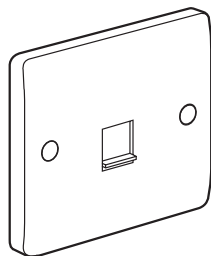
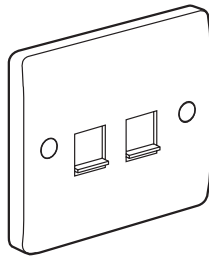


Synergy®
RJ45 LCS⁶ Category 6 data outlets

Cat. No(s) : 7300 56/57



7300 56



7300 57

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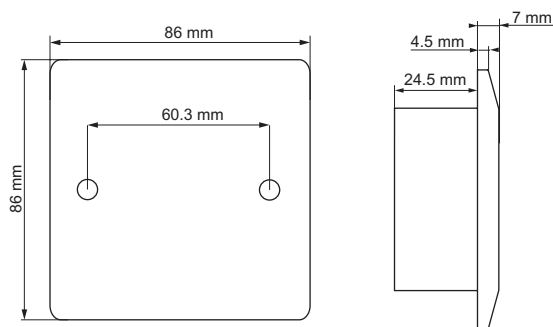
1. APPLICATIONS

Socket outlets rated at category 6 for the transmission of data signals (Gigabyte Ethernet).

2. WHITE RANGE

Description	Cat. N°	Characteristics	Weight (g)
RJ45 Single	7300 56	8 contacts UTP	63
RJ45 Double	7300 57	2 x 8 contacts UTP	68

3. DIMENSIONS (mm)



4. INSTALLATION

Flush mounting :

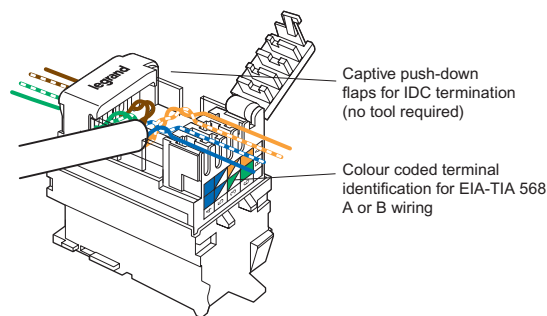
- All products supplied with 2 x M 3.5 fixing screws and 2 thermo-plastic screw covers. It is recommended that redundant top and bottom fixing lugs in metal back boxes are bent back to increase room for mechanisms and their attendant wiring.
- 35 mm minimum depth back boxes.

Surface mounting :

1 gang 35 mm deep pattern Cat. N° 7364 06

5. CONNECTION

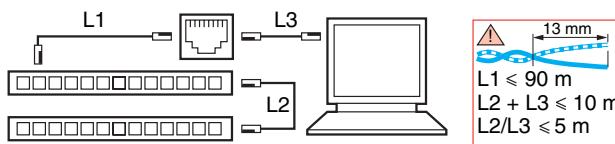
5.1 Terminal Type



5.2 Wiring arrangements



5.3 Network limitations



6. GENERAL CHARACTERISTICS

6.1 Mechanical characteristics

- IP rating : IP2X
- IK rating : IK01

6.2 Electrical characteristics

- Push-down, IDC connections with integral hinged conductor insertion device. No separate tool required
- Colour coded identification label giving both EIA-TIA 568 A and B connection details
- UTP 8 contacts
- Accept standard data cable having single core copper conductor of between 0.5 and 0.65 mm diameter (AWG 24 to AWG 22)
- Polyethylene conductor insulation : maximum Ø : 1.5 mm
- Maximum number of conductors per terminal : 1
- Conductor can be connected twice without re-preparation or 5 times with re-preparation
- Flash-over voltage ≥ 1000 V
- Contact resistance ≤ 20 m Ω
- Insulation resistance ≥ 500 m Ω at 100 V DC
- Capable of 2500 plug insertion/extraction manœuvres
- Accepts the following plugs:
 - RJ11 (4 contacts)
 - RJ12 (6 contacts)
 - RJ45 (9 contacts)

6.3 Material properties

- Frontplate : thermoset urea, self-extinguishing at 960° C / 30 s
- Other shutters : polycarbonate, self-extinguishing at 850° C / 30 s
- Contacts : gold plated on nickel. (Gold thickness : > 1.27 µm)
- Other metallic components: bronze (cuSn5)
- Fixing screw concealment plugs : polycarbonate.

6.4 Resistance to chemicals

Resistance to chemical agents	UREA	PC
Acetone	n	l
Acetic acid 10 %	s	-
Hydrochloric acid	s (20%)	n
Citric acid 10 %	s	-
Hydrofluoric acid 4 %	s	l
Lactic acid 10 %	s	-
Nitric acid 10 %	s	-
Phosphoric acid 85 %	l	n
Sulphuric acid 25 %	s	n
Tannic acid	n	-
Cleaning agents containing traces of ammonia quaternaires	n	s
Ethyl alcohol	s	l
Methyl alcohol (methanol)	l	l
Ammonia	n	l
Aniline	n	l
Benzene	n	l
Lime	n	l
Liquid chlorine	n	-
Barium chloride	s	-
Chlorinated lime 20 %	s	-
Javel water	s	-
Seawater	s	-
Oil	s	s
Milk	s	-
Fuel	s	l
Petroleum oil, petroleum ether	l	l
Caustic soda	n (40%)	s (25%)
Sugar	s	-
Toluene	n	-
Trichlorethylene	n	l
Urine	s	-
Wine	s	-

s = satisfactory
 l = limit
 n = not satisfactory

6. GENERAL CHARACTERISTICS (continued)

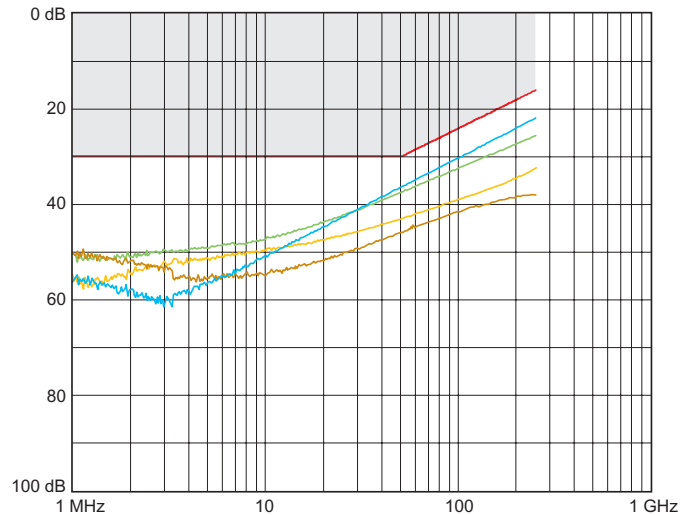
6.5 Functional limitations

- Products may be stored and used at temperatures between - 5° C and + 40° C
- Maximum average ambient temperature in any 24 hour period not to exceed 25° C.

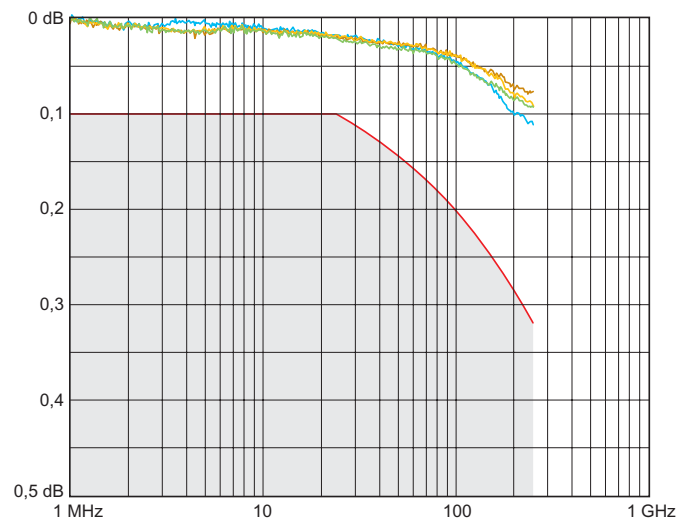
7. PERFORMANCE PARAMETERS

7.1 Performance of components (RJ 45 connectors)

Return loss



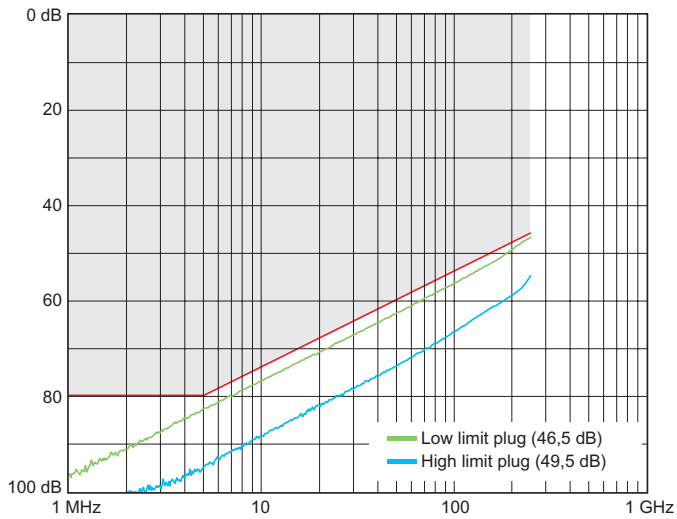
Attenuation



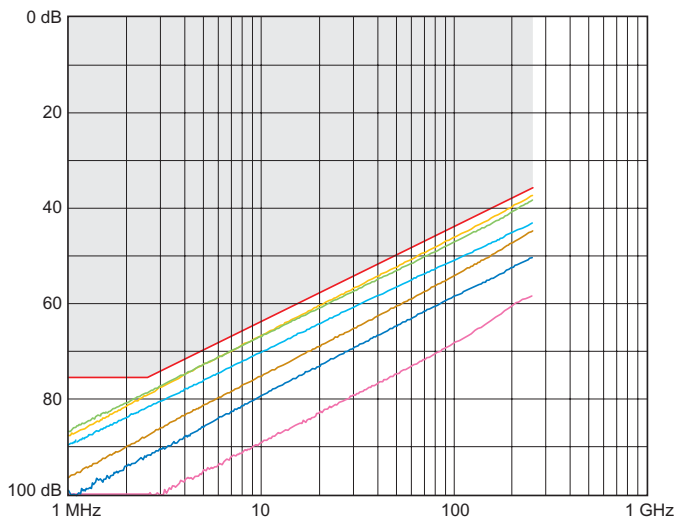
7. PERFORMANCE (continued)

7.1 Performance of components (RJ 45 connectors) (continued)

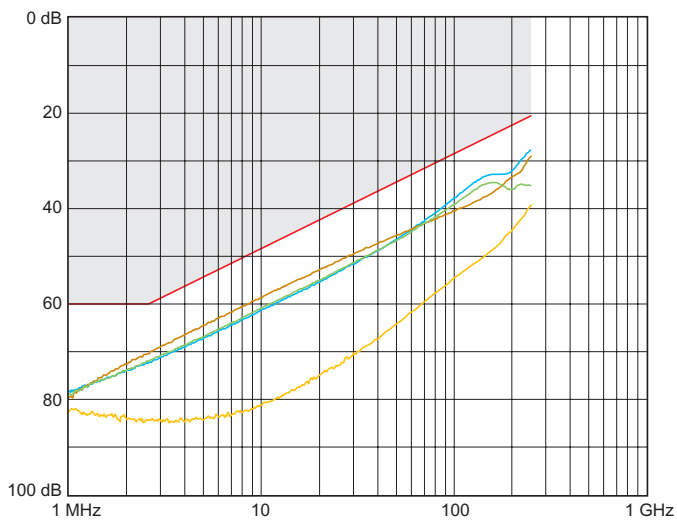
NEXT (Near-end Crosstalk Attenuation)



FEXT (Far-end Crosstalk Attenuation)



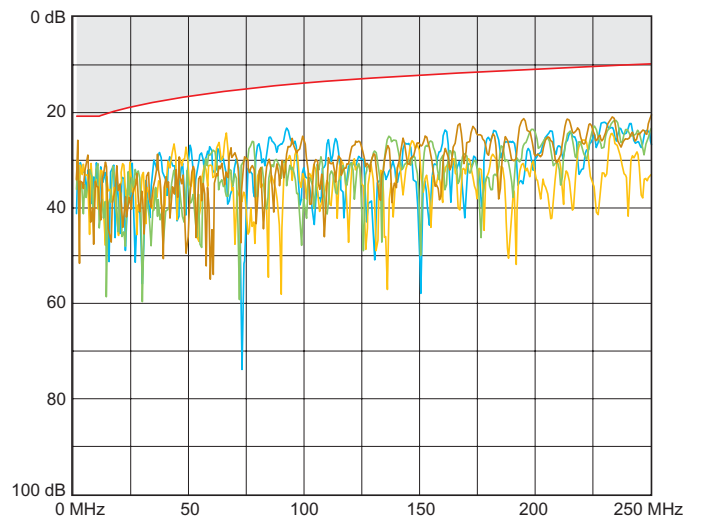
TCL (Transverse Conversion Loss)



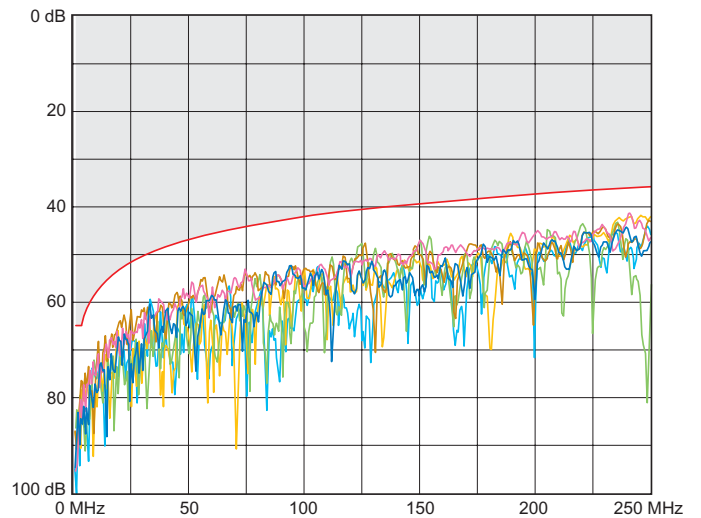
7. PERFORMANCE (continued)

7.2 Permanent link performance

Return loss



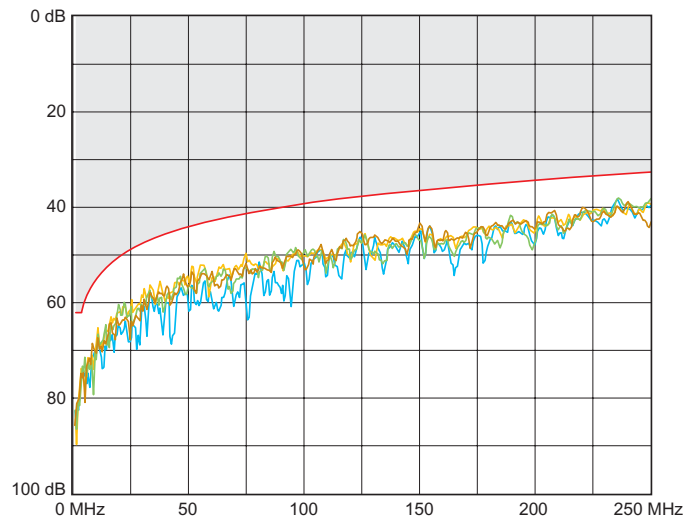
NEXT (Near-end Crosstalk Attenuation)



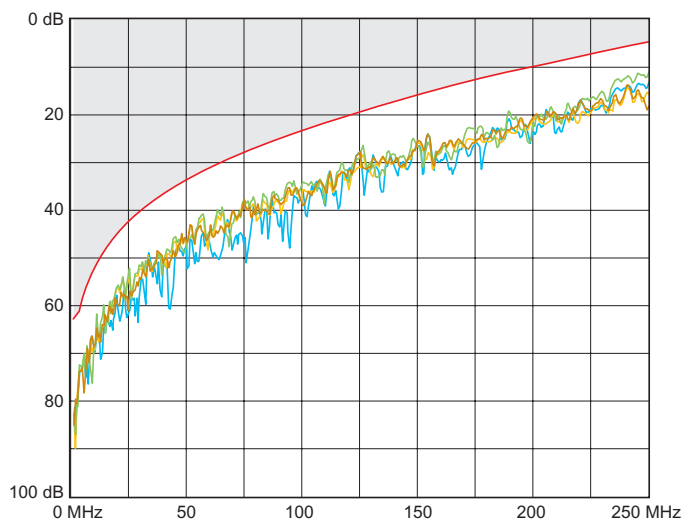
7. PERFORMANCE (continued)

7.2 Permanent link performance (continued)

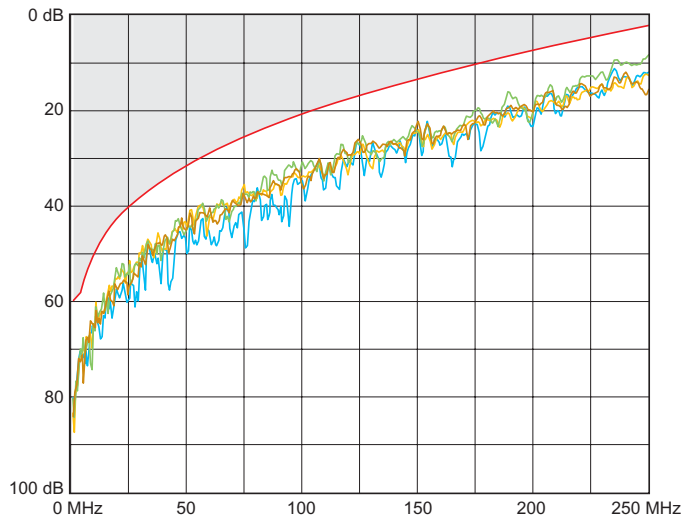
PS NEXT (Power sum NEXT)



ACR (Attenuation to Crosstalk Ratio)



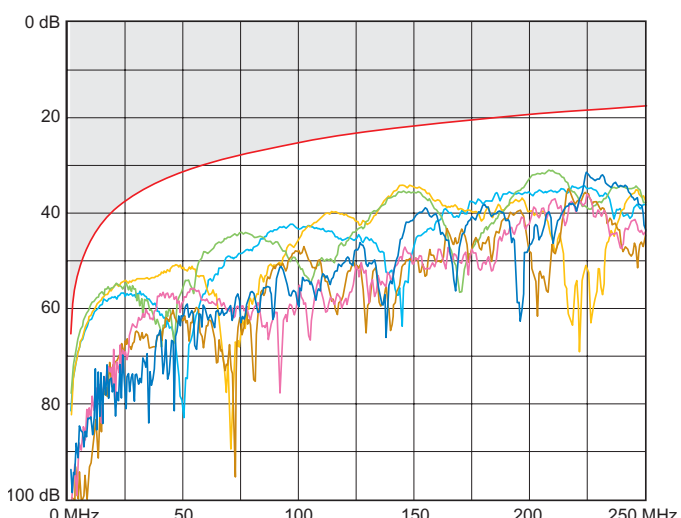
PS ACR (Power sum ACR)



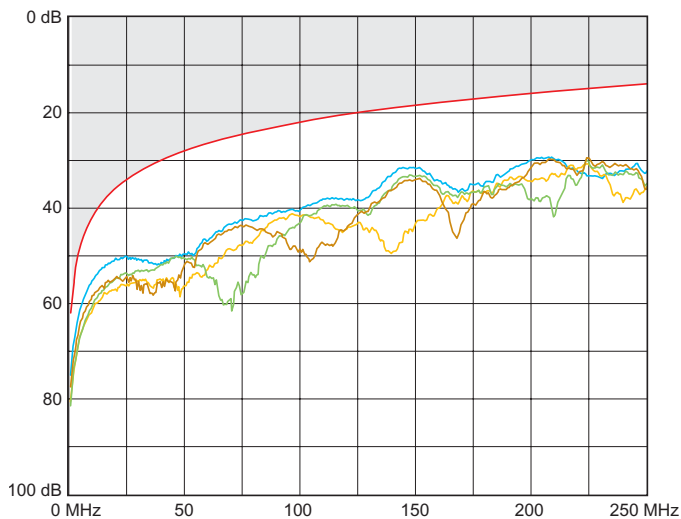
7. PERFORMANCE (continued)

7.2 Permanent link performance (continued)

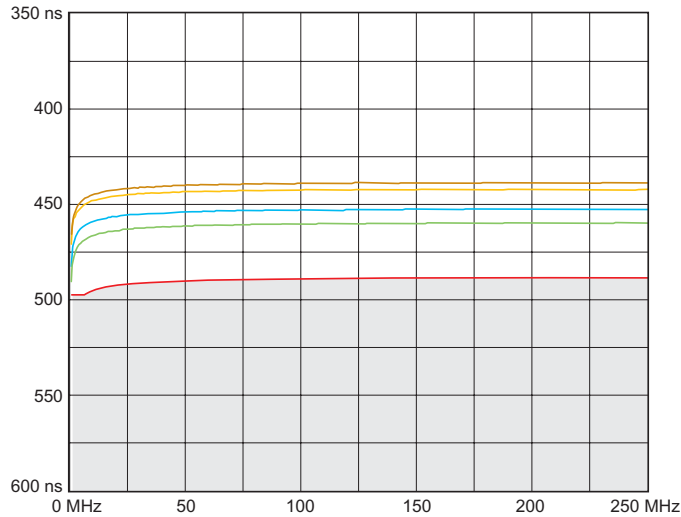
ELFEXT (Equal Level Far-End Crosstalk attenuation)



PS ELFEXT (Power sum ELFEXT)



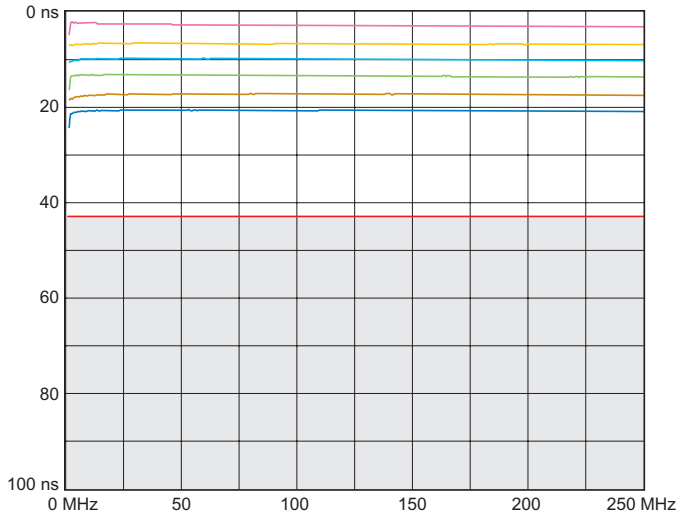
Propagation delay



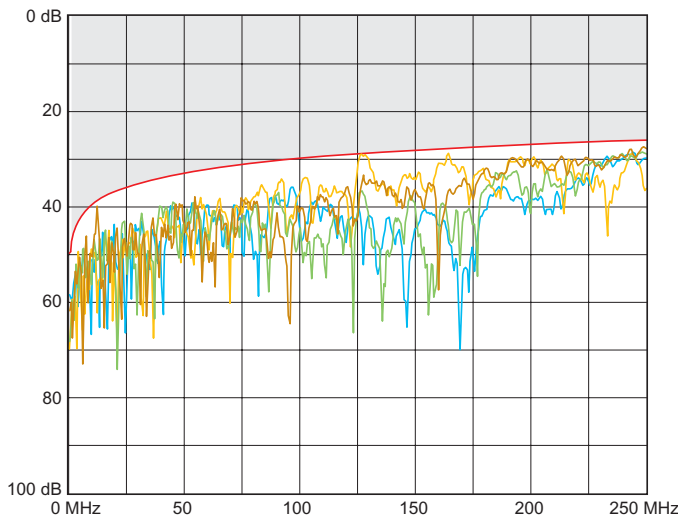
7. PERFORMANCE (continued)

7.2 Permanent link performance (continued)

Delay skew



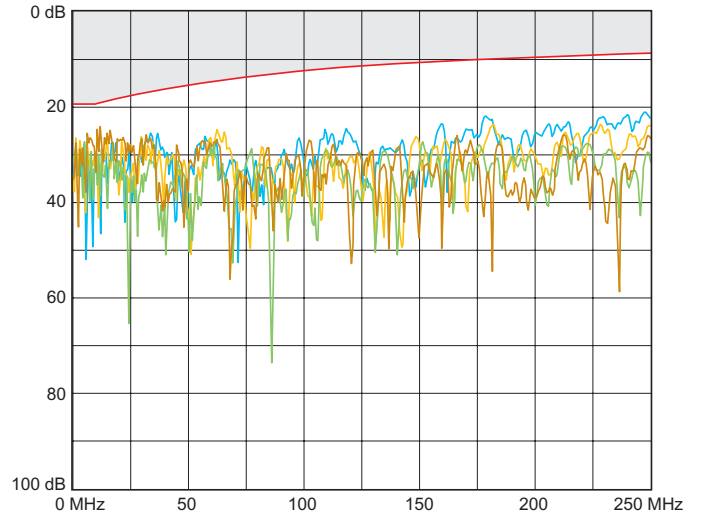
LCL (Longitudinal Conversion Loss)



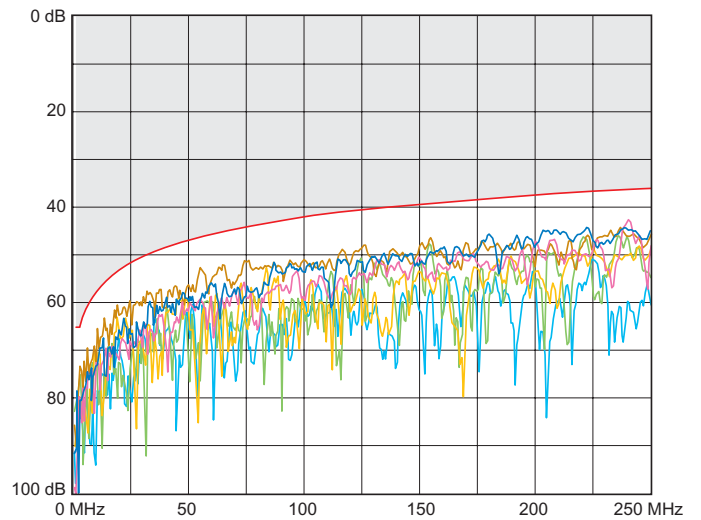
7. PERFORMANCE (continued)

7.3 Channel performance

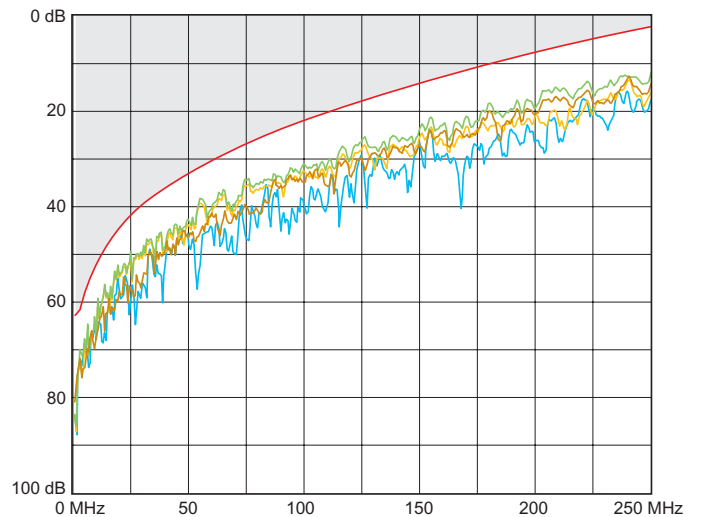
Return loss



NEXT (Near end Crosstalk Attenuation)

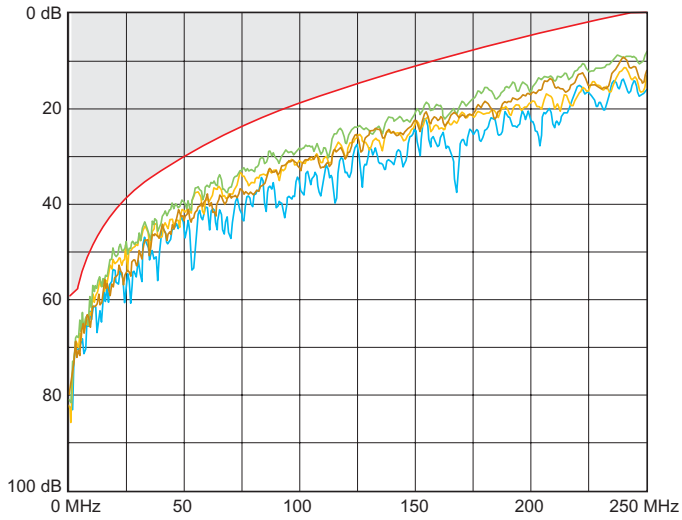


ACR (Attenuation to Crosstalk Ratio)

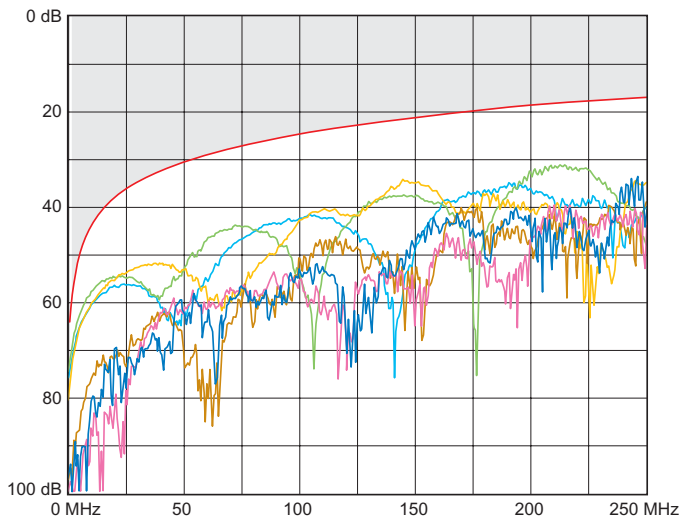


7. PERFORMANCE (continued)

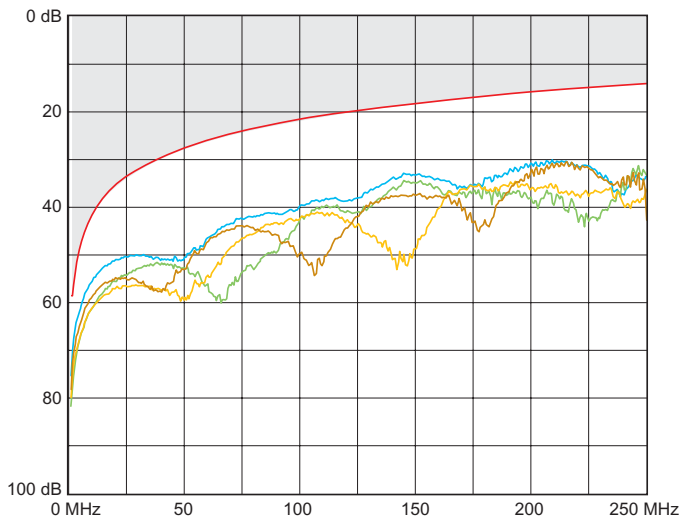
7.3 Channel performance (continued)
 PS ACR (Power sum ACR)



ELFEXT (Equal Level End Crosstalk attenuation)

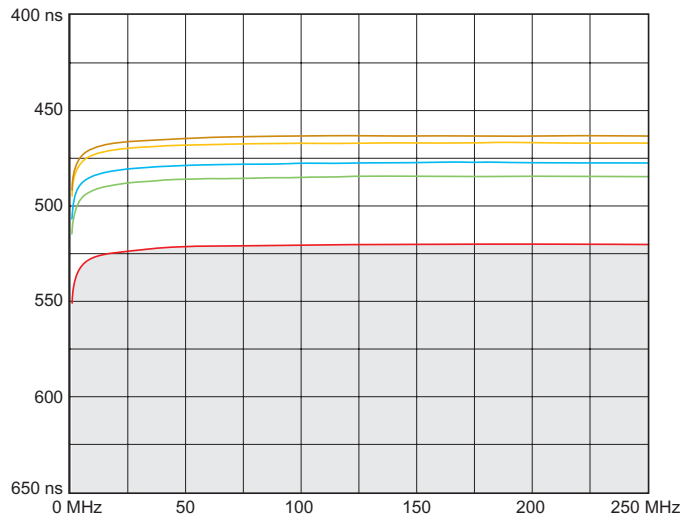


PS ELFEXT (Power sum ELFEXT)

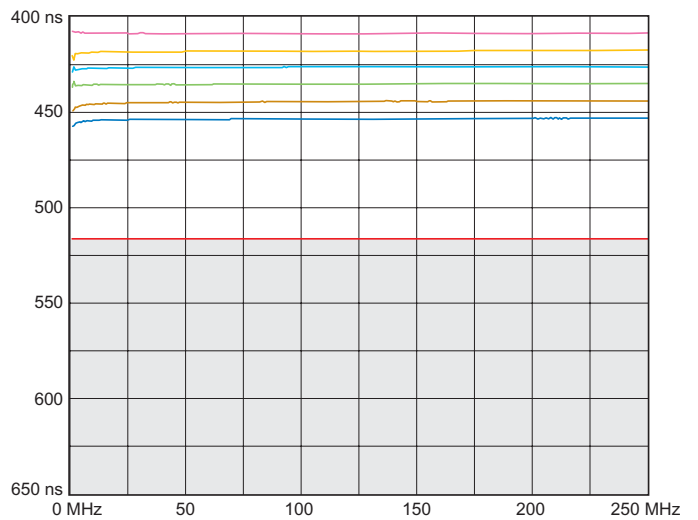


7. PERFORMANCE (continued)

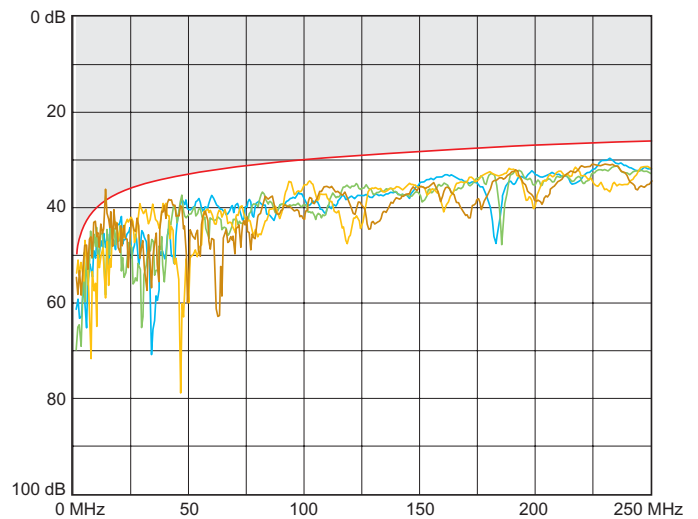
7.3 Channel performance (continued)
 Propagation delay



Delay skew



LCL (Longitudinal Conversion Loss)



8. MAINTENANCE

The use of abrasives or solvent-based cleaners is strictly forbidden as it could result in irreparable damage to the product's external surfaces. We recommend the use of a soft, slightly damp cloth to remove fingerprints, etc...

9. ACCESSORIES

Spare faceplate screw concealment plugs : Cat. N° 7301 53 (50 per pack)

10. CONFORMITY TO STANDARDS

Conforms to : ISO 11 801 2nd Edition
EN 50 173 2nd Edition
EIA/TIA 568 - B.2
NFC 20730
Standard 8877 - 603.7
Approval no. : 3P : 102 180