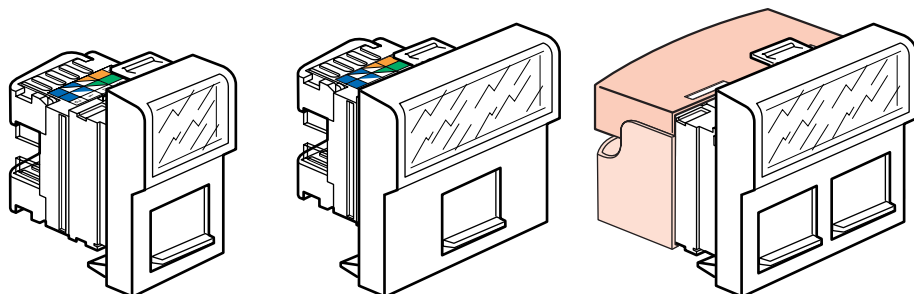


Mosaic RJ 45 socket for LCS⁶ Category 6

Cat. No(s) : 742 80/81/87/90/91/92/93/95

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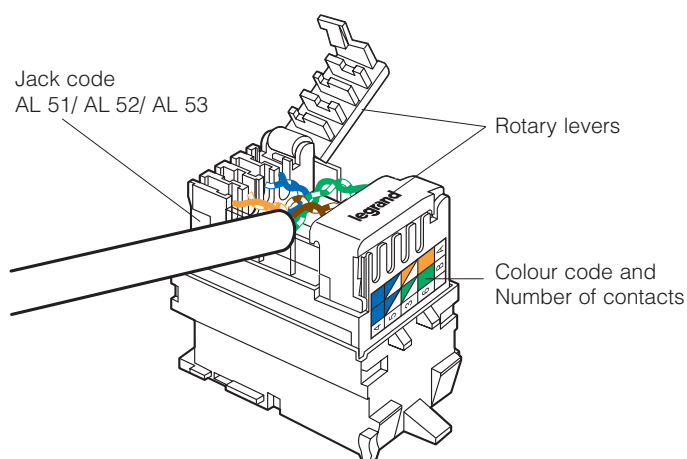


1. GENERAL CHARACTERISTICS

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

Mosaic	Mod.	UTP	FTP	STP
	1	AL 51	AL 52	AL 53
	1	742 80	742 90	742 93
	2	742 81	742 91	742 87 (zamak)
	2 (column)	—	742 92	—
	2	—	—	742 95 (zamak)

2. PRESENTATION



3. MOUNTING

Direct mounting by clipping onto trunking and distribution columns for Mosaic wiring accessories, Batik flush-mounting box
- on Legrand Mosaic supports
- with Legrand Mosaic plates

4. TECHNICAL CHARACTERISTICS

Contacts : gold/nickel, gold thickness > 1.27µm
Metal parts : Bronze (CuSn5).
Module insulation : ABS - Polycarbonate.
Cover plate: white RAL 9010

RJ 45 connectors equipped with rotary levers which do not require any special tool, and ensure error-free re-wiring.

EIA-TIA 568 A and B dual colour code on terminals

- UTP 8 contacts
- FTP 9 contacts
- STP 9 contacts + shielding cover.

Permissible conductors :

- Solid wire: 0.5 to 0.65 mm- AWG 24 to 22.
- Conductors insulation on polyethylene: Ø max on insulation : 1.5 mm.

Number of wires to attach per connection : 1

Max. number of connections and disconnections :

5 including 2 without replacing the wire.

Breakdown voltage ≥ 1000 V.

Contact resistance ≤ 20 mΩ

Insulation resistance ≥ 500 MΩ at 100 V DC.

Operating temperature : - 40° C to + 70° C

Damp heat cycle 6 days.

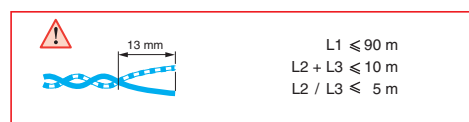
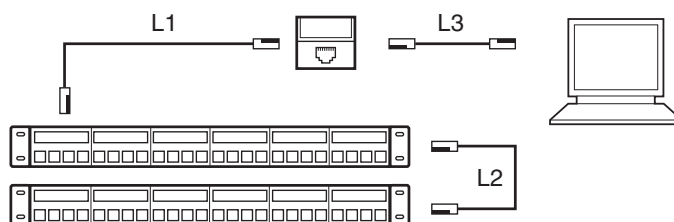
Resistance to gases (H₂S and SO₂).

Endurance : 2500 operations (plugging in/unplugging).

Takes the following plugs :

RJ 11 (4 contacts), RJ 12 (6 contacts), RJ 45 (9 contacts).

5. INSTALLATION INSTRUCTIONS

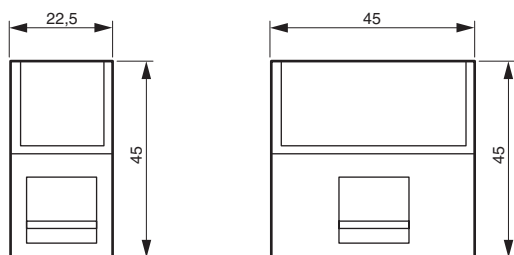


Mosaic RJ 45 socket for LCS⁶ Category 6

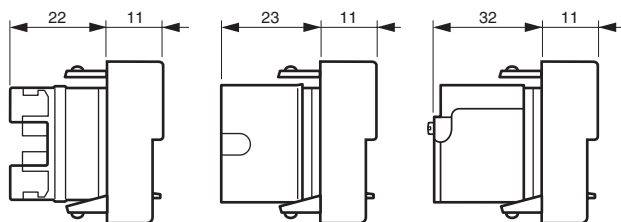
Cat. No(s) : 742 80/81/87/90/91/92/93/95

6. DIMENSIONS

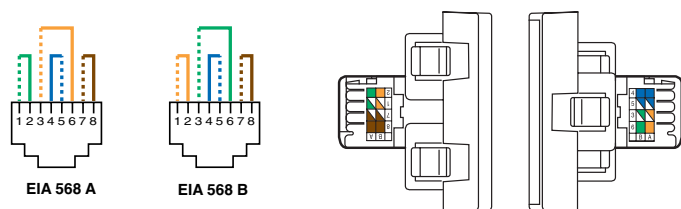
Front views



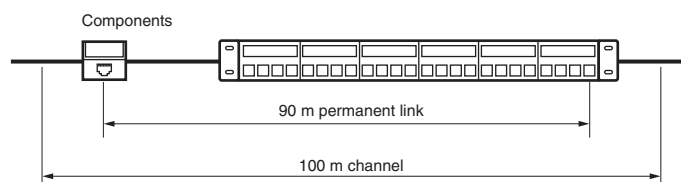
Side views



7. STANDARD RJ 45 CONNECTION

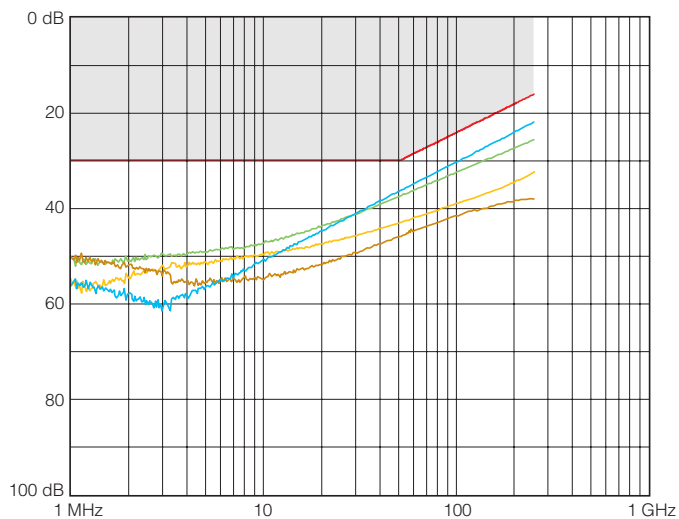


8. PERFORMANCE



8.1 Performance of components (RJ 45 connectors)

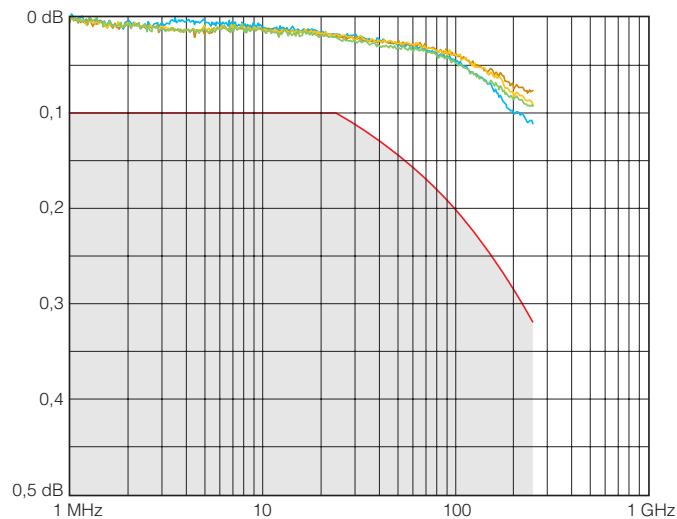
Return loss



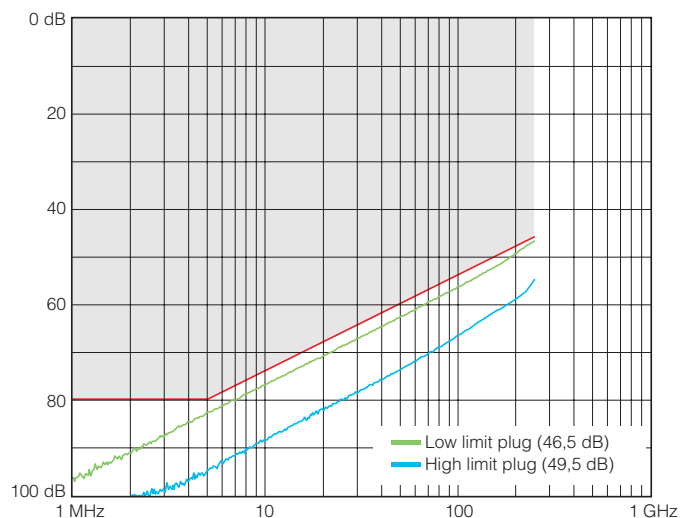
8. PERFORMANCE (continued)

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

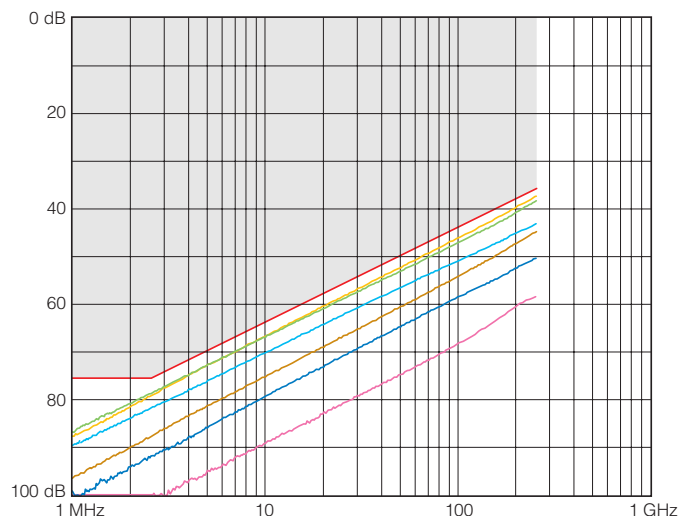
Attenuation



NEXT (Near-end Crosstalk Attenuation)



FEXT (Far-end Crosstalk Attenuation)



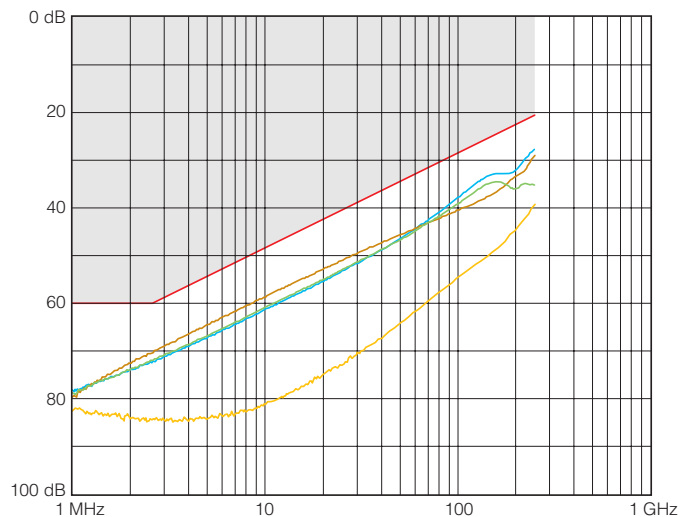
Mosaic RJ 45 socket for LCS⁶ Category 6

Cat. No(s) : 742 80/81/87/ 90/91/92/93/95

8. PERFORMANCE (continued)

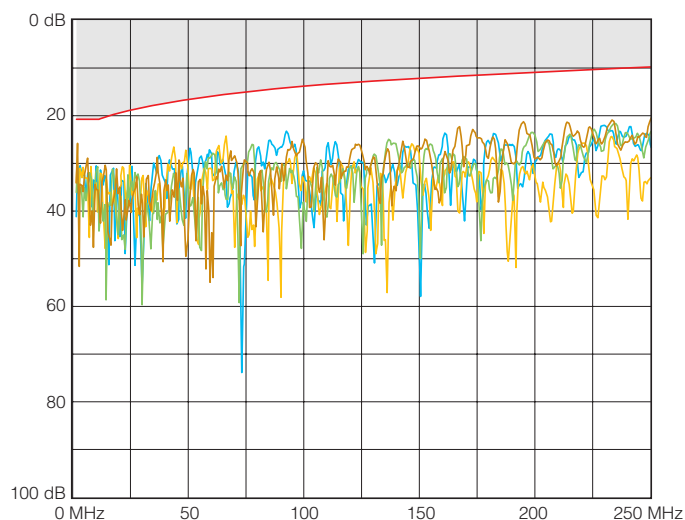
8.1 Performance of components (RJ 45 connectors) (continued)

TCL (Transverse Conversion Loss)

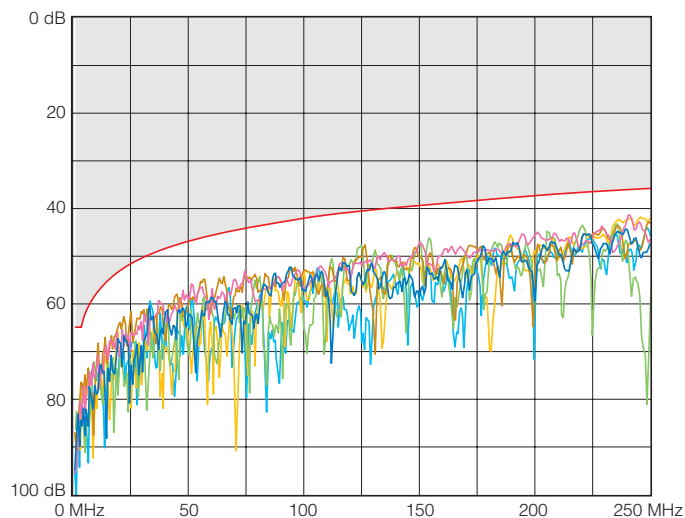


8.2 Permanent link performance

Return loss



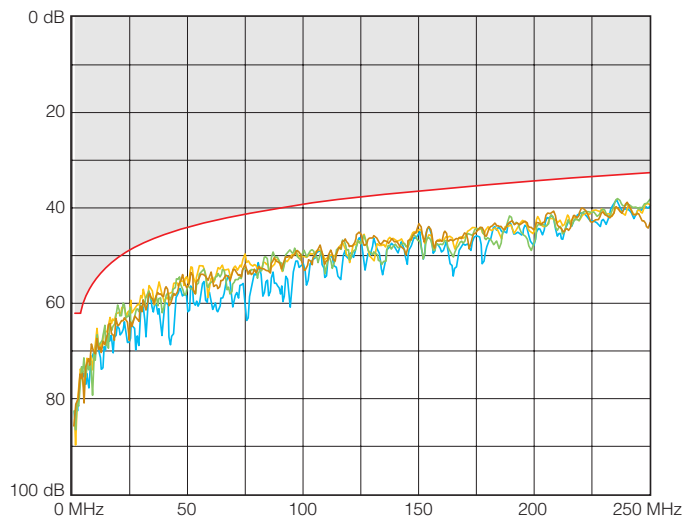
NEXT (Near-end Crosstalk Attenuation)



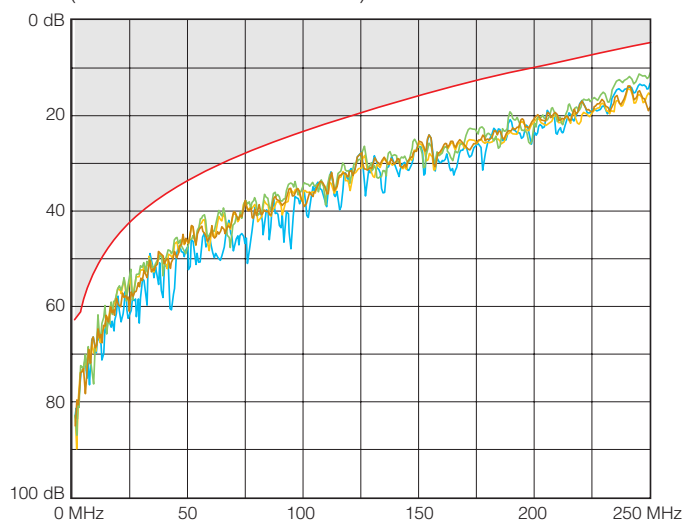
8. PERFORMANCE (continued)

8.2 Permanent link performance (continued)

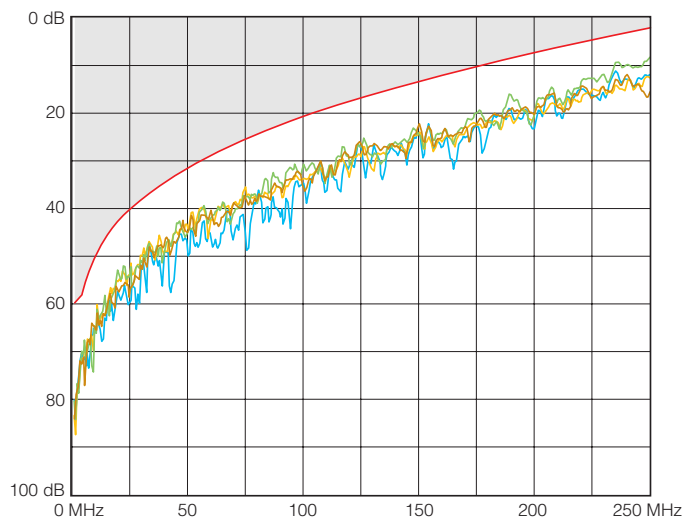
PS NEXT (Power sum NEXT)



ACR (Attenuation to Crosstalk Ratio)



PS ACR (Power sum ACR)



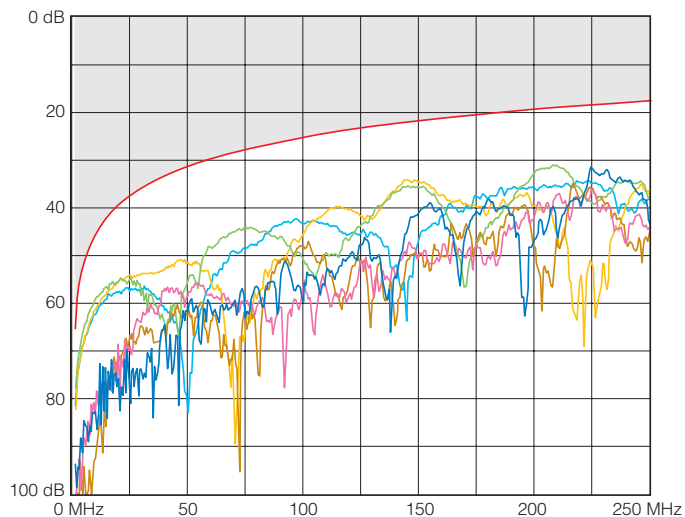
Mosaic RJ 45 socket for LCS⁶ Category 6

Cat. No(s) : 742 80/81/87/ 90/91/92/93/95

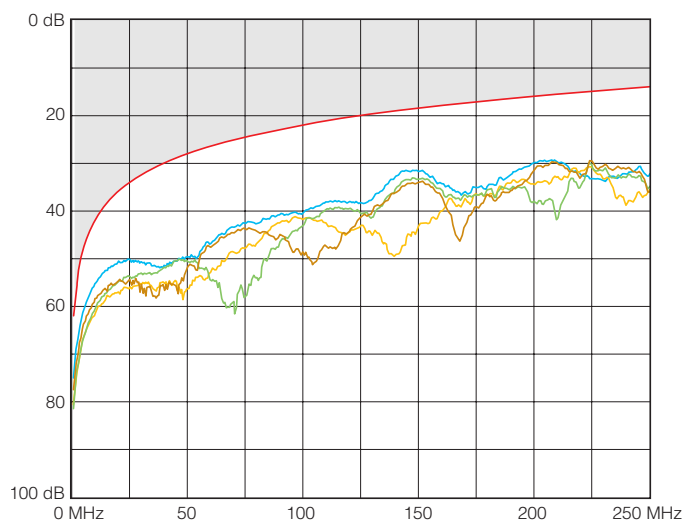
8. PERFORMANCE (continued)

8.2 Permanent link performance (continued)

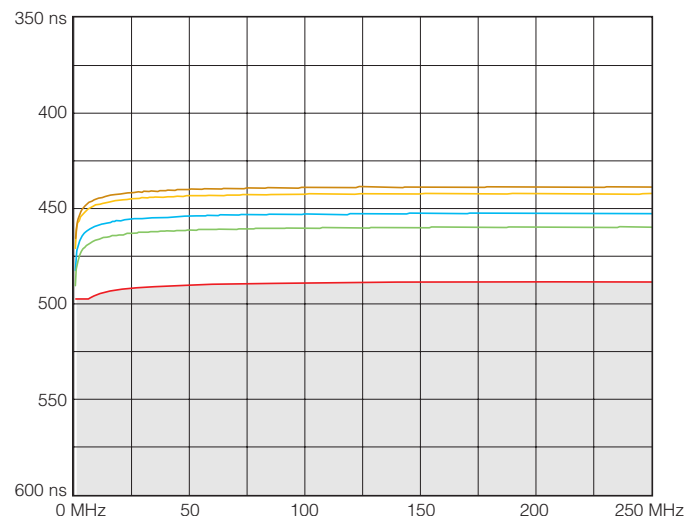
ELFEXT (Equal Level Far-End Crosstalk attenuation)



PS ELFEXT (Power sum ELFEXT)



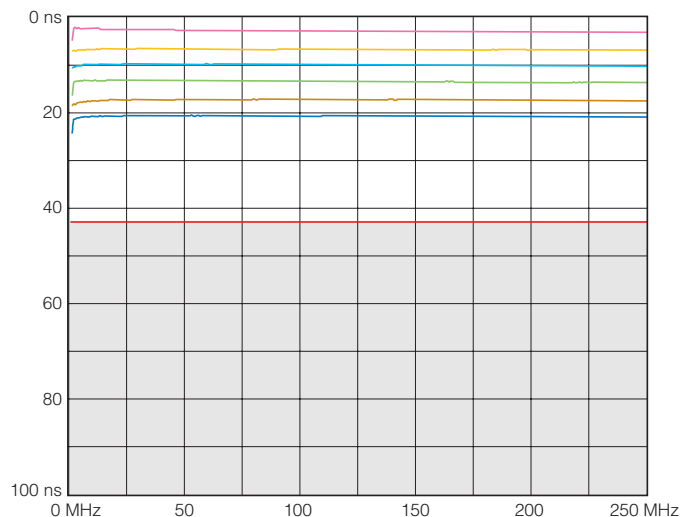
Propagation delay



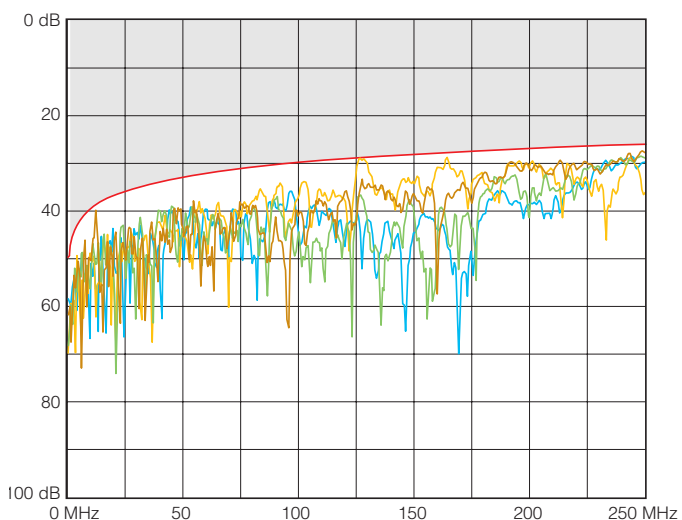
8. PERFORMANCE (continued)

8.2 Permanent link performance (continued)

Delay skew



LCL (Longitudinal Conversion Loss)



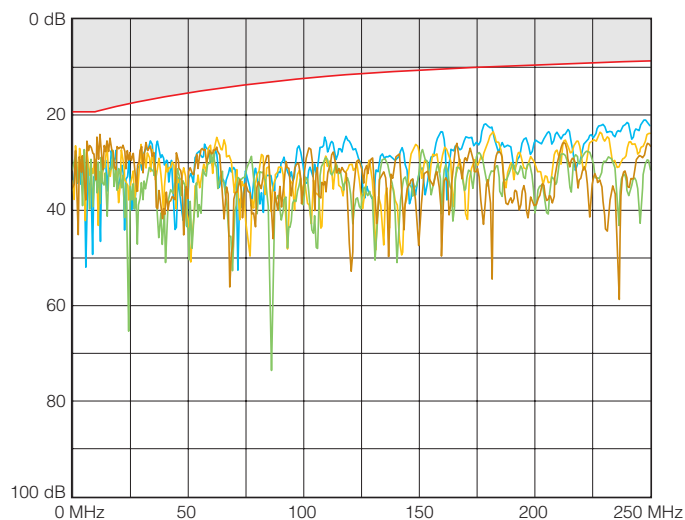
Mosaic RJ 45 socket for LCS⁶ Category 6

Cat. No(s) : 742 80/81/87/ 90/91/92/93/95

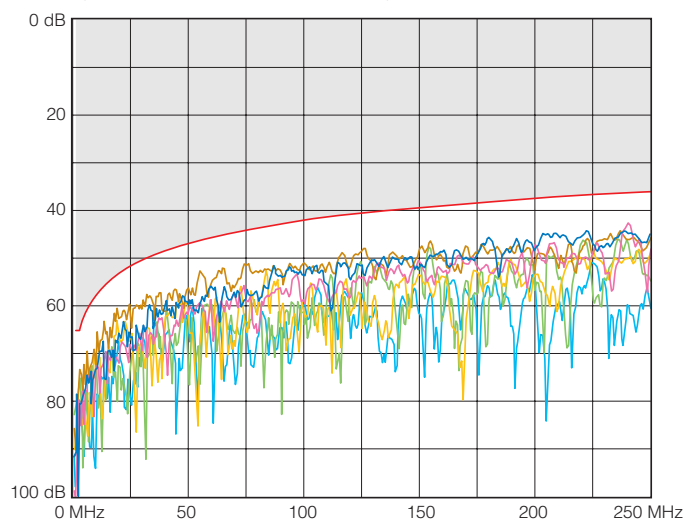
8. PERFORMANCE (continued)

8.3 Channel performance

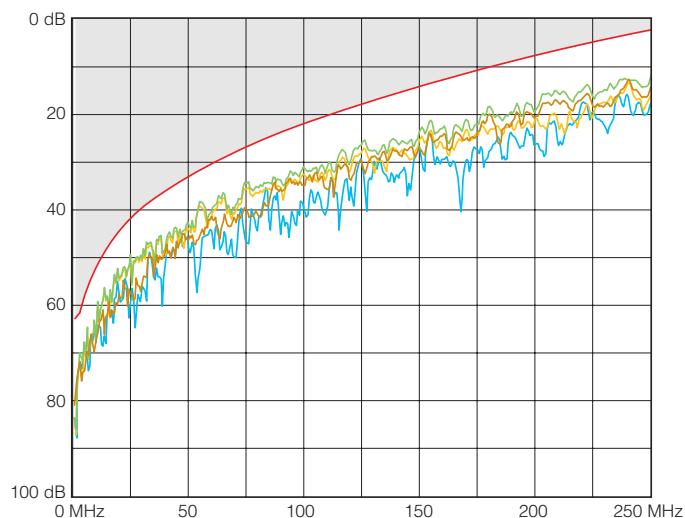
Return loss



NEXT (Near end Crosstalk Attenuation)



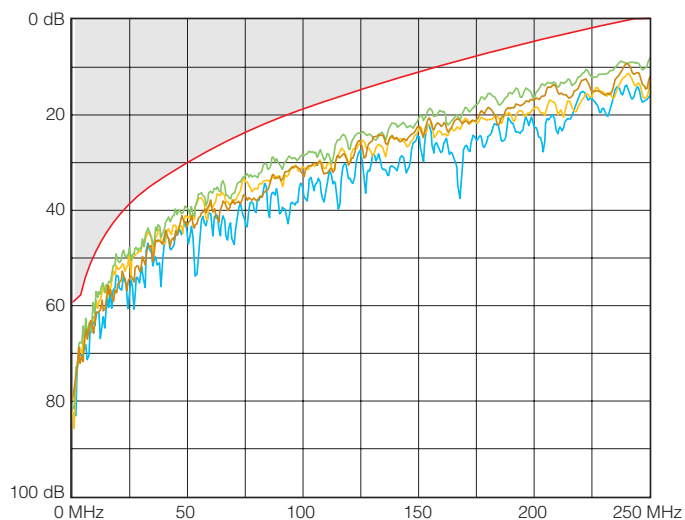
ACR (Attenuation to Crosstalk Ratio)



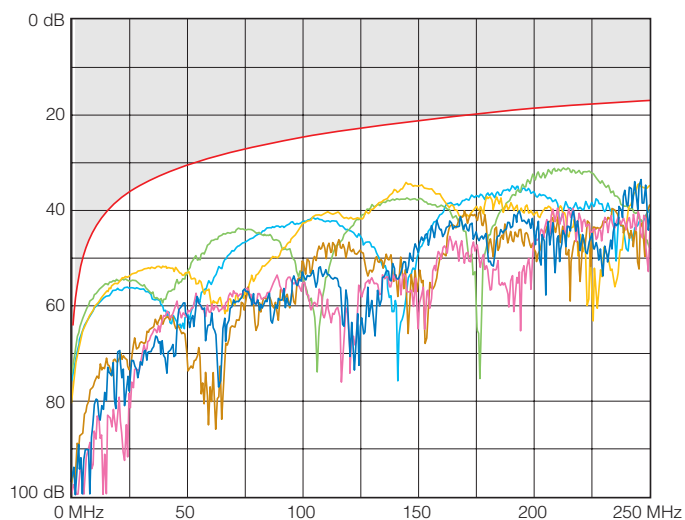
8. PERFORMANCE (continued)

8.3 Channel performance (continued)

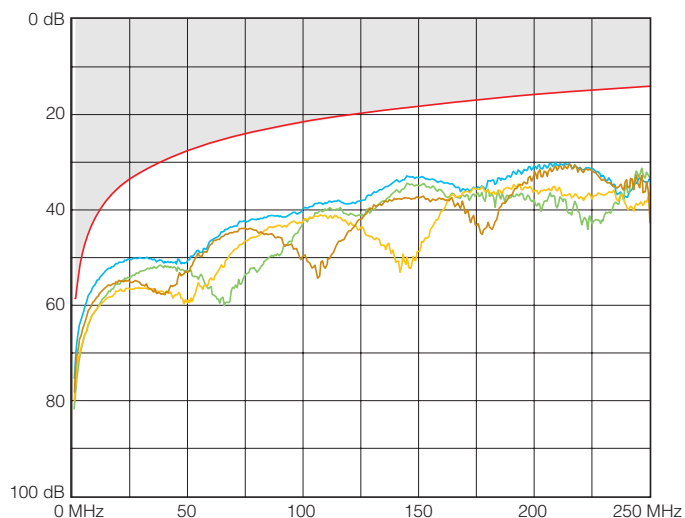
PS ACR (Power sum ACR)



ELFEXT (Equal Level End Crosstalk attenuation)



PS ELFEXT (Power sum ELFEXT)



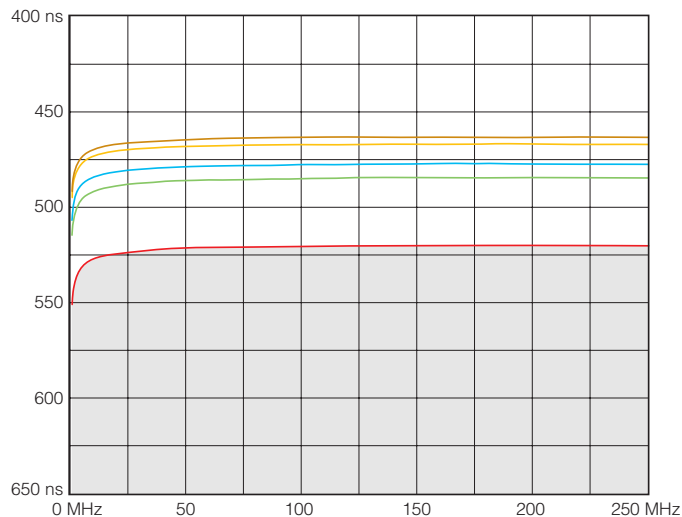
Mosaic RJ 45 socket for LCS⁶ Category 6

Cat. No(s) : 742 80/81/87/ 90/91/92/93/95

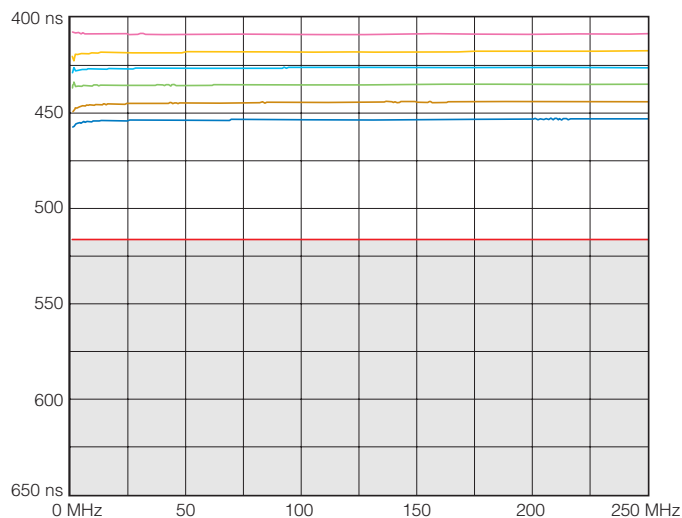
8. PERFORMANCE (continued)

8.3 Channel performance (continued)

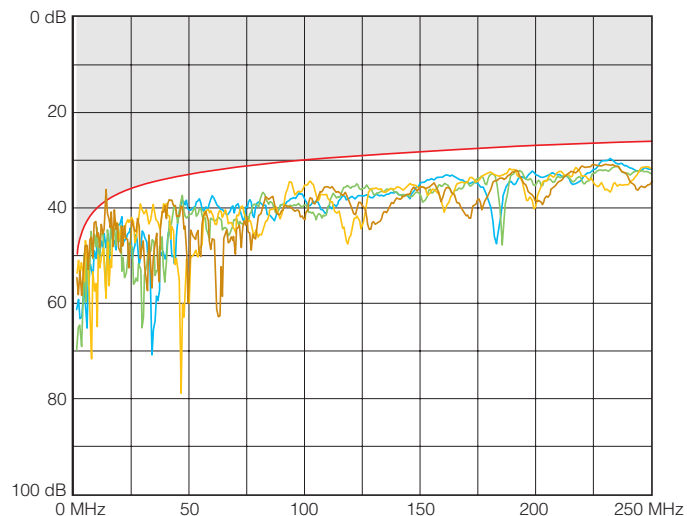
Propagation delay



Delay skew



LCL (Longitudinal Conversion Loss)



9. STANDARDS AND APPROVALS

Conforming to the following standards

ISO 11 801 Second edition

EN 50 173 Second edition

EIA / TIA - 568 - B.2

NFC 20 730

Standard 8877 - 603.7

3P approval no. : 102 180