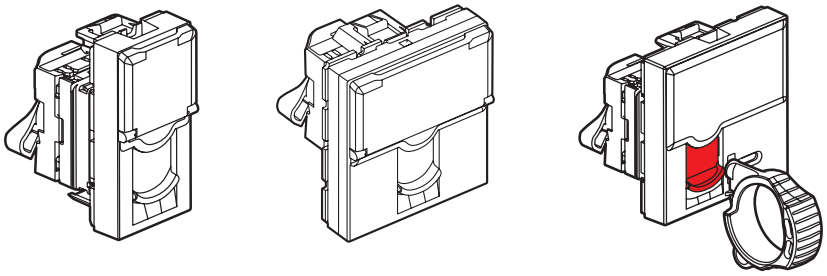
128, av. du Maréchal-de-Lattre-de-Tassigny - 87045 LIMOGES Cedex
Tél. : 0 (+33) 5 55 06 87 87 - Fax : 0 (+33) 5 55 06 88 88
www.legrand.com

Arteor™ Advance
LCS² Cat. 6 RJ45 socket

Cat. no(s) : AC4302MB/MT/MW - AC4303CH/DB/MB/MT/MW/RS AC4304CH/DB/MB/MT/MW/RS- AC4308MB/MT/MW/RS AC4309MB/MT/MW/RS -AC4310CH/DB/MB/MT/MW/RS



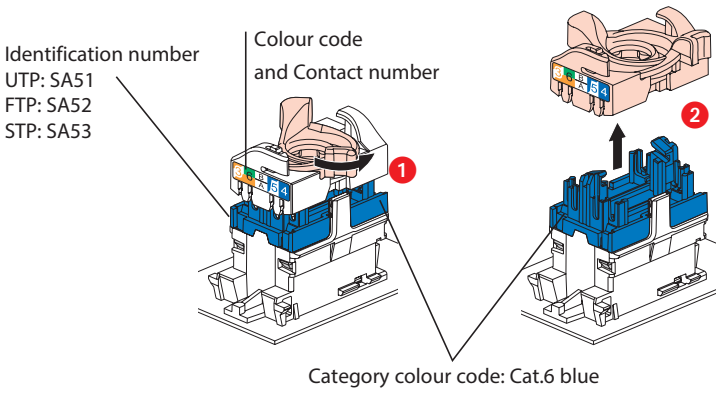
1. USE

Category 6 RJ45 socket for high speed transmission (Gigabit Ethernet).

2. RANGE

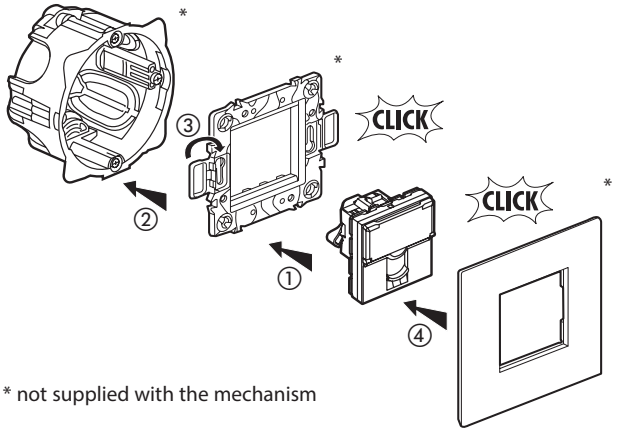
Désignation	Number of modules	Matt Black	Matt Titanium	Matt White	Champagne	Rose	Dark Bronze
RJ45 socket Cat. 6 UTP	1	AC4304MB	AC4304MT	AC4304MW	AC4304CH	AC4304RS	AC4304DB
RJ45 socket Cat. 6 FTP	1	AC4302MB	AC4302MT	AC4302MW			
Prise RJ45 Cat. 6 STP	1	AC4303MB	AC4303MT	AC4303MW	AC4303CH	AC4303RS	AC4303DB
RJ45 socket Cat. 6 UTP	2	AC4310MB	AC4310MT	AC4310MW	AC4310CH	AC4310RS	AC4310DB
RJ45 socket Cat. 6 STP	2	AC4308MB	AC4308MT	AC4308MW			
RJ45 security socket Cat. 6 UTP	2	AC4309MB	AC4309MT	AC4309MW			

3. PRESENTATION



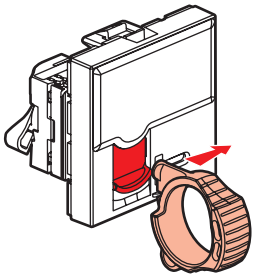
4. PREPARATION

Mechanisms can be flush-mounted or surface-mounted.



* not supplied with the mechanism

Unlocking



0 334 80

5. TECHNICAL CHARACTERISTICS

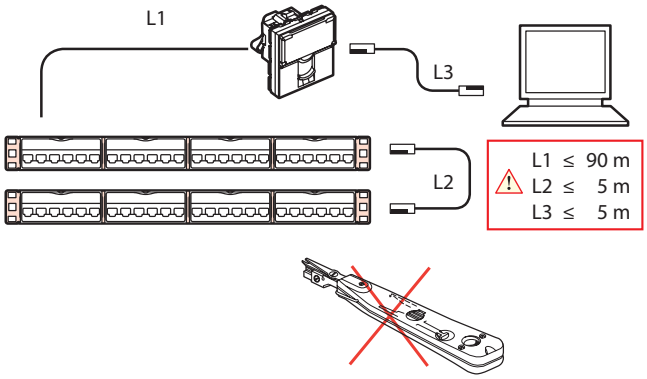
■ 5.1 Material characteristics
Contacts: gold/nickel, minimum thickness of gold > 0.8 µm
Metal parts: bronze, nickel, platinum, gold
PBT polycarbonate
For STP products the body and the spreader are made of metal alloy with a copper-nickel coating.

■ 5.2 Electrical characteristics
Breakdown voltage ≥ 1000 V
Contact resistance ≤ 20 mΩ
Insulation resistance ≥ 500 MΩ at 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).

■ 5.3 Mechanical characteristics
Max. number of connections and disconnections: 5 without refreshing the wiring.
Endurance: 2500 movements (plug insertion/withdrawal).
IK03

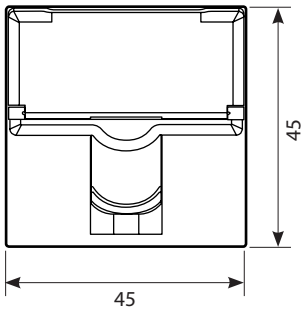
■ 5.4 Climatic characteristics
Températures d'utilisation : - 10° C to + 60° C
Humid heat cycle 21 days

6. CONNECTION

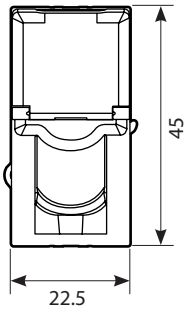


7. OVERALL DIMENSIONS

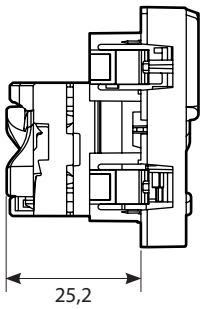
AC4308MB/MT/MW
AC4309MB/MT/MW
AC4310CH/DB/MB/MT/MW/RS

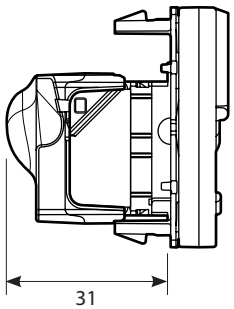


AC4302MB/MT/MW
AC4303CH/DB/MB/MT/MW/RS
AC4304CH/DB/MB/MT/MW/RS-



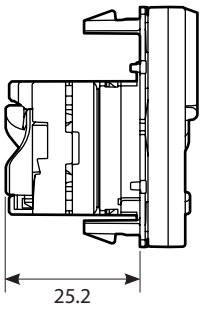
AC4303CH/DB/MB/MT/MW/RS
AC4308MB/MMT/MW/RS-



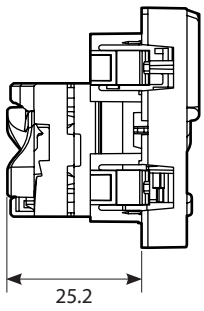


7. OVERALL DIMENSIONS *(continued)*

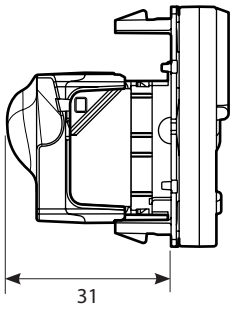
5 723 22/23
5 728 22/23/90/91/94/95
5 734 34
5 736 34



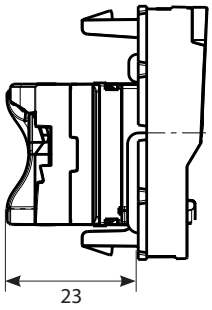
5 700 57/59 - 5 710 57/59
5 723 02/14/16/53/54/55
5 728 02/14/16/53/54/55
5 728 73/74/79/80/86/87/92/93
5 734 28/74/76
5 736 28/74/76



5 723 17
5 728 17/96/97
5 734 77 - 5 736 77



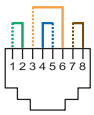
5 723 24 - 5 728 24
5 728 81



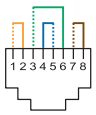
8. USUAL CONNECTION OF RJ45

Accepts the following cable connectors:
RJ11 (4 contacts), RJ12 (6 contacts), RJ45 (9 contacts).

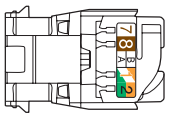
Double colour code T568A and T568B on terminals:
- UTP 8 contacts
- FTP 9 contacts
- STP 9 contacts 360° screen

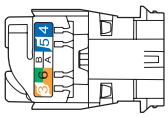


T568A



T568B

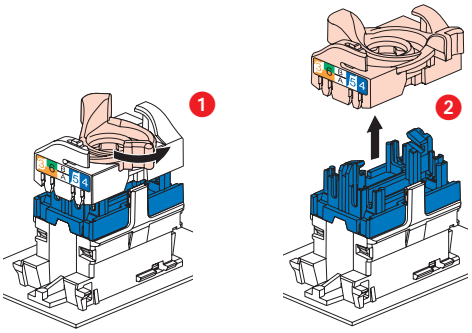




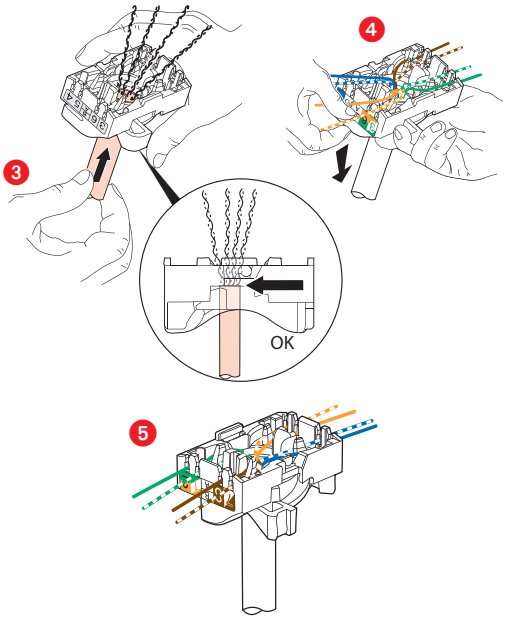
Conductors supported:
- Solid/stranded: 0.4 to 0.65 mm, AWG 26 to 22
- Polyethylene conductor insulation: Ø 0.85 to 1.7 mm on insulation

8. USUAL CONNECTION OF RJ45 *(continued)*

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.



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.

9. CLEANINIG

Surface cleaning with a cloth
Do not use : acetone, tar remover, trichlorethylene.
Resistance to the following cleaning agents: Hexane (EN-60669-1), Methylated spirits, Soapy water, diluted ammonia, diluted pure bleach 10%, Glass cleaning substance, Pre-impregnated wipes.

Caution: Always test before using other special cleaning products.

10. STANDARDS AND APPROVALS

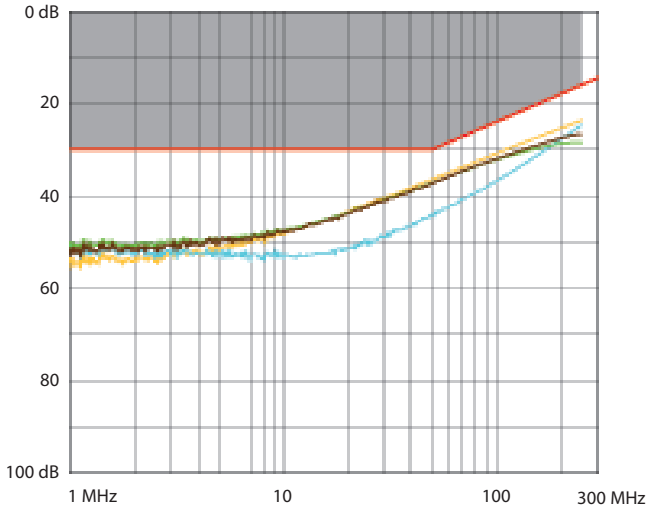
ISO/IEC 11801 series : International standard for generic cabling for customer premises
ANSI/TIA 568 series : North American standard for generic cabling for customer premises
EN 50173 series : European standard for generic cabling for customer premises
IEC 60603-7 series : International standard for 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.

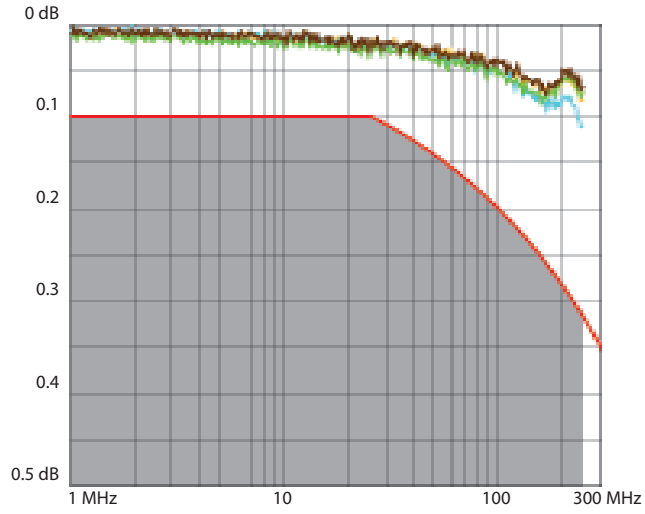
11. PERFORMANCE

■ 11.1 Component performance (RJ 45 connectors)

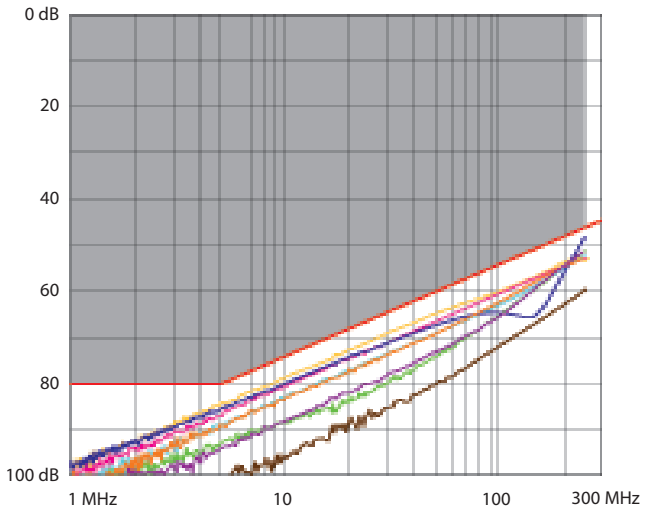
Return loss



Attenuation



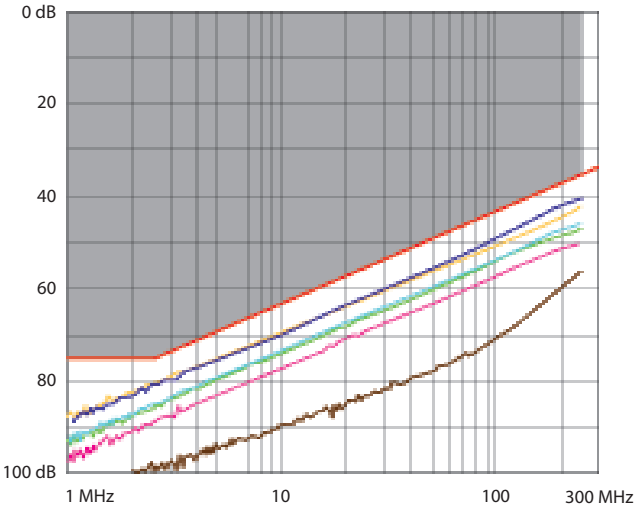
NEXT (Near end Crosstalk Attenuation)



11. PERFORMANCE *(continued)*

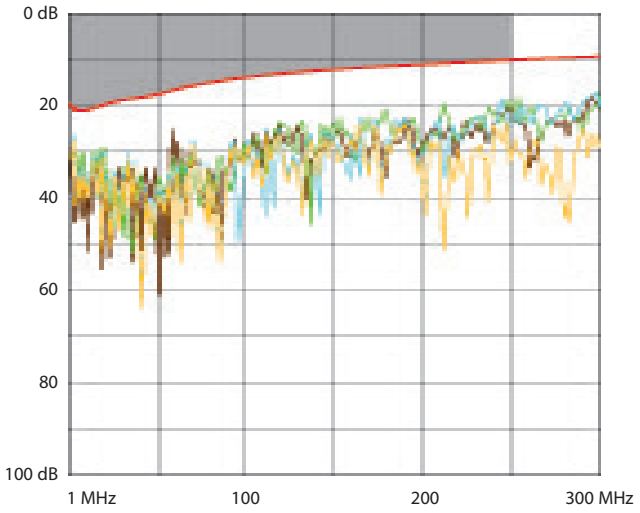
■ 11.1 Component performance (RJ 45 connectors) *(cont.)*

FEXT (Far end Crosstalk Attenuation)

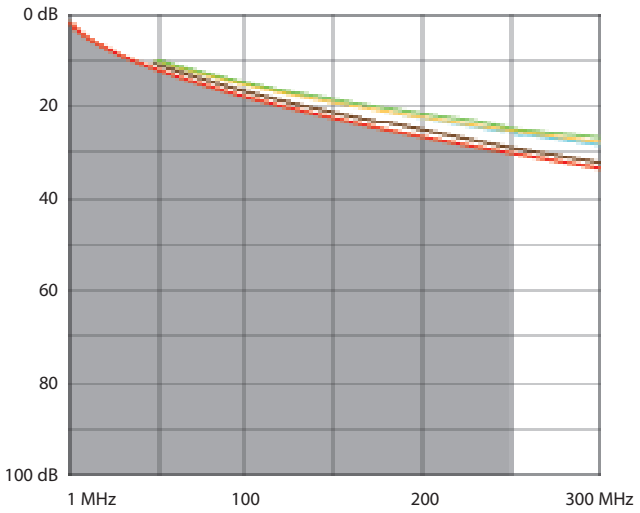


■ 11.2 Performance of permanelink with F/UTP cable

Return loss



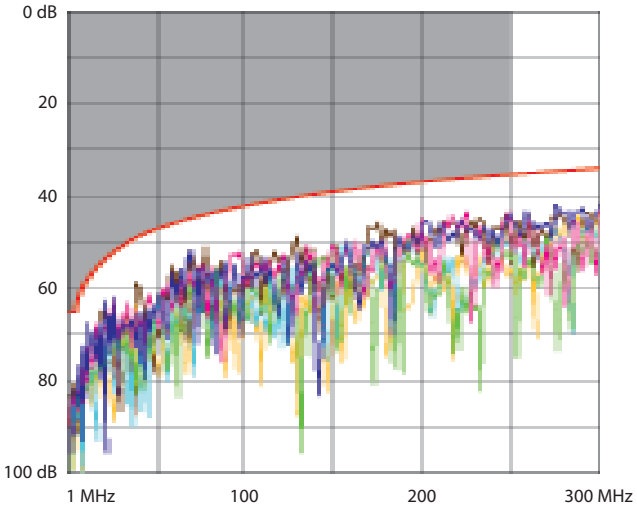
Attenuation



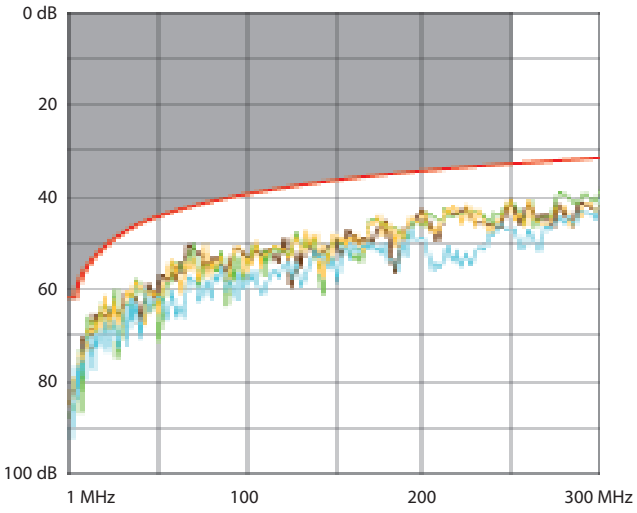
11. PERFORMANCE *(continued)*

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

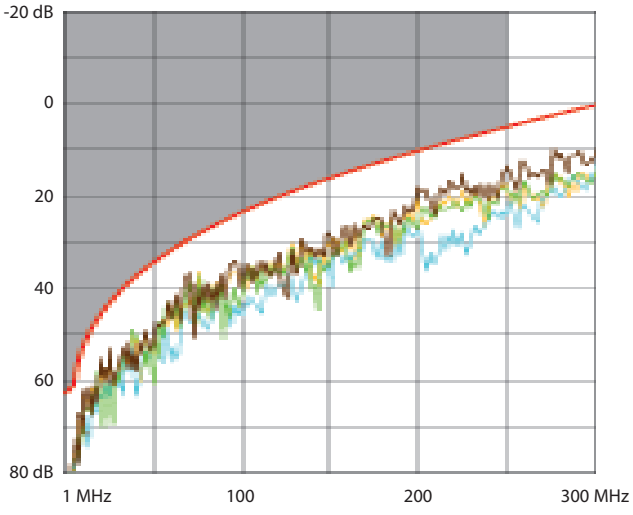
NEXT (Near end Crosstalk Attenuation)



PS NEXT (Power Sum NEXT)



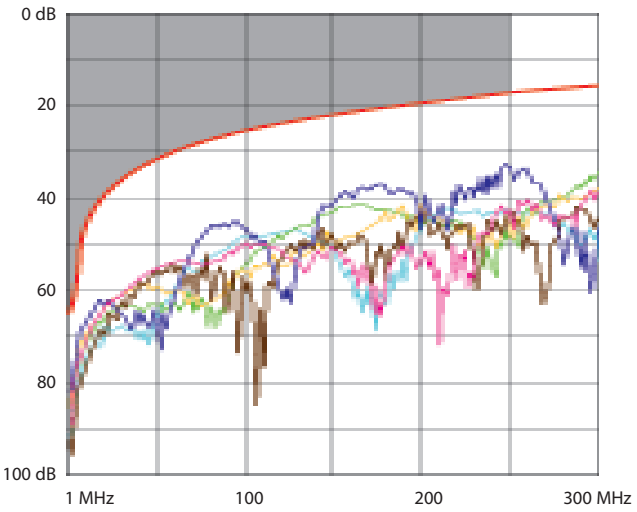
ACR-N (Attenuation to Crosstalk Ratio)



11. PERFORMANCE *(continued)*

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

ACR-F (Equal Level End Crosstalk Attenuation)



Delay skew