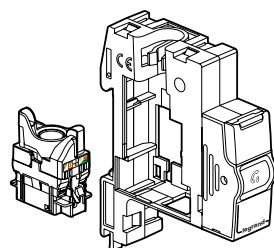
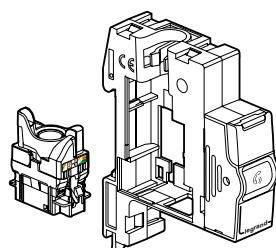


## UTP/FTP/STP category 6 patch module

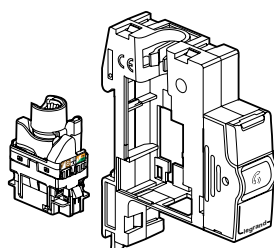
Catalogue number(s): 413001/413002/413003



413001



413002



413003

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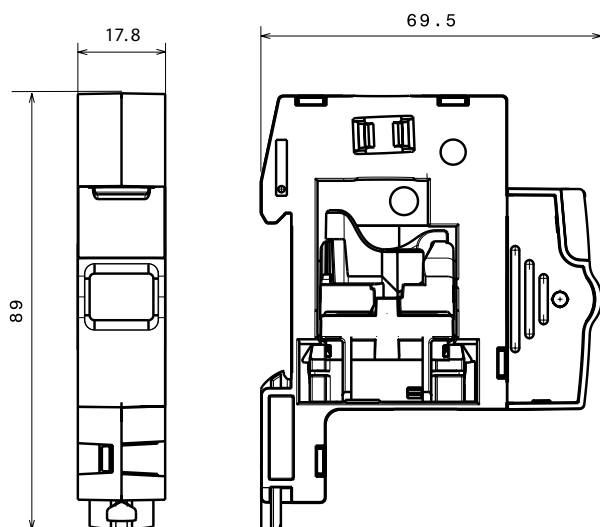
### 1. INTRODUCTION

Patch equipment for Grade 1, 2 and 3 applications with STP. RJ45 patch modules - Category 6 components.  
With an RJ45 core and reversible front cover for easier management of upward or downward outputs.  
With a label-holder for marking the room concerned.  
Identification of the medium used in the room by knob.  
DIN rail mounting.  
Takes high-speed transmissions (Ethernet Gigabit).

### 2. SELECTION CHART

| Description              | Cat. Nos. | No. of modules | Type | Weight (g) |
|--------------------------|-----------|----------------|------|------------|
| Category 6 patch modules | 413001    | 1              | UTP  | 36         |
|                          | 413002    | 1              | FTP  | 36         |
|                          | 413003    | 1              | STP  | 66         |

### 3. OVERALL DIMENSIONS



### 4. TECHNICAL FEATURES

#### Module:

Plastic casing: PC RAL 7035  
IP20 - IK04  
Tensile resistance on DIN rail: 100 N

#### Connector:

- Contacts: gold/nickel, thickness of gold > 0.8 µm minimum
- Metal parts: bronze, nickel, platinum, gold
- Polycarbonate PBT

For the STP modules the body and the spreader are made of metal alloy with copper and nickel coating.

The STP connectors have a steel ring for 360° earthing.

#### 4.1 Electrical features:

Breakdown voltage ≥ 1000 V  
Contact resistance ≤ 20 mΩ  
Insulation resistance ≥ 500 mΩ at 100 VDC

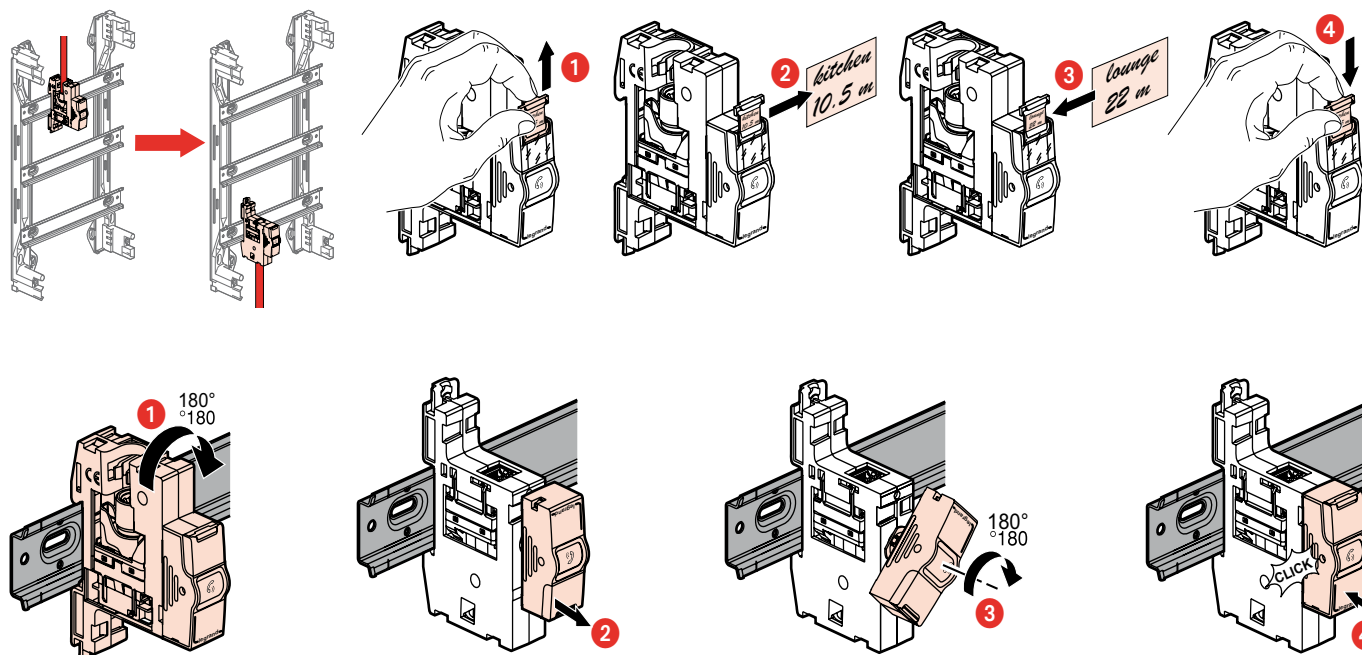
#### 4.2 Mechanical features:

Max. number of connections and disconnections: 5 without replacing the wire  
Endurance: 2500 operations (plugging in/unplugging)

#### 4.3 Climatic features:

Operating temperature: + 5°C to + 40°C  
Storage temperature: - 25°C to + 70°C

## 5. SETUP AND CONNECTION



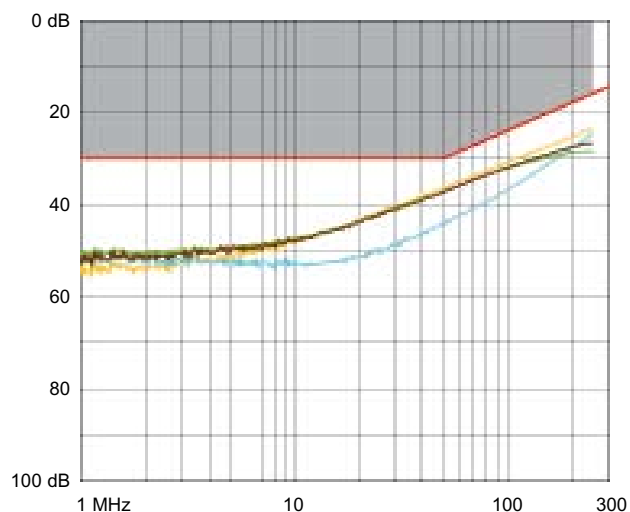
## 6. COMPLIANCE AND APPROVALS

Conforming to standards: ISO/IEC 11801 Ed2  
 CENELEC EN 50173-1 2007  
 ANSI/EIA/TIA 568-B.2-1  
 IEC 60603-7 series

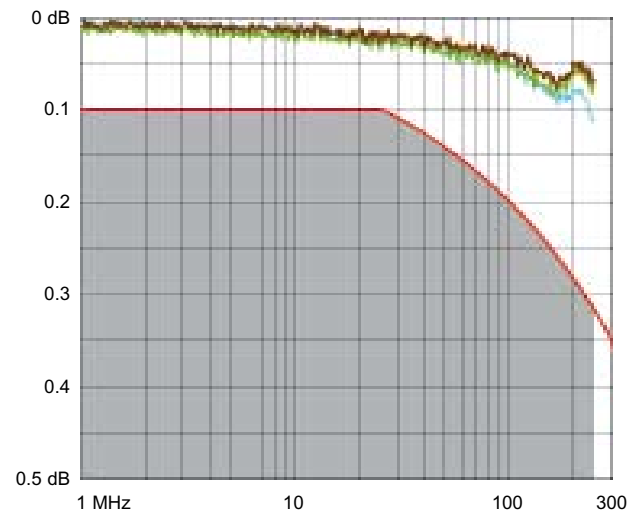
## 7. PERFORMANCE

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

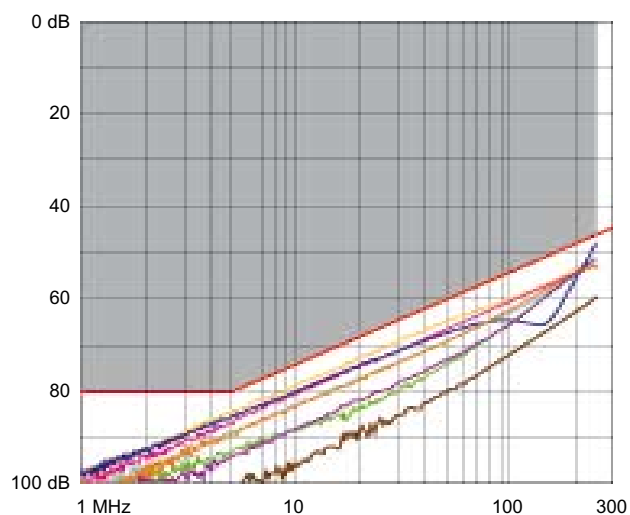
Return loss



Attenuation



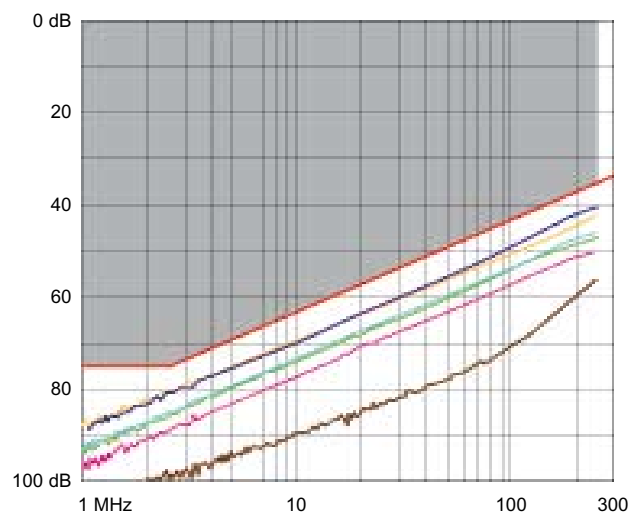
NEXT (Near end Crosstalk Attenuation)



## 7. PERFORMANCE (continued)

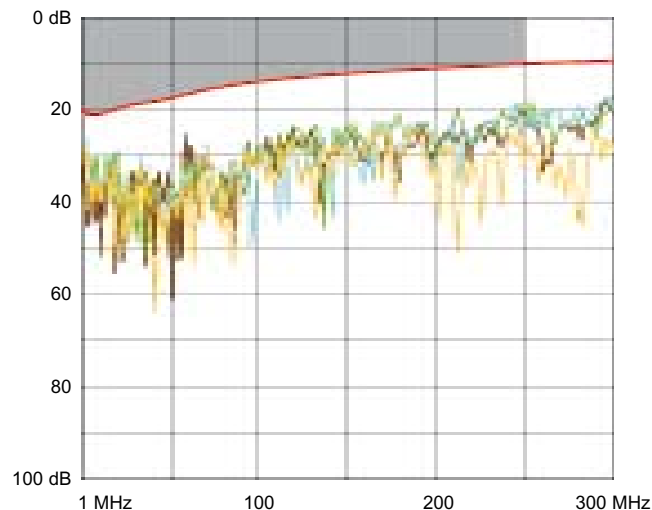
### 7.1 Performance of components (RJ 45 connectors) (continued)

FEXT (Far end Crosstalk Attenuation)

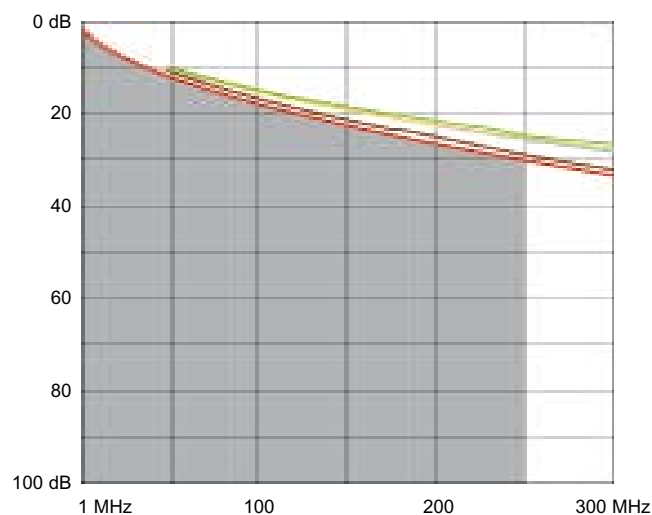


### 7.2 Performance of permanent link with F/UTP cable

Return loss

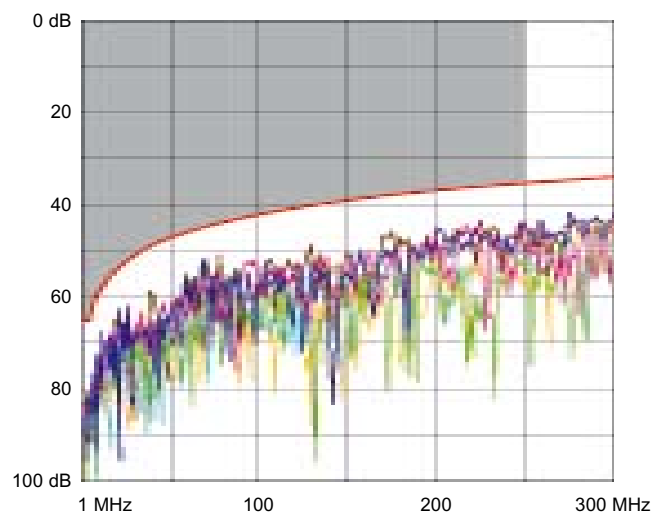


Attenuation

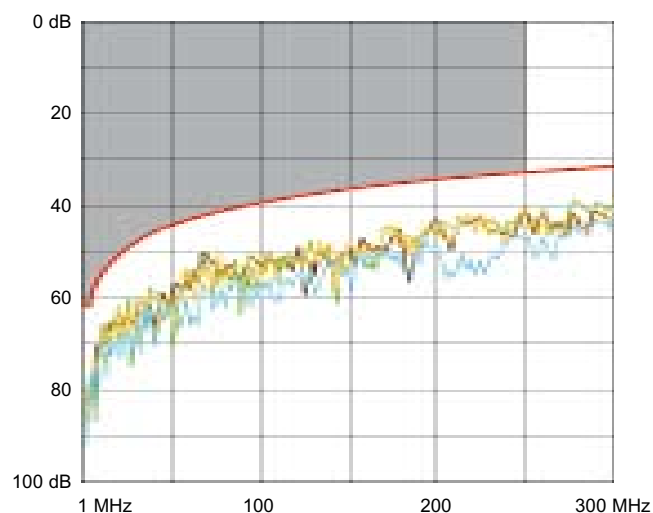


## 7. PERFORMANCE (continued)

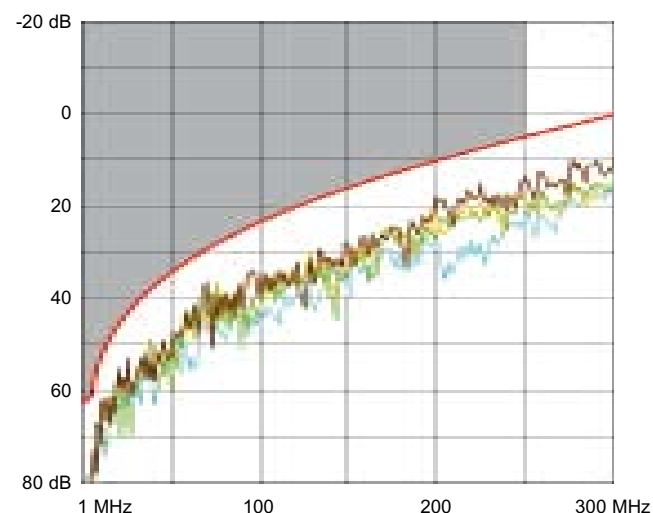
### 7.2 Performance of permanent link with F/UTP cable (continued) NEXT (Near end Crosstalk Attenuation)



### PS NEXT (Power Sum NEXT)

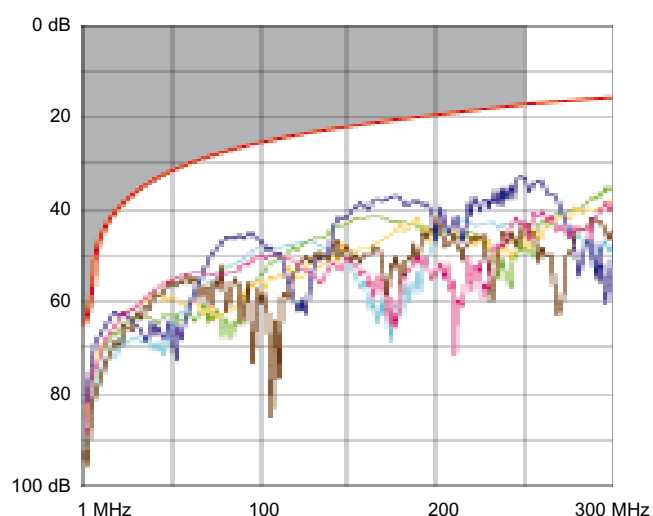


### ACR (Attenuation to Crosstalk Ratio)



## 7. PERFORMANCE (continued)

### 7.2 Performance of permanent link with F/UTP cable (continued) ELFEXT (Equal Level Far End Crosstalk Attenuation)



### Delay skew

