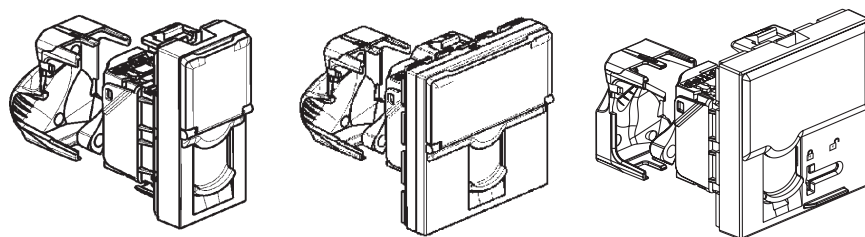


Arteor™ Advance LCS2 Cat. 6A STP RJ 45 socket

Cat. No(s): AC4305DB/CH/MB/MT/MW/RS
AC4311MB/MT/MW
AC4312MB/MT/MW



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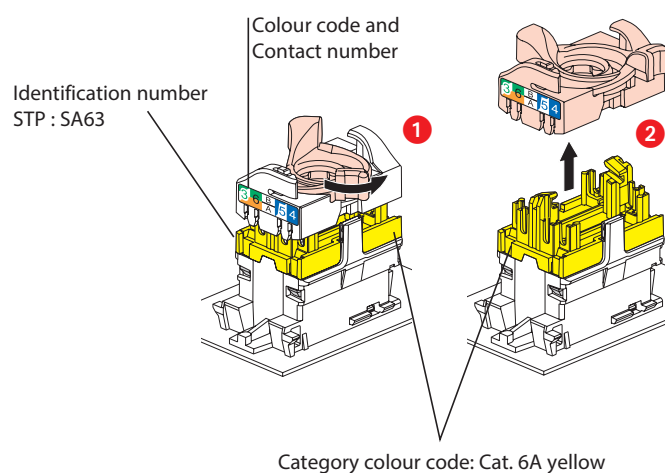
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1. GENERAL CHARACTERISTICS

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

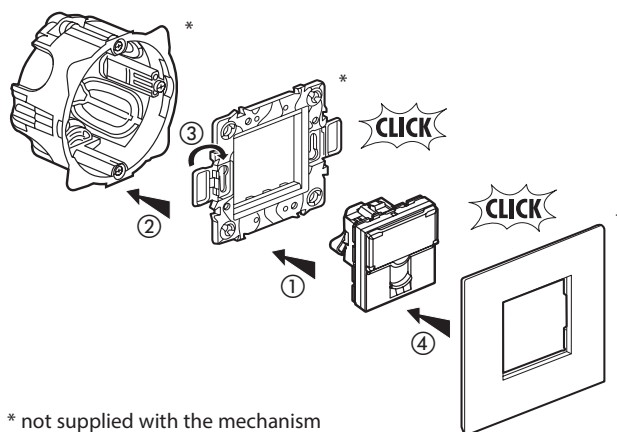
2. PRESENTATION

Description	Colour	Cat. No.	Modules
RJ45 CAT6A STP Socket	Champagne	AC4305CH	1
	Bronze	AC4305DB	1
	Matt Black	AC4305MB	1
	Matt Titanium	AC4305MT	1
	Matt White	AC4305MW	1
	Rose	AC4305RS	1
	Matt Black	AC4311MB	2
	Matt Titanium	AC4311MT	2
	Matt White	AC4311MW	2
RJ45 CAT6A STP Security Socket	Matt Black	AC4312MB	2
	Matt Titanium	AC4312MT	2
	Matt White	AC4312MW	2

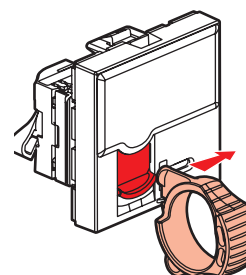


3. REAL LIFE SCENARIOS

Mechanisms can be flush-mounted or surface-mounted.



Unlocking



0 334 80

Arteor™ Advance

LCS2 Cat. 6A STP RJ 45 socket

Cat. No(s): AC4305DB/CH/MB/MT/MW/RS
AC4311MB/MT/MW
AC4312MB/MT/MW

4. TECHNICAL CHARACTERISTICS

4.1 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.

4.2 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).

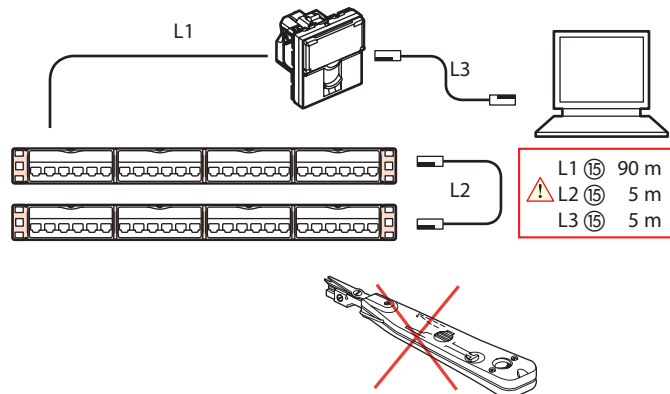
4.3 Mechanical characteristics

Max. number of connections and disconnections: 5 without refreshing the wiring.
Endurance: 2500 movements (plug insertion/withdrawal)
IK03

4.4 Climatic characteristics

Operating temperature: - 10° C to + 60° C
Humid heat cycle 21 days

5. CONNECTION

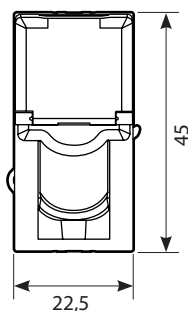
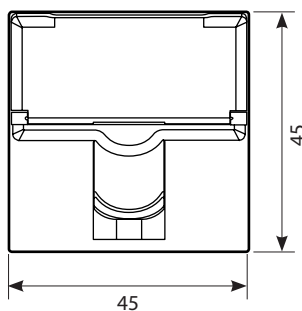


6. OVERALL DIMENSIONS

Front view:

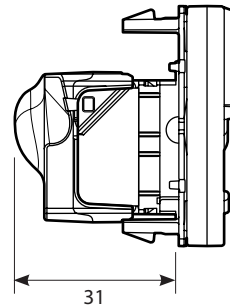
AC4311MB/MT/MW
AC4312MB/MT/MW

AC4305DB/CH/MB/MT/MW/RS



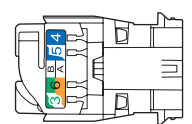
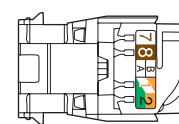
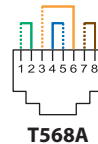
6. OVERALL DIMENSIONS (cont.)

Side view:



7. USUAL CONNECTION OF RJ 45

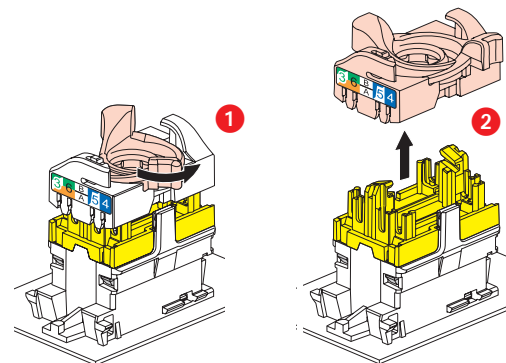
Accepts the following cable connectors:
RJ11 (4 contacts), RJ12 (6 contacts), RJ45 (9 contacts).
Double colour code T568A and T568B on terminals:
- STP 9 contacts 360° screen



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.

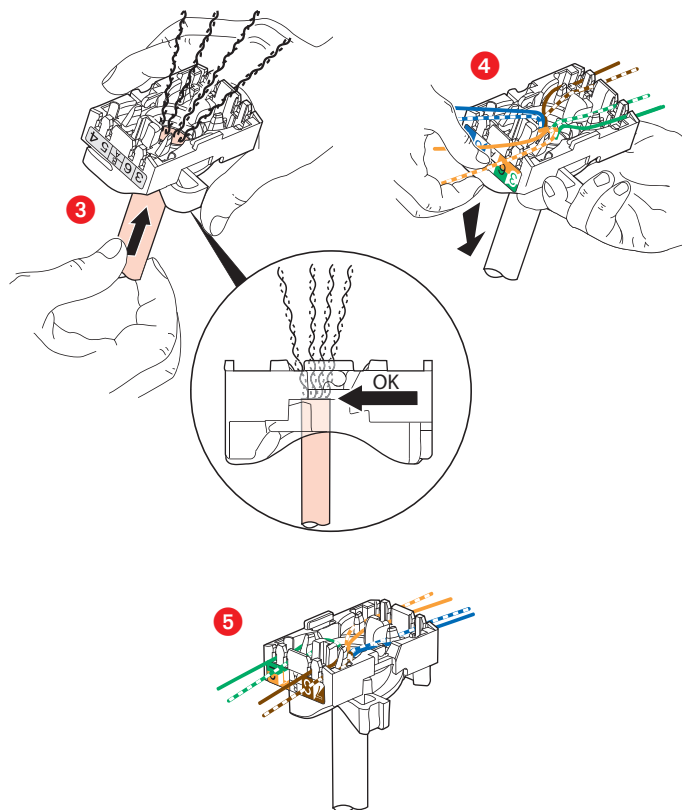


Arteor™ Advance LCS2 Cat. 6A STP RJ 45 socket

Cat. No(s): AC4305DB/CH/MB/MT/MW/RS
AC4311MB/MT/MW
AC4312MB/MT/MW

7. USUAL CONNECTION OF RJ 45 (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.

8. STANDARDS AND APPROVALS

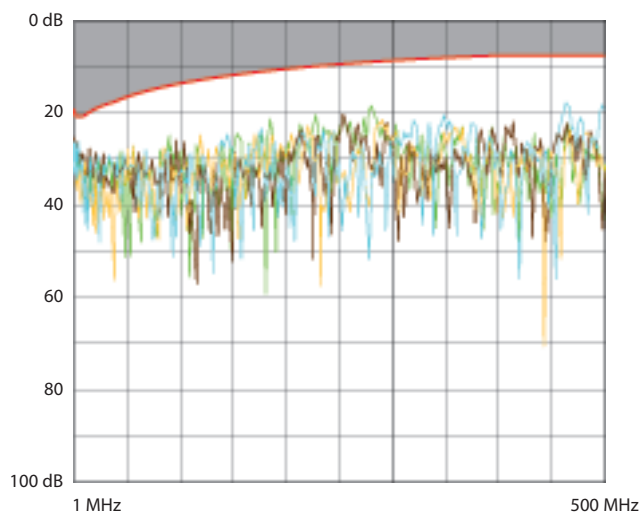
ISO/IEC 11801 series : International standard for generic cabling for customer premises
ANSI/TIA 568 series : North American standard for generic cabling for customer premises
EN 50173 series : European standard for generic cabling for customer premises
IEC 60603-7 series : International standard for 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 90W.

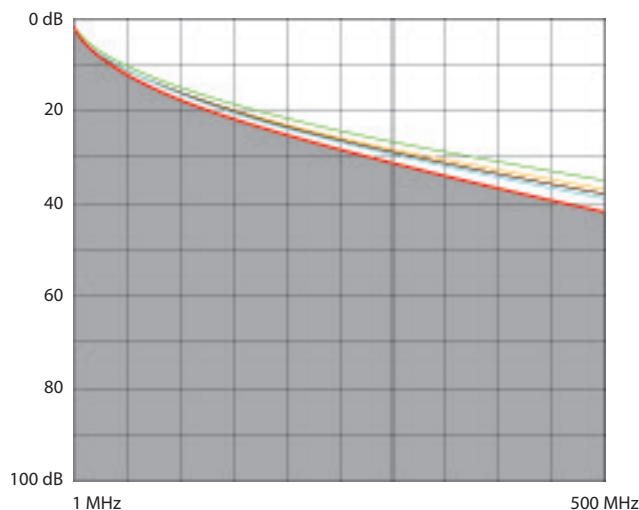
9. PERFORMANCE

9.1 Performance of permanent link with F/UTP cable

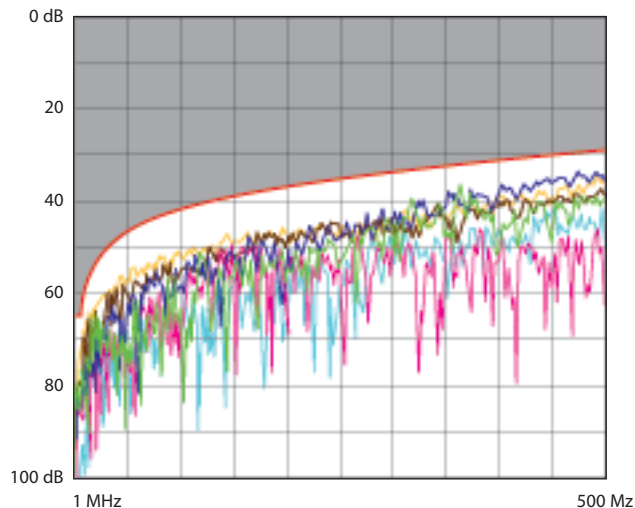
Return loss



Attenuation



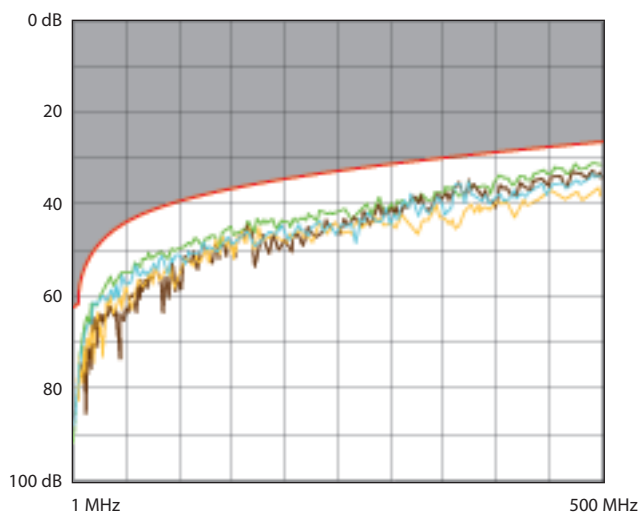
NEXT (Near end Crosstalk Attenuation)



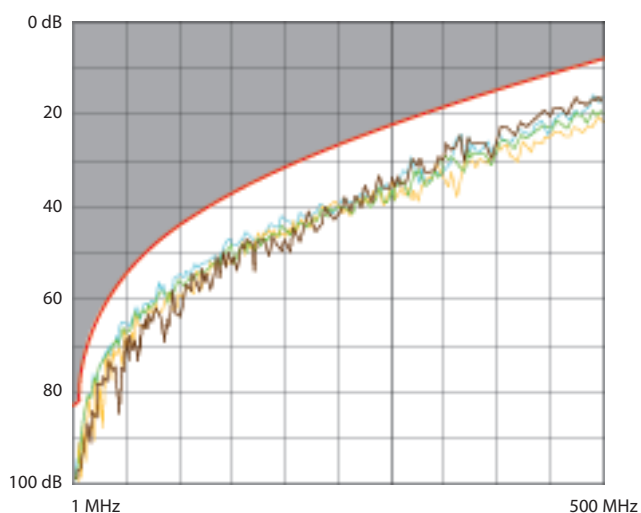
9. PERFORMANCE (cont.)

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

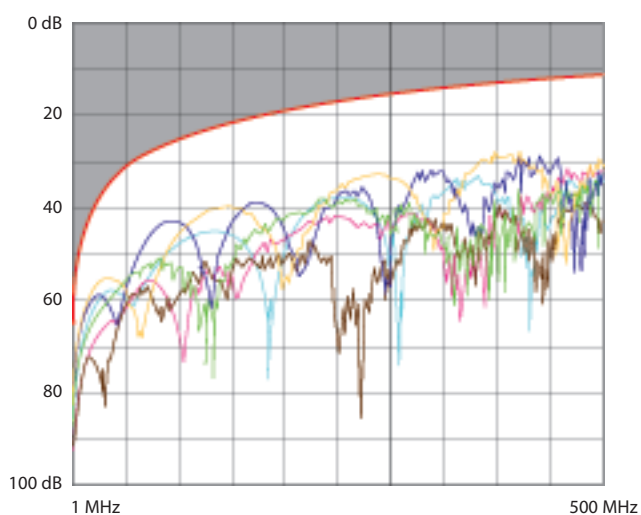
PS NEXT (Power Sum NEXT)



ACR-N (Attenuation to Crosstalk Ratio)



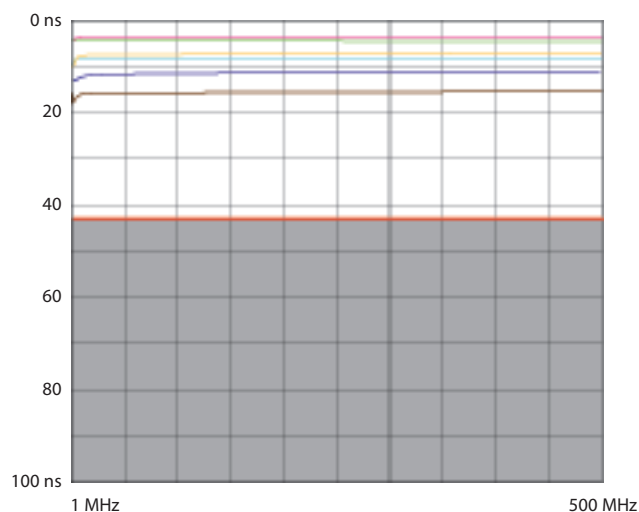
ACR-F (Equal Level End Crosstalk Attenuation)



9. PERFORMANCE (cont.)

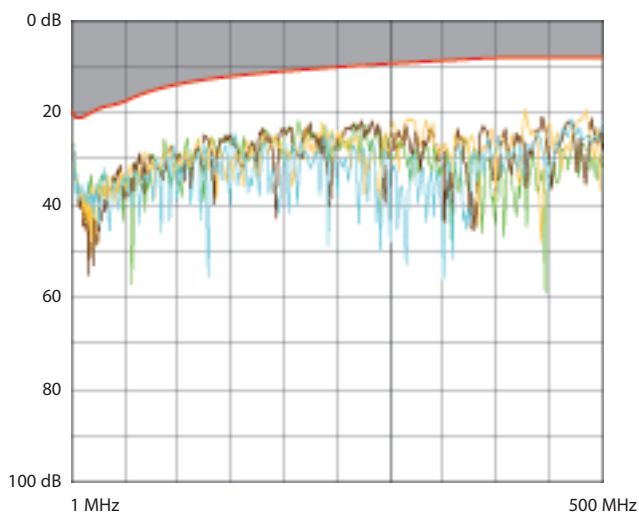
9.1 Performance of permanent link with F/UTP cable (cont.)

Delay skew

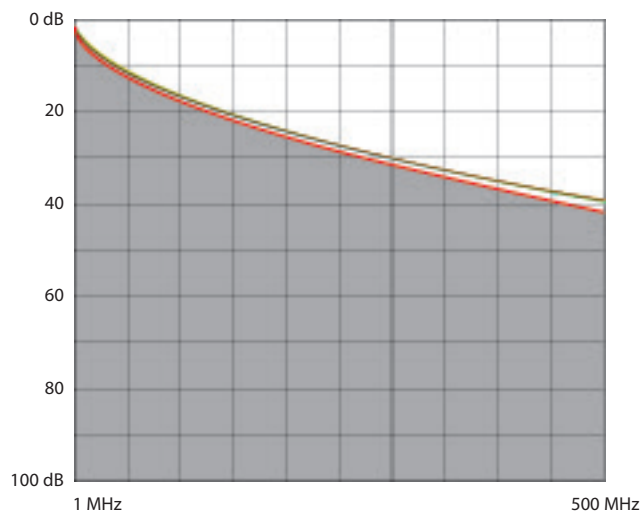


9.2 Performance of permanent link with S/FTP cable

Return loss

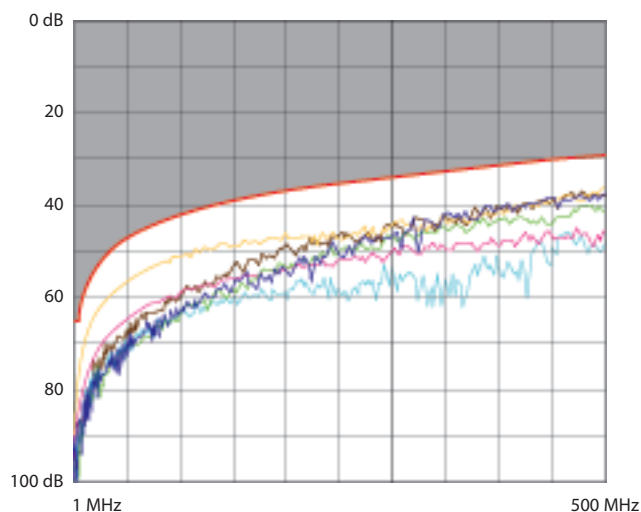


Attenuation

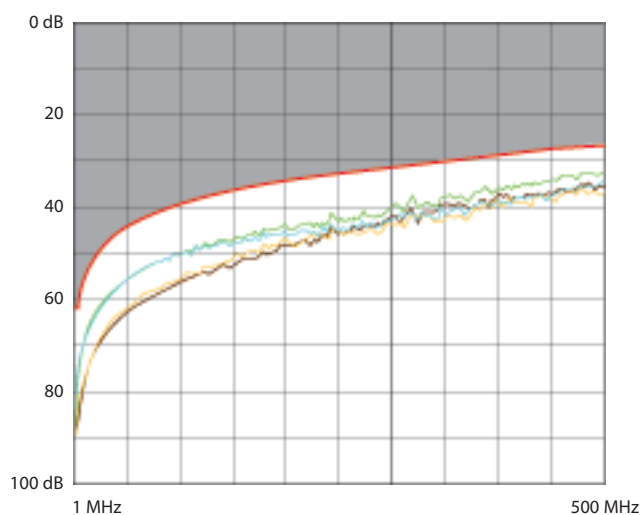


9. PERFORMANCE (cont.)

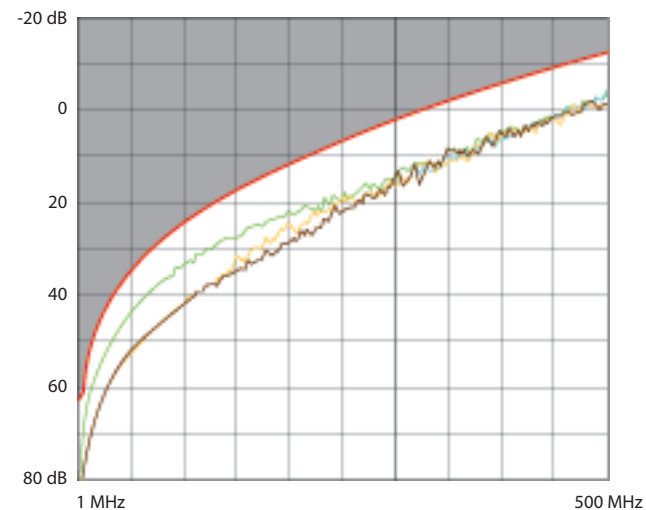
9.2 Performance of permanent link with S/FTP cable (cont.) NEXT (Near end Crosstalk Attenuation)



PS NEXT (Power Sum NEXT)

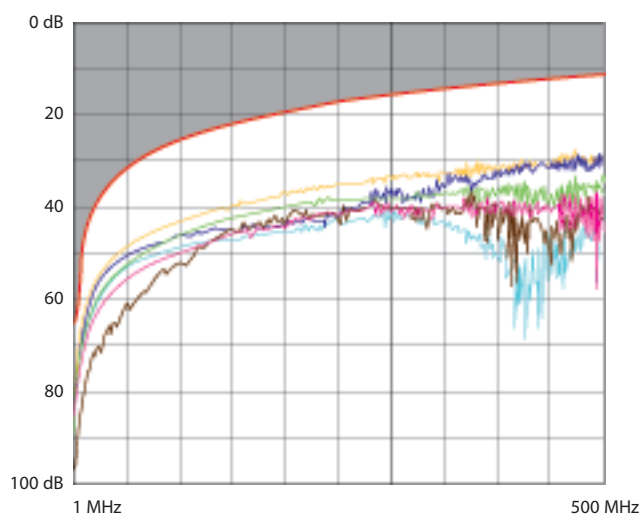


ACR-N (Attenuation to Crosstalk Ratio)

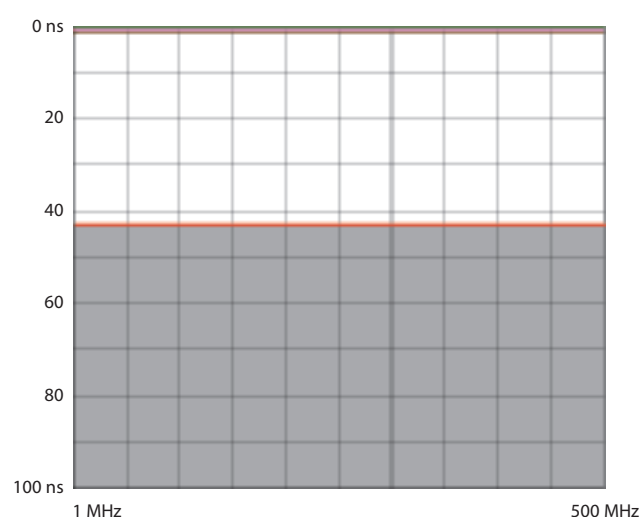


9. PERFORMANCE (cont.)

9.2 Performance of permanent link with S/FTP cable (cont.) ACR-F (Equal Level End Crosstalk Attenuation)

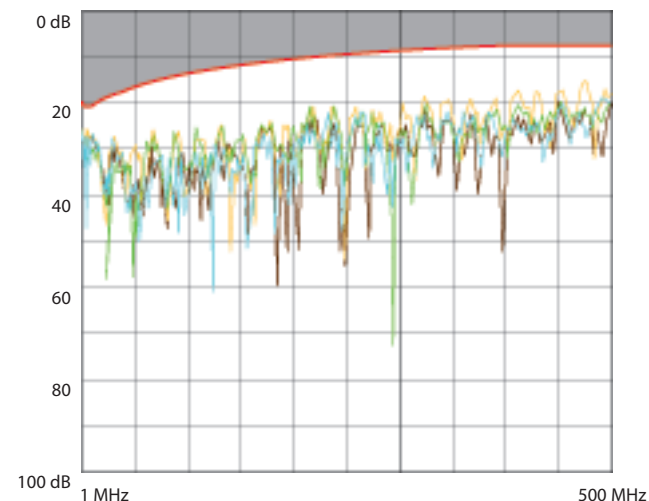


Delay skew



9.3 Performances canal (Channel)

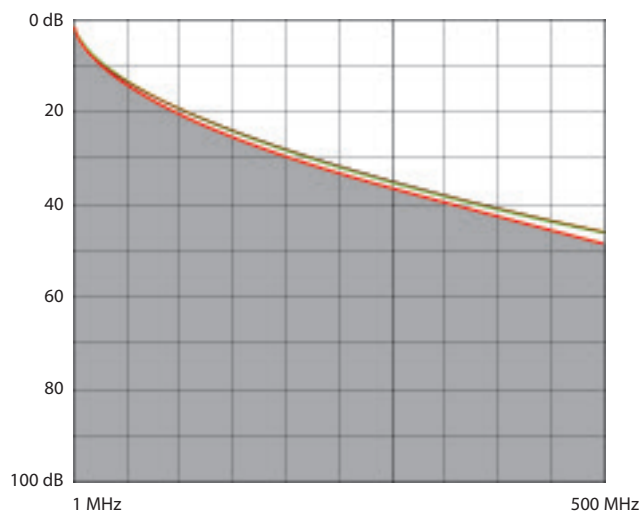
Return loss



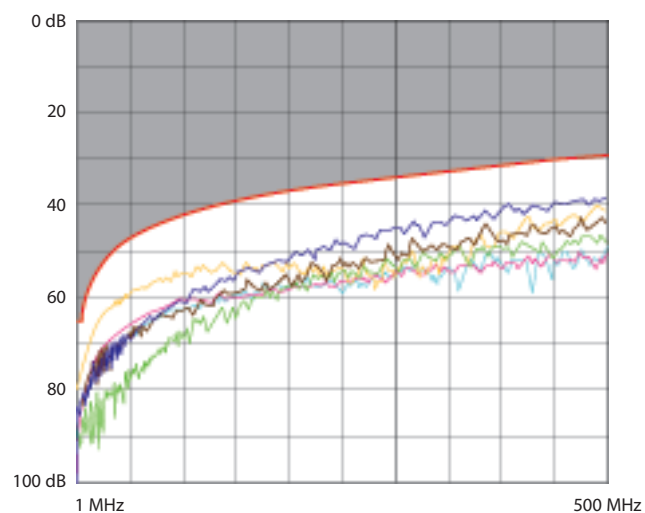
9. PERFORMANCE (cont.)

9.3 Channel performance (cont.)

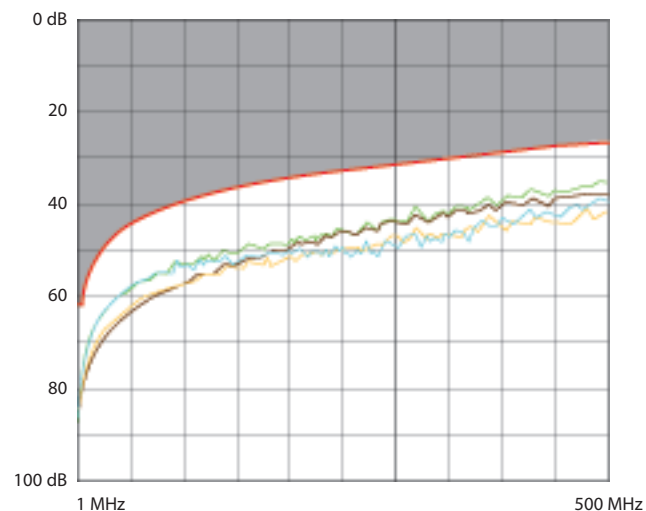
Attenuation



NEXT (Near end Crosstalk Attenuation)



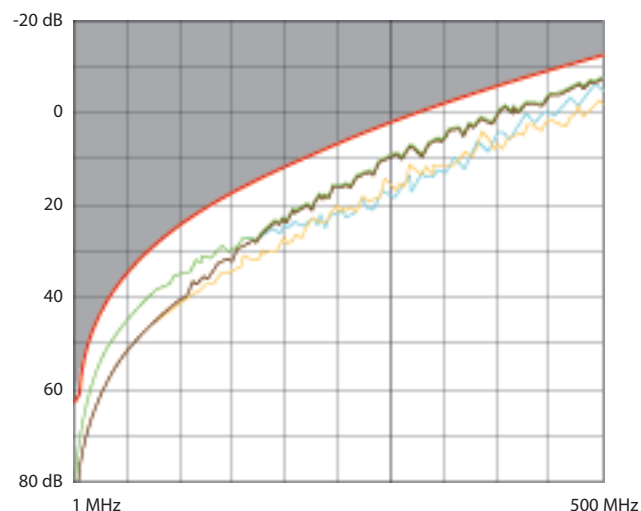
PS NEXT (Power Sum NEXT)



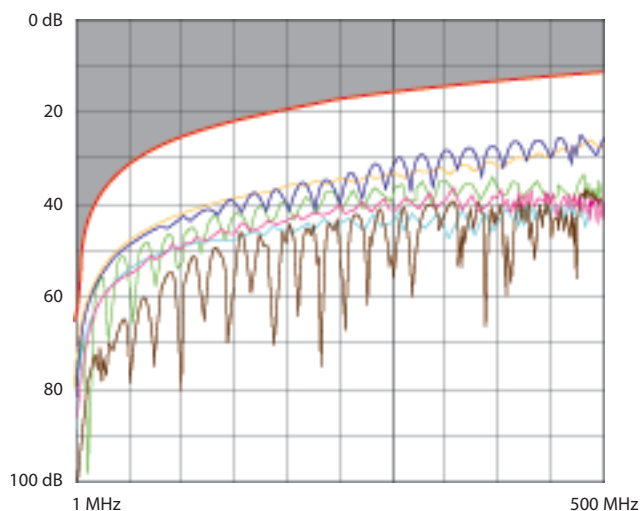
9. PERFORMANCE (cont.)

9.3 Performances canal (Channel) (cont.)

ACR-N (Attenuation to Crosstalk Ratio)



ACR-F (Equal Level End Crosstalk Attenuation)



Delay skew

