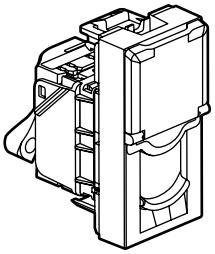
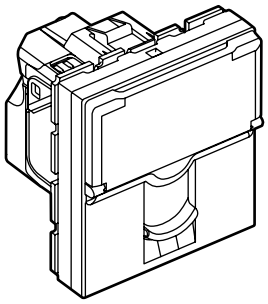
128, av. du Maréchal-de-Lattre-de-Tassigny - 87045 LIMOGES Cedex
Tel.: 33(0)5 55 06 87 87 - Fax: 33(0)5 55 06 88 88
www.legrand.com

Mosaic™
LCS3 + Cat. 6A UTP RJ 45 socket

Cat. No(s): 0 765 09/11/26/27/71/74/90
0 791 72L/74L - 0 794 71/74



0 765 71



0 765 74

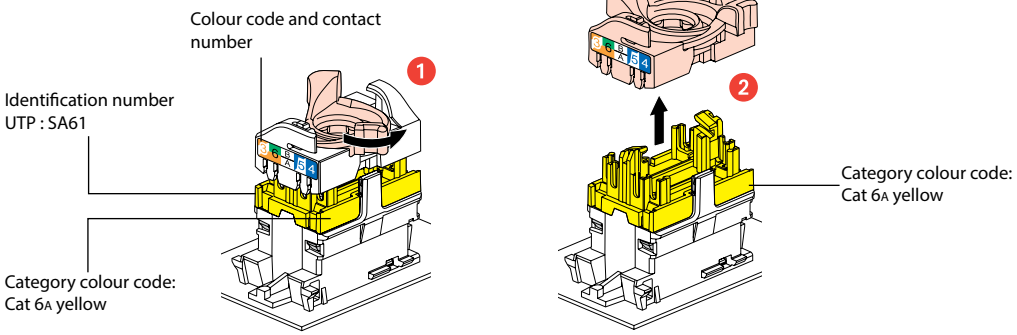
1. USE

Cat. 6A RJ 45 terminal socket for high speed connection to a network.
Enables data transmission at 10 Gbit/s.
Socket is used with U/UTP cables.
The mechanism can be flush-mounted or surface-mounted in 40 mm depth box min.
To be equipped with frame and plates. Fixing with clips.
The connectors are compliant to all performance, mechanical, climatic and electromagnetic requirements of the ISO/IEC 11801-1.

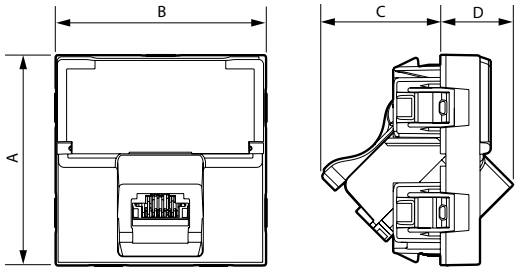
2. RANGE

Description	White	Aluminium	Matt Black
Cat. 6A UTP RJ 45 - Metal shielding - 1 module	0 765 71	0 794 71	0 791 72L
Cat. 6A UTP RJ 45 - Metal shielding - 1 module - with green shutter	0 765 26	-	-
Cat. 6A UTP RJ 45 - Metal shielding - 1 module - with orange shutter	0 765 27	-	-
Cat. 6A UTP RJ 45 - Metal shielding - 2 modules	0 765 74	0 794 74	0 791 74L
Cat. 6A UTP RJ 45 - Metal shielding - with controlied access - 2 modules Supplied with 2 keys for 5 sockets - with red shutter	0 765 90	-	-
Cat. 6A UTP RJ 45 - Metal shielding - 45° socket - 2 modules	0 765 09	-	-
Cat. 6A UTP RJ 45 - Metal shielding - 90° socket - 2 modules	0 765 11	-	-

Presentation



3. DIMENSIONS (mm)



References	A	B	C	D
0 765 26/27/71 - 0 794 71 0 791 72L/74L	45	22.5	25	11
0 765 11/74 - 0 794 74	45	45	25	11
0 765 09	45	45	25.5	15.5
0 765 90	45	45	25	10

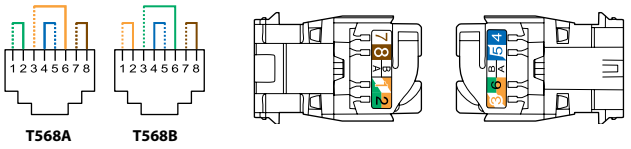
4. CONNECTION

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	

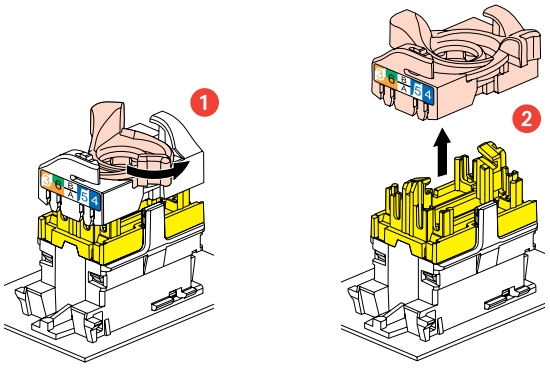
Double colour code T568A and T568B on terminals:
STP 9 contacts 360° screen



Conductors supported:

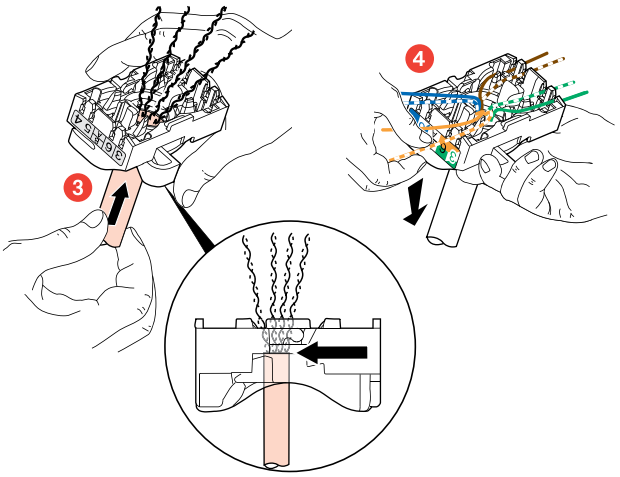
- Solid/Stranded : 0.4 to 0.65 mm, AWG 26 to 22
- Polyethylene conductor insulation: Ø 0.85 to 1.7 mm on insulation

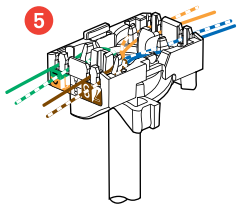
RJ 45 connectors are equipped with a locking nut that does not require the use of a specific tool and which enables re-cabling in the event of error.



4. CONNECTION *(continued)*

This system allows the wire pairs to be spread easily before mounting them on the connector.

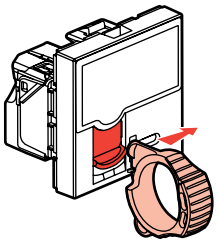




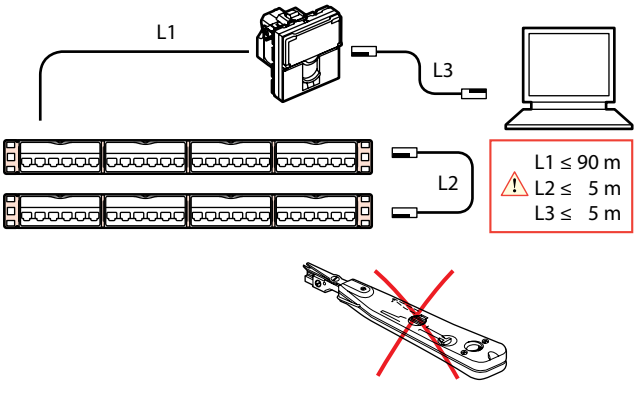
Spreading cables ensures that each pair is separated by the specified 13 mm.
Spreading pairs by 90° in relation to the cable ensures optimum performance.

5. OPERATION

0 765 90 unlocking



Installation



6. TECHNICAL CHARACTERISTICS

■ 6.1 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.
Penetration against solid bodies and liquids: IP 20

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.

■ 6.2 Material characteristics

Contacts: Gold/nickel, minimum thickness of gold > 0.8 µm
Metal parts: Bronze, nickel, platinum, gold
For STP products the body and the spreader are made of metal alloy with a copper-nickel coating.

Base: PC

Cover plate: PC
Halogen-free
UV-resistant

Self-extinguishing:
850°C/30 s for insulating components holding live parts in place
650°C/30 s for other insulating components

■ 6.3 Electrical 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 90 W (Type 4).

■ 6.4 Climate characteristics

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

7. CLEANING

Clean the surface with a cloth.
Do not use acetone, tar-removing cleaning agents or trichloroethylene.

■ 7.1 Resistance to cleaning products

Hexane (NF C 61-314), methylated spirit, soapy water, diluted ammonia, bleach diluted to 10%, window-cleaning products, pre-impregnated wipes.

■ 7.2 Resistance to hospital grade cleaning products

Anios, Surfanios, Bactilysine, diluted hydrogen peroxide (35%).

Caution: Always test before using other special cleaning products.

8. 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

Connectors are compliant to requirements for the following remote powering applications:

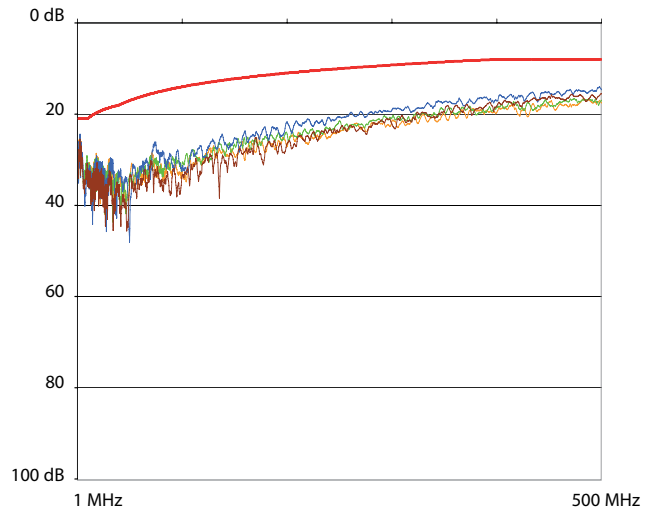
IEEE 802.3af , IEEE 802.3at , IEEE 802.3bt : "Power over Ethernet", Types 1 to 4, up to 90 W.

The connectors are compliant NF C90 483.

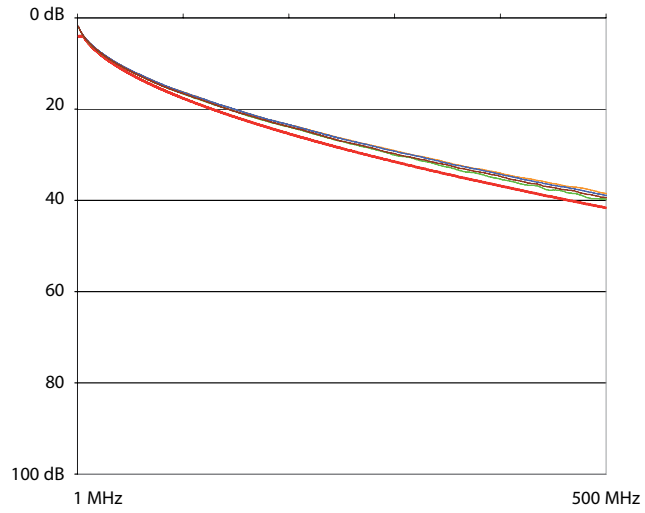
9. PERFORMANCE AT 20°C

■ 9.1 Performance of permanent link with cat. 6A U/UTP cable

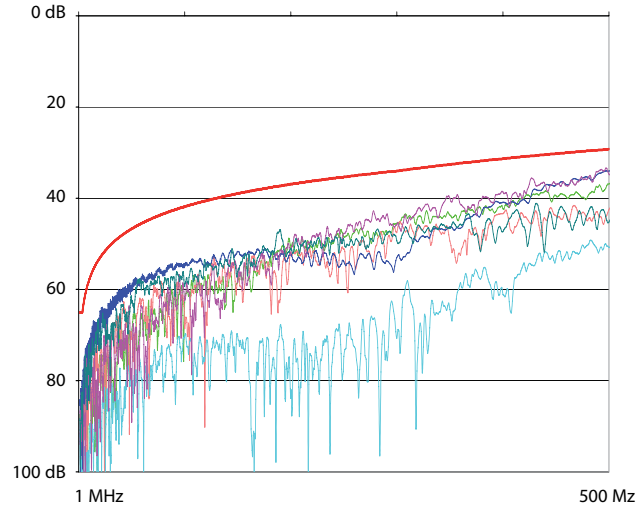
Return loss



Attenuation



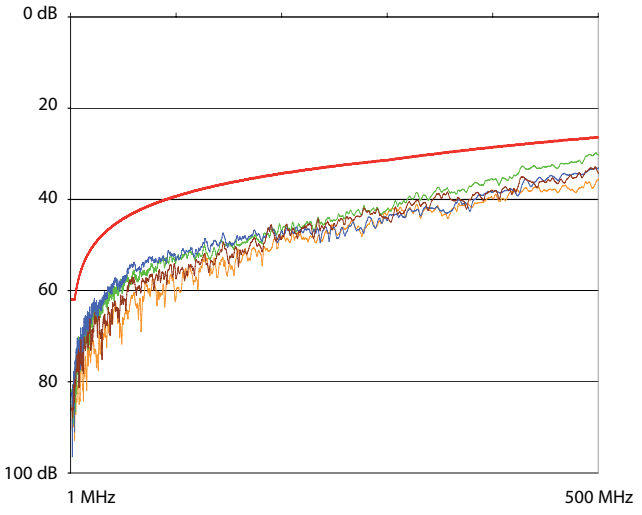
NEXT (Near end Crosstalk Attenuation)



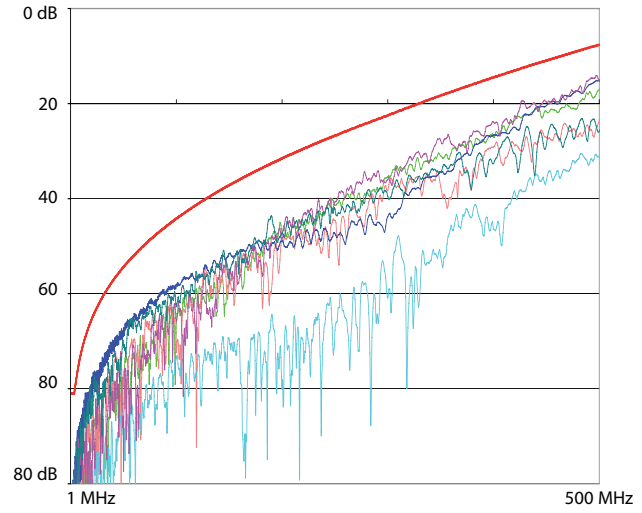
9. PERFORMANCE AT 20°C *(cont.)*

■ 9.1 Performance of permanent link with cat. 6A U/UTP cable *(cont.)*

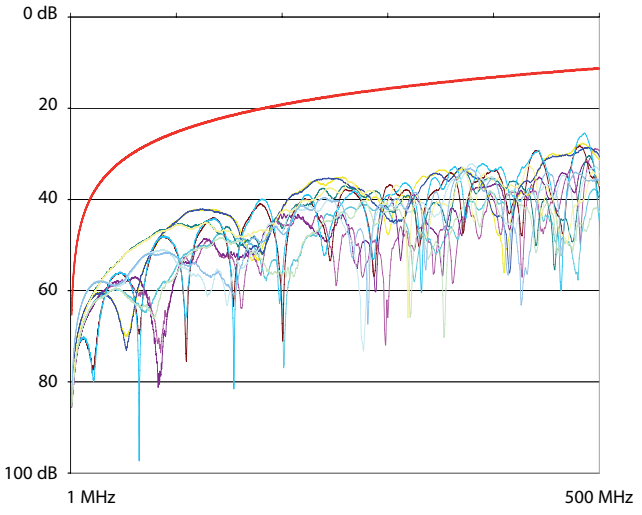
PS NEXT (Power Sum NEXT)



ACR-N (Attenuation to Crosstalk Ratio Near End)



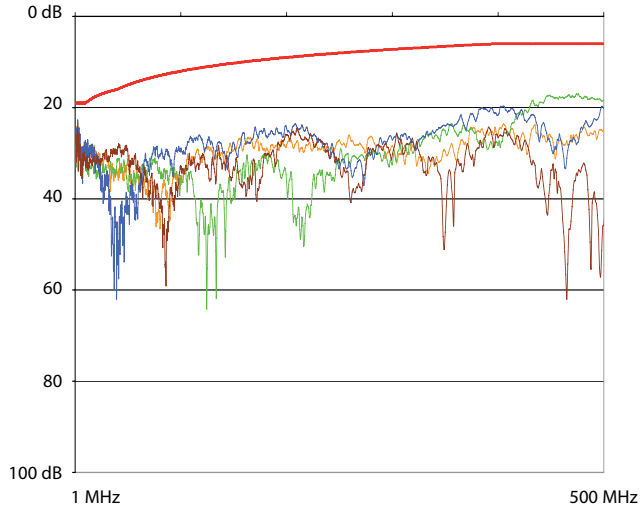
ACR-F (Equal Level End Crosstalk Attenuation Far End) - (ELFEXT)



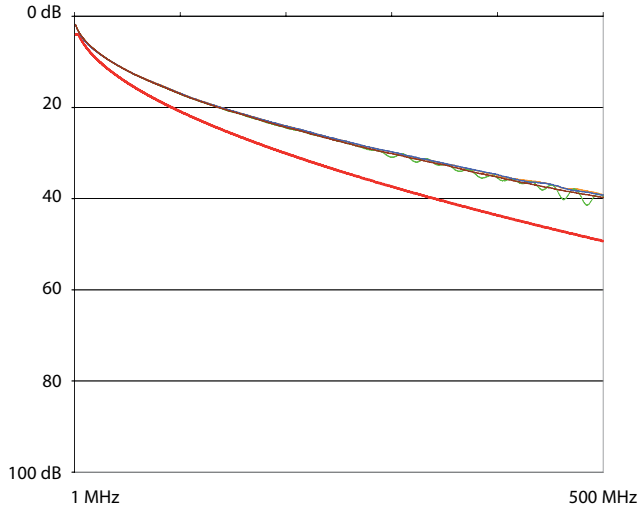
9. PERFORMANCE AT 20°C *(cont.)*

■ 9.2 Performance channel

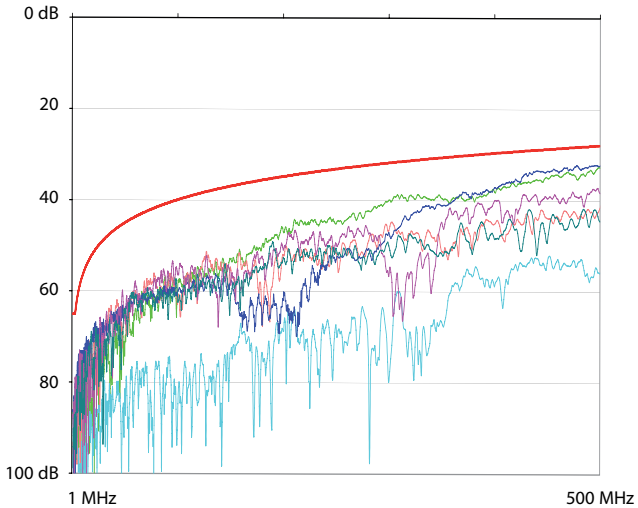
Return loss



Attenuation



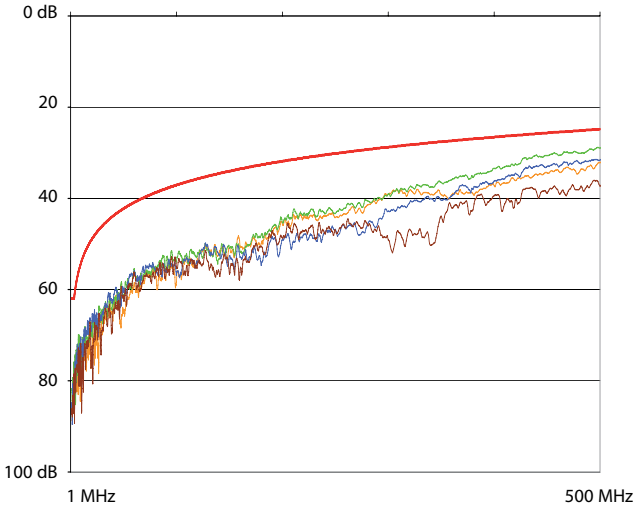
NEXT (Near and Crosstalk Attenuation)



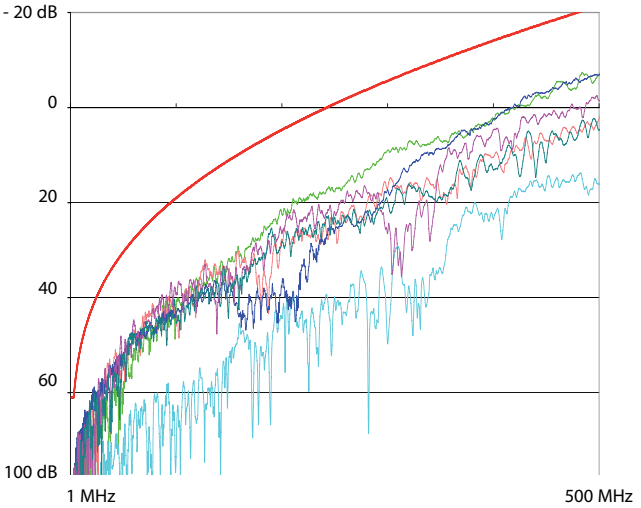
9. PERFORMANCE AT 20°C *(cont.)*

■ 9.2 Performance channel *(cont.)*

PS NEXT (Power Sum Next))



ACR-N (Attenuation to Crosstalk Ratio)



ACR-F (Equal Level End Crosstalk Attenuation)