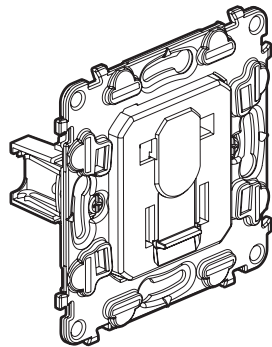
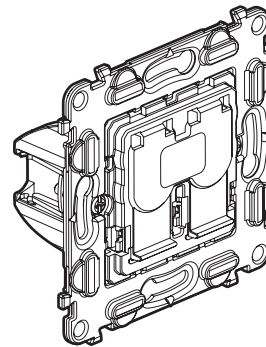


Valena™ INMATIC
LCS² Cat. 6A STP RJ 45 socket

Cat. No(s): 7 530 44/45/48/49



7 530 44



7 530 45

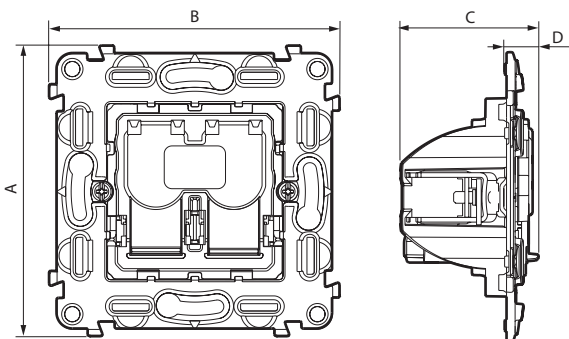
1. USE

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.

2. RANGE

Description	Cat. Nos
Cat. 6A RJ 45 - Metal shielding - UTP 2 modules	7 530 44
Cat. 6A RJ 45 - Metal shielding I - STP 2 modules	7 530 48
Double Cat. 6A RJ 45 - Metal shielding - UTP 2 modules	7 530 45
Double Cat. 6A RJ 45 - Metal shielding - STP 2 modules	7 530 49

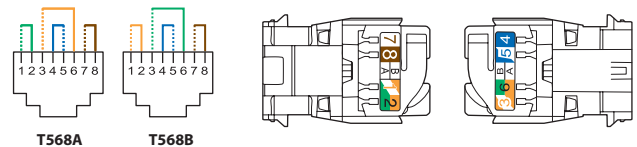
3. DIMENSIONS (mm)



A	B	C	D
75	75	35.5	8

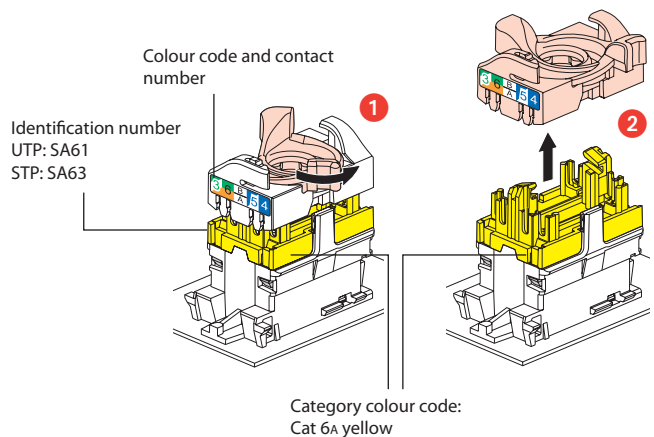
4. CONNECTION

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



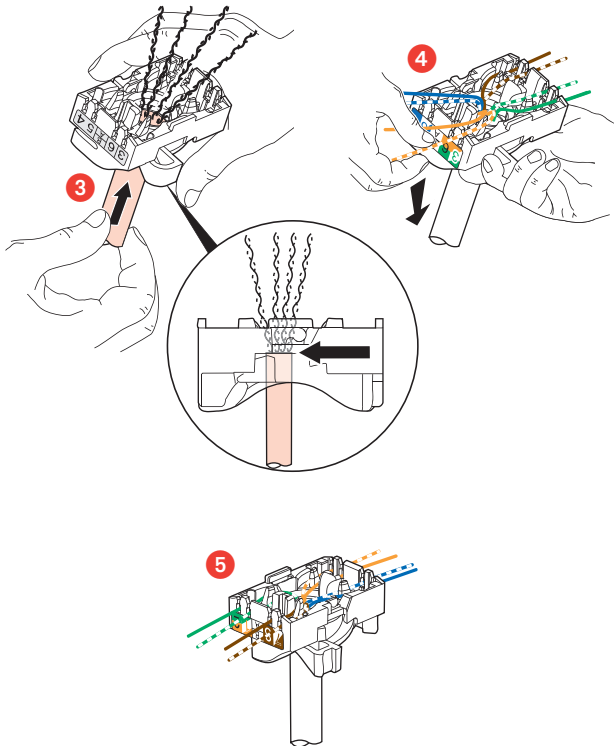
Conductors supported:
 Solid/Stranded : 0.4 to 0.65 mm, AWG 26 to 22
 Polyethylene conductor insulation: Ø 0.85 to 1.7 mm on insulation

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. TECHNICAL CHARACTERISTICS

■ 5.1 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).

■ 5.2 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/Metal
Halogen-free

Self-extinguishing:

850°C/30 s for insulating components holding live parts in place
650°C/30 s for other insulating components

■ 5.3 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).

■ 5.4 Climate characteristics

Storage temperature: - 10°C to + 70°C
Operating temperature: - 10°C to + 60°C

6. CLEANING

Clean the surface with a cloth.

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

Resistance to cleaning products: Hexane, methylated spirit, soapy water, diluted ammonia, bleach diluted to 10%, window-cleaning products, pre-impregnated wipe

Caution: Always test before using other special cleaning products.

7. 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.

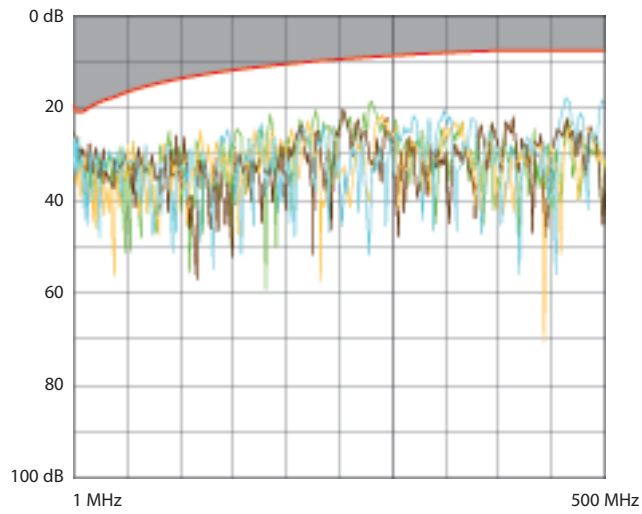
Connectors are compliant to requirements for the following remote powering applications

IEEE 802.3af , IEEE 802.3at , IEEE 802.3bt : "Power over Ethernet", Types 1 to 4, up to 90 W.

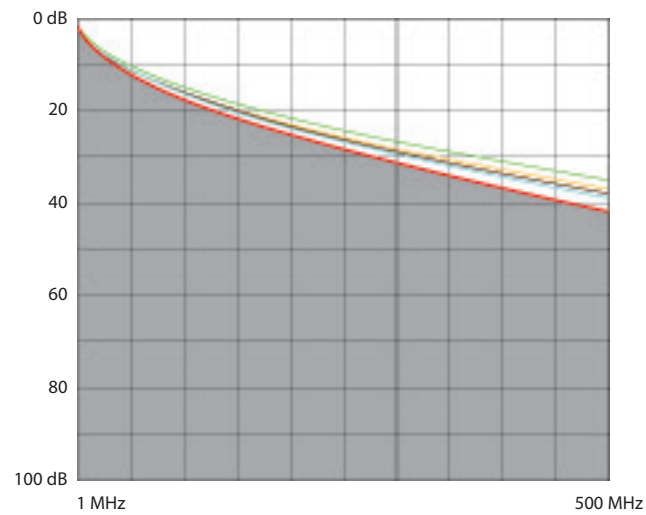
8. PERFORMANCE

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

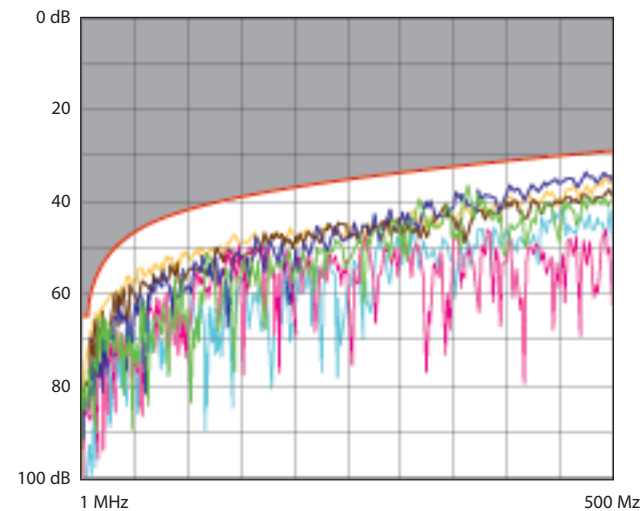
Return loss



Attenuation



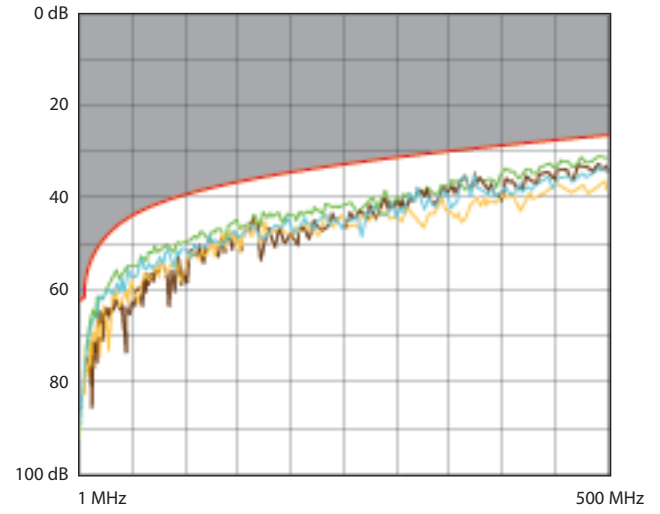
NEXT (Near end Crosstalk Attenuation)



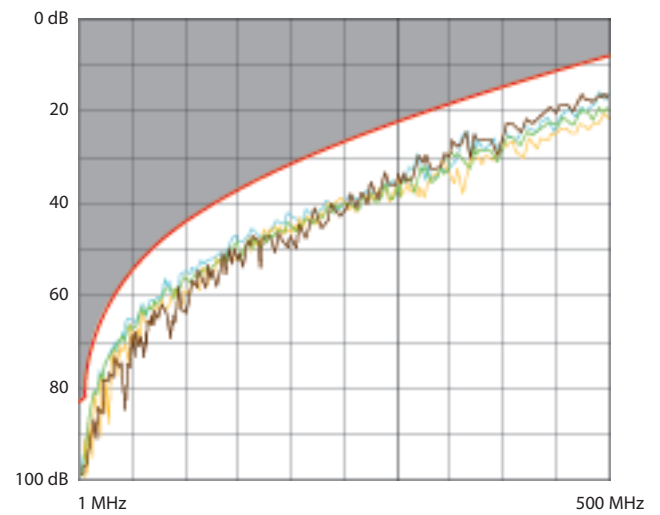
8. PERFORMANCE (cont.)

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

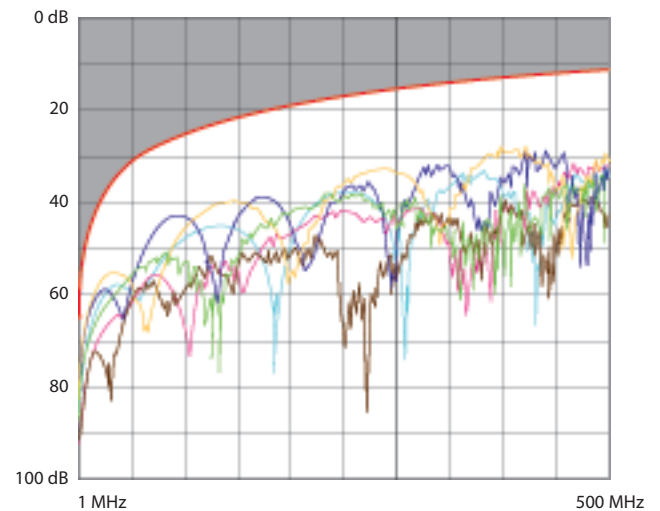
PS NEXT (Power Sum NEXT)



ACR (Attenuation to Crosstalk Ratio)



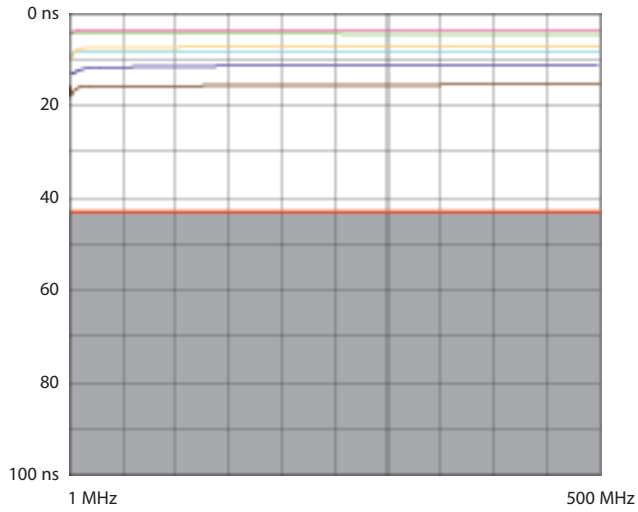
ELFEXT (Equal Level End Crosstalk Attenuation)



8. PERFORMANCE (cont.)

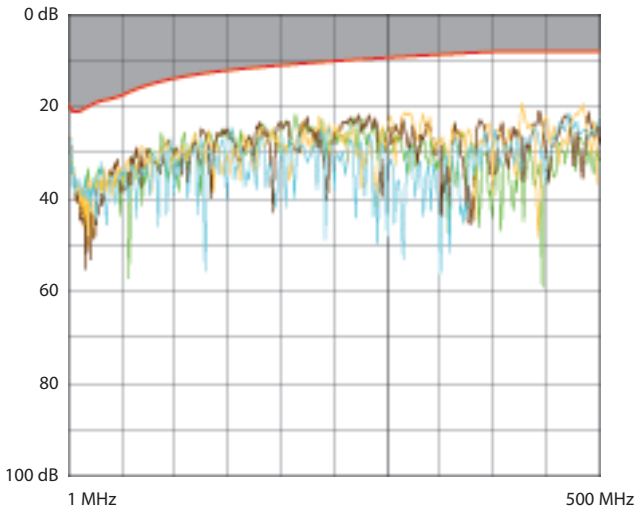
■ **8.1 Performance of permanent link with F/UTP cable (cont.)**

Delay skew

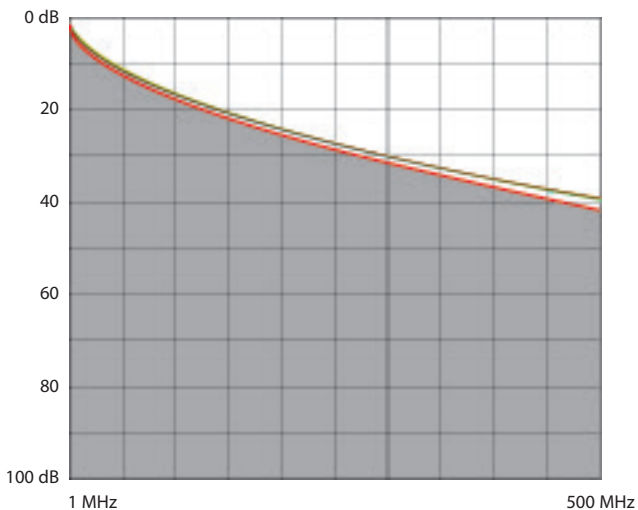


■ **9.2 Performance of permanent link with S/FTP cable**

Return loss



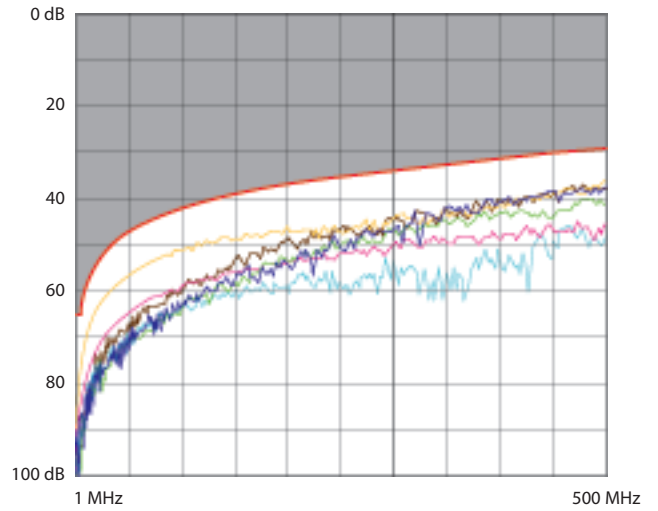
Attenuation



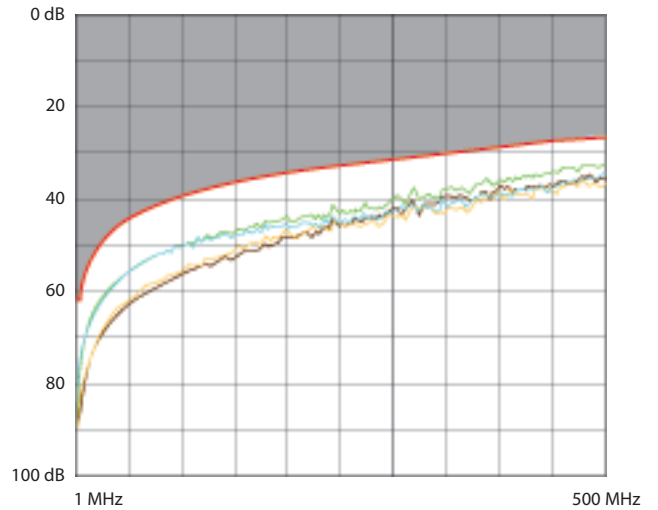
8. PERFORMANCE (cont.)

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

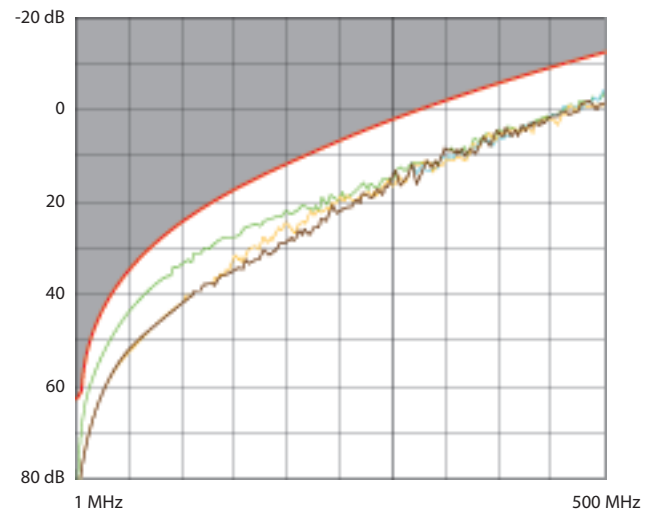
NEXT (Near end Crosstalk Attenuation)



PS NEXT (Power Sum NEXT)

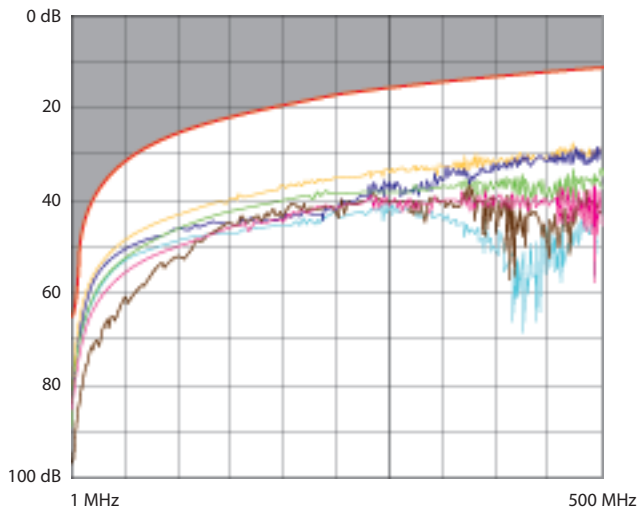


ACR (Attenuation to Crosstalk Ratio)

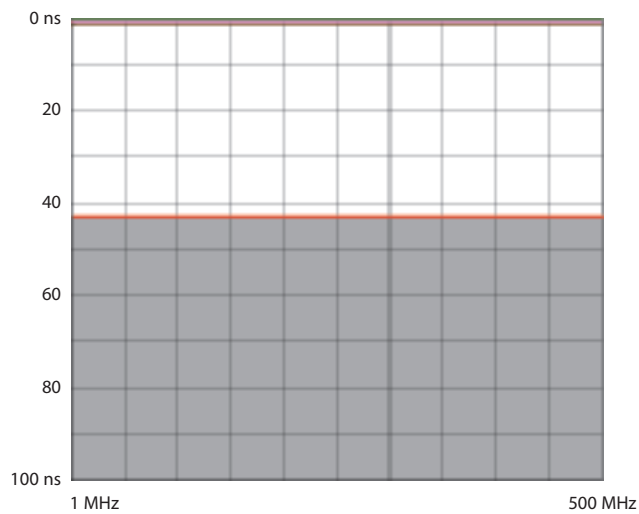


8. PERFORMANCE (cont.)

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

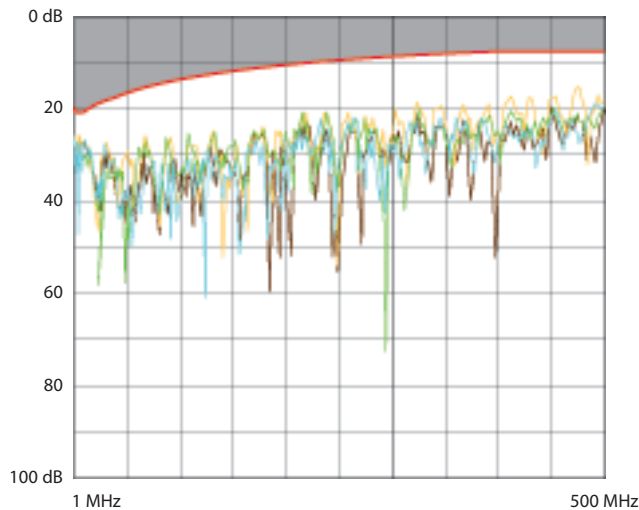


Delay skew



■ **9.3 Channel performance**

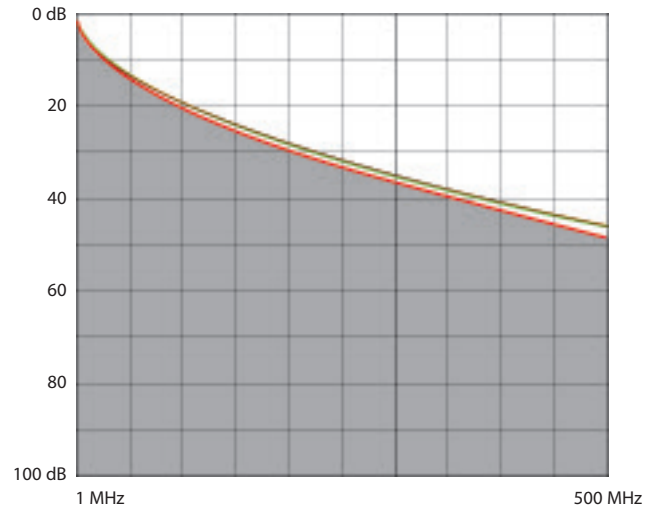
Return loss



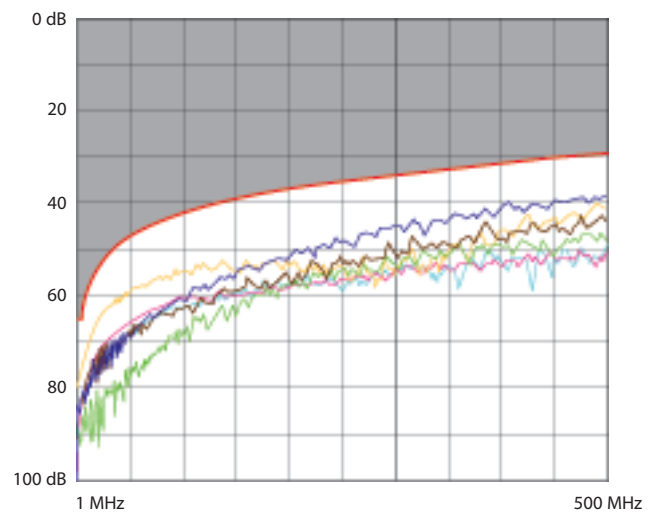
8. PERFORMANCE (cont.)

■ **8.3 Channel performance** (cont.)

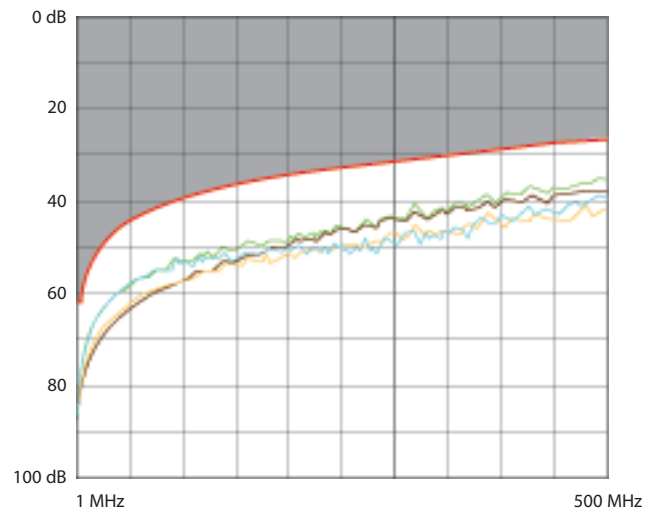
Attenuation



NEXT (Near end Crosstalk Attenuation)



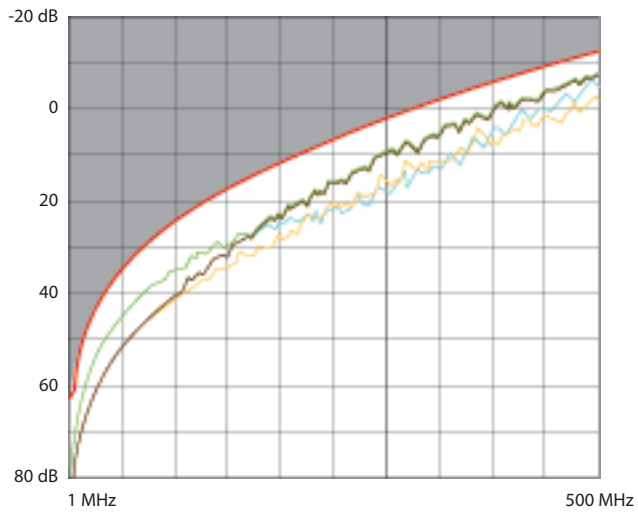
PS NEXT (Power Sum NEXT)



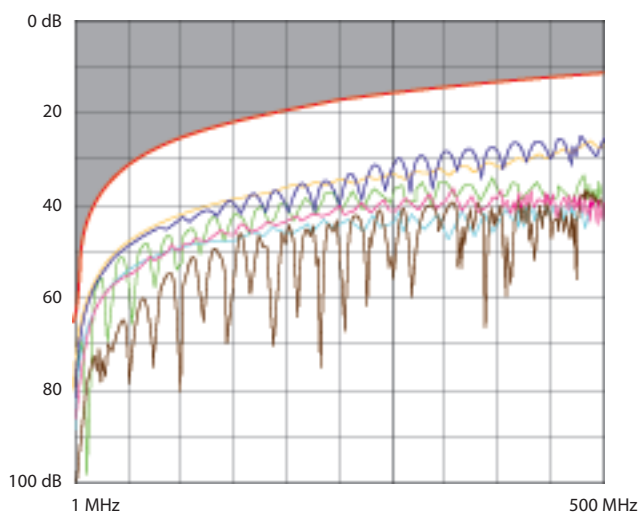
8. PERFORMANCE (cont.)

■ 8.3 Channel performance (cont.)

ACR (Attenuation to Crosstalk Ratio)



ELFEXT (Equal Level End Crosstalk Attenuation)



Delay skew

