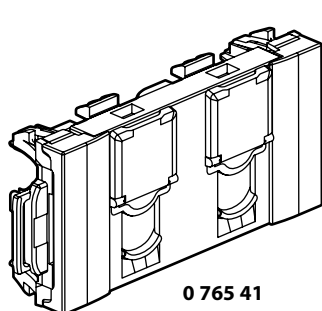


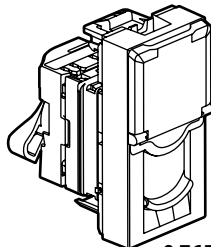
Mosaic™

LCS3 + Cat. 5e RJ 45 socket

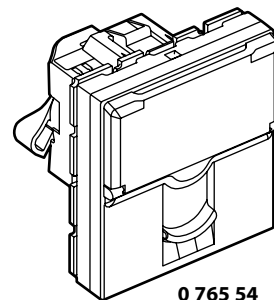
Cat. No(s): 0 765 01/02/41/42/51/52/54/55/97/98
0 794 51/52/54/55



0 765 41



0 765 51

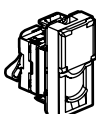
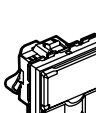
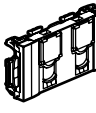
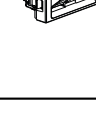


0 765 54

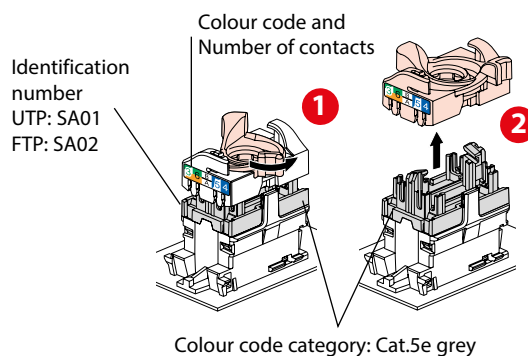
1. GENERAL CHARACTERISTICS

Category 5e RJ 45 socket. Allows high-speed transmissions (Gigabit Ethernet).

The connectors are compliant to all performance, mechanical, climatic and electromagnetic requirements of the ISO/IEC 11801-1.

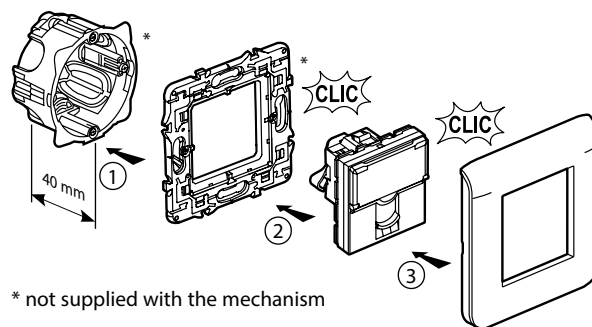
Designation	No. of modules	UTP	FTP	Weight (g)
 RJ 45 socket, Cat. 5e UTP	1	0 765 51		13
 RJ 45 socket, Cat. 5e UTP aluminium	1	0 794 51		13
 RJ 45 socket, Cat. 5e FTP	1		0 765 52	13
 RJ 45 socket, Cat. 5e FTP aluminium			0 794 52	13
 RJ 45 socket, Cat. 5e UTP	2	0 765 54		18
 RJ 45 socket, Cat. 5e UTP aluminium	2	0 794 54		18
RJ 45 socket, Cat. 5e FTP	2		0 765 55	18
RJ 45 socket, Cat. 5e FTP aluminium	2		0 794 55	18
2 x RJ 45 socket Cat. 5e UTP	4	0 765 41		
2 x RJ 45 socket Cat. 5e FTP	4		0 765 42	
RJ 45 safety socket Cat. 5e UTP	2	0 765 97		
RJ 45 safety socket Cat. 5e FTP	2		0 765 98	
RJ 45 socket 45° cat. 5e UTP	2	0 765 01		13
2 x RJ 45 socket 45° cat 5e UTP	2	0 765 02		34

2. PRESENTATION



3. REAL LIFE SCENARIOS

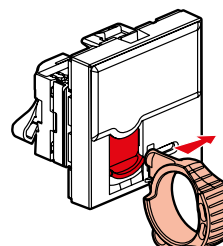
Mechanisms can be flush-mounted or surface-mounted.



Mounting on a modular support can be carried out using a Cat. No. 0 802 99 adapter (2 modules).

Mechanisms are mounted on thin walls with the following adaptors: Cat. No. 0 802 90 (1 module), Cat. No. 0 802 91 (2 modules), Cat. No. 0 802 92 (vertical 2 x 1 module).

Cat. No. 0 765 97/98
Unlocking



4. TECHNICAL FEATURES

■ 4.1 Characteristics of the materials

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

■ 4.2 Electrical characteristics

Breakdown voltage ≥ 1000 V
 Contact resistance ≤ 20 m Ω
 Insulation resistance ≥ 500 M Ω under 100 V DC
 Tested and independently certified to comply with IEC 60512-99-001
 and IEC 60512-99-002 for PoE support up to 90w (Type 4).

■ 4.3 Mechanical characteristics

- Axial retention of the connector in the adapter: minimum 70N
- Transverse retention of the connector in the adapter (4 directions): minimum 50N
- Shock resistance of the connector in the adapter: IK03 or IK04(1) according to IEC 62262
- Retention of the adapter in the 45x45 Legrand support frame: minimum 100N
- Retention of the adapter in the 45mm Legrand trunking: minimum 50N

(1) IK03 for the 2-module, IK04 for the 1-module. Impact applied on the adapter.

Maximum 20 cable re-termination according to following options:

Test Method	Cable AWG
IEC 60352-3	22 to 24 ⁽¹⁾
IEC 60352-3	24 to 26 ⁽¹⁾
Single AWG	22 or 23 or 24 or 25 or 26 ⁽²⁾

(1) Re-termination of any mix of conductor sizes within that range.

(2) Re-termination on only 1 conductor size. No mix allowed.

Endurance: 2500 movements (plug insertion/withdrawal) according to ISO/IEC 11801-1 PL2.

■ 4.4 Climatic characteristics

Storage temperature: -40°C to +70°C
 Operating temperature: -10°C to +60°C

5. STANDARD RJ 45 CONNECTION

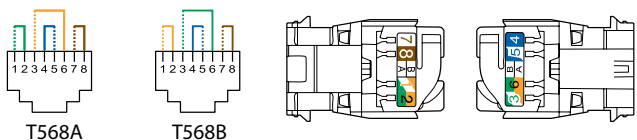
Connectors accept the following plug types:
 RJ11 (4 contacts), RJ12 (6 contacts), RJ45 (9 contacts).

Connectors accept the following cable types:

Connector type	Cable type
UTP	UTP, U/UTP
FTP	FTP, STP, F/UTP, U/FTP, F/FTP, S/FTP, SF/UTP, SF/FTP
STP	

T568A and T568B dual colour code on terminals:

- UTP 8 contacts
- FTP 9 contacts



5. STANDARD RJ 45 CONNECTION (continued)

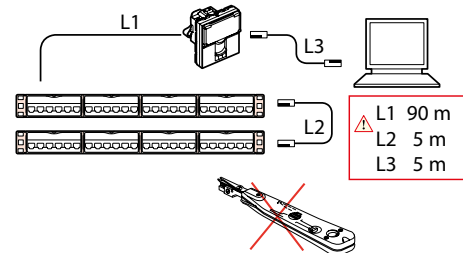
Permitted conductors:

- Solid/stranded: 0.4 to 0.65 mm, AWG 26 to 22
- Polyethylene conductor insulation: $\varnothing$ 0.85 to 1.7 mm on insulation

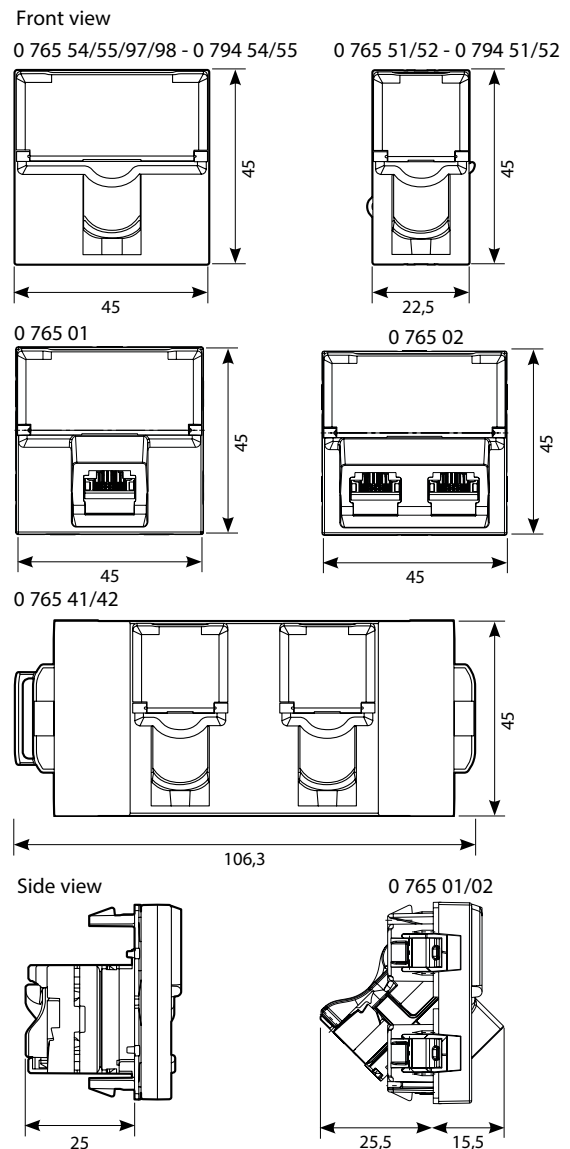
Number of wires to be connected per connection: 1

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.

6. INSTALLATION



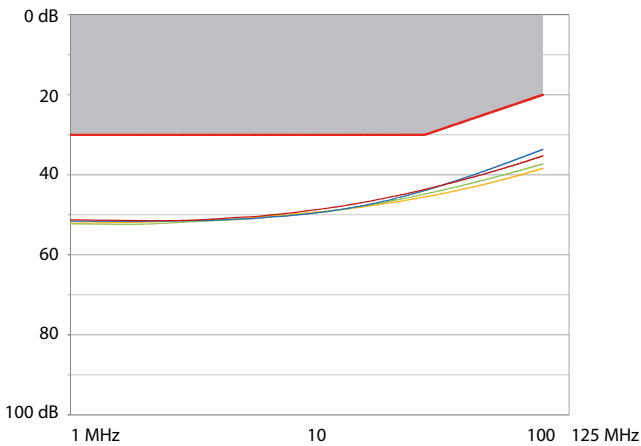
7. OVERALL DIMENSIONS (mm)



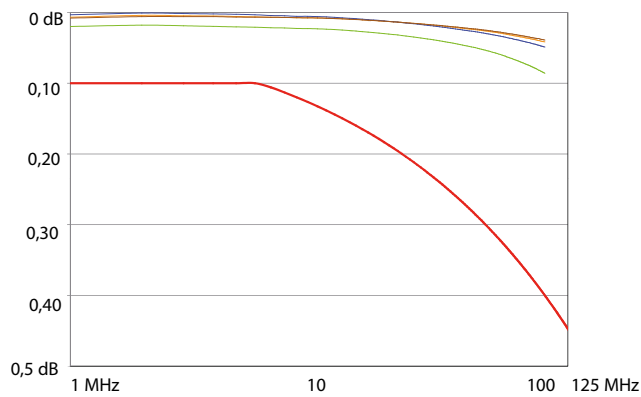
8. PERFORMANCE AT 20°C

■ 8.1 Performance of components (RJ 45 connectors)

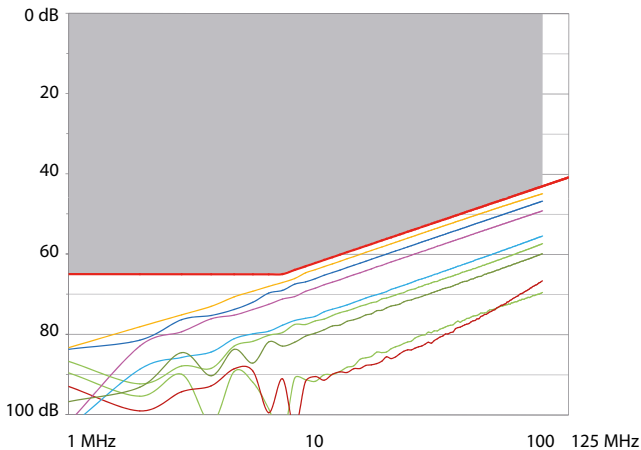
Return loss



Attenuation



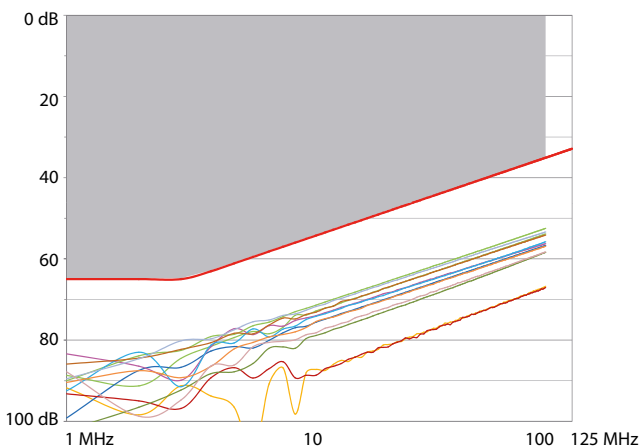
NEXT (Near end Crosstalk Attenuation)



8. PERFORMANCE AT 20°C (continued)

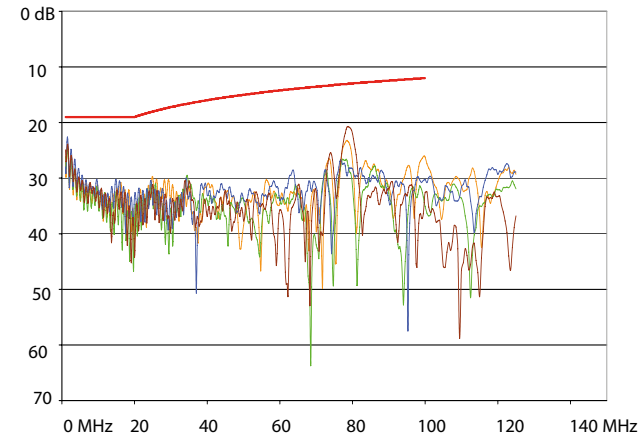
■ 8.1 Performance of components (RJ 45 connectors) (cont.)

FEXT (Far end Crosstalk Attenuation)

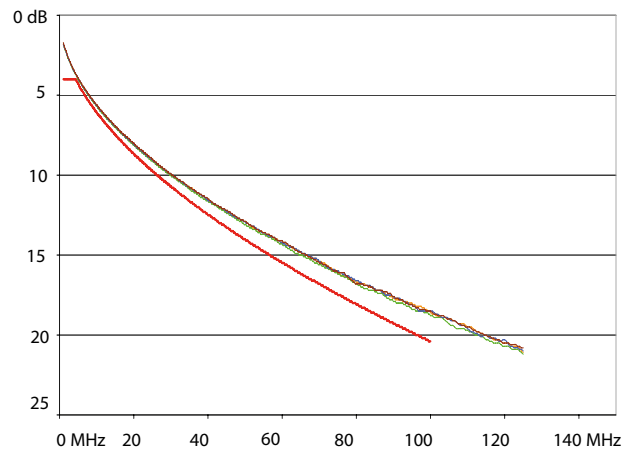


■ 8.2 Performance of permanent link with F/UTP cable

Return loss



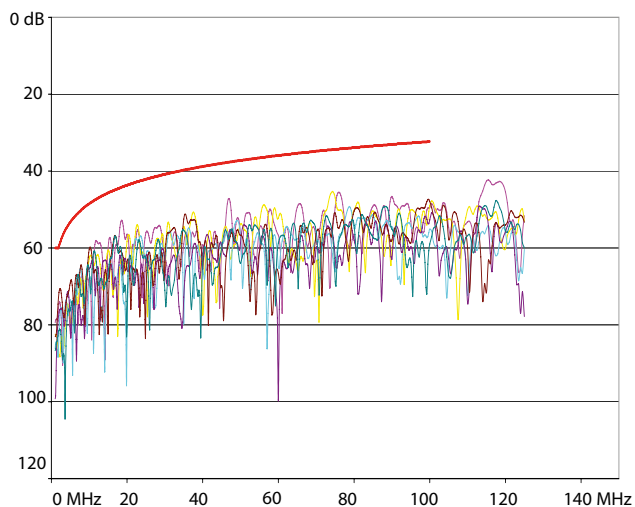
Attenuation



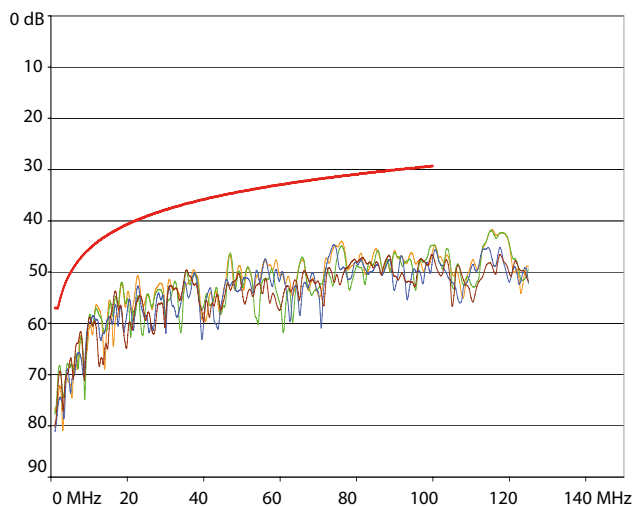
8. PERFORMANCE AT 20°C (continued)

■ 8.2 Performance of permanent link with F/UTP cable (cont.)

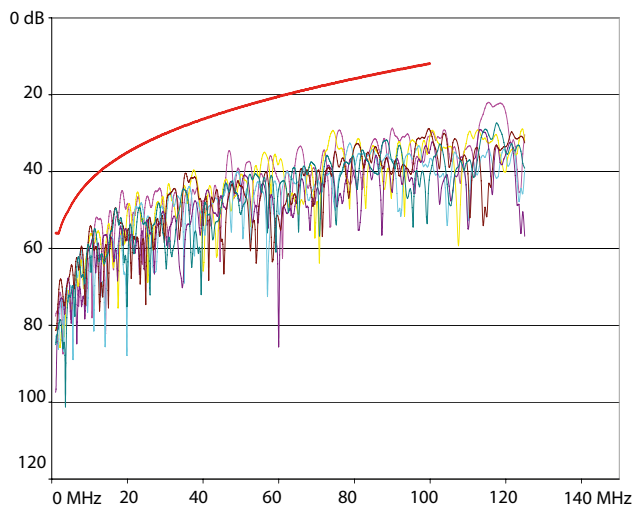
NEXT (Near end Crosstalk Attenuation)



PS NEXT (Power Sum NEXT)



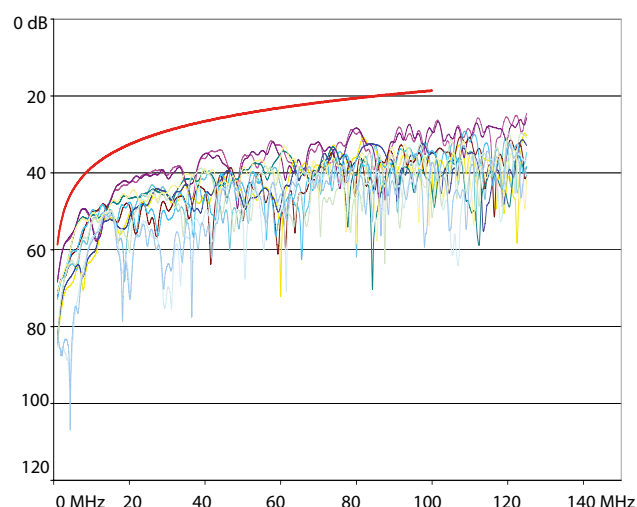
ACR (Attenuation to Crosstalk Ratio)



8. PERFORMANCE AT 20°C (continued)

■ 8.2 Performance of permanent link with F/UTP cable (cont.)

ELFEXT (Equal Level End Crosstalk Attenuation)



9. STANDARDS AND APPROVALS

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.

The connectors are compliant NF C90 483.