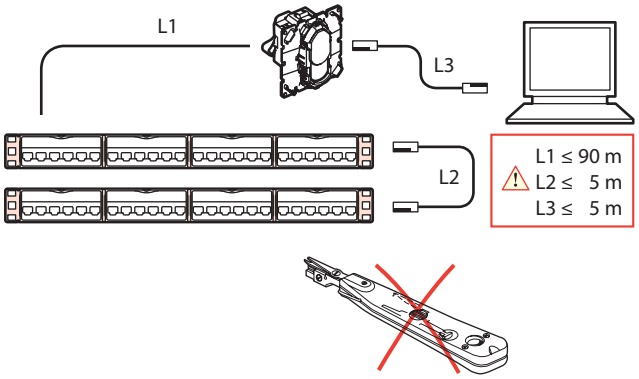
Spreading cables ensures that each pair is separated by the specified 13 mm.
Spreading pairs by 90° in relation to the cable ensures optimum performance.

5. INSTALLATION

This product can be assembled in duplicate after breaking off the fins.



Connection



6. TECHNICAL CHARACTERISTICS

6.1 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).

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

Halogen-free

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.

8. STANDARDS AND APPROVALS

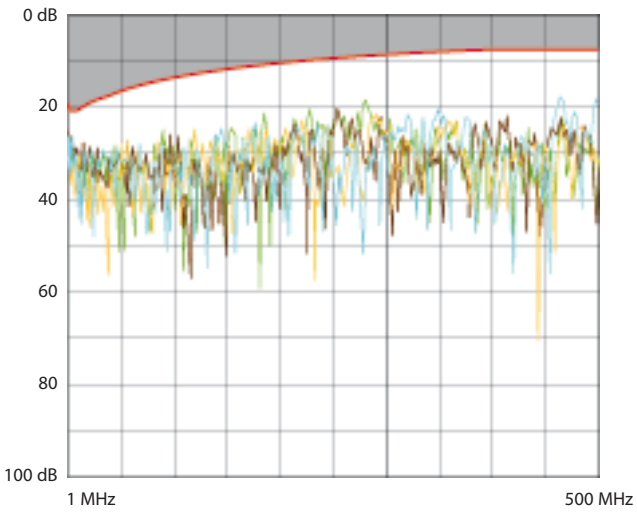
ISO/IEC 11801 series : International standard for generic cabling for customer premises
ANSI/TIA 568 series : North American standard for generic cabling for customer premises
EN 50173 series : European standard for generic cabling for customer premises

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.

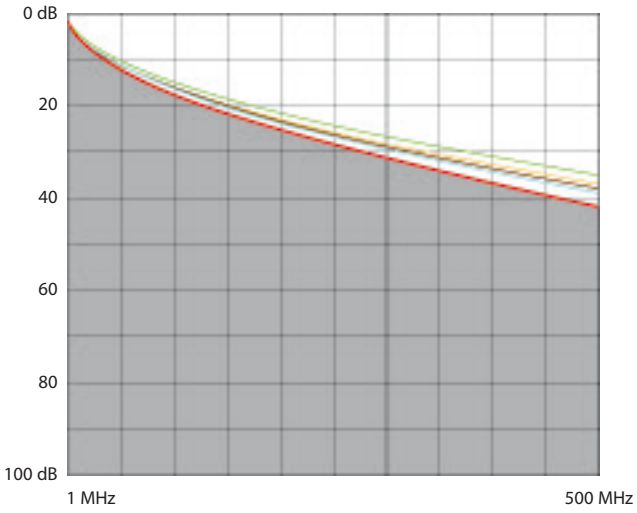
9. PERFORMANCE

■ 9.1 Component performance (RJ 45 connectors)

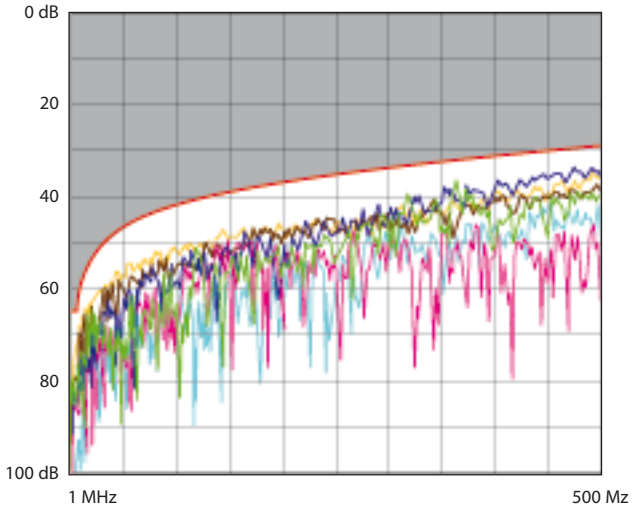
Return loss



Attenuation



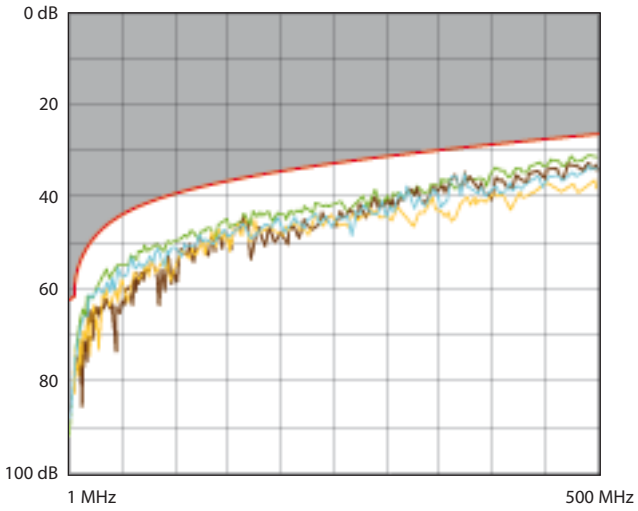
NEXT (Near end Crosstalk Attenuation)



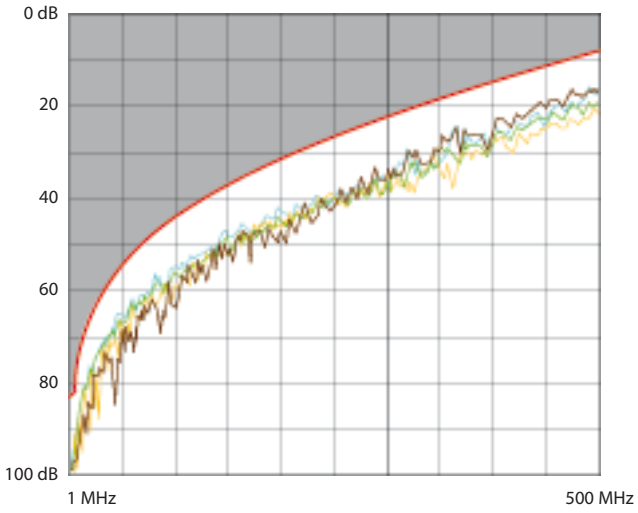
9. PERFORMANCE *(cont.)*

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

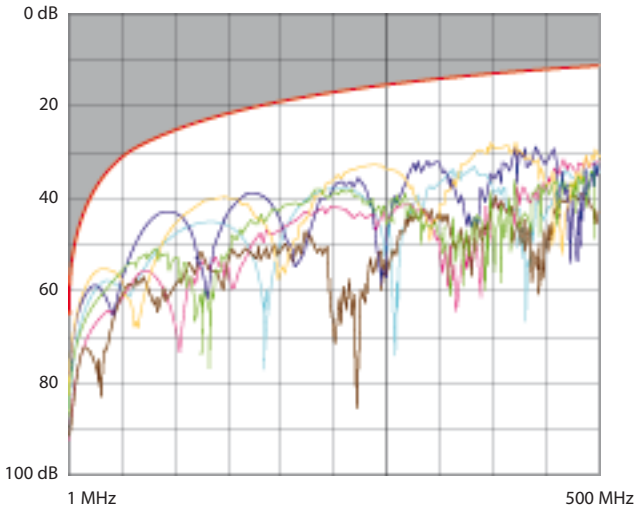
PS NEXT (Power Sum NEXT)



ACR (Attenuation to Crosstalk Ratio)



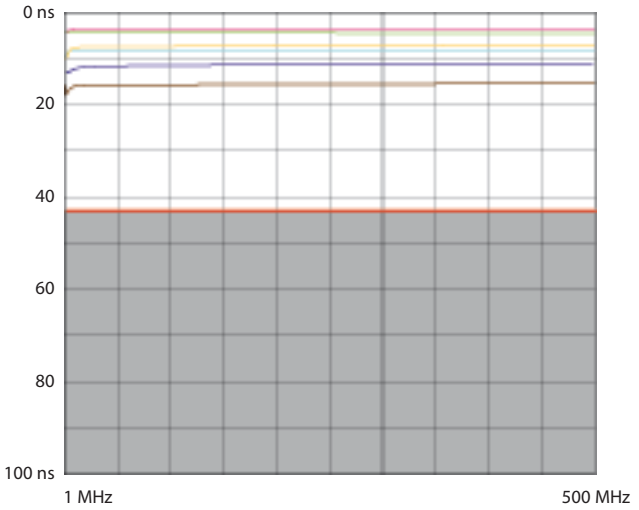
ELFEXT (Equal Level End Crosstalk Attenuation)



9. PERFORMANCE *(cont.)*

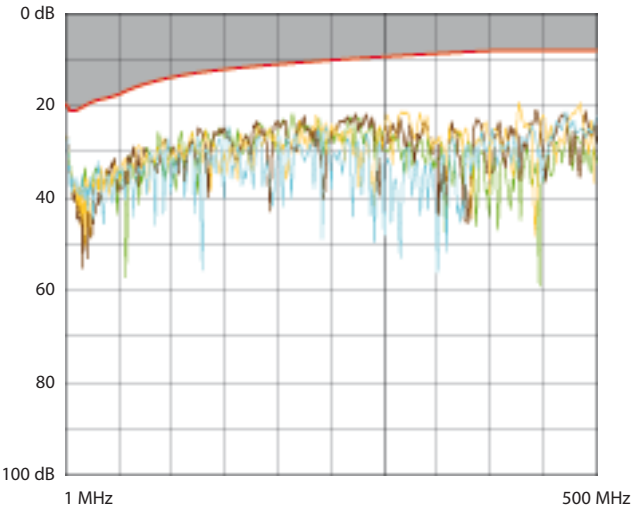
■ 9.1 Performance of permanent link with F/UTP cable *(cont.)*

Delay skew

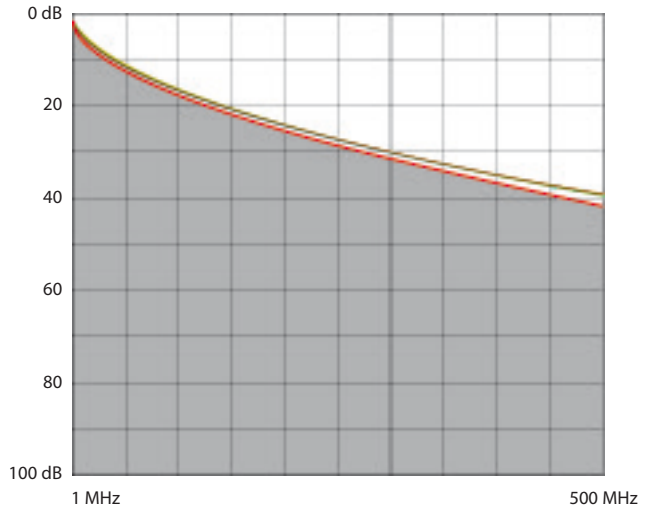


■ 9.2 Performance of permanent link with S/FTP cable

Return loss



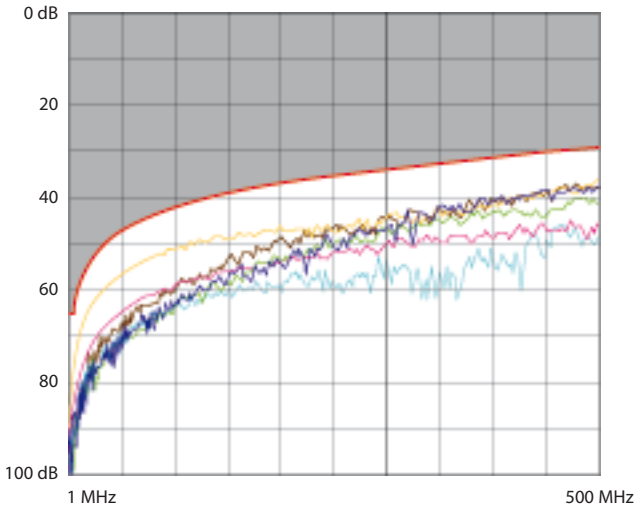
Attenuation



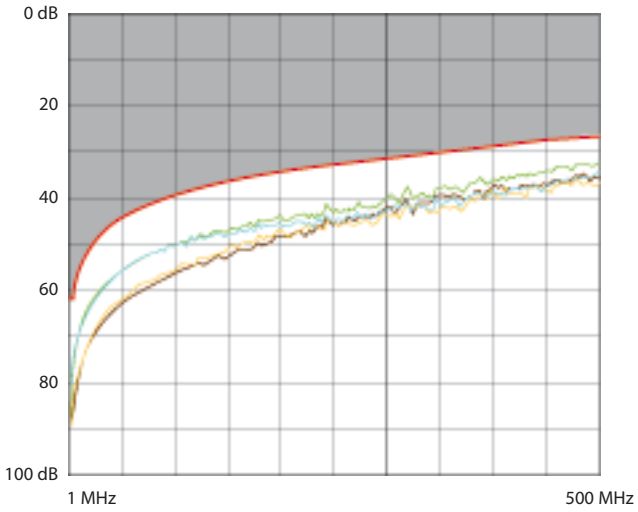
9. PERFORMANCE *(cont.)*

■ 9.2 Performance of permanent link with S/FTP cable *(suite)*

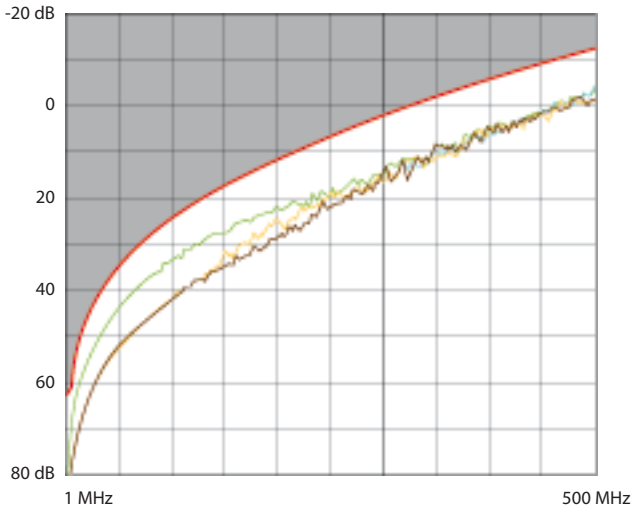
NEXT (Near end Crosstalk Attenuation)



PS NEXT (Power Sum NEXT)



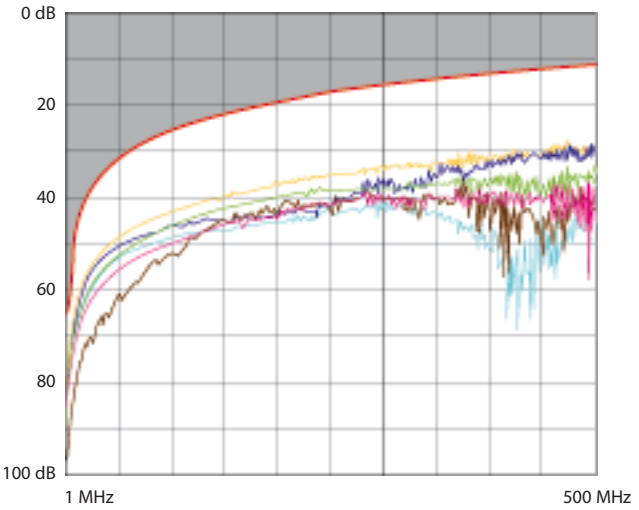
ACR (Attenuation to Crosstalk Ratio)



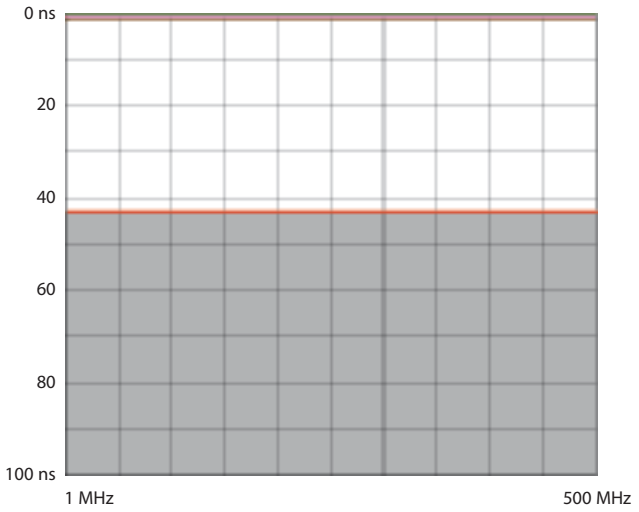
9. PERFORMANCE *(cont.)*

■ 9.2 Performance of permanent link with S/FTP cable *(cont.)*

ELFEXT (Equal Level End Crosstalk Attenuation)

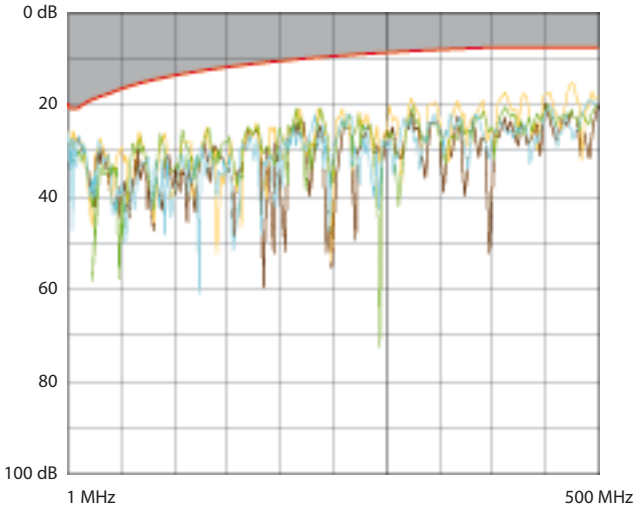


Delay skew



■ 9.3 Channel performance

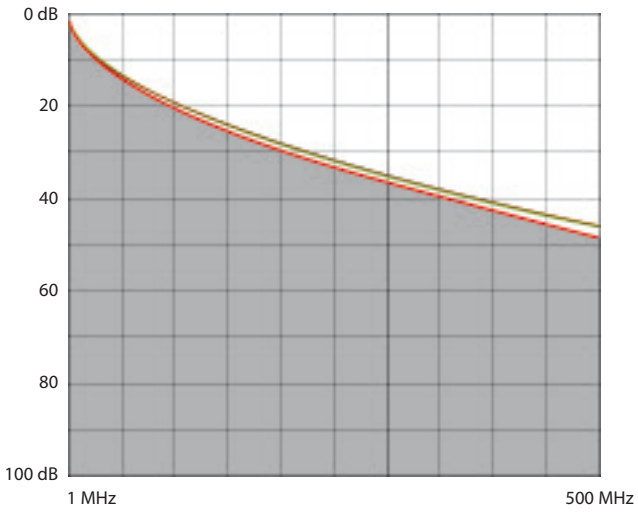
Return loss



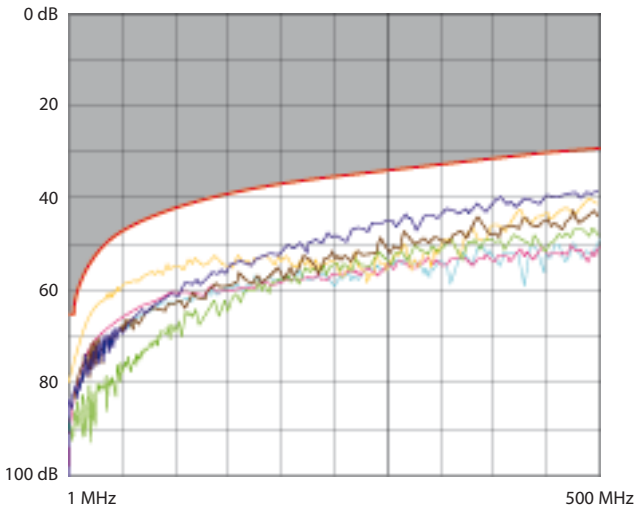
9. PERFORMANCE *(cont.)*

■ 9.3 Channel performance *(cont.)*

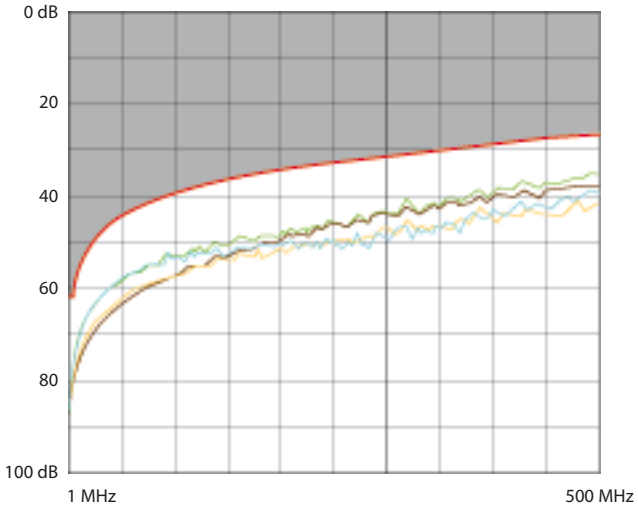
Attenuation



NEXT (Near end Crosstalk Attenuation)



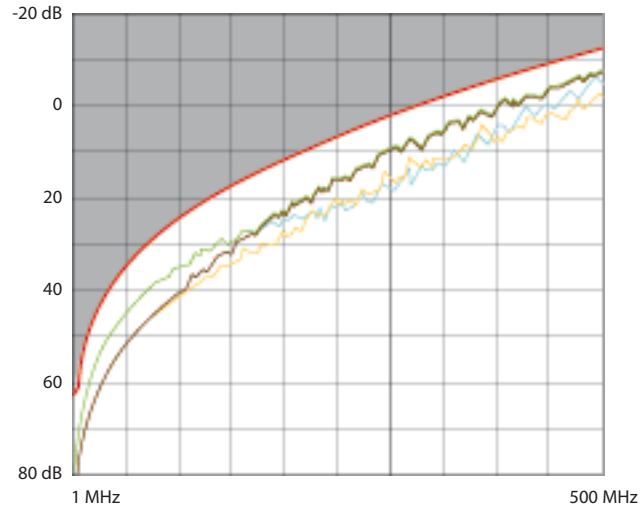
PS NEXT (Power Sum NEXT)



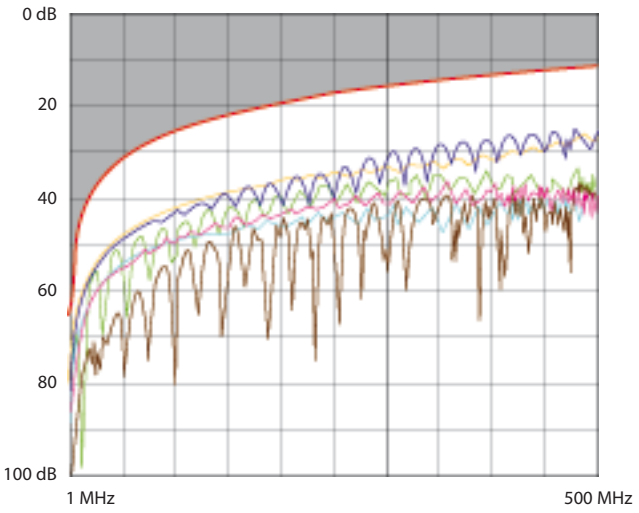
9. PERFORMANCE *(cont.)*

■ 9.3 Channel performance *(cont.)*

ACR (Attenuation to Crosstalk Ratio)



ELFEXT (Equal Level End Crosstalk Attenuation)



Delay skew