LEGRAND

87045 LIMOGES Cedex
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LCS2 Cat. 6A RJ 45
Patch panels and units

Cat. No(s).: 335 73/76

335 73   335 76

1. GENERAL CHARACTERISTICS

The patch panel is 19" and equipped with 4 units (24 x Cat. 6A RJ 45 sockets).
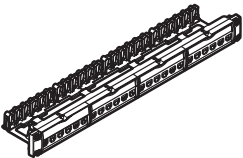Cat. 6A units and panels are suitable for medium and large installations.
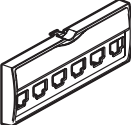The panel is supplied with:
- 4 captive screws
- 4 universal cage nuts
- 1 label holder
- 6 sets of coloured labels, numbered from 1 to 24 (white, grey, red, blue, green, yellow).
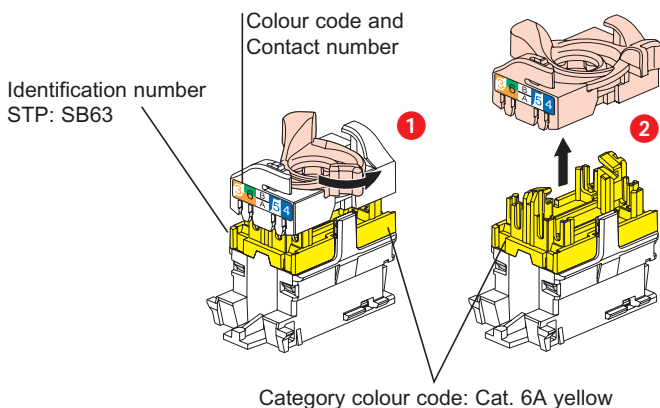
The unit is equipped with six Cat. 6A RJ 45 connectors. It is supplied with a set of non-numbered coloured labels.
The panels offer automatic earthing of each connector with Legrand enclosures.
The RJ 45 connectors on the panels and units are identical, with suitable design and ergonomic features.
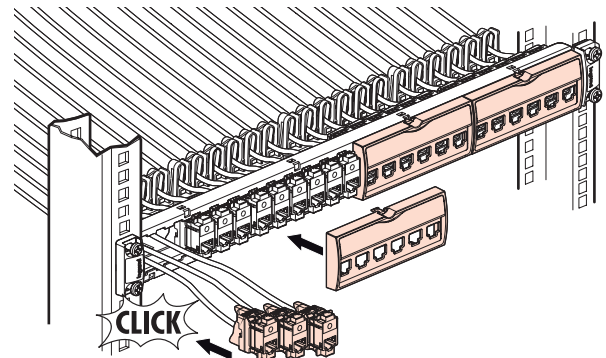
2. PRESENTATION

Designation	STP	Weight (g)
24 x Cat. 6A STP RJ 45 patch panel	335 73	1240
6 x Cat. 6A STP RJ 45 patch unit	335 76	195

Identification number
STP: SB63

Colour code and
Contact number

Category colour code: Cat. 6A yellow

3. INSTALLATION

Connectors are attached without the need for specific tools.

CLICK

- Each connector is clipped on individually through the front of the panel
- The label holder casing is fixed over the 6 connectors to provide a perfect finish.

No need to attach using cable collars: cables are retained in the guides.

4. TECHNICAL DATA

4.1 Material characteristics
Panel: DC01 galvanised steel sheet
Block: RAL 9005 polycarbonate
Connector:
- Contacts: gold/nickel, 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.
STP connectors are fitted with a steel ring enabling a 360° Earth connection.

4.2 Electrical characteristics
Breakdown voltage $\geq$ 1000 V
Contact resistance $\leq$ 20 mΩ
Insulation resistance $\geq$ 500 MΩ at 100 V DC
Connector tested and guaranteed under PoE restrictions, IEEE 802.3af 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.
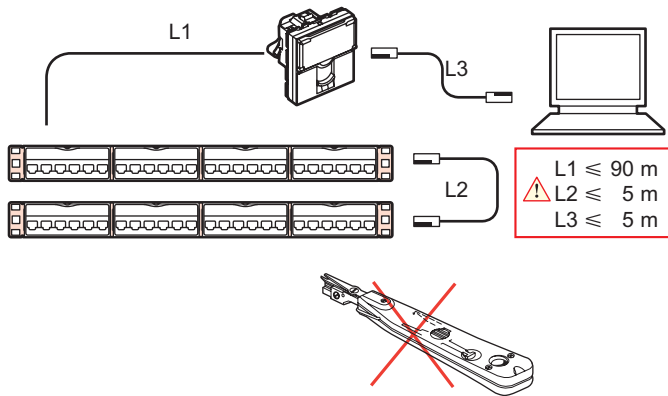Endurance: 2500 movements (plug insertion/withdrawal).
IK03

4.4 Climatic characteristics
Operating temperature: - 40° C to + 70° C
Humid heat cycle 21 days

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5. CONNECTION

L1

L3

L2

L1 ≤ 90 m
⚠ L2 ≤ 5 m
L3 ≤ 5 m

6. OVERALL DIMENSIONS

Patch panel Cat. No. 335 73

43.8

482.6

80.8
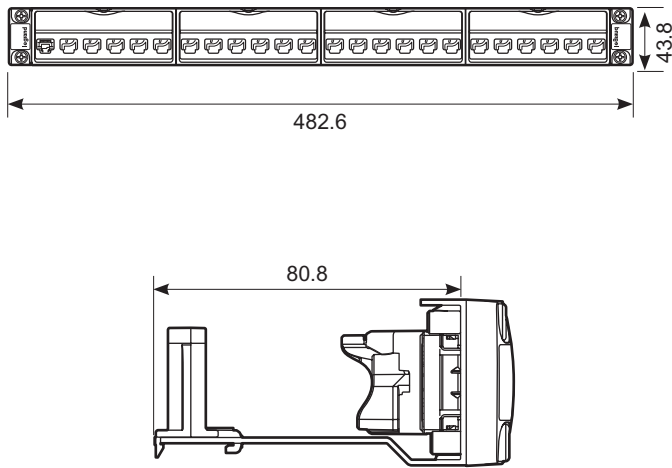
Patch unit Cat. No. 335 76

43.8

111.6

12.55
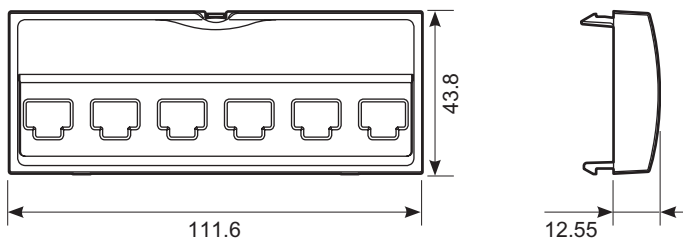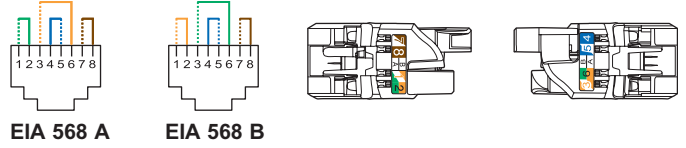
7. USUAL CONNECTION OF RJ 45s

Accepts following cable connectors:
RJ 11 (4 contacts), RJ 12 (6 contacts), RJ 45 (9 contacts).

Double colour code EIA - TIA 568 A and B on terminals:
- STP 9 contacts 360° screen

1 2 3 4 5 6 7 8   1 2 3 4 5 6 7 8

EIA 568 A   **EIA 568 B**

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

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.

OK
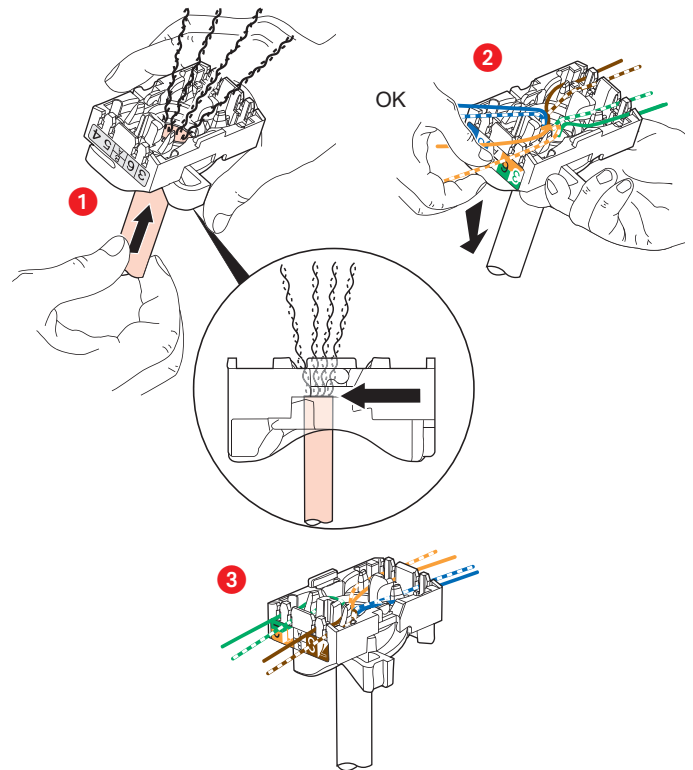
Simultaneous connection of cable strands is ensured.

This system allows the wire pairs to be spread easily before mounting them on the connector.
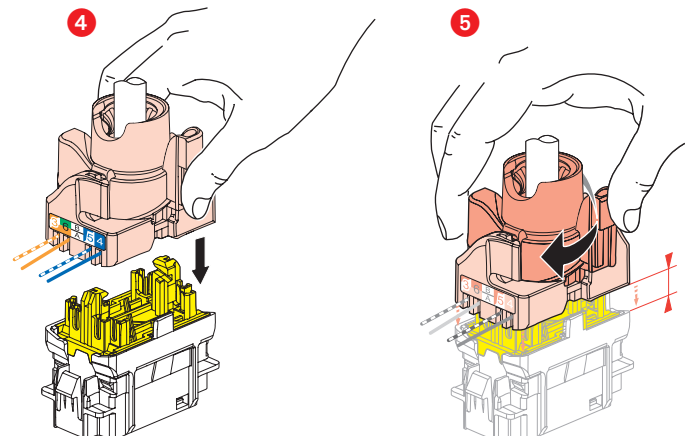
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7. USUAL CONNECTION OF RJ 45s *(cont.)*

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.
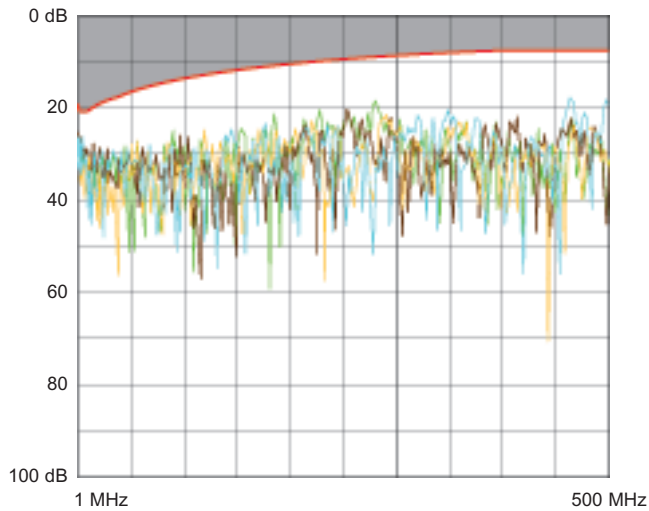
8. STANDARDS AND APPROVALS

Compliant with standards: ISO 11801 Second edition
EN 50173 Second edition
EIA/TIA-568-B.2
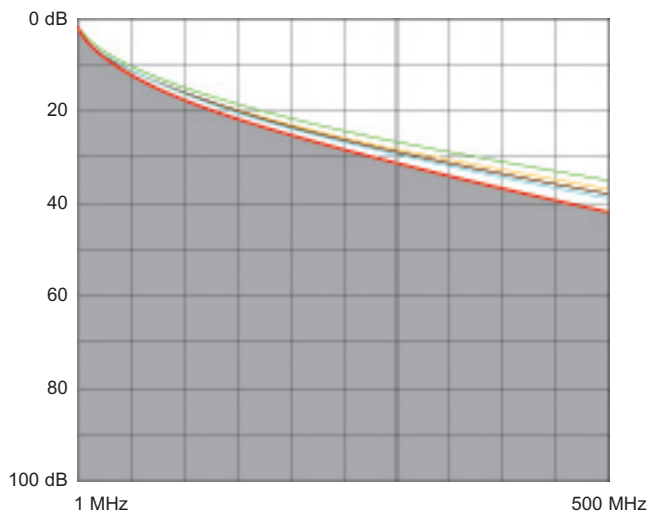NF C 20730
Standard 8877 – 603.7

9. PERFORMANCE

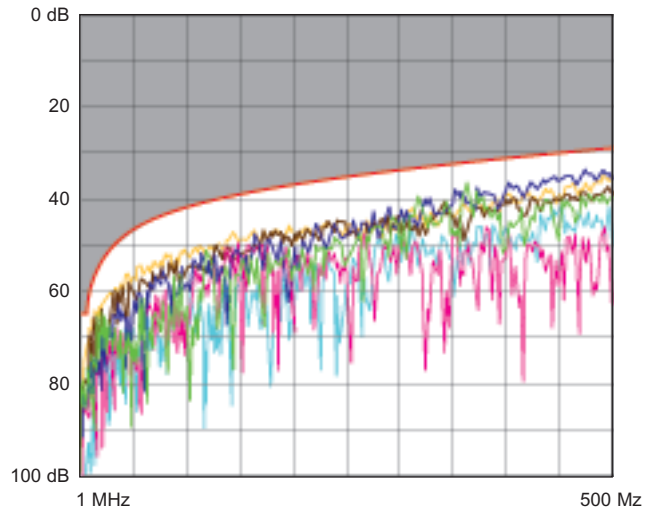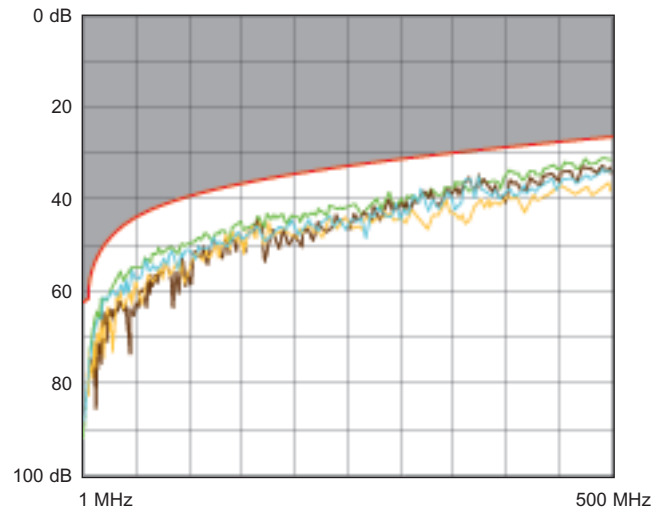**9.1 Performance of permanent link with F/UTP cable**
Return loss

Attenuation
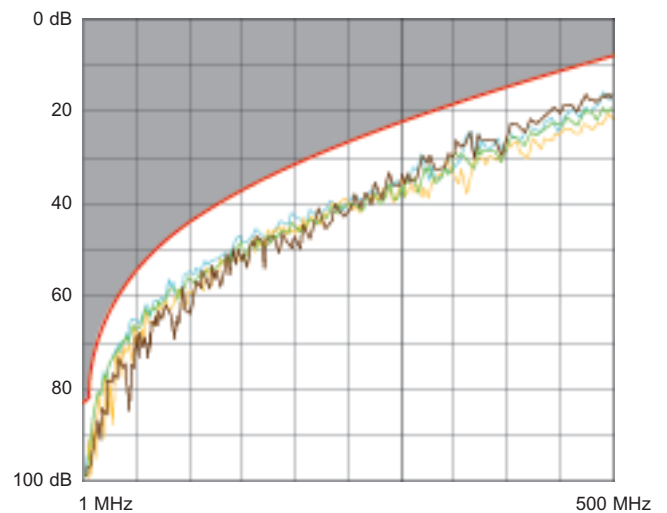

9. PERFORMANCE *(cont.)*

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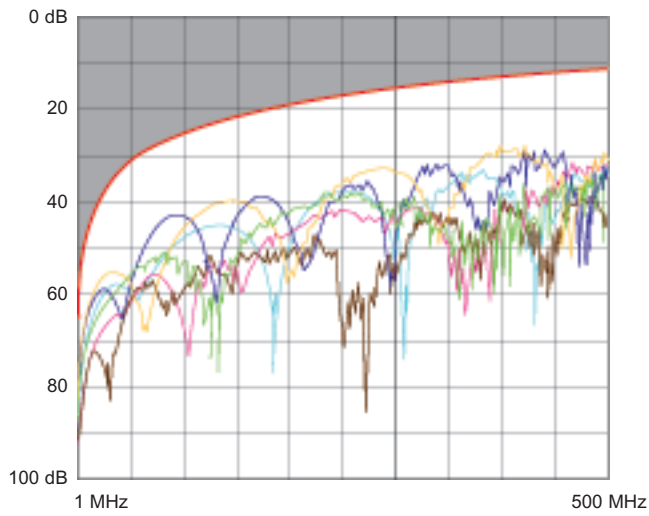

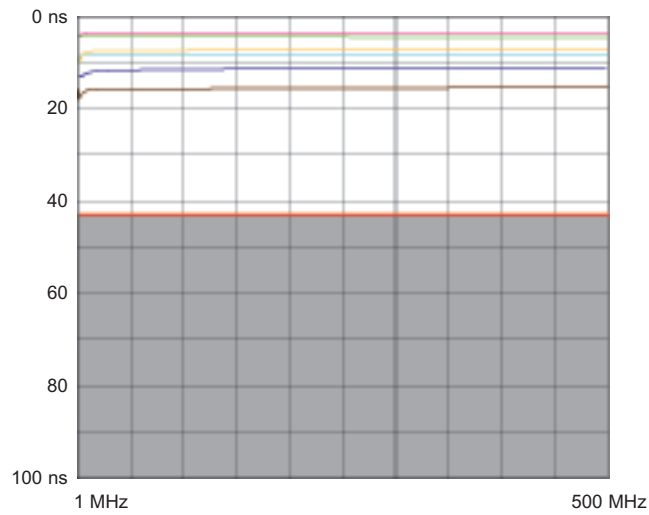PS NEXT (Power Sum NEXT)

ACR (Attenuation to Crosstalk Ratio)

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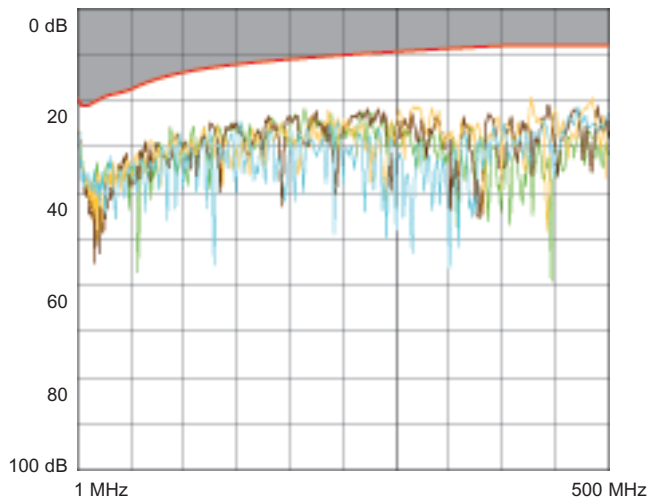# Patch panels and units

9. PERFORMANCE *(cont.)*

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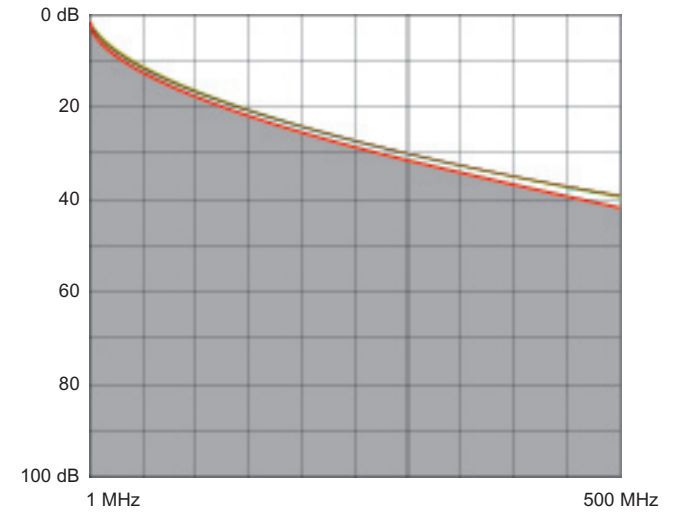ELFEXT (Equal Level End Crosstalk Attenuation)

Delay skew

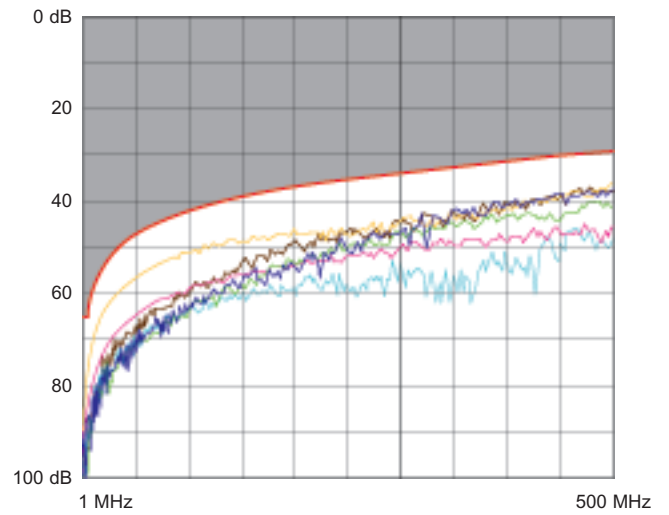### 9.2 Performance of permanent link with S/FTP cable
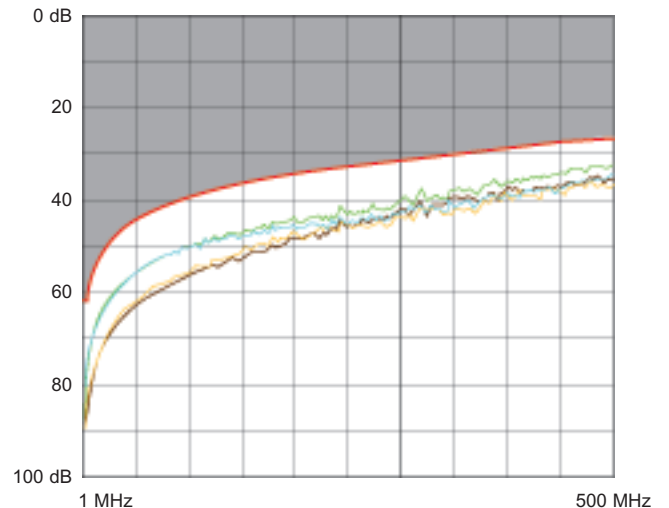Return loss

9. PERFORMANCE *(cont.)*

9.2 Performance of permanent link with S/FTP *(cont.)*
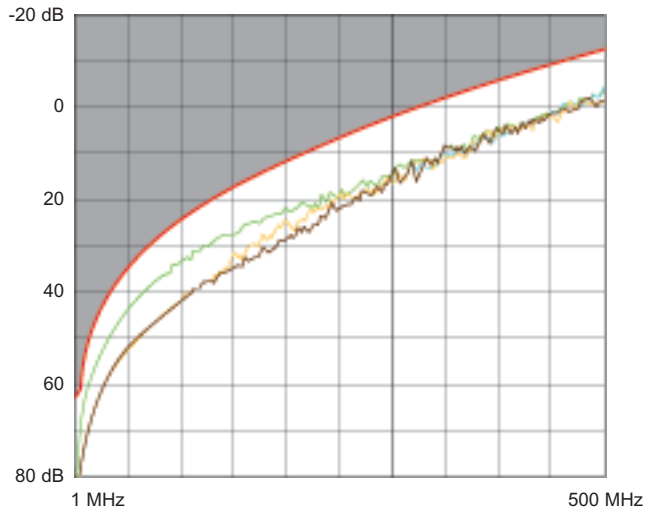Attenuation

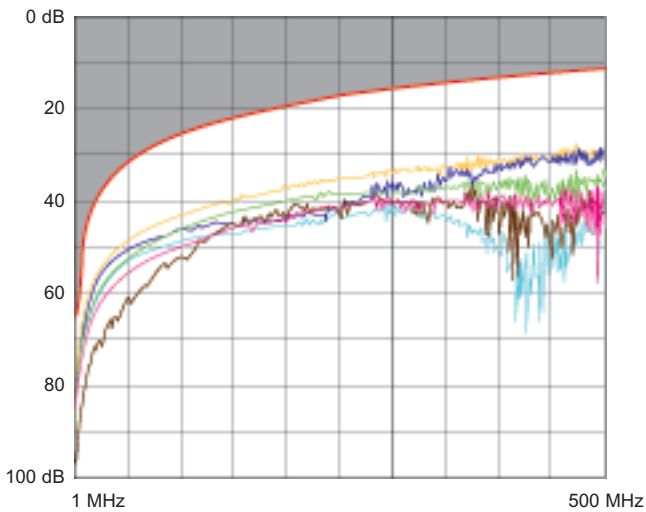NEXT (Near end Crosstalk Attenuation)

PS NEXT (Power Sum NEXT)

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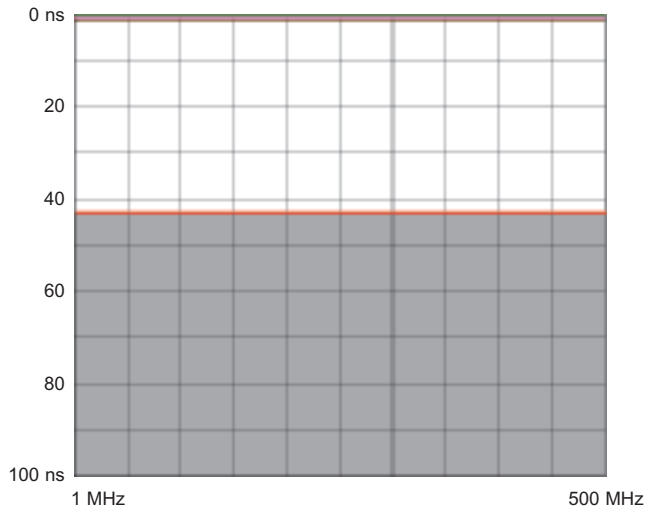## 9. PERFORMANCE *(cont.)*

9.2 Performance of permanent link with S/FTP cable *(cont.)*
ACR (Attenuation to Crosstalk Radio)
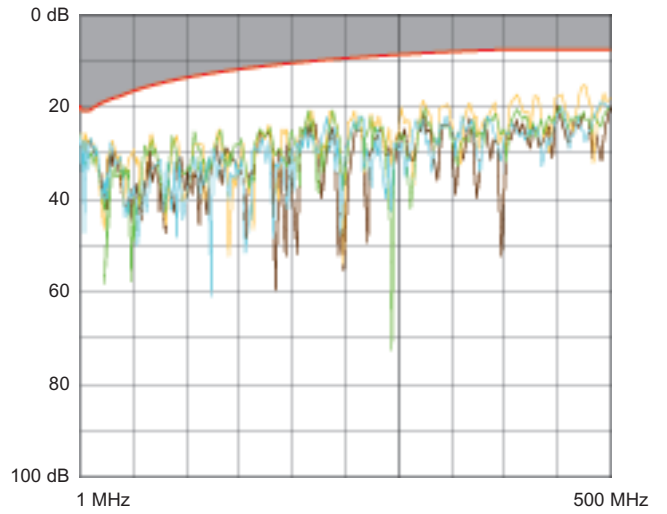

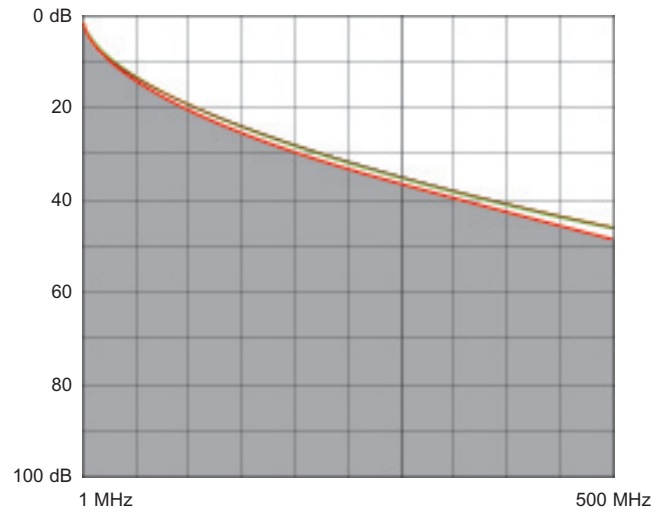ELFEXT (Equal Level End Crosstalk Attenuation)

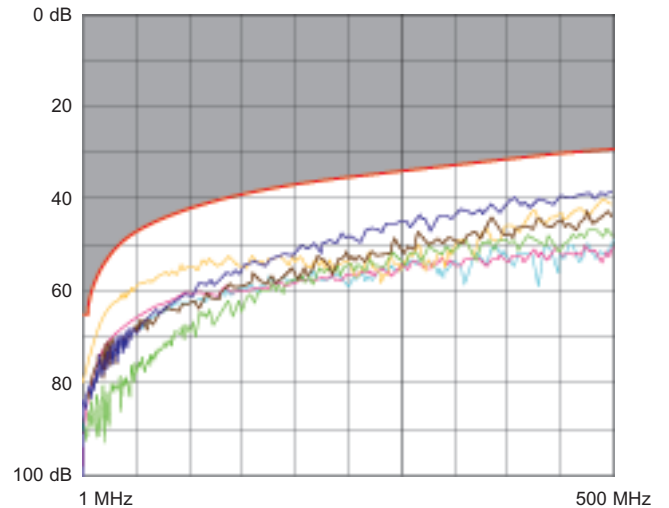Delay skew

9. PERFORMANCE *(cont.)*

9.3 Channel performance
Return loss

Attenuation

NEXT (Near end Crosstalk Attenuation)

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9. PERFORMANCE *(cont.)*

9.3 Channel performance *(cont.)*
PS NEXT (Power Sum NEXT)

1 MHz   500 MHz

ACR (Attenuation to Crosstalk Ratio)

1 MHz   500 MHz

ELFEXT (Equal Level End Crosstalk Attenuation)

1 MHz   500 MHz

9. PERFORMANCE *(suite)*

9.3 Channel performance *(cont.)*
Delay skew

1 MHz   500 MHz

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