**LEGRAND®**

## LCS³ RJ45 Cat. 6$_A$ panel and connectors

**Cat. No(s): 0 337 70/72/73/75**

0 337 70/72          0 337 73/75

### CONTENTS                                      Page

### 1. GENERAL CHARACTERISTICS

Equipped with new-generation Soluclips for automatic fixing (screwless) on cabinet and enclosure uprights (the soluclips are designed to adapt to uprights of thickness ranging from 1.5 to 2mm max).

Universal mounting in all racks or cabinets with automatic earthing on unpainted uprights. Painted uprights can be connected to earth with a cord and a screw connection.

Equipped with rear cable guide to hold cable during maintenance.

Equipped with 4 cassettes of 6 LCS³ RJ45 Cat. 6A connectors with toolless fast connection, marked 568 A/B.

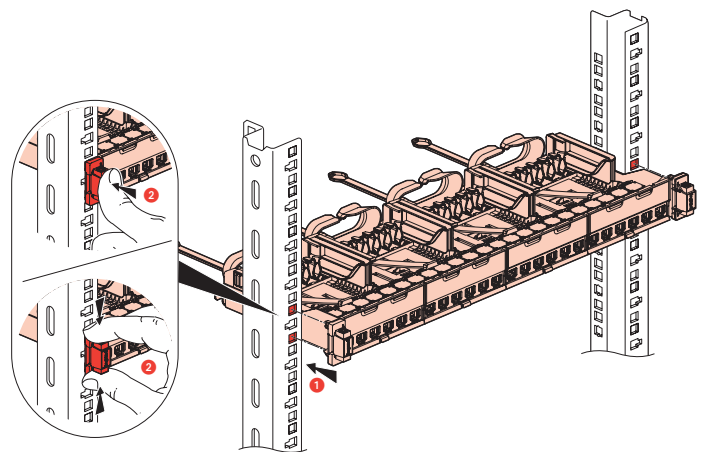Supplied with different colour identification labels for each cassette (blue, white, yellow, orange).

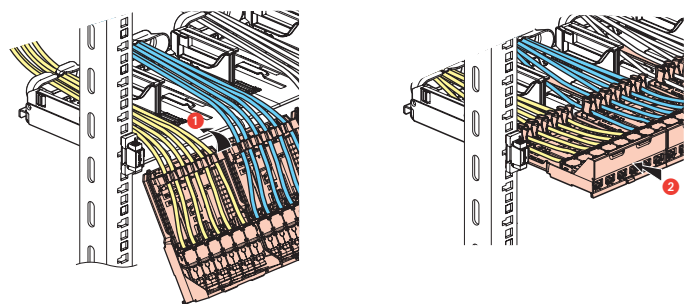Conforming to standards ISO/IEC 11801 edition 3.0 (2017) and ANSI/TIA 568.2-D.

19" panel - 1 U.

Cassettes removed automatically by simply pressing the button on the front.

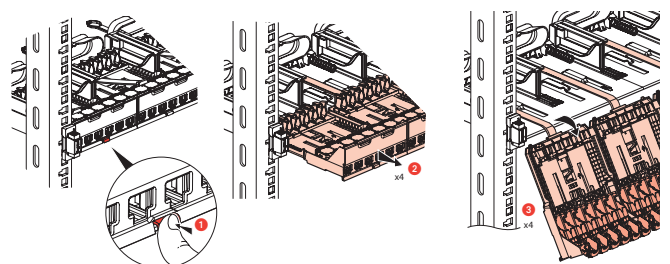Each connector can be removed individually.

| Description | | UTP | STP | Weight (g) |
|---|---|---|---|---|
| | Panel with 24 RJ45 Cat. 6A UTP | 0 337 70 | | 1786 |
| | Panel with 24 RJ45 Cat. 6A STP | | 0 337 72 | 2505 |
| | Connector with 6 RJ45 Cat. 6A UTP | 0 337 73 | | 11 |
| | Connector with 6 RJ45 Cat. 6A STP | | 0 337 75 | 40 |

### 2. POSITIONING

Connectors are connected at the front without a special tool.

- Connectors clip onto the panel individually

No need for cable ties: the cable is held in its cable guide in the cassette and by a concentric strand guide on the panel.

Mounting a panel



Mounting a cassette



Removing a cassette



---

Technical data sheet: S000096850EN-06                Updated: 14/09/2021                Created: 07/03/2017

## 3. TECHNICAL CHARACTERISTICS OF PANEL

### ■ 3.1  Material characteristics
Panel: DC01 galvanised sheet steel.

### ■ 3.2  Electrical characteristics
Automatic grounding of cassette to panel
Automatic grounding of panel  to uprights through unpainted contact area.
Ground lug on panel if additional grounding necessary.

### ■ 3.3  Mechanical characteristics
Fixing to uprights without screws: Upright thickness 1.5 to 2mm
For fixing to uprights outside tolerance, Soluclip can be removed and replaced by screws.

## 4. TECHNICAL CHARACTERISTICS OF CONNECTORS

### ■ 4.1  Mechanical characteristics
Max. number of connections and disconnections: 5 without refreshing the wiring.
Endurance: 2500 movements (plug insertion/withdrawal).

### ■ 4.2  Material characteristics
Contacts: Gold/nickel, minimum thickness of gold > 0.8 µm.
Metal parts: Bronze, nickel, platinum, gold.
Polycarbonate PBT.

### ■ 4.3  Electricalcal characteristics
Breakdown voltage ≥ 1000 V.
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 90w (Type 4)."

### ■ 4.4  Climatic characteristics
Storage temperature : 10°C to +70°C
Operating temperature : -10°C to +60°C

## 5. PERFORMANCE A 20°

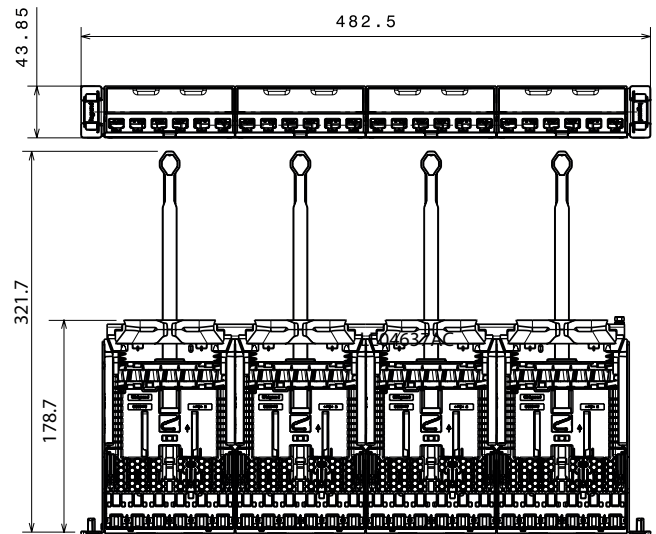Maximum length of Permanent Link based on architecture

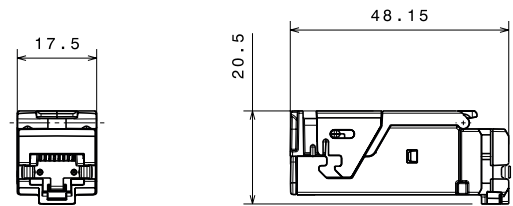|  | Maximum cord length* | Maximum Permanent Link | Total Channel |
|---|---|---|---|
| 2 Connector Channel | 10m | 89m | 99m |
| 3 Connector Channel | 10m | 88m | 98m |
| 4 Connector Channel | 10m | 87m | 97m |

* = sum of 2 cords

Note: calculations based on ISO/IEC 11801. Legrand products support the 100m 2-connector channel, confirmed by laboratory testing.

## 6. DIMENSIONS

Dimensions of panels 0 337 50/51



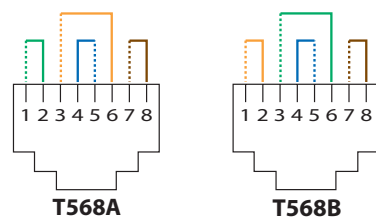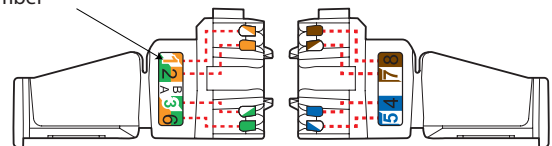Dimensions of connectors 0 337 53/54



## 7. TYPICAL RJ45 CONNECTION

Takes the following plugs:
RJ 11 (4 contacts), RJ 12 (6 contacts), RJ 45 (9 contacts).

T568 A and B dual colour code:
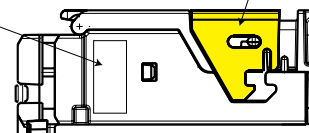- UTP (8 contacts)
- FTP (9 contacts)



**T568A**     **T568B**

Coulour code and contact number



Identification number
UTP : HD 61
STP : HD 63

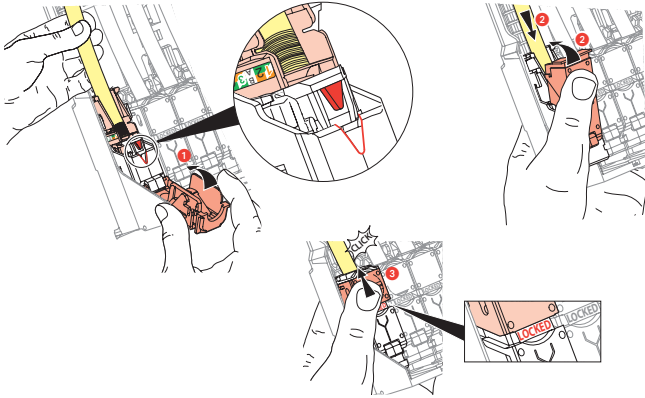Category colour code :
Cat. 6A yellow
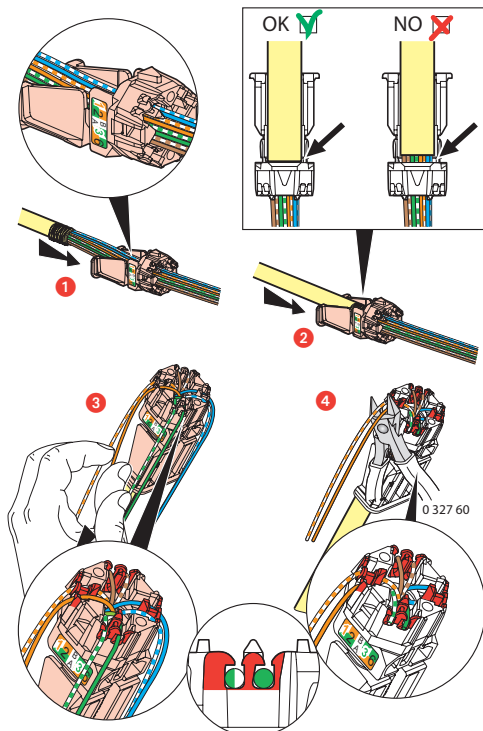
**CONTENTS**

Permissible conductors:
- Solid/Stranded : 0.4 to 0.65 mm, AWG 26 to 22
- Polyethylene conductor insulation: Ø 0.85 to 1.7 mm on insulation

Number of wires to be connected per connection: 1

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 and positioning the sleeve firmly in the spreader ensures that a pair-breakage distance of 13 mm is kept between pairs, as required by the standard.
Spreading pairs at 90° to the cable ensures the best possible performance.

## 8. ACCESSORIES

**- 0 337 57:** Blanking cassette

Used to fill gaps in the panel.

**- 0 337 56:** Port blanking plate

Blanking plate with 6 separable ports

Used to block up individually, partially or fully 1 to 6 ports (cassette with 6 ports) or 1 to 12 ports (HD cassette).

**- 0 337 59:** Cable guide

2 cable guides to be clipped onto new-generation Soluclips.

Manages cables laterally by holding them and tilting them horizontally and vertically.

Each cable guide is guaranteed to hold up to 12 Cat6a cords

## 9. STANDARDS

ISO/IEC 11801 series : International standard for generic cabling for customer premises

ANSI/TIA 568 series : North American standard for generic cabling for customer premises

EN 50173 series : European standard for generic cabling for customer premises

IEC 60603-7 series : International standard for connector specifications
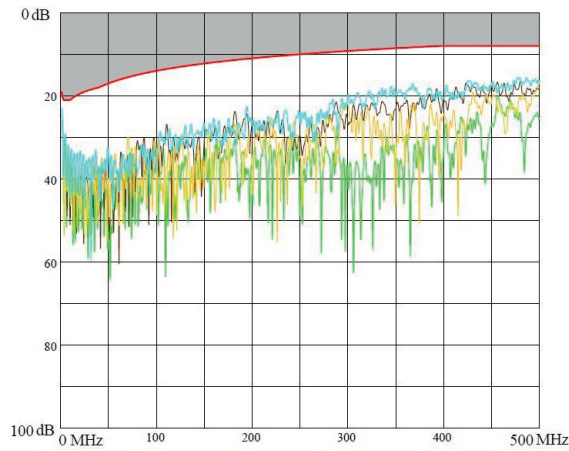
Connectors are compliant to requirements for the following remote powering applications

IEEE 802.3af , IEEE 802.3at , IEEE 802.3bt : "Power over Ethernet", Types 1 to 4, up to 90w.
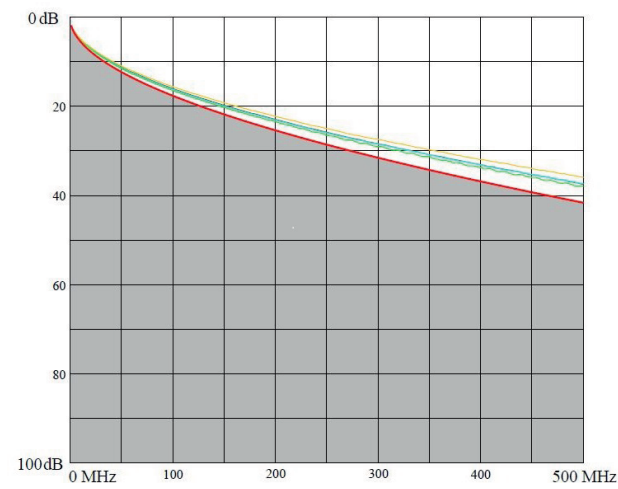
## 10. SYSTEM PERFORMANCES

### ■10.1 Permanent link performances with F/UTP cable
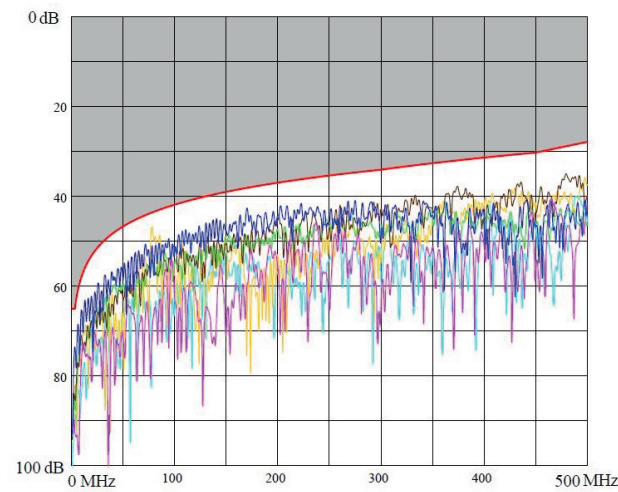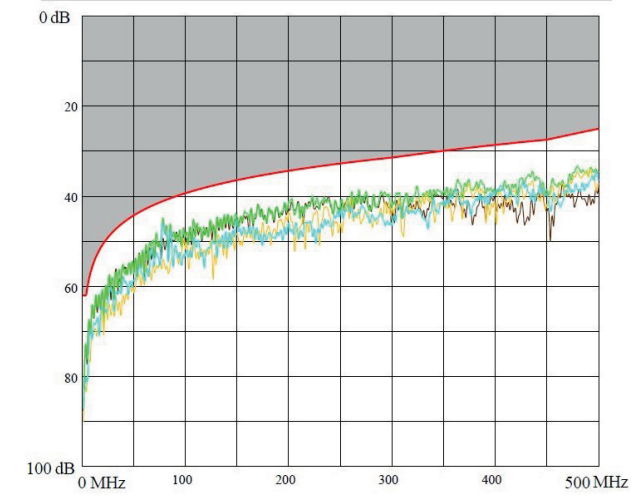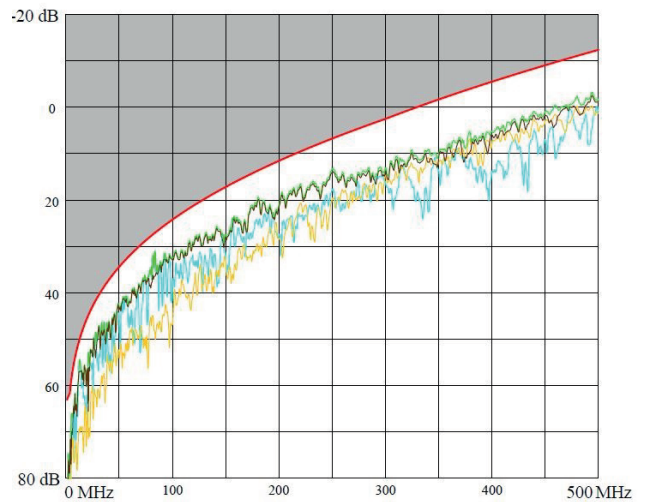
Return loss



Attenuation
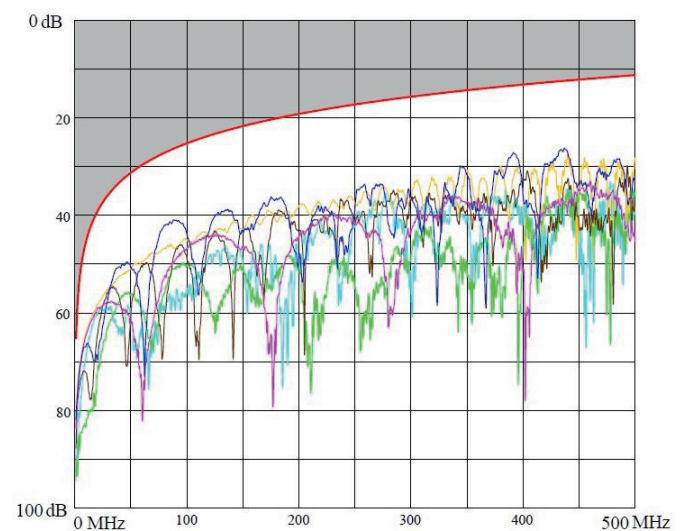


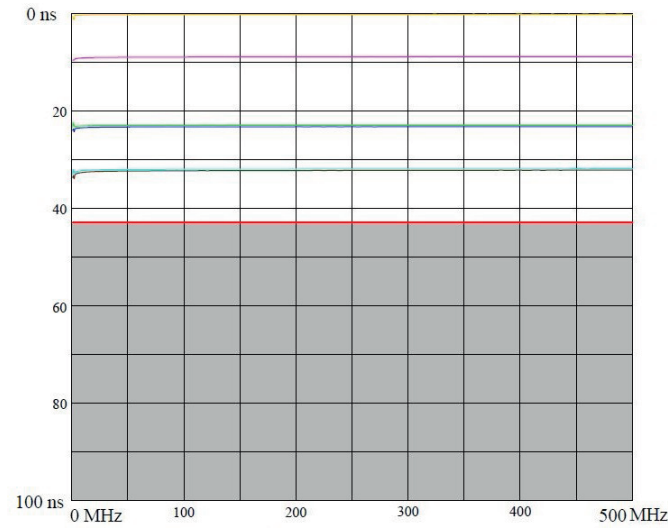NEXT (Near end Crosstalk Attenuation)



PS NEXT (Power Sum NEXT
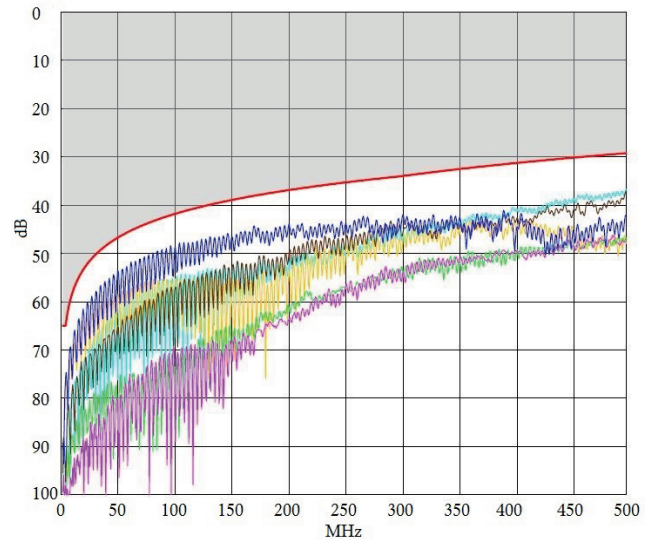


ACR (Attenuation to Crosstalk Ratio)



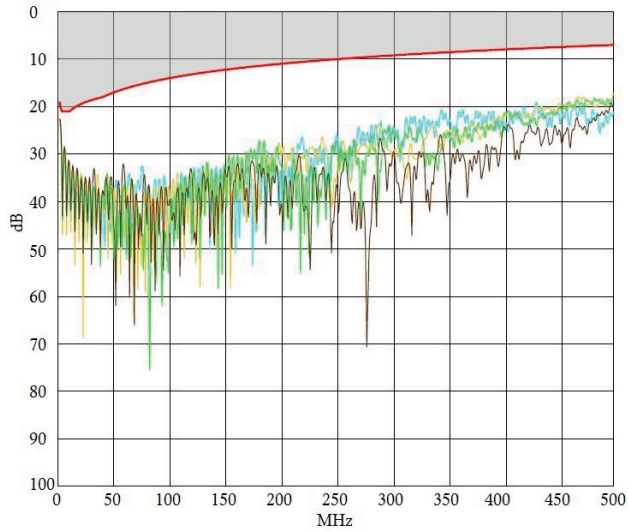ELFEXT (Equal Level End Crosstalk Attenuation)

## Delay skew



## NEXT (Near end Crosstalk Attenuation)
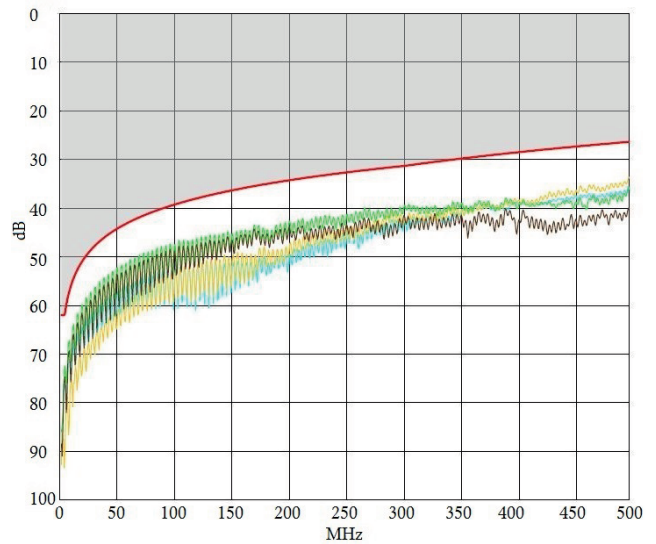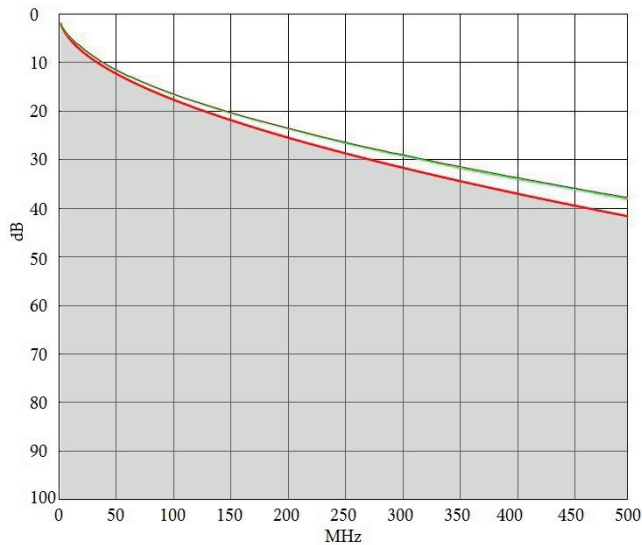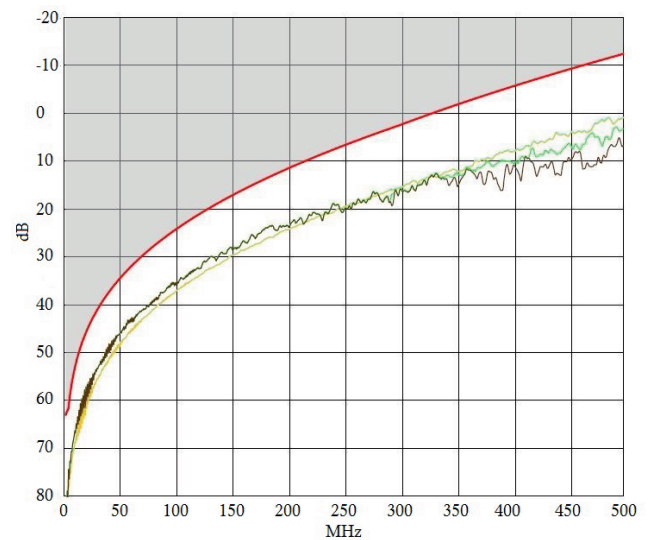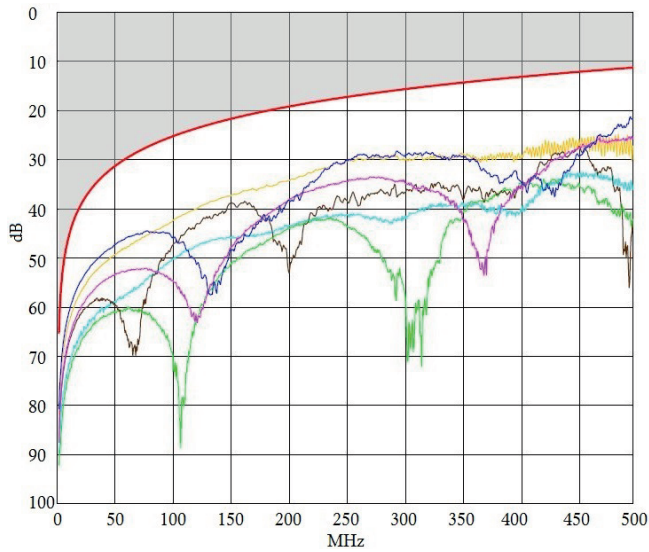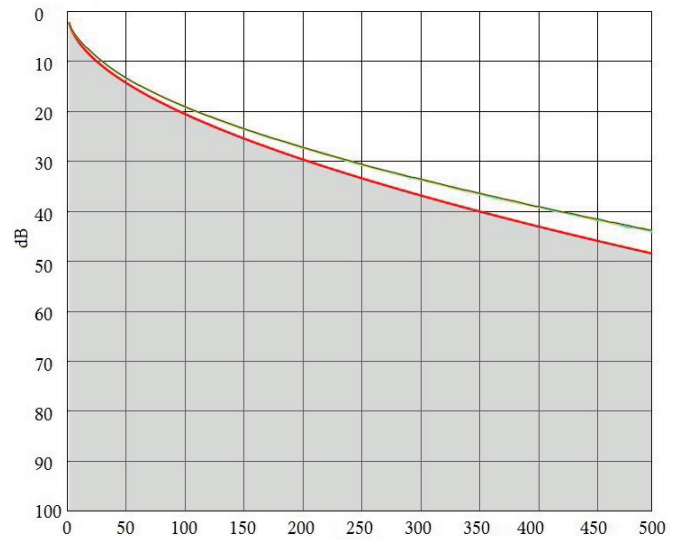


### ■ 0.2  Permanent link performances with S/FTP cable

## Return loss



## PS NEXT (Power Sum NEXT)



## Attenuation



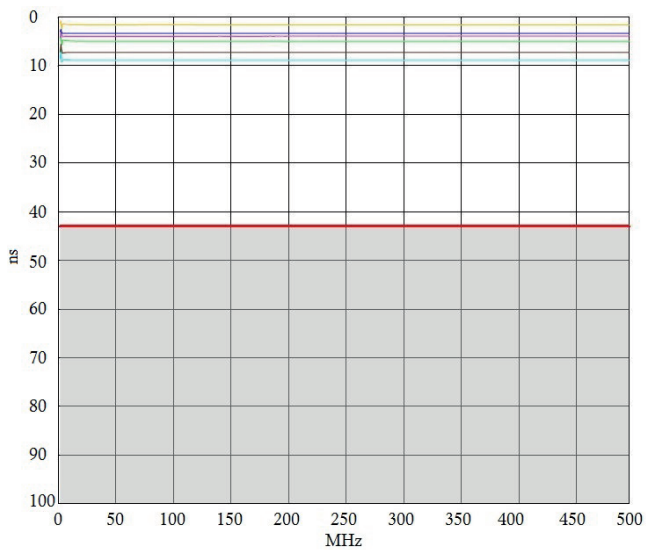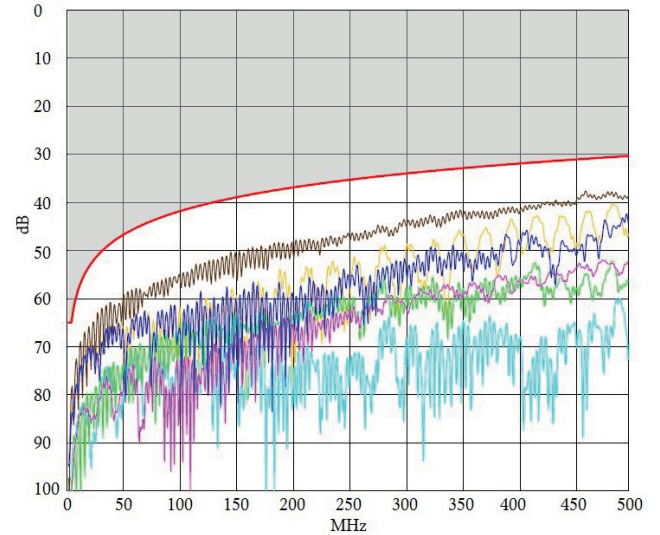## ACR (Attenuation to Crosstalk Ratio)

ELFEXT (Equal Level End Crosstalk Attenuation)
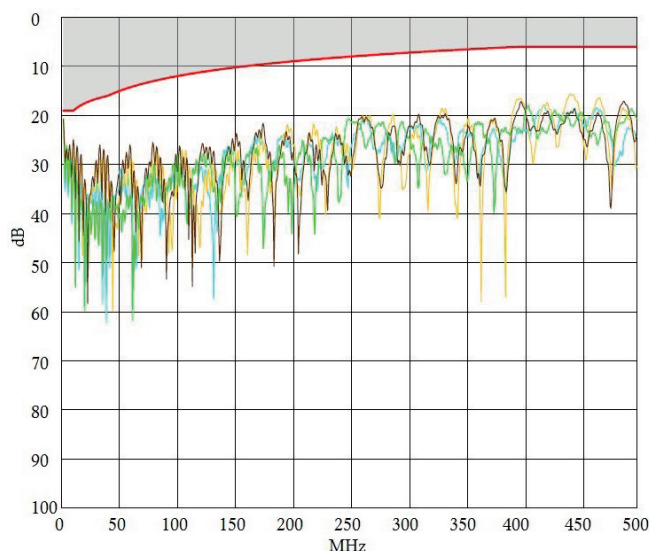


Attenuation



Delay skew



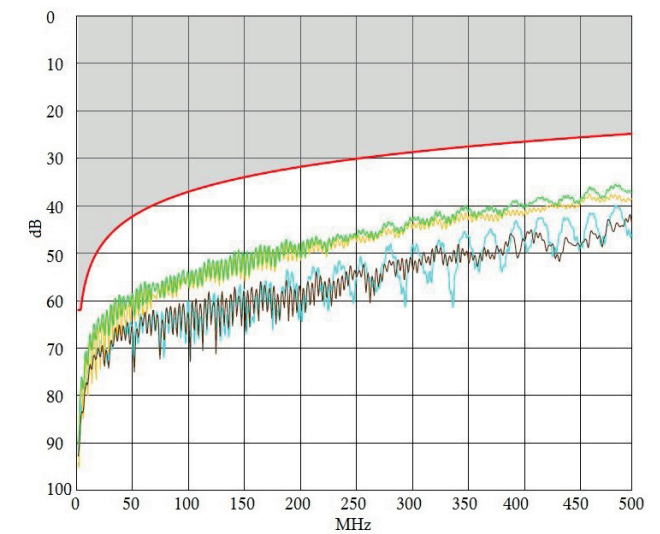NEXT (Near end Crosstalk Attenuation)
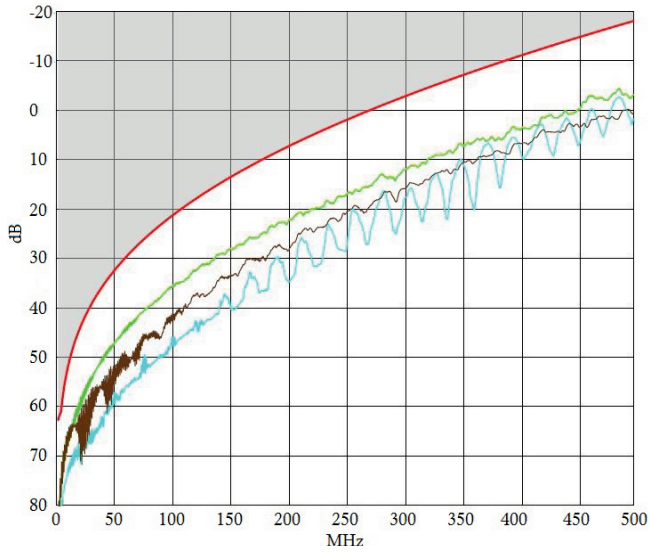


■ 10.3  **Channel performances**
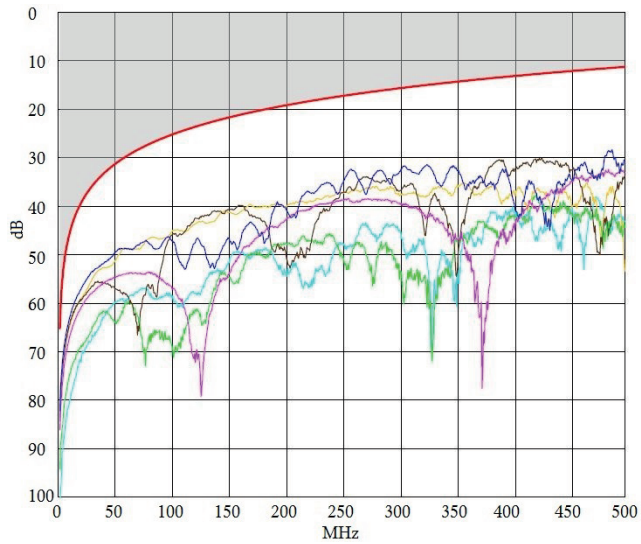
Return loss



PS NEXT (Power Sum NEXT)

ACR (Attenuation to Crosstalk Ratio)



ELFEXT (Equal Level End Crosstalk Attenuation)



Delay skew