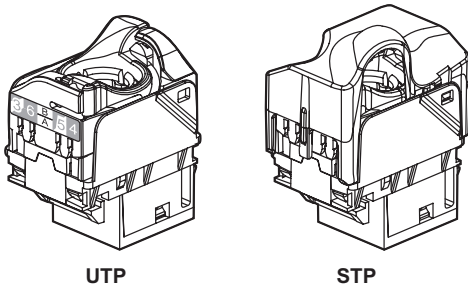


LCS2 Cat. 6A RJ 45

Cat. No(s): 0 331 54/55





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4. Overall dimensions	2
5. Usual connection of RJ45 sockets	2-3
6. Standards and approvals	3
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1. GENERAL CHARACTERISTICS

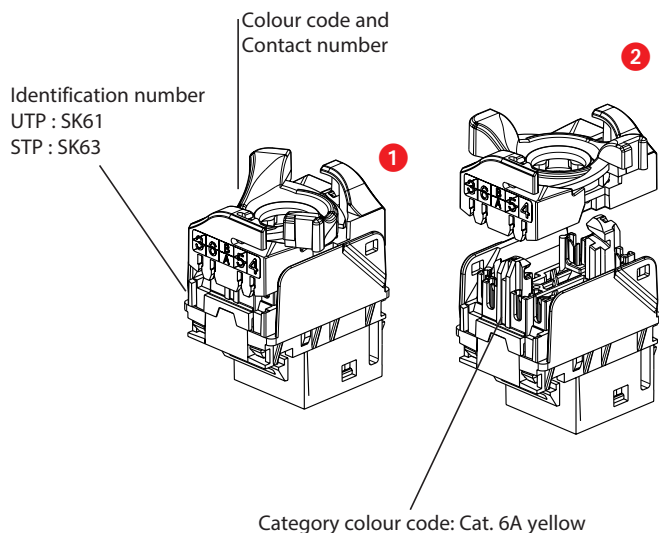
Cat. 6A RJ 45 terminal socket for high speed connection to a network.
Enables data transmission at 10 Gbit/s.
Socket is used with F/UTP or S/FTP cables.

2. PRESENTATION

Référence	Désignation	UTP 	STP 
0 331 55	Keystone RJ45 UTP socket cat.6A	SK61	
0 331 54	Keystone RJ45 STP socket cat.6A		SK63

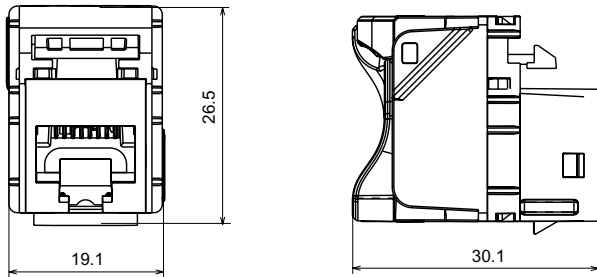
3. TECHNICAL CHARACTERISTICS

- 3.1 Material characteristics
Contacts: gold/nickel, minimum thickness of gold > 0.8 µm
Metal parts: bronze, nickel, platinum, gold
PBT polycarbonate
For STP products the body and the spreader are made of metal alloy with a copper-nickel coating.
- 3.2 Electrical characteristics
Breakdown voltage ≥ 1000 V
Contact resistance ≤ 20 mΩ
Insulation resistance ≥ 500 MΩ at 100 V DC
Tested and independently certified to comply with IEC 60512-99-001 and IEC 60512-99-002 for PoE support up to 90w (Type 4).
- 3.3 Mechanical characteristics
Max. number of connections and disconnections: 5 without refreshing the wiring.
Endurance: 2500 movements (plug insertion/withdrawal)
IK03
- 3.4 Climatic characteristics
Operating temperature: - 10° C to + 60° C
Humid heat cycle 21 days

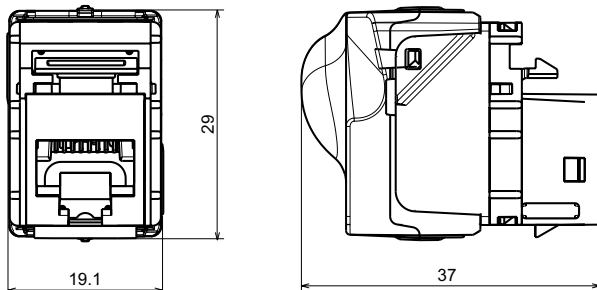


4. OVERALL DIMENSIONS

0 331 55



0 331 54



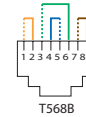
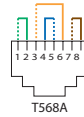
5. USUAL CONNECTION OF RJ 45S

Accepts the following cable connectors:

RJ11 (4 contacts), RJ12 (6 contacts), RJ45 (9 contacts).

Double colour code T568A and T568B on terminals:

- STP 9 contacts 360° screen

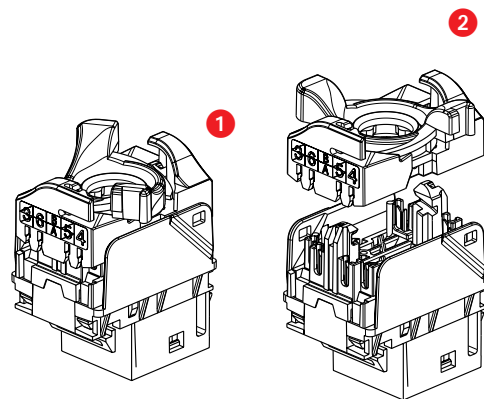


Conductors supported:

- 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.

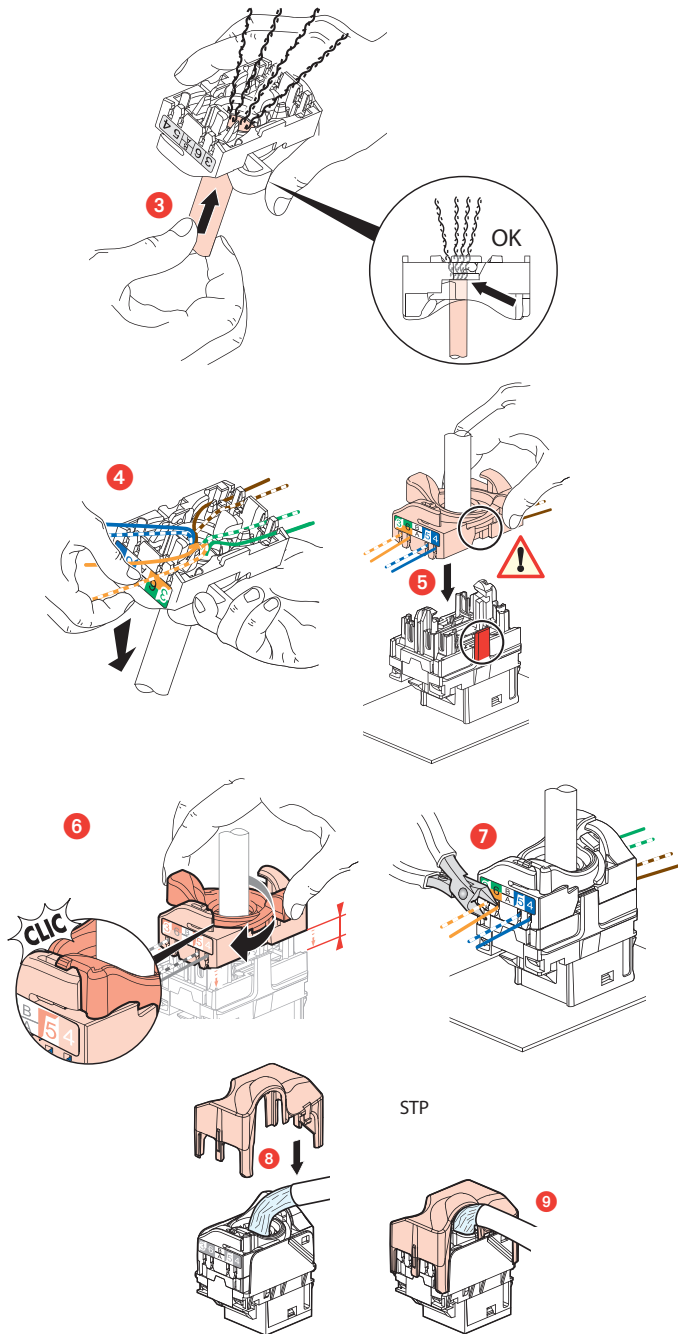


5. USUAL CONNECTION OF RJ 45S (cont.)

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.



6. 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

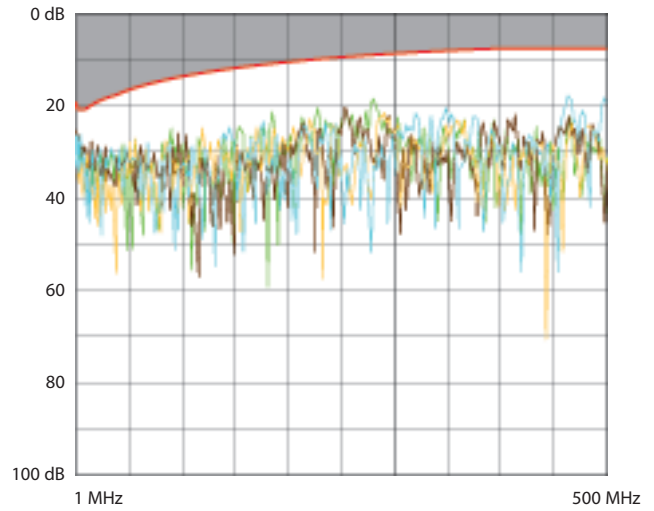
Connectors are compliant to requirements for the following remote powering applications

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

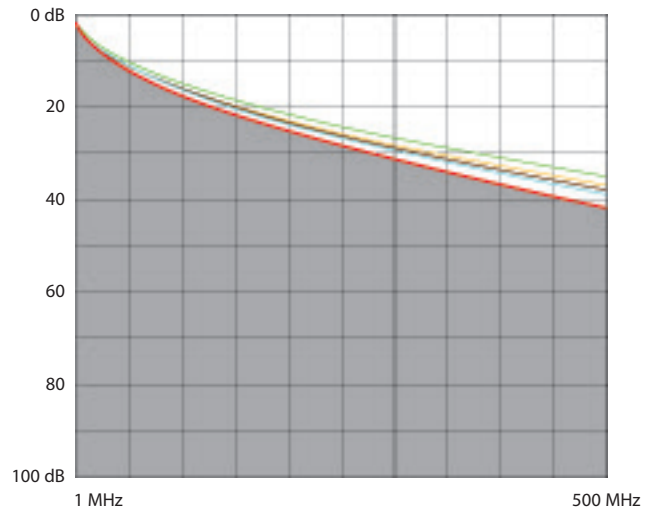
7. PERFORMANCE

7.1 Performance of permanent link with F/UTP cable

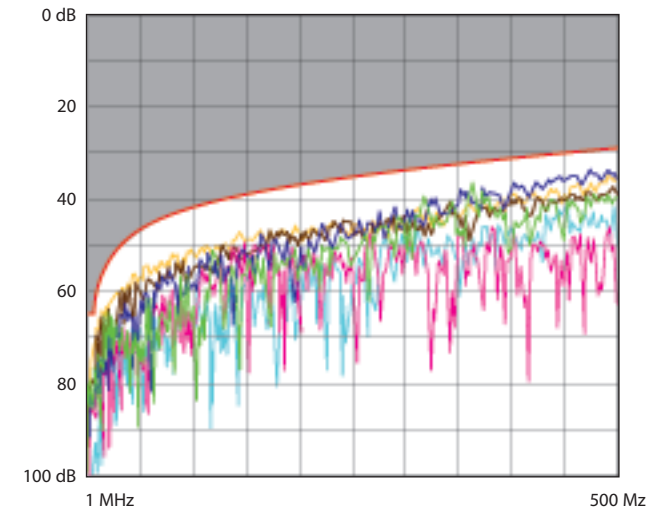
Return loss



Attenuation

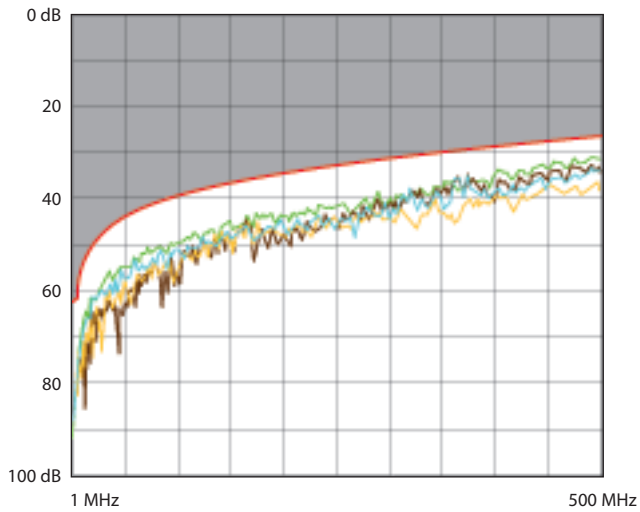


NEXT (Near end Crosstalk Attenuation)

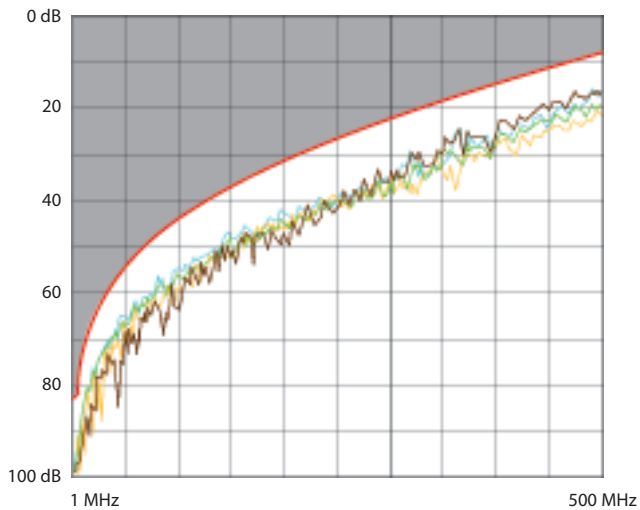


7. PERFORMANCE (cont.)

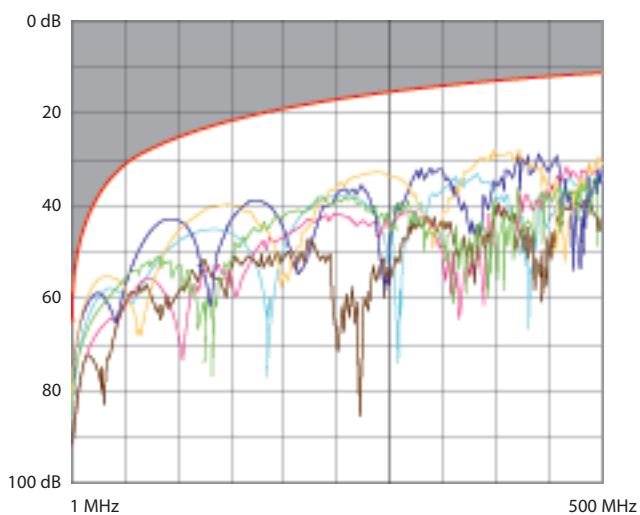
7.1 Performance of permanent link with F/UTP cable (cont.)
PS NEXT (Power Sum NEXT)



ACR (Attenuation to Crosstalk Ratio)

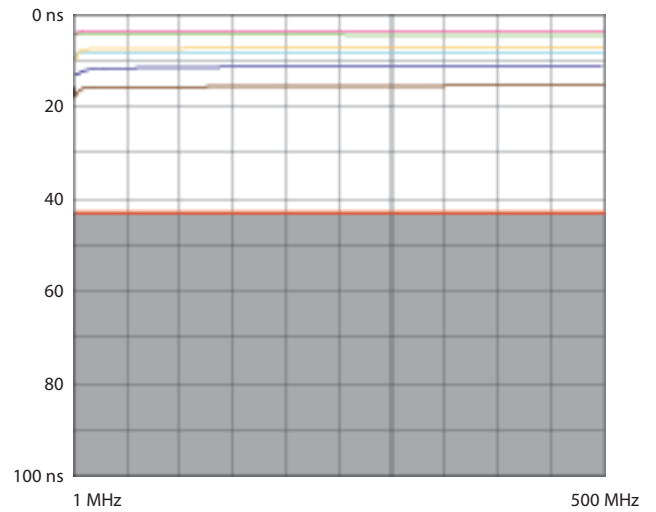


ELFEXT (Equal Level End Crosstalk Attenuation)



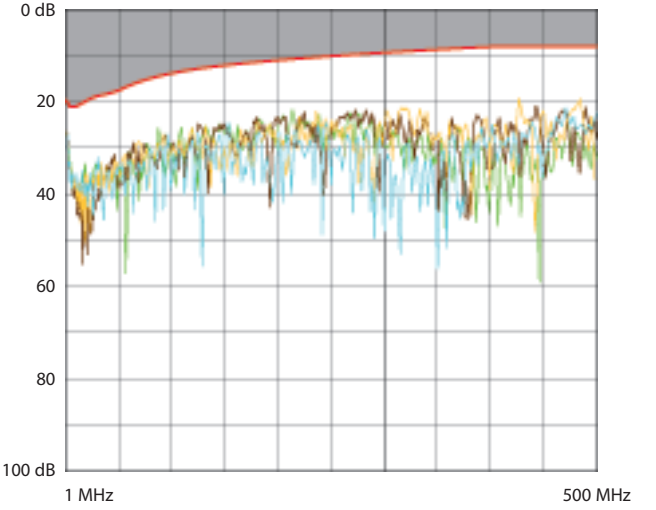
7. PERFORMANCE (cont.)

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

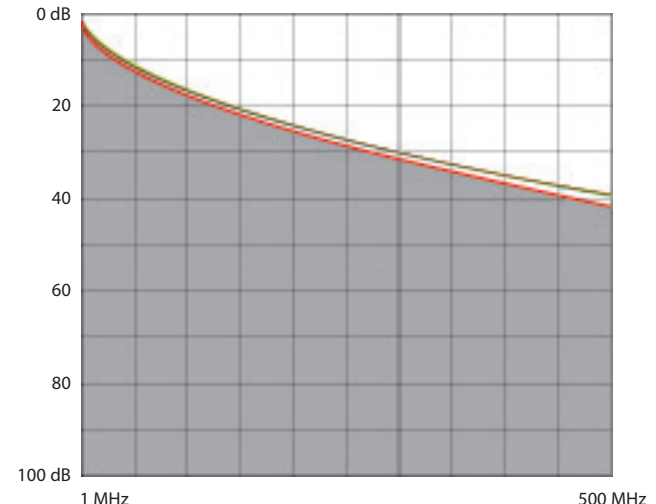


7.2 Performance of permanent link with S/FTP cable

Return loss

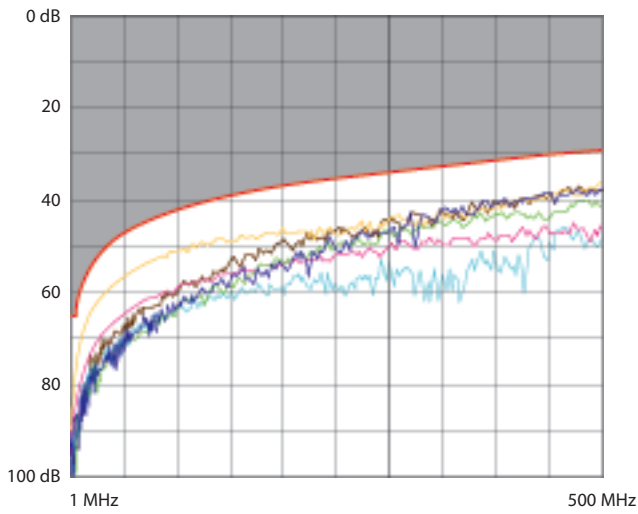


Attenuation

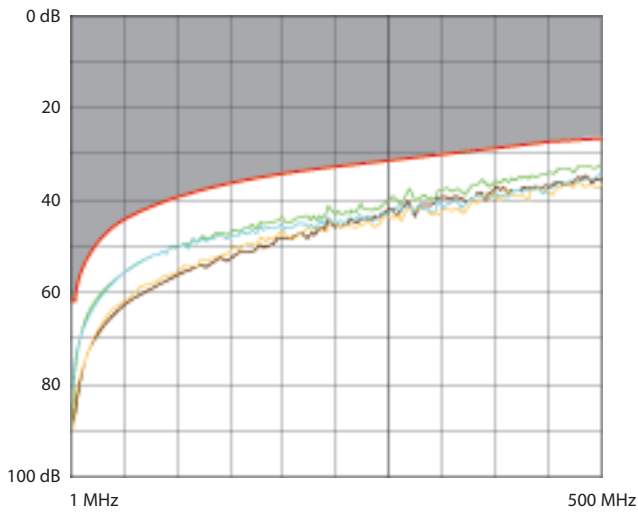


7. PERFORMANCE (cont.)

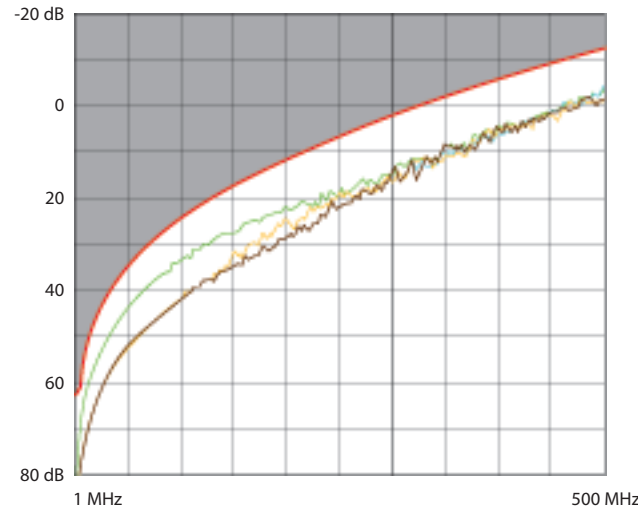
7.2 Performance of permanent link with S/FTP cable (cont.)
NEXT (Near end Crosstalk Attenuation)



PS NEXT (Power Sum NEXT)

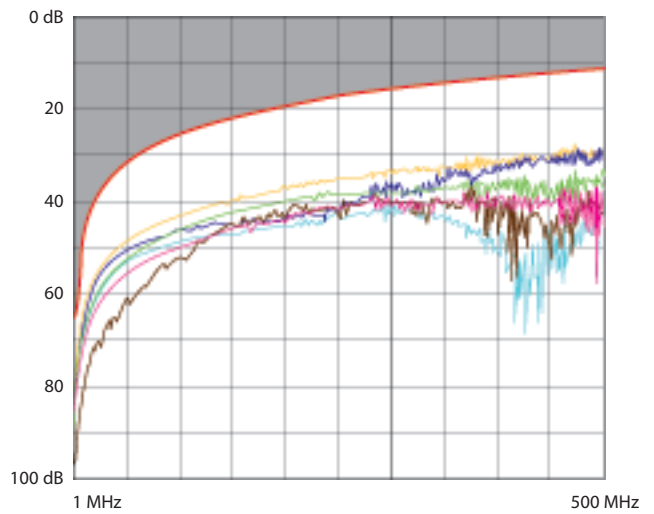


ACR (Attenuation to Crosstalk Ratio)

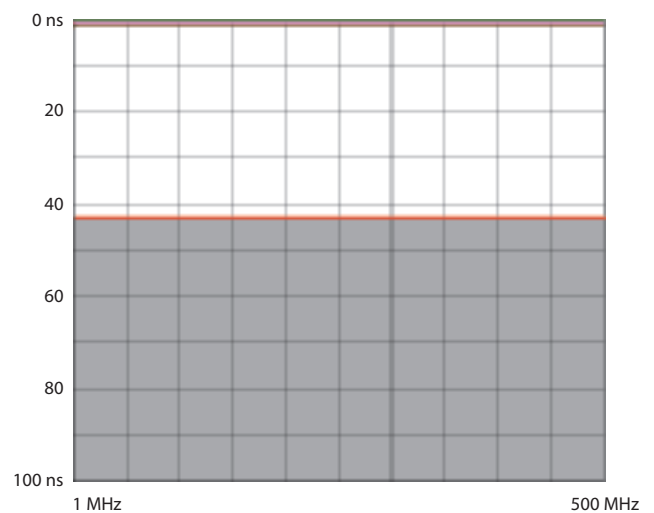


7. PERFORMANCE (cont.)

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

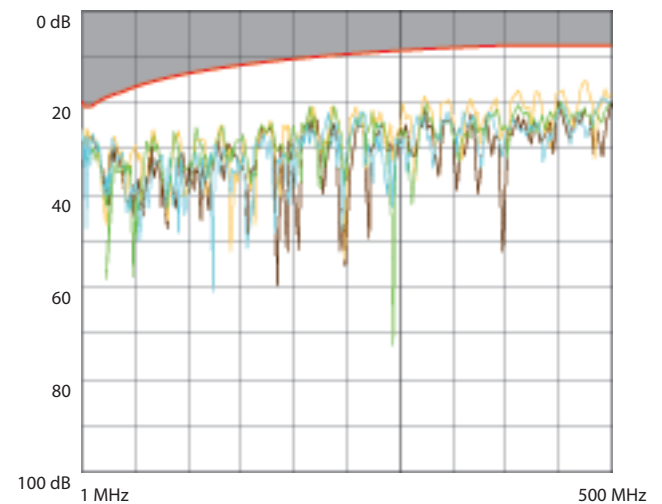


Delay skew



7.3 Performances canal (Channel)

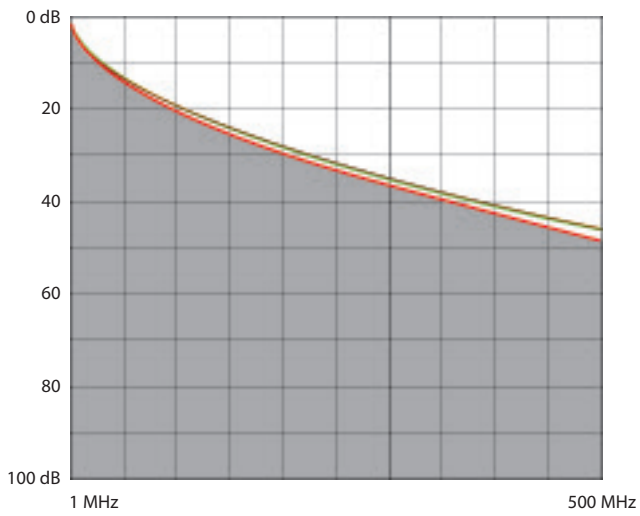
Return loss



7. PERFORMANCE (cont.)

7.3 Channel performance (cont.)

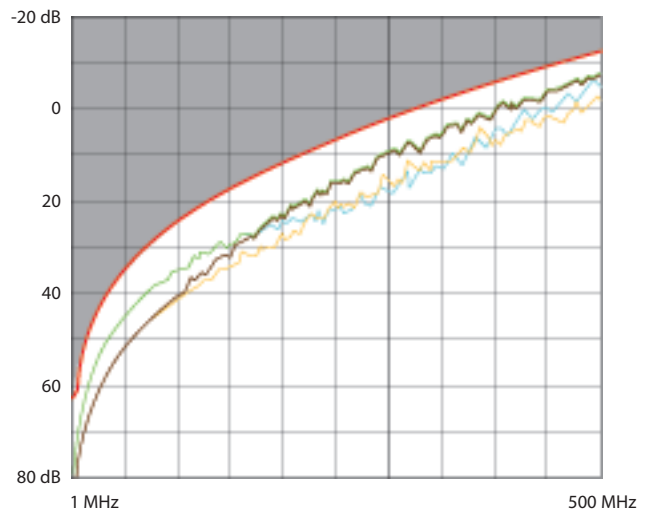
Attenuation



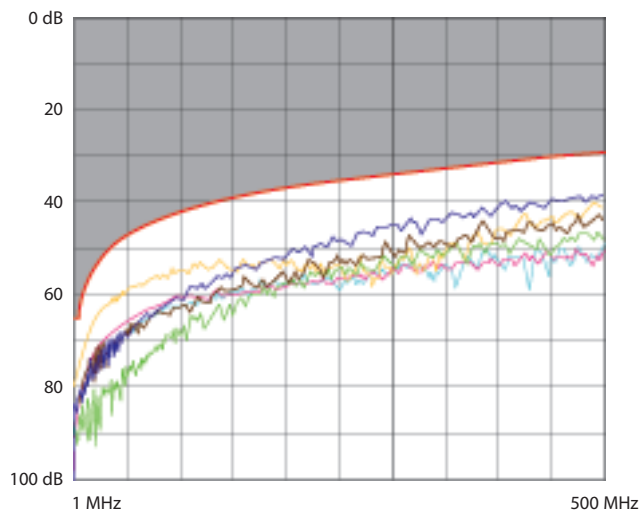
7. PERFORMANCE (cont.)

7.3 Performances canal (Channel) (cont.)

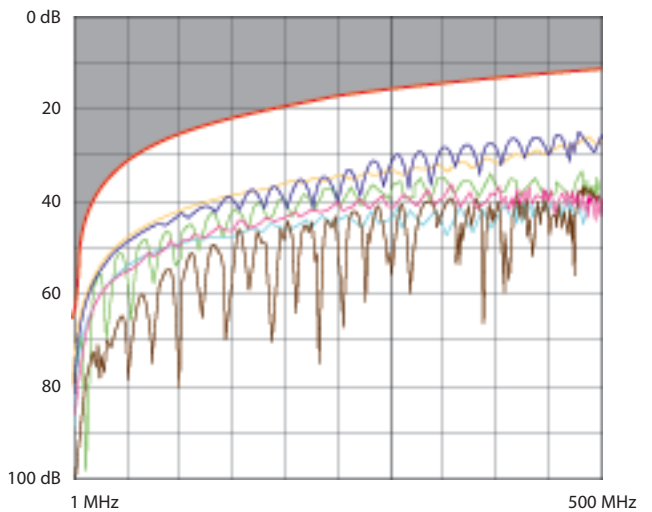
ACR (Attenuation to Crosstalk Ratio)



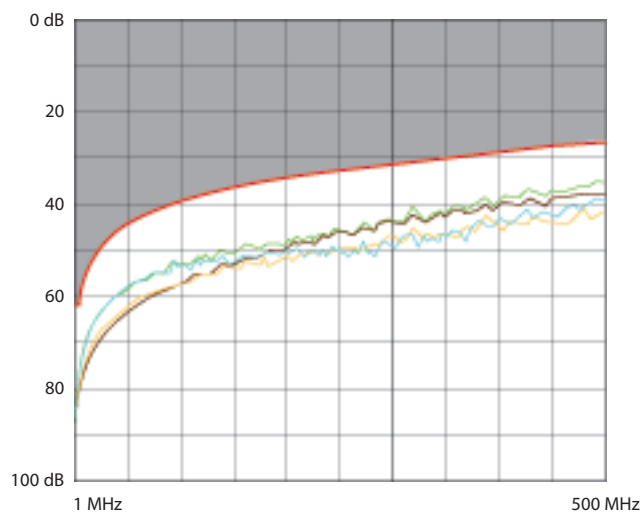
NEXT (Near end Crosstalk Attenuation)



ELFEXT (Equal Level End Crosstalk Attenuation)



PS NEXT (Power Sum NEXT)



Delay skew

