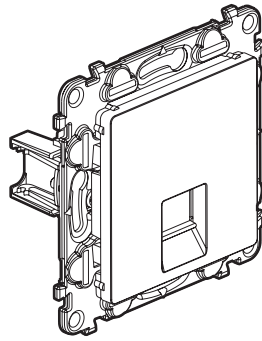
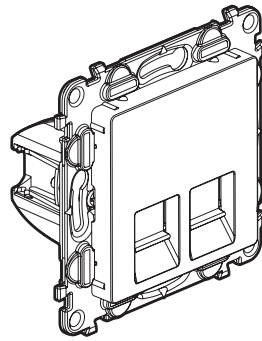


Valena™ Life - Valena™ INMATIC
Cat. 6A STP RJ 45 socket

**Cat. No(s): 7 530 48/49 - 7 531 48/49 - 7 532 48/49 - 7 533 48/49
 7 563 48/49**



7 531 48



7 531 49

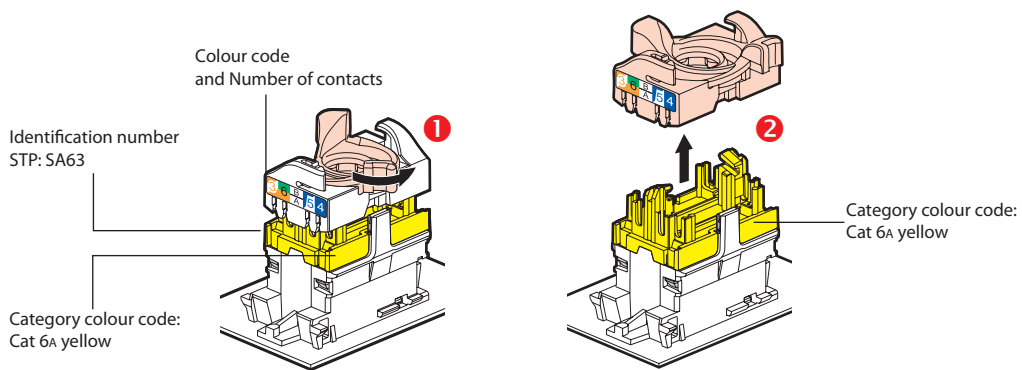
1. USE

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.
 Can be flush mounted in a box min. 40 mm deep.
 To be equipped with plate.

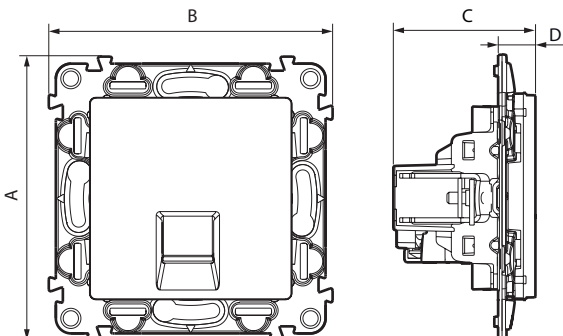
2. RANGE

Designation	Mechanism + cover plate				Mechanism only
	White	Ivory	Aluminium	Black	
STP Cat. 6A STP - with claws	7 531 48	7 532 48	7 533 48	7 563 48	7 530 48
Double STP Cat. 6A STP - with claws	7 531 49	7 532 49	7 533 49	7 563 49	7 530 49

3. PRESENTATION



4. DIMENSIONS (mm)

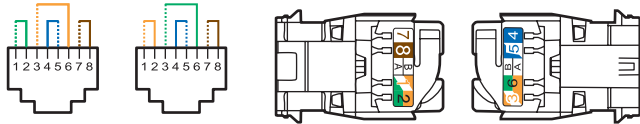


Cat. Nos	A	B	C	D
7 531 48/49 - 7 532 48/48 7 533 48/49 - 7 563 48/49	75	75	37	10
7 530 48/49	75	75	35	8

5. 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



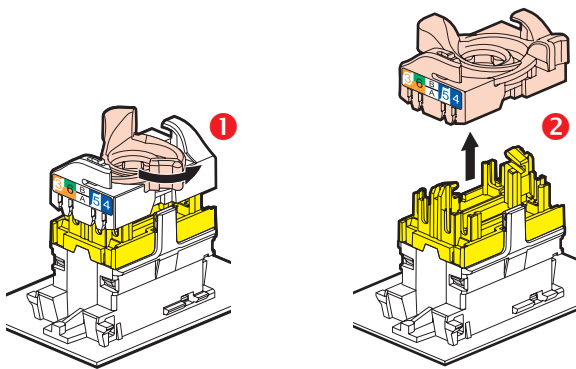
EIA 568 A EIA 568 B

Conductors supported:

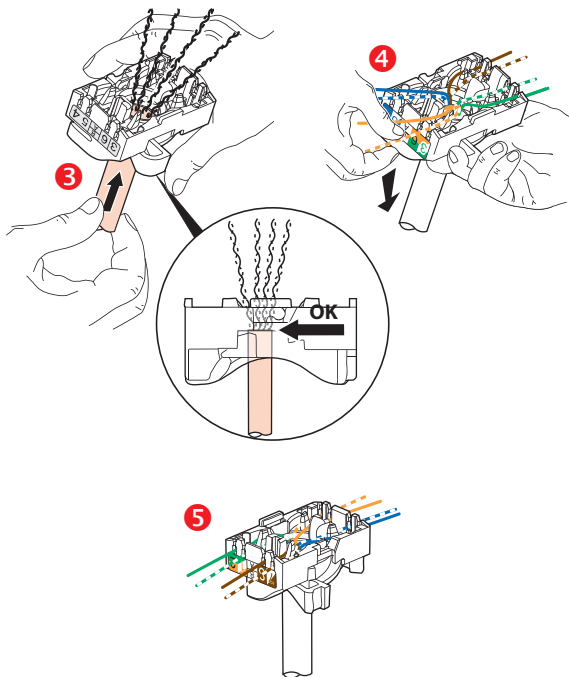
Single core/Multicore: 0.4 to 0.65 mm, AWG 26 to 22

Polyethylene conductor insulation: Ø on insulation 0.85 to 1.7 mm

RJ45 connectors are equipped with a locking nut. They do not require a special tool and can be re-wired if a mistake is made



This system makes it easy to spread pairs before fitting them onto the connector.



Spreading the cables ensures that a pair-breakage distance of 13 mm is kept between each pair.

Spreading pairs at 90° to the cable ensures the best possible performance.

6. CARACTÉRISTIQUES TECHNIQUES

■ 6.1 Mechanical characteristics

Protection against impacts: IK 03

Protection against solid/bodies and liquids: IP 20

Maximum number of connections and disconnections: 5 without replacing the wire.

Endurance: 2500 operations (plugging in/unplugging).

■ 6.2 Material characteristics

• Cover plate: White ABS RAL 9003

Ivory ABS RAL 1013

Painted ABS Aluminium and Black

Halogen-free

UV-resistant

• Motor: Contacts: gold/nickel, thickness of gold > 0.8 µm minimum

Metal parts: bronze, nickel, platinum, gold

For STP products the body and the spreader are made of metal alloy with a copper-nickel coating.

Socle : Polycarbonate

• Support : Polycarbonate grey RAL 7037 + metal

Halogen-free

Self-extinguishing: 650°C/30 s

■ 6.3 Electrical characteristics

Breakdown voltage 1000 VDC

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

Usage temperature: - 10°C to + 60°C

7. CARE

Clean the surface with a cloth.

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

Resistant to the following products: Hexane, methylated spirit, soapy water, diluted ammonia, bleach diluted to 10%, window-cleaning products, pre-impregnated wipes.

Caution: Always test before using special cleaning products.

8. STANDARDS AND APPROVALS

Connectors are compliant to requirements for the following remote powering applications IEEE 802.3af, IEEE 802.3at, IEEE 802.3bt: "Power over Ethernet", Type 1 to 4, up to 90 W.

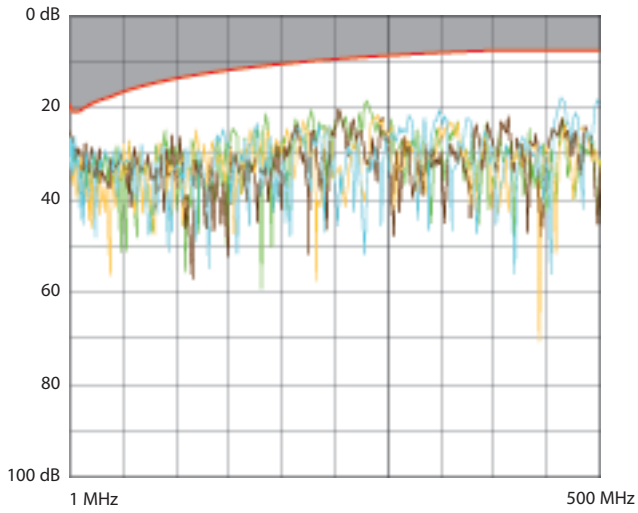
Compliant with installation and manufacturing standards.

See e-catalogue.

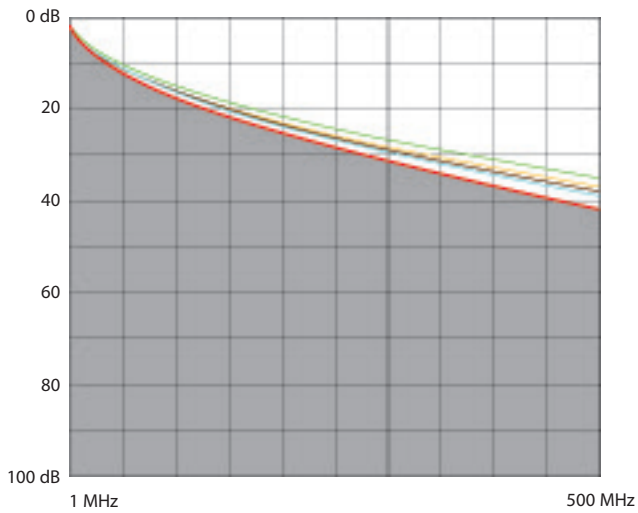
9. PERFORMANCE

■ 9.1 Performance of permanent link with F/UTP cable

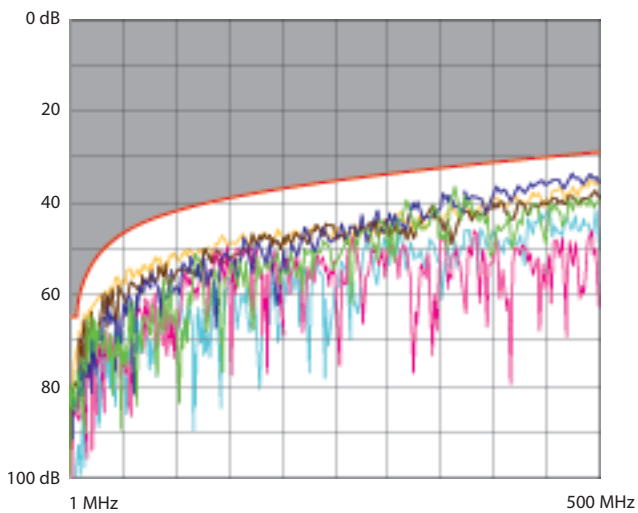
Return loss



Attenuation



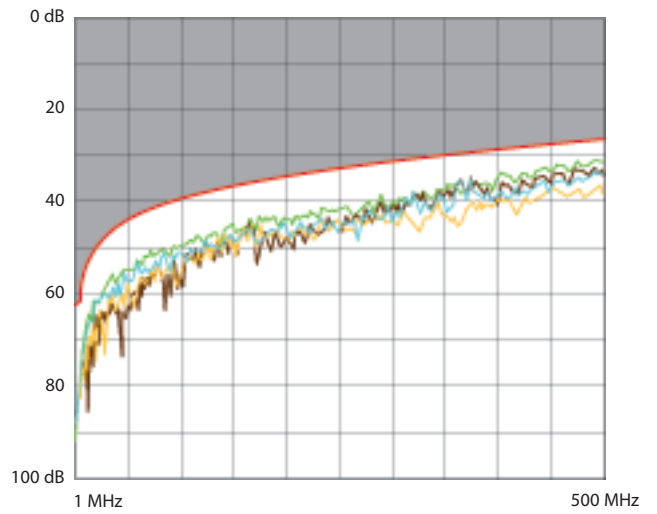
NEXT (Near end Crosstalk Attenuation)



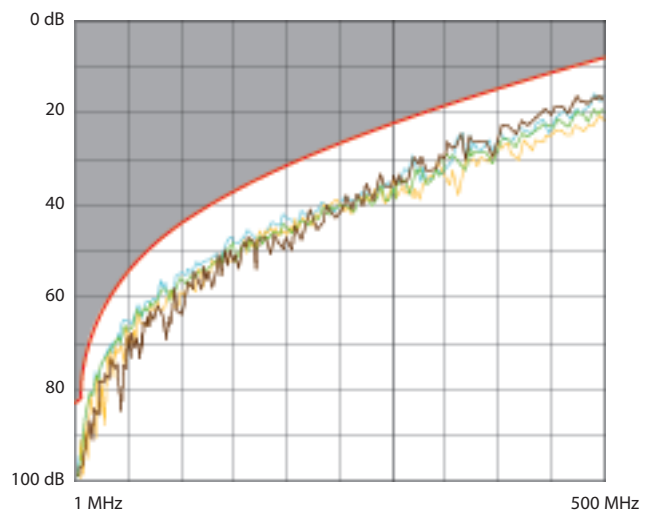
9. PERFORMANCES (continued)

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

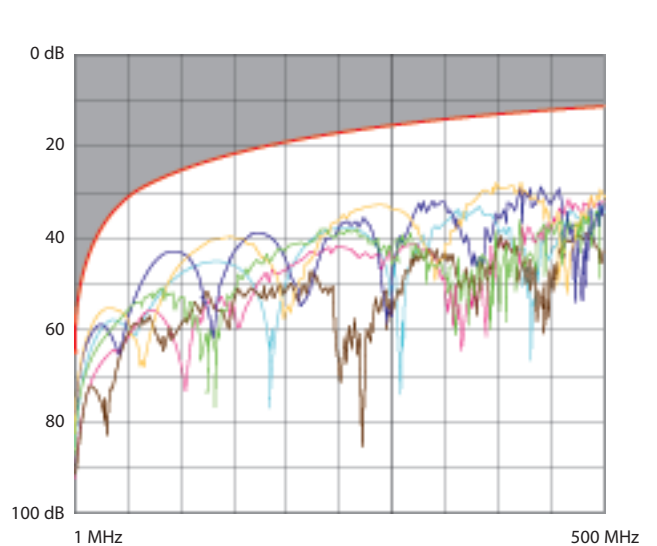
PS NEXT



ACR (Attenuation to Crosstalk Ratio)

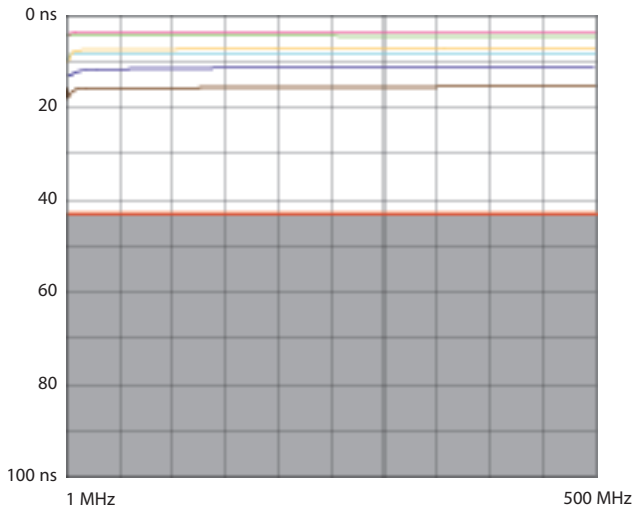


ELFEXT (Equal Level End Crosstalk Attenuation)

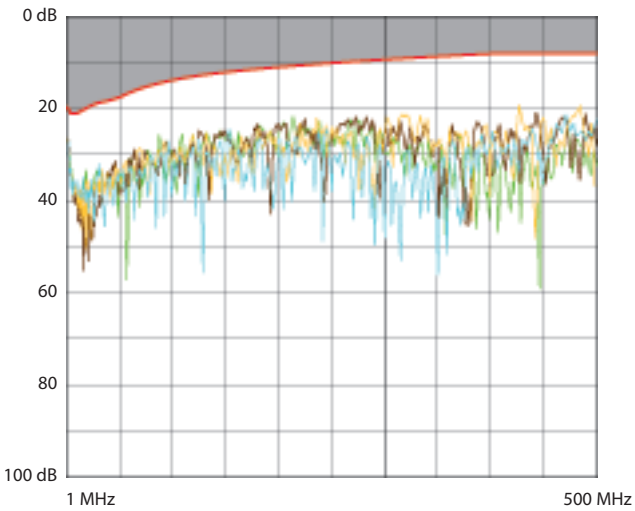


9. PERFORMANCE (cont.)

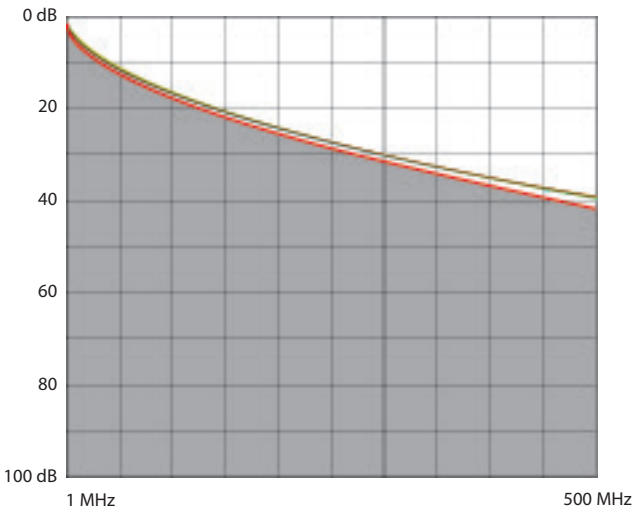
■ **9.1 Performance of permanent link with F/UTP cable (cont.)**
 Delay skew



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

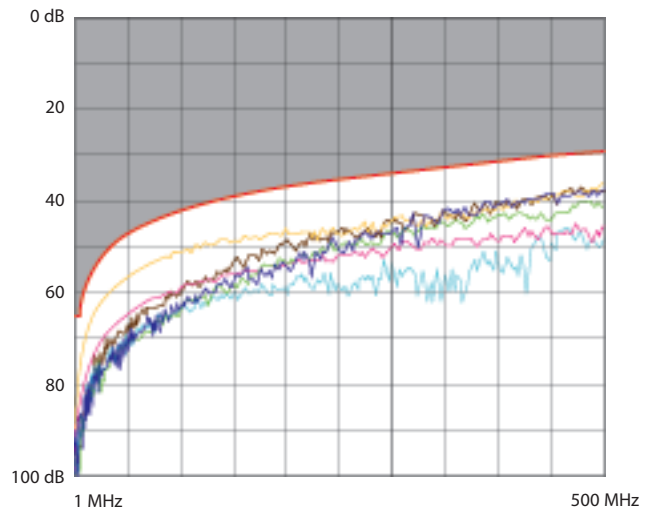


Attenuation

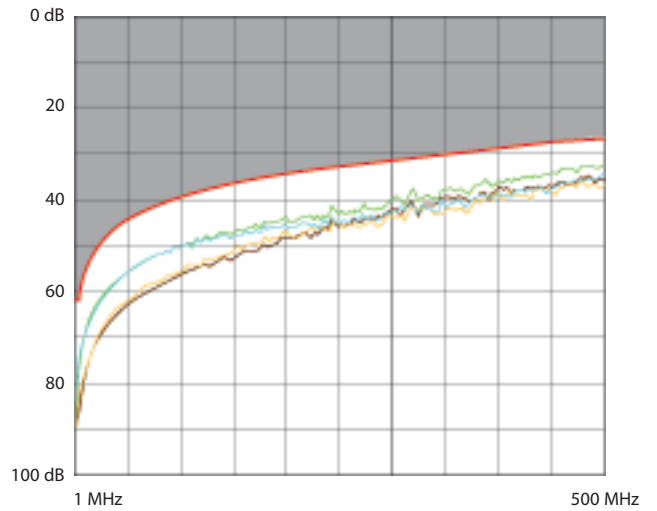


9. PERFORMANCE (cont.)

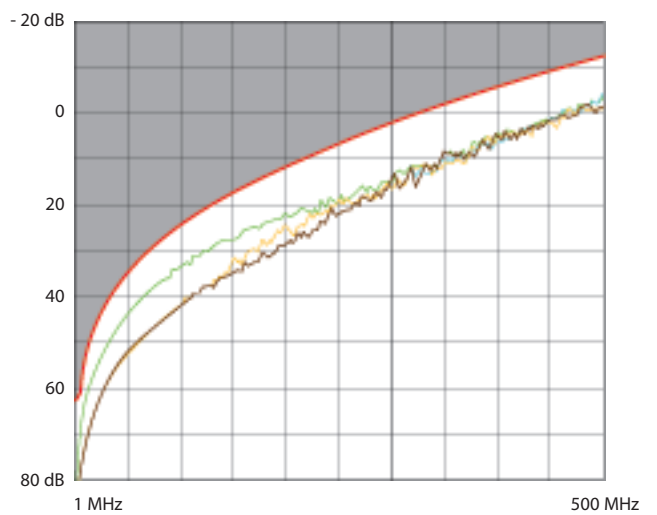
■ **9.2 Performance of permanent link with S/FTP cable (cont.)**
 NEXT (Near end Crosstalk Attenuation)



PS NEXT (Power Sum NEXT)

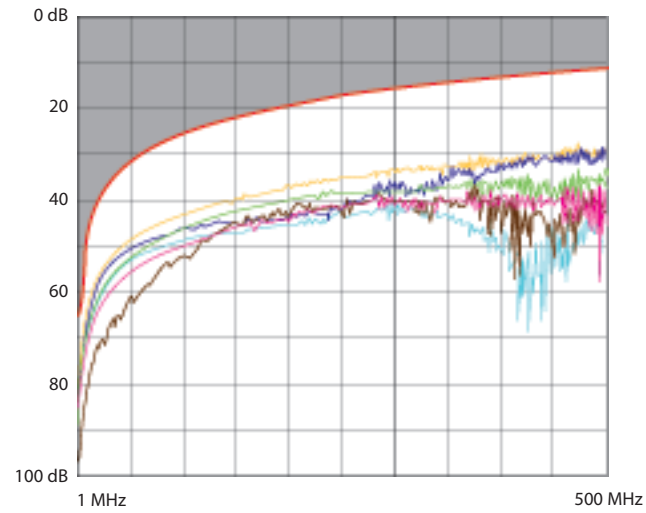


ACR (Attenuation to Crosstalk Ratio)

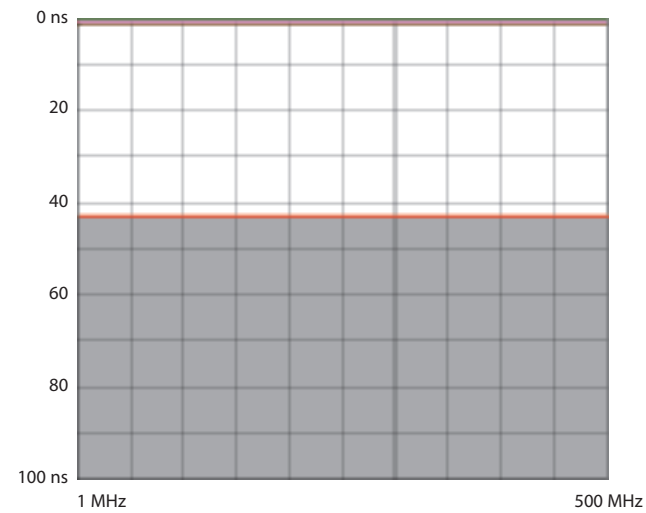


9. PERFORMANCE (cont.)

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

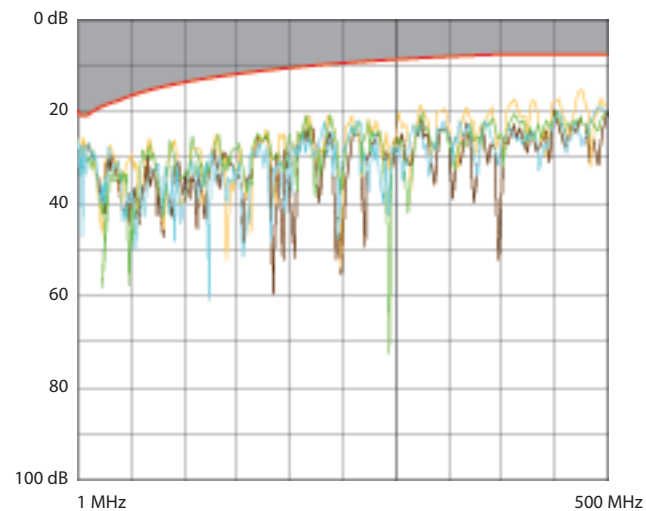


Delay skew



■ 9.3 Channel performance

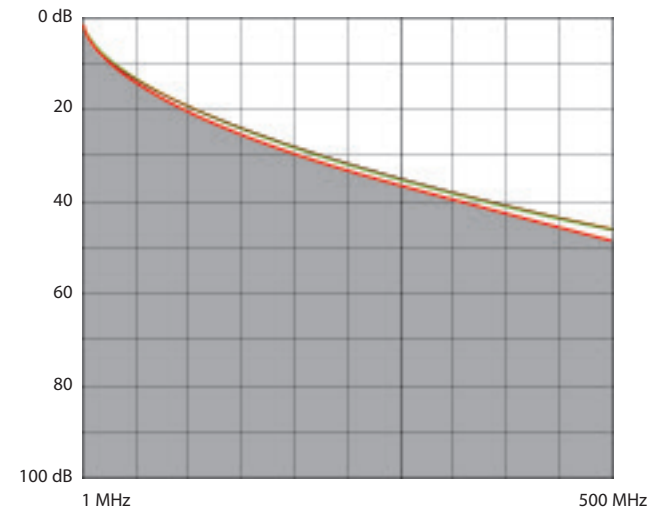
Return loss



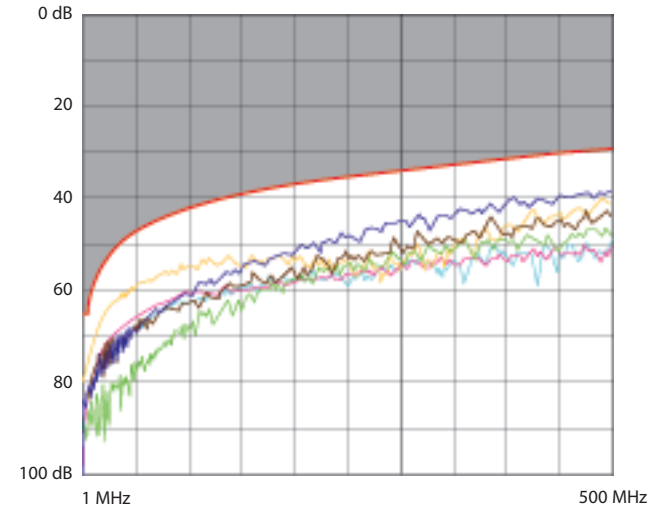
9. PERFORMANCE (cont.)

■ 9.3 Channel performance (cont.)

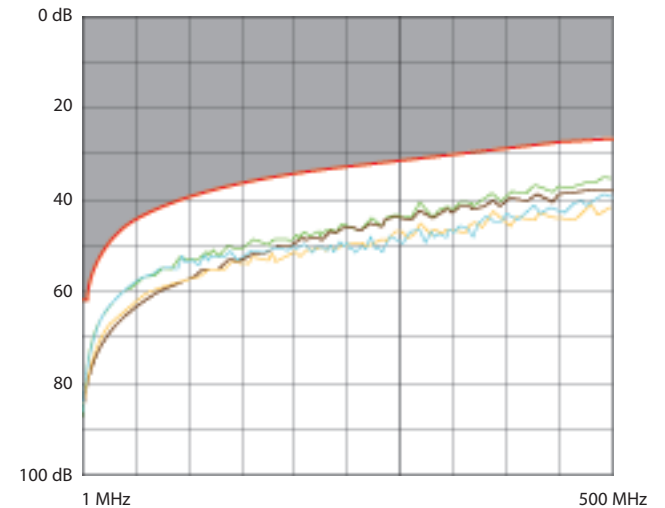
Attenuation



NEXT (Near end Crosstalk Attenuation)



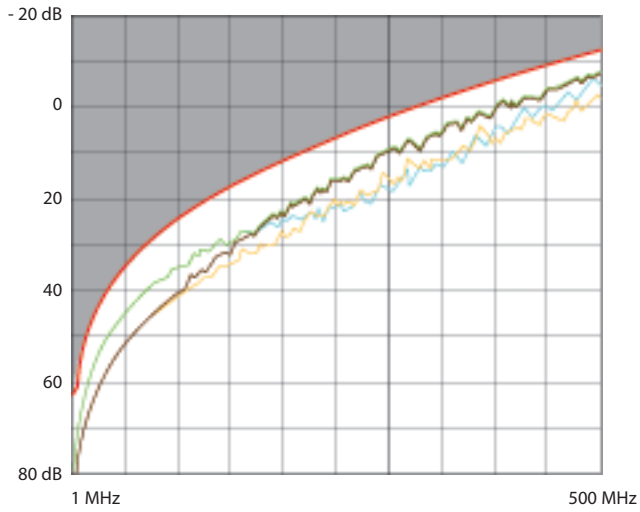
PS NEXT (Power sum NEXT)



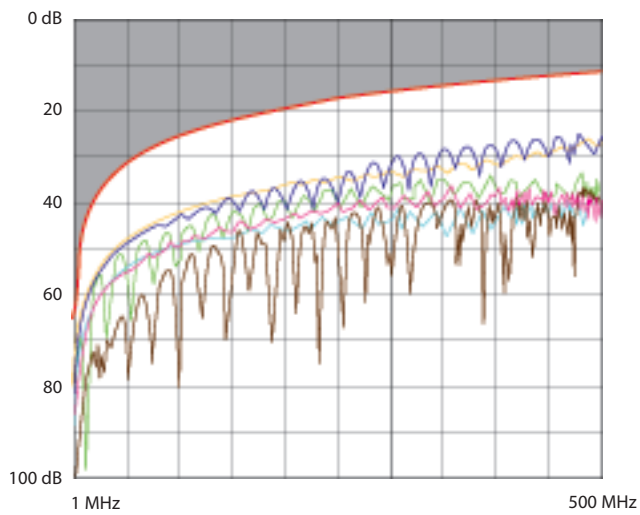
9. PERFORMANCE (cont.)

■ 9.3 Channel performance (cont.)

ACR (Attenuation to Crosstalk Ratio)



ELFEXT (Equal Level End Crosstalk Attenuation)



Delay skew

