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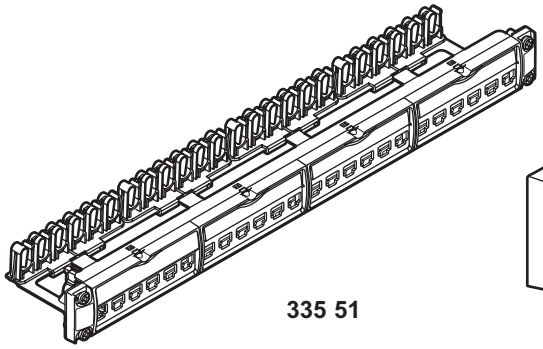
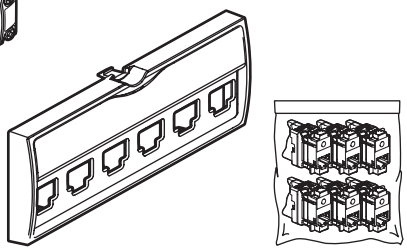
# LCS² Cat. 5e RJ 45 panels and units

**Cat. no(s).: 335 51/52/54/55**



335 51



335 54

CONTENTS Page



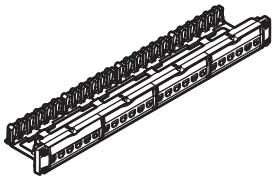
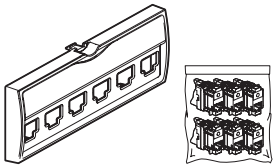
## 1. GENERAL CHARACTERISTICS

Patch panels are 19'' in size and are equipped with 4 units (24 RJ 45 Cat. 5e).
They are supplied with:
- 4 captive screws
- 4 universal cage nuts
- 1 label holder
- 6 sets of numbered, coloured stickers from 1 to 24 (white, grey, red, blue, green, yellow)

Units are equipped with 6 RJ 45 Cat. 5e. connectors Units are delivered with a set of stickers.

Panels ensure automatic earthing of each connector.

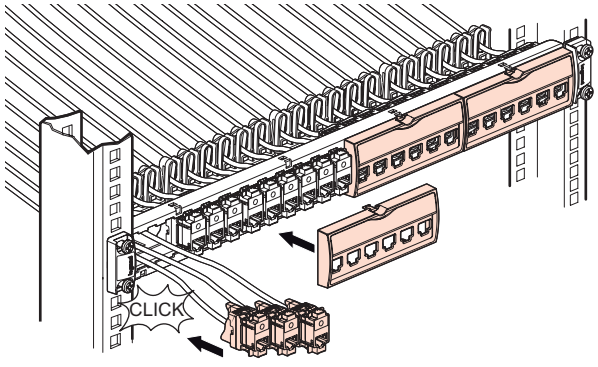
The RJ 45 connectors on the panels and units are identical and have a tailored ergonomic design.

| | Designation | UTP | FTP | Weight (g) |
|---|---|---|---|---|
|  | 24 RJ 45 panel Cat. 5e UTP | 335 51 | | 760 |
| | 24 RJ 45 panel Cat. 5e FTP | | 335 52 | 760 |
|  | 6 RJ 45 unit Cat. 5e UTP | 335 54 | | 75 |
| | 6 RJ 45 unit Cat. 5e FTP | | 335 55 | 75 |

## 2. REAL LIFE SCENARIOS

Connectors are connected from the front without requiring a special tool.
- Connector simply snaps onto the panel
- Fastening of label holder faceplate ensuring perfect finish of the 6 connectors

No need for cable ties: the cable stays in the cable guide.



# LCS² Cat. 5e RJ 45 panels and units

**Cat. no(s).: 335 51/52/54/55**

## 3. TECHNICAL FEATURES

### 3.1 Characteristics of the materials

Panel: DC01 galvanised sheet steel
Unit: RAL 9005 polycarbonate
Connector:
- Contacts: gold/nickel, thickness of gold >0.8 em minimum
- Metal pieces: bronze, nickel, platinum, gold
- Polycarbonate PBT

### 3.2 Electrical characteristics

Breakdown voltage M 1000 V
Contact resistance m 20 mq
Insulation resistance M 500 Mq under 100 V DC
Performance of resistance to a POE signal up to 50 W

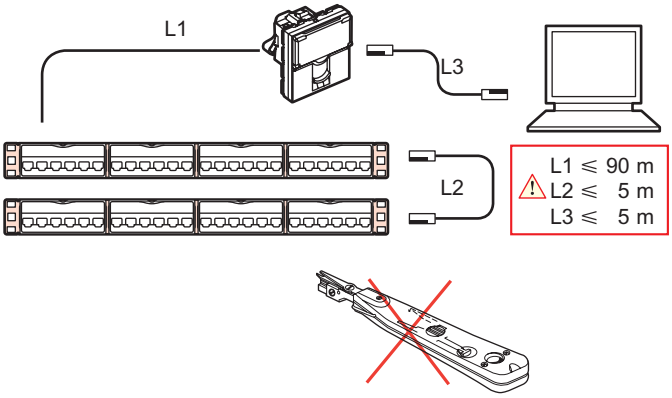
### 3.3 Mechanical characteristics

Max. number of connections/disconnections: 5 without re-preparing the wire
Endurance: 2500 operations (plug-in/pull-out)
IK03

### 3.4 Climatic characteristics

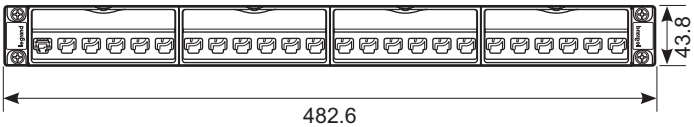
Operating temperatures: -40°C to +70°C
Humid heat 21-day cycle

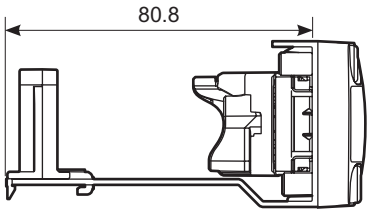
## 4. INSTALLATION



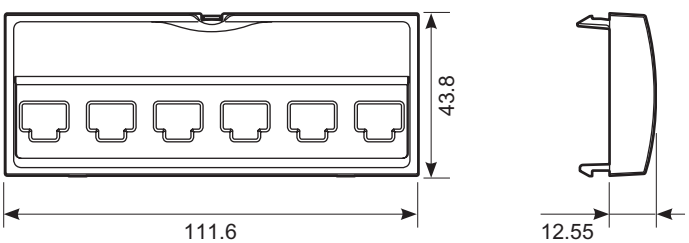

## 5. OVERALL DIMENSIONS

**Patch panel Cat. No. 335 51/52**



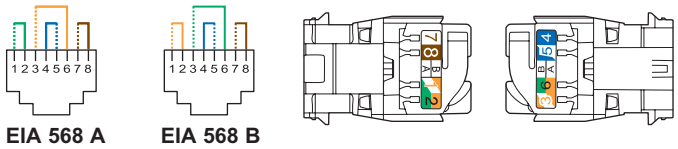

**Unit Cat. No. 335 54/55**




## 6. STANDARD RJ 45 CONNECTION

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

EIA/TIA 568 A and B dual colour code on terminals:
- UTP 8 contacts
- FTP 9 contacts

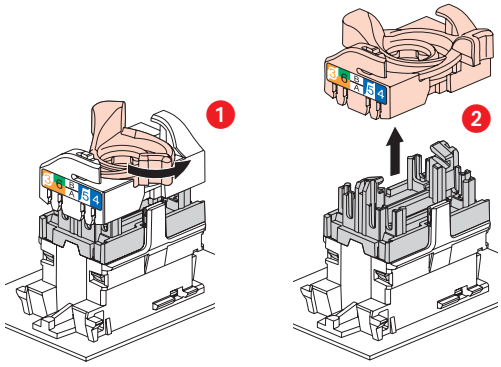



**EIA 568 A** **EIA 568 B**

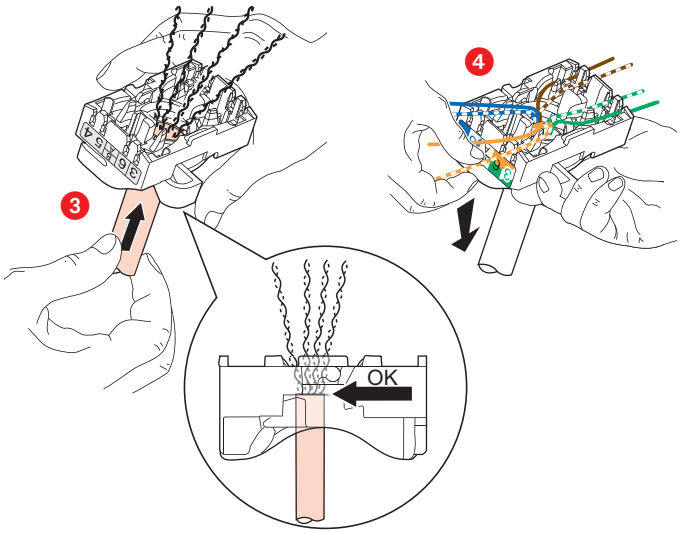
Permitted conductors:
- Single-core: 0.5 to 0.65 mm, AWG 22 to 25
- Multicore: AWG 26
- Polyethylene conductor insulation: Ø max. on 1.58 mm insulation

Number of wires to be connected per connection: 1

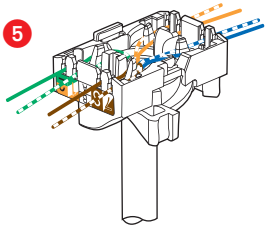
RJ 45 connectors are equipped with a locking nut. They do not require a special tool and can be re-wired if a mistake is made.




This system allows you to spread pairs with ease before fitting them onto the connector.



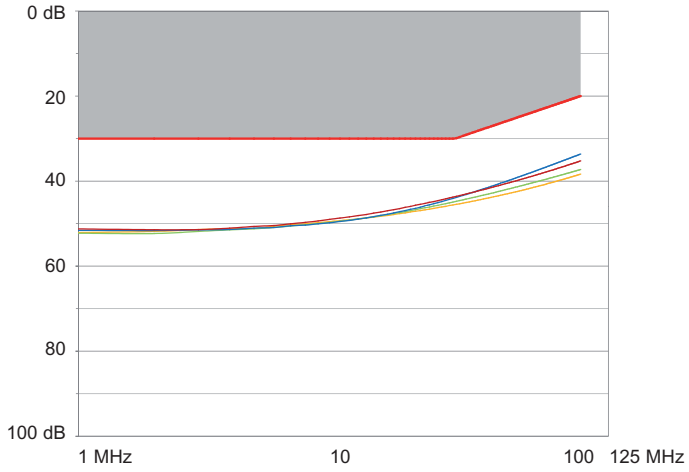

Spreading the cables allows you to ensure that a pair-breakage distance of 13 mm is kept between each pair.
Spreading pairs at 90° to the cable ensures the best possible performance.



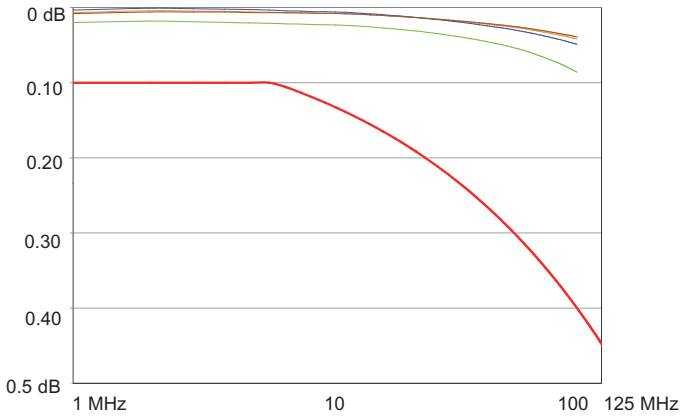
## 7. PERFORMANCE

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

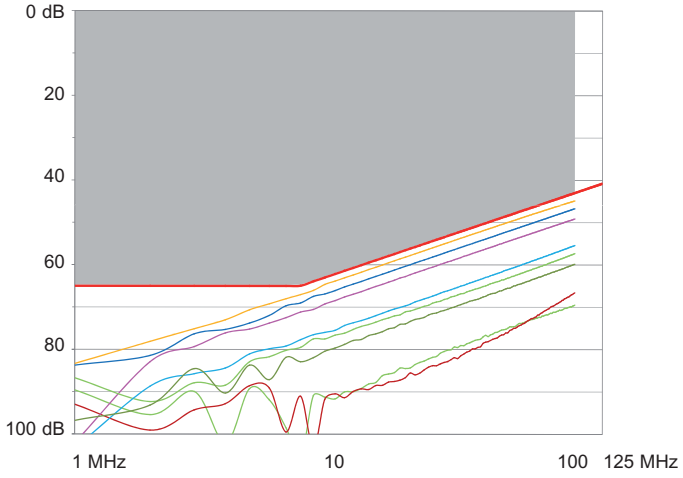
Return loss




Attenuation



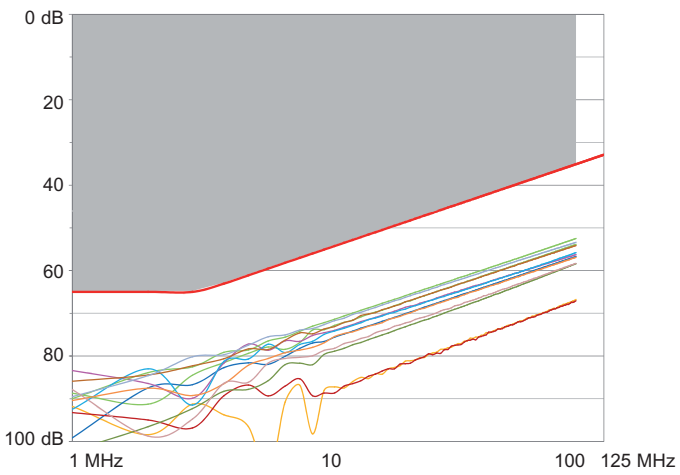

NEXT (Near end Crosstalk Attenuation)




## 7. PERFORMANCE *(continued)*

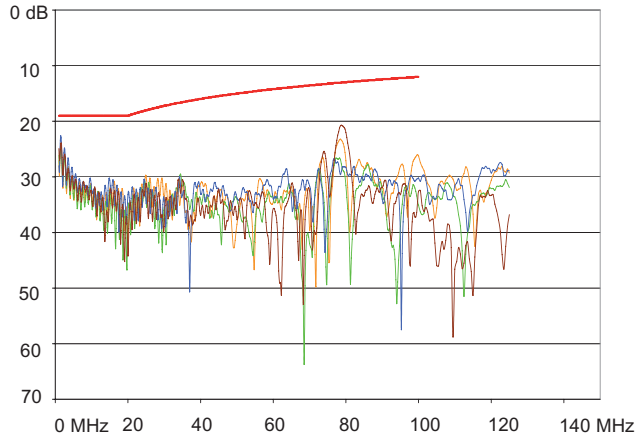
### 7.1 Performance of components (RJ 45 connectors) *(continued)*

FEXT (Far end Crosstalk Attenuation)

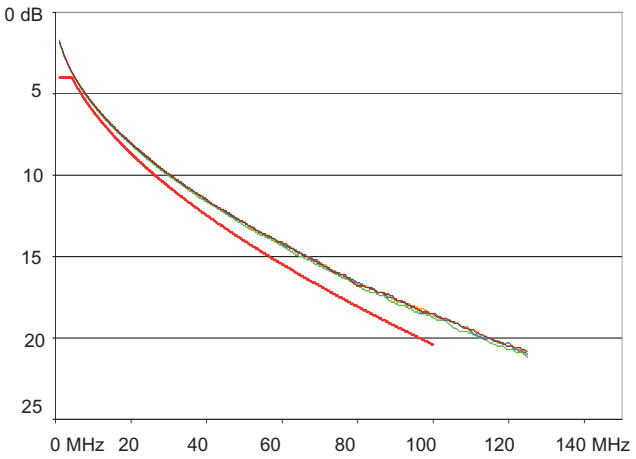



### 7.2 Performance of permanent link with F/UTP cable

Return loss



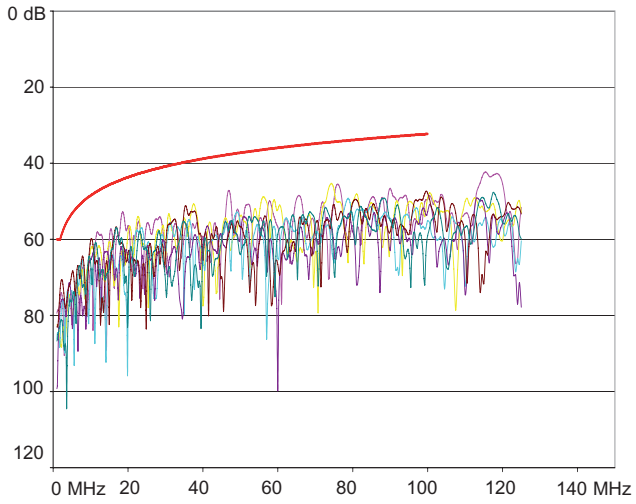

Attenuation



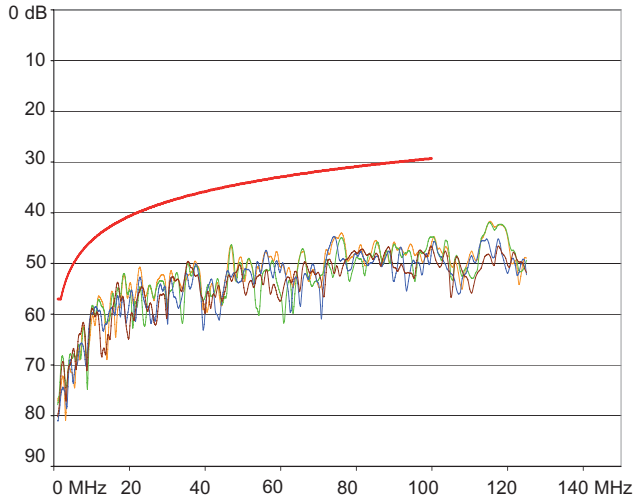
## 7. PERFORMANCE *(continued)*

**7.2 Performance of permanent link with F/UTP cable** *(continued)*

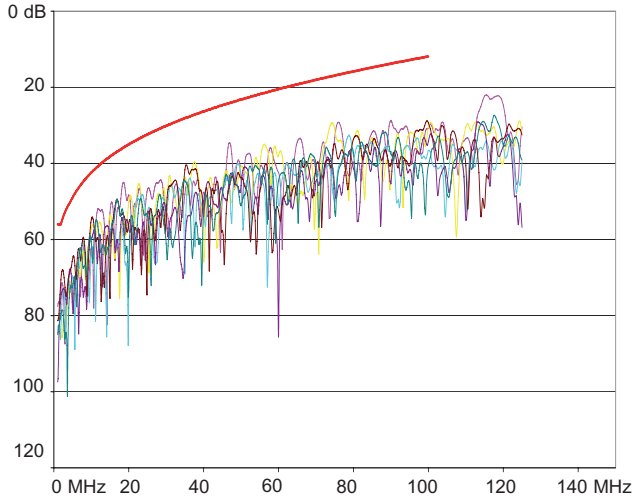
NEXT (Near end Crosstalk Attenuation)




PS NEXT (Power Sum NEXT)



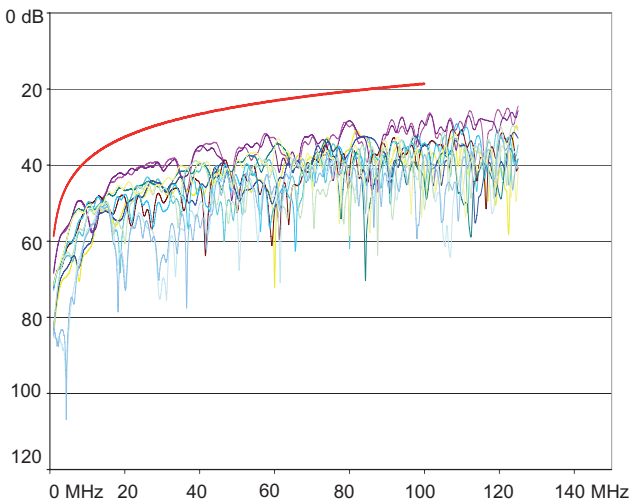

ACR (Attenuation to Crosstalk Ratio)




## 7. PERFORMANCE *(continued)*

**7.2 Performance of permanent link with F/UTP cable** *(continued)*

ELFEXT (Equal Level Far End Crosstalk Attenuation)




## 8. STANDARDS AND APPROVALS

Conforms to standards:

ISO/IEC 11801 Ed2 and Amd.
CENELEC EN 50173-1 2007
ANSI/EIA/TIA 568-C.2
IEC 60603-7 series