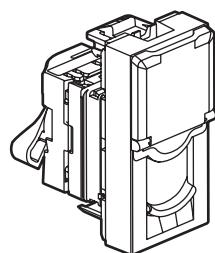
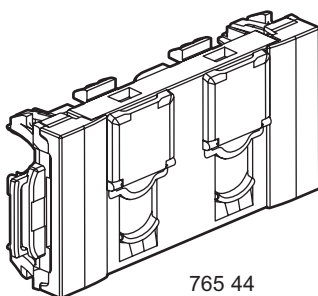


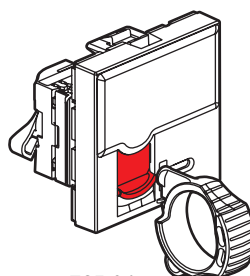
Mosaic™ LCS2 Cat. 6 RJ 45 socket

Cat. No(s): 765 22/23/44/46/61/62/63/64/65/66/81/82/83
765 91/92/93/94/95 - 794 61/62/64/65/92


765 61



765 44



765 94

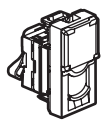
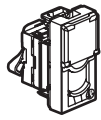
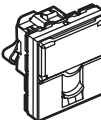
CONTENTS

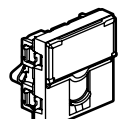
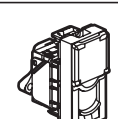
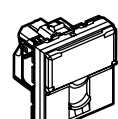
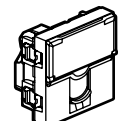
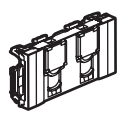
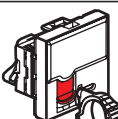
Page

1. General characteristics	1
2. Presentation	2
3. Installation	2
4. Technical characteristics	2
5. Connection	2
6. Overall dimensions	2
7. Usual connection of RJ 45 sockets	3
8. Standards and approvals	3
9. Performance	4

1. GENERAL CHARACTERISTICS

Category 6 RJ 45 socket for high speed transmission (Gigabit Ethernet).

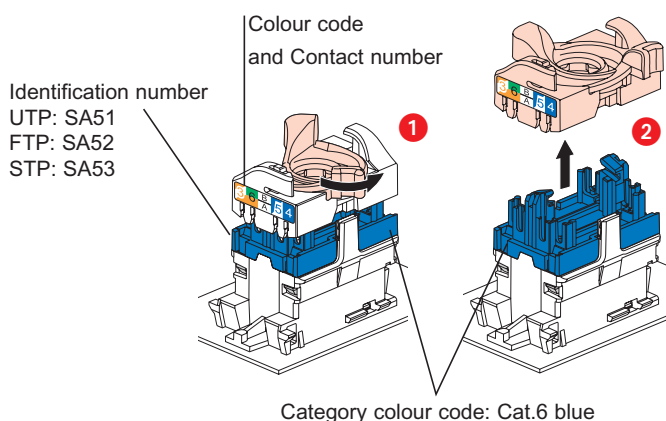
	Designation	Number of modules	UTP	FTP	STP	Weight (g)
	Cat. 6 UTP RJ 45 socket	1	765 61			13
	Cat. 6 UTP RJ 45 socket aluminium	1	794 61			13
	Cat. 6 FTP RJ 45 socket	1		765 62		13
	Cat. 6 FTP RJ 45 socket aluminium	1		794 62		13
	Cat. 6 UTP RJ45 socket anti-bacterial	1	765 81			13
	Cat. 6 FTP RJ 45 socket anti-bacterial	1		765 82		18
	Cat. 6 STP RJ 45 socket anti-bacterial	1			765 83	29
	Cat. 6 UTP RJ 45 socket	2	765 64			18
	Cat. 6 UTP RJ 45 socket aluminium	2	794 64			18
	Cat. 6 FTP RJ 45 socket	2		765 65		18
	Cat. 6 FTP RJ 45 socket aluminium	2		794 65		18
	Cat. 6 FTP RJ 45 socket green	2		765 22		18
	Cat. 6 FTP RJ 45 socket orange	2		765 23		18

	Designation	Number of modules	UTP	FTP	STP	Weight (g)
	Cat. 6 UTP RJ 45 socket 90°	2	765 91			13
	Cat. 6 FTP RJ 45 socket 90°	2		765 92		18
	Cat. 6 FTP RJ 45 socket 90° aluminium	2		794 92		18
	Cat. 6 STP RJ 45 socket	1			765 63	29
	Cat. 6 STP RJ 45 socket	2			765 66	34
	Cat. 6 STP RJ 45 socket 90°	2			765 93	34
	Cat. 6 UTP 2 x RJ 45 socket	4	765 44			43
	Cat. 6 FTP 2 x RJ 45 socket	4		765 46		43
	Cat. 6 UTP RJ 45 safety socket	2	765 94			22
	Cat. 6 FTP RJ 45 safety socket	2		765 95		22

Mosaic™ LCS2 Cat. 6 RJ 45 socket

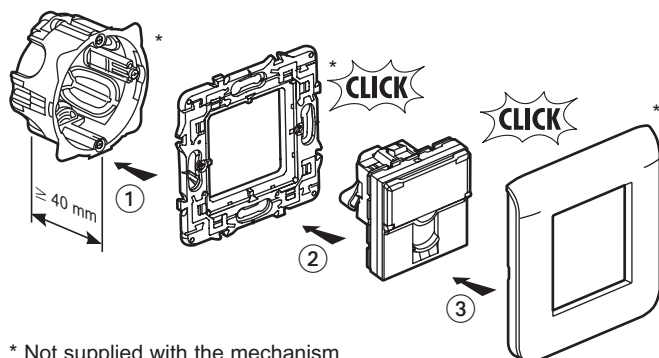
Cat. No(s): 765 22/23/44/46/61/62/63/64/65/66/81/82/83
765 91/92/93/94/95 - 794 61/62/64/65/92

2. PRESENTATION



3. INSTALLATION

The mechanisms can be surface mounted or flush mounted.
They can also be mounted in Mosaic Programme trunkings, columns, floor boxes and office modules (min. depth 40 mm)
For Cat. Nos. 765 44/46, mounting in trunking only.



Rail mounting is possible using adaptor Cat. No. 802 99 (2 modules).
The mechanisms can be mounted on thin panels with adaptors.
Cat. No. 802 90 (1 modules), Cat. No. 802 91 (2 modules).
Cat. No. 802 92 (2 x 1 vertical module).

Cat. No. 765 94/95
Unlocking

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
Connector tested and guaranteed under PoE restrictions, IEEE 802.3af standard and PoE+, draft standard 802.3at, up to 2500 on-load connections / disconnections.

Tests are carried out with 2 simultaneous PoE+ circuits for a minimum total power of 50 W.

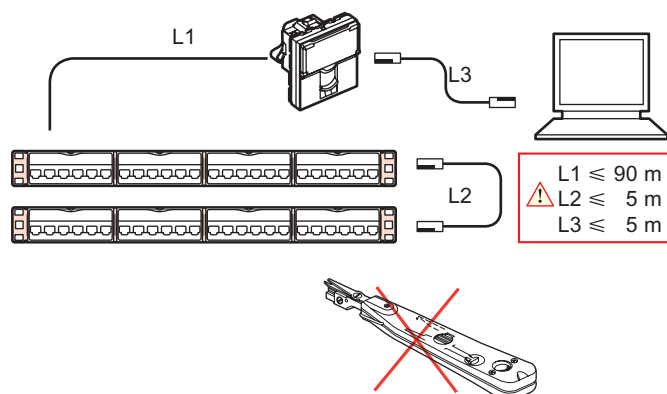
4.3 Mechanical characteristics

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

4.4 Climatic characteristics

Températures d'utilisation : - 40° C to + 70° C
Humid heat cycle 21 days

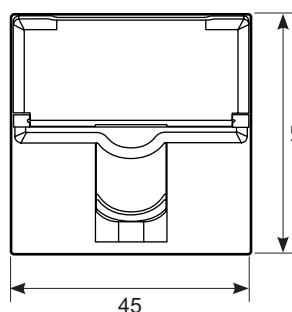
5. CONNECTION



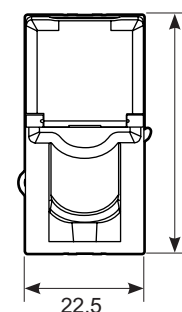
6. OVERALL DIMENSIONS

Front view:

765 22/23/64/65/66/91/92/93/94/95
794 64/65/91/92

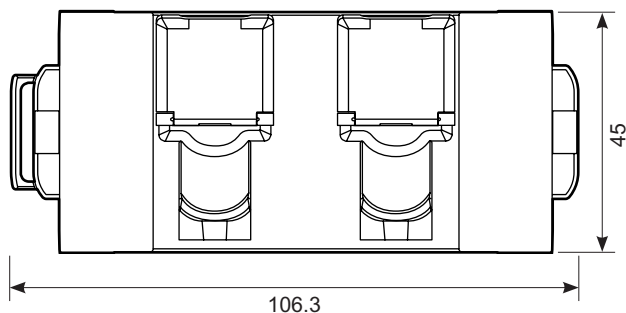


765 61/62/63/81/82/83
794 61/62

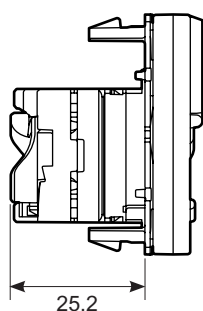
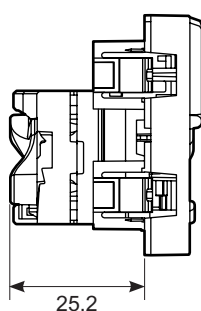


6. OVERALL DIMENSIONS (cont.)

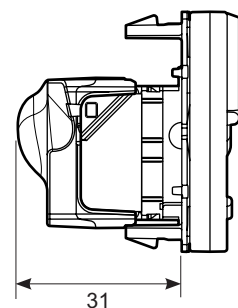
765 44/46



Side view:

765 22/23/44/46/61/62/64/65/81/82
794 61/62/64/65765 91/92
794 92

765 63/66/83/93/94/95

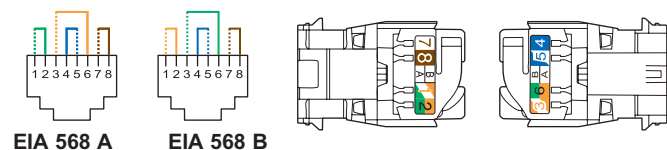


7. USUAL CONNECTION OF RJ 45S

Accepts the following cable connectors:
RJ11 (4 contacts), RJ12 (6 contacts), RJ45 (9 contacts).

Double colour code EIA - TIA 568 A and B on terminals:

- UTP 8 contacts
- FTP 9 contacts
- STP 9 contacts 360° screen

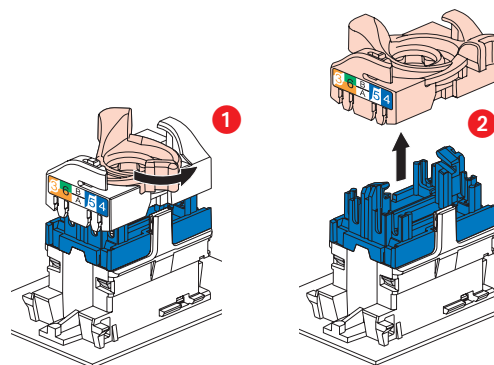


Conductors supported:

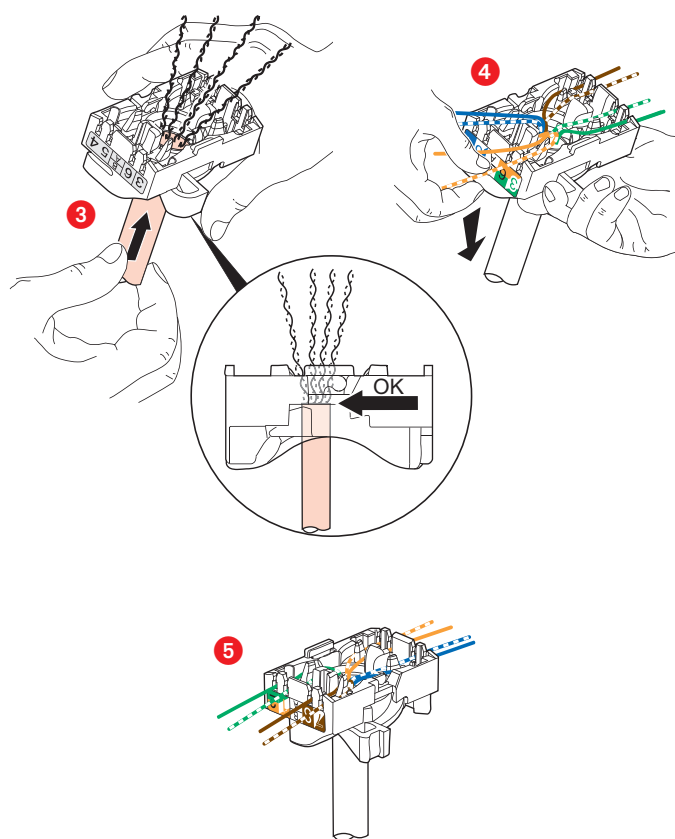
- Single-wire: 0.5 to 0.65 mm, AWG 22 to 25
- Multiple-wire: AWG 26
- Polyethylene conductor insulation: max Ø with insulation 1.58 mm

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

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.

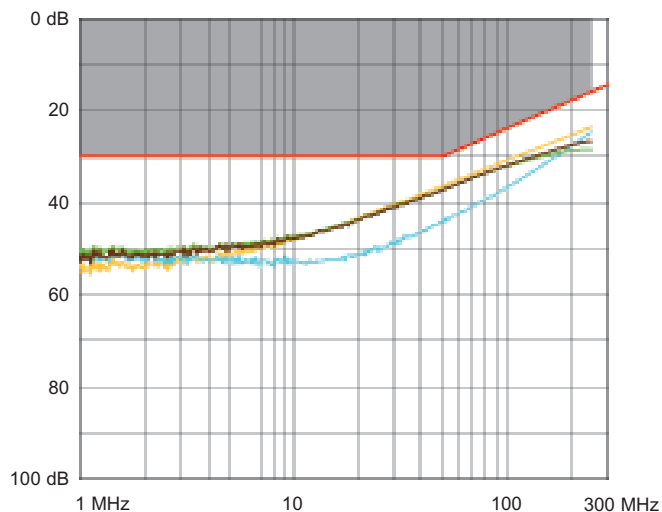
8. STANDARDS AND APPROVALS

Compliant with standards: ISO/IEC 11801 Edition 2
CENELEC EN 50173-1 2007
ANSI/EIA/TIA 568-B.2-1
IEC series 60603-7

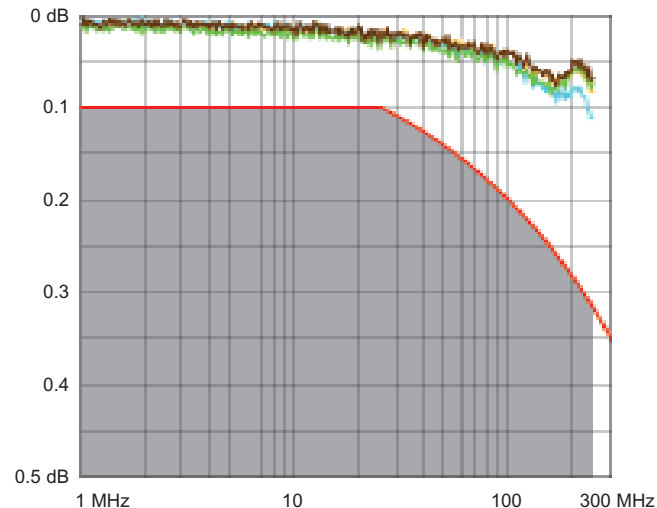
9. PERFORMANCE

9.1 Component performance (RJ 45 connectors)

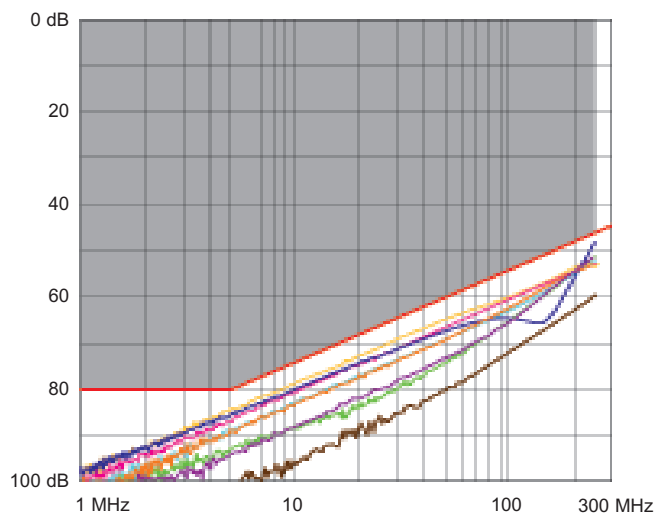
Return loss



Attenuation



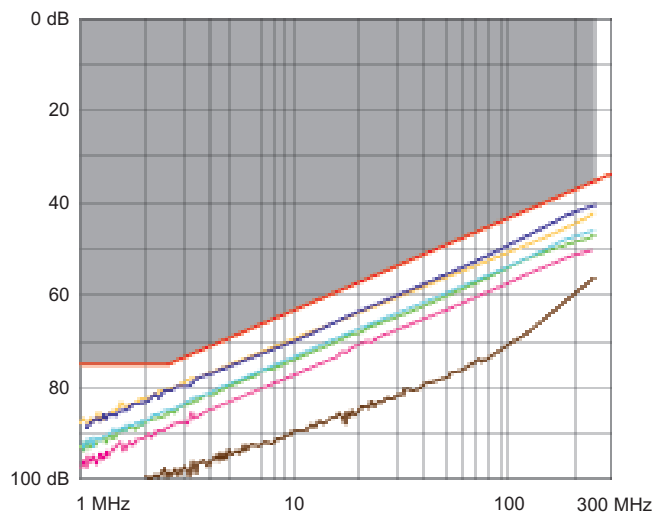
NEXT (Near end Crosstalk Attenuation)



9. PERFORMANCE (cont.)

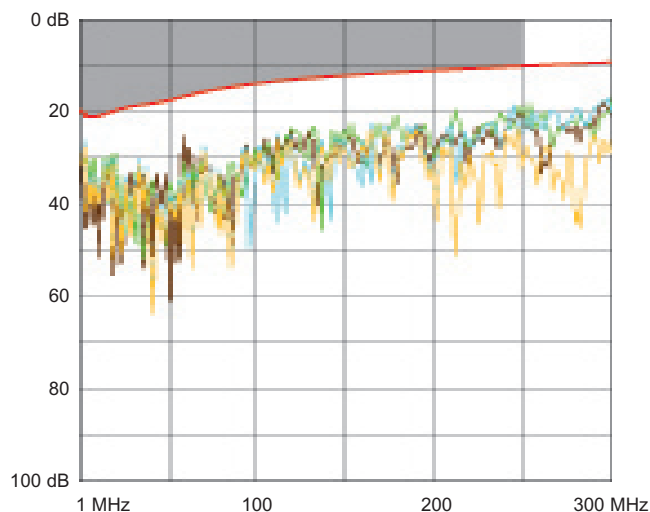
9.1 Component performance (RJ 45 connectors) (cont.)

FEXT (Far end Crosstalk Attenuation)

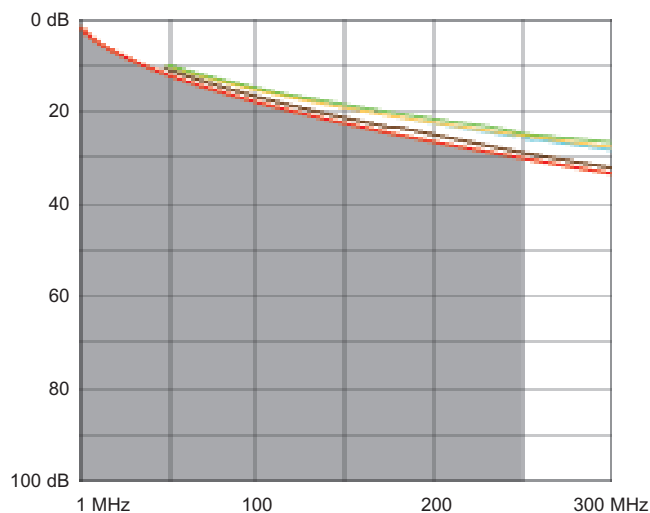


9.2 Performance of permanent link with F/UTP cable

Return loss

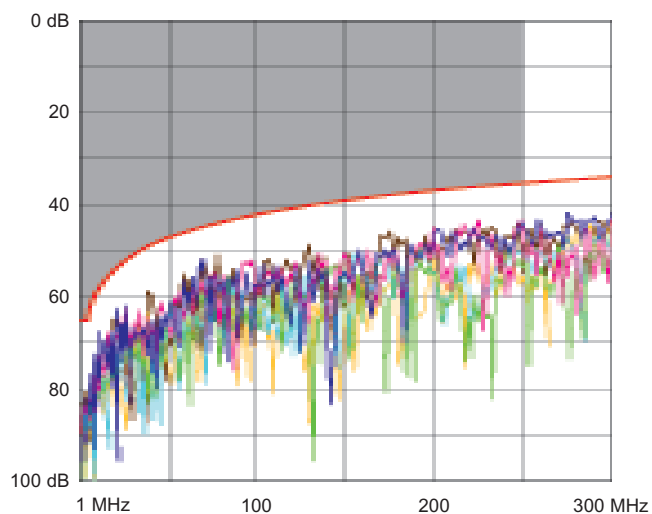


Attenuation

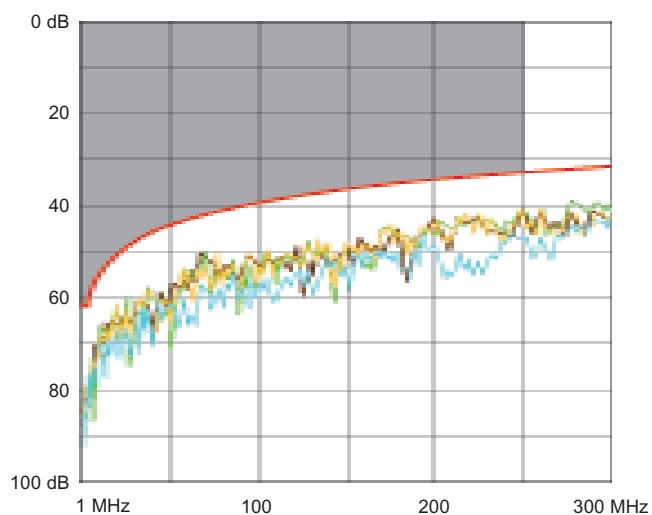


9. PERFORMANCE (cont.)

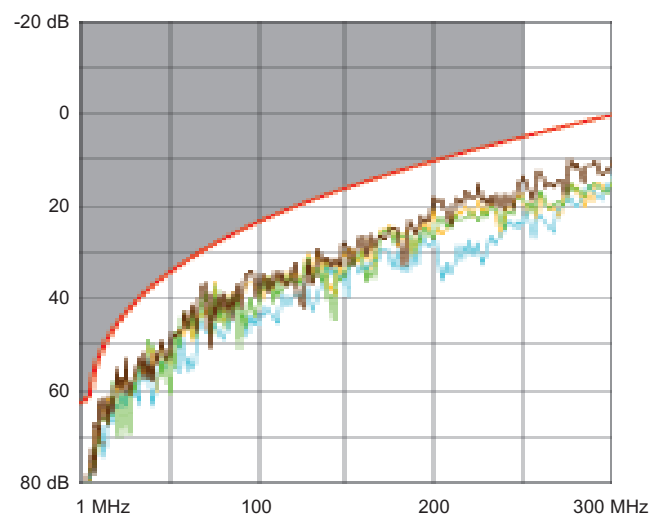
9.2 Performance of permanent link with F/UTP cable (cont.) NEXT (Near end Crosstalk Attenuation)



PS NEXT (Power Sum NEXT)

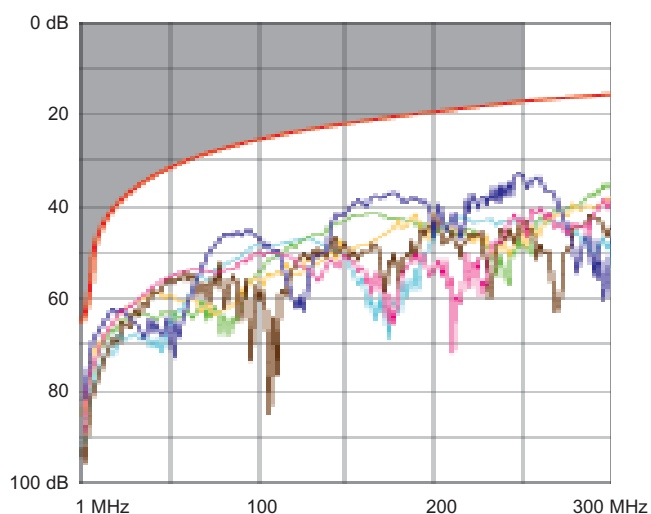


ACR (Attenuation to Crosstalk Ratio)



9. PERFORMANCES (cont.)

9.2 Performance of permanent link with F/UTP cable (cont.) ELFEXT (Equal Level End Crosstalk Attenuation)



Delay skew

