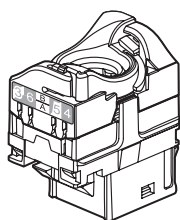


Keystone RJ45 socket cat.5e

Cat. no(s): 0 331 80



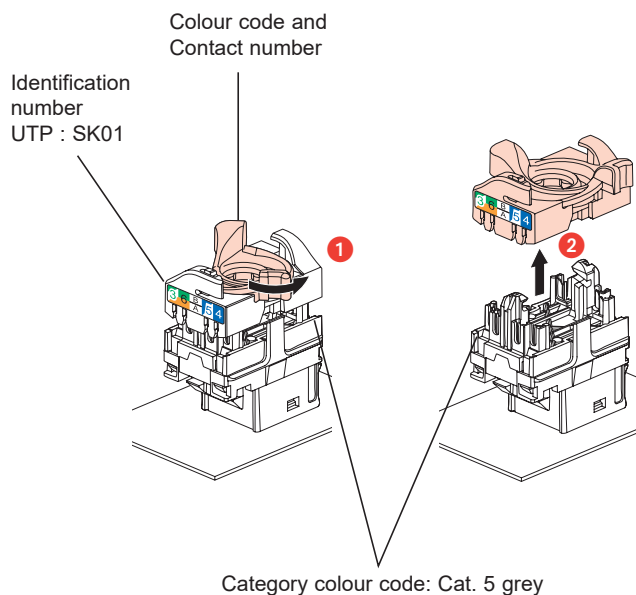
UTP

CONTENTS	Page
1. General characteristics	1
2. Presentation	1
3. Technical characteristics	1
4. Overall dimensions	1
5. Usual connection of RJ45 sockets	2
6. Standards and approvals	2
7. Performance	3-4

1. GENERAL CHARACTERISTICS

Category 5 RJ45 socket.
Enables high speed data transmission (Gigabit Ethernet).

2. PRESENTATION



3. TECHNICAL CHARACTERISTICS

3.1 Material characteristics

Contacts: gold/nickel, thickness of gold > 0.8 µm min.
Metal parts: bronze, nickel, platinum, gold
PBT polycarbonate

3.2 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).

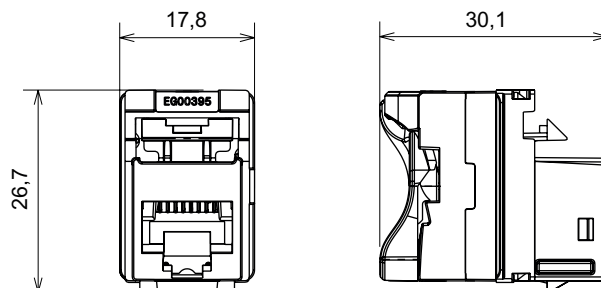
3.3 Mechanical characteristics

Max. number of connections and disconnections: 5 without refreshing the cable
Endurance: 2500 movements (plug insertion/withdrawal)
IK03

3.4 Climatic characteristics

Operating temperature: - 10°C to + 60°C
Humid heat cycle 21 days

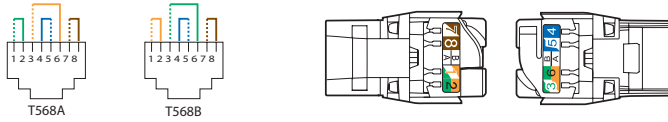
4. OVERALL DIMENSIONS



5. USUAL CONNECTION OF RJ45 SOCKETS

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

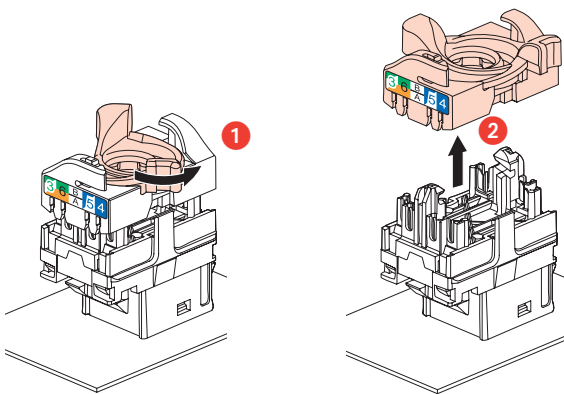
Double colour code T568A and T568B on terminals:
- UTP 8 contacts



Conductors supported:

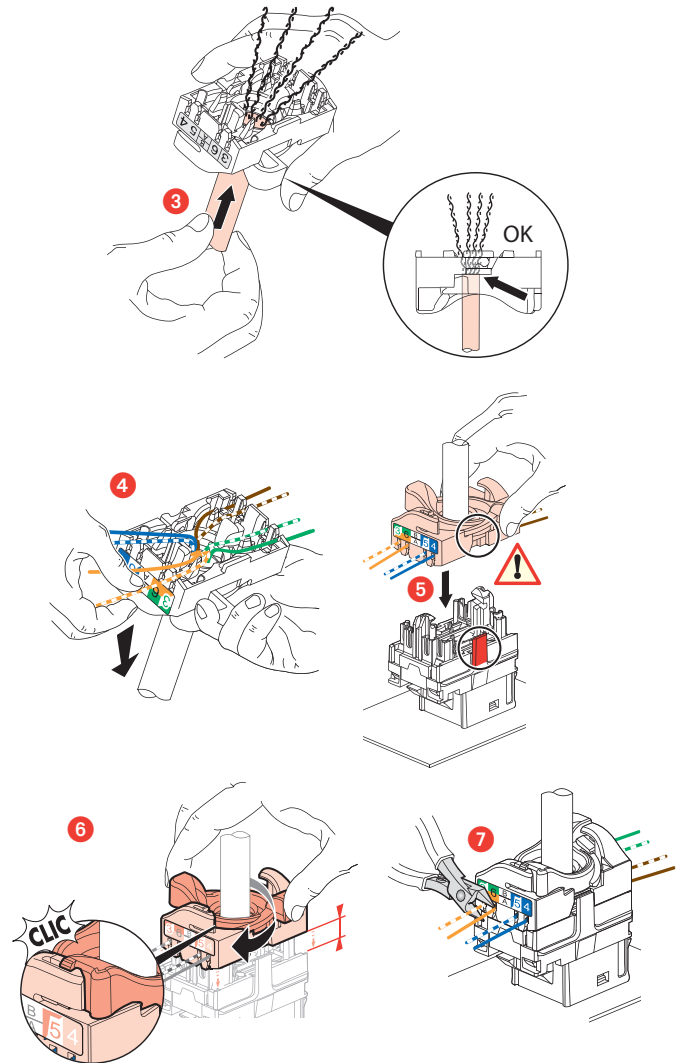
- Solid/stranded: 0.4 to 0.65 mm, AWG 26 to 22
- Polyethylene conductor insulation: Ø 0.85 to 1.7 mm on insulation

The RJ45 connectors are equipped with a rotating locking system that does not require special tools and enables rewiring in the event of error.



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

Spreading the wires ensures that pairs are separated by the required 13 mm.
Spreading the pairs at 90° in relation to the cable ensures the best performance levels.



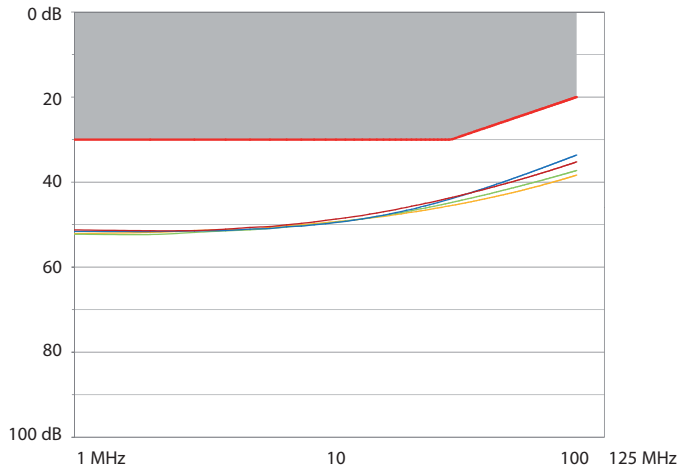
6. STANDARDS AND APPROVALS

- 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

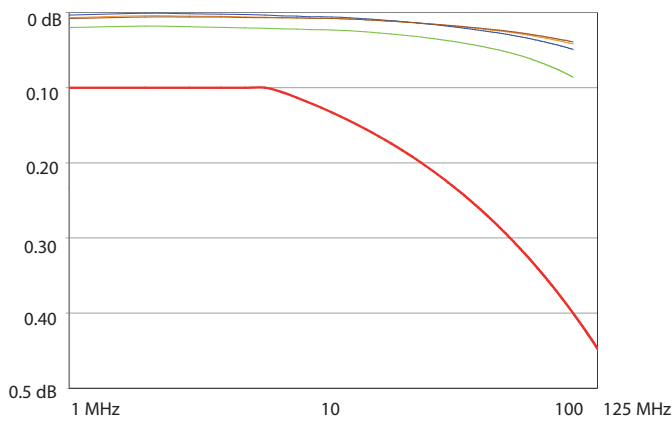
Connectors are compliant to requirements for the following remote powering applications
IEEE 802.3af , IEEE 802.3at , IEEE 802.3bt : "Power over Ethernet", Types 1 to 4, up to 90W.

7. PERFORMANCE

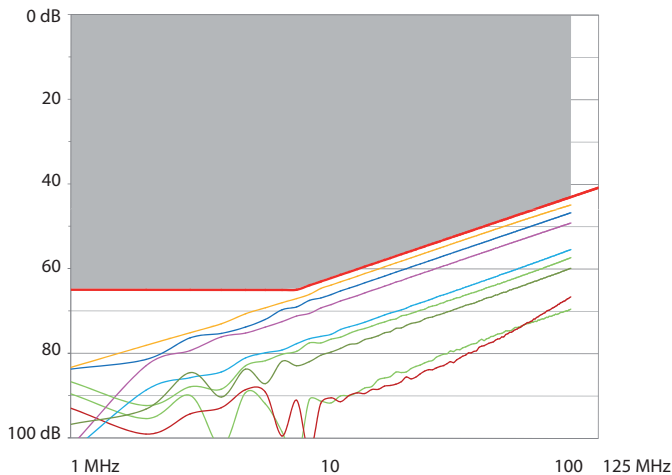
7.1 Performance of components (RJ 45 connectors)
Return loss



Attenuation

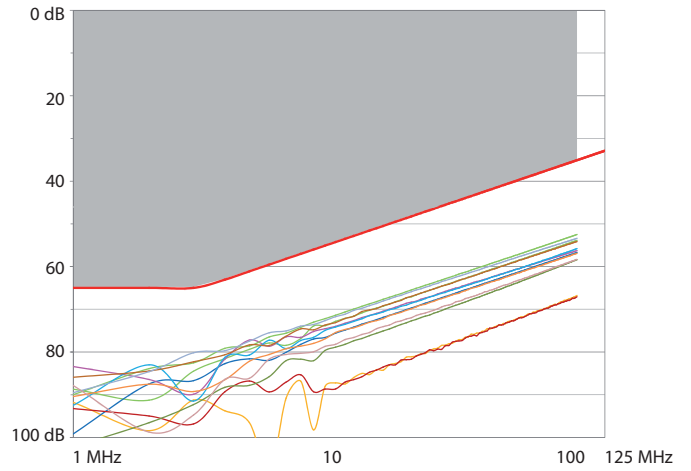


NEXT (Near end Crosstalk Attenuation)

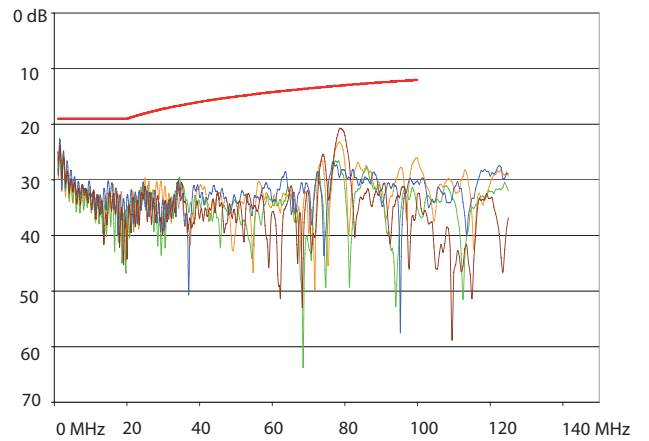


7. PERFORMANCE (continued)

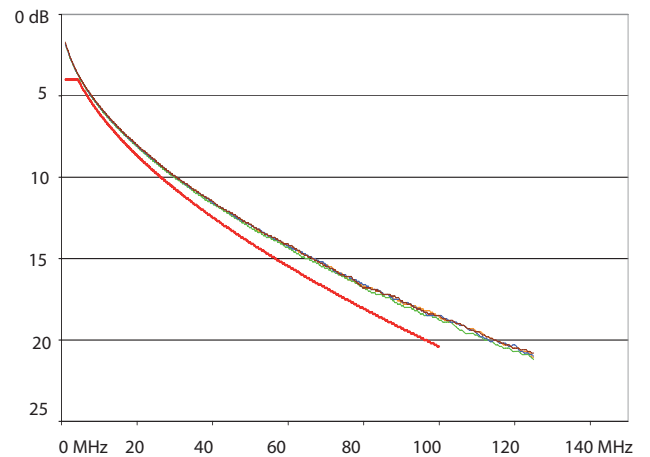
7.1 Performance of components (RJ 45 connectors) (continued)
FEXT (Far end Crosstalk Attenuation)



7.2 Performance of permanent link with F/UTP cable
Return loss

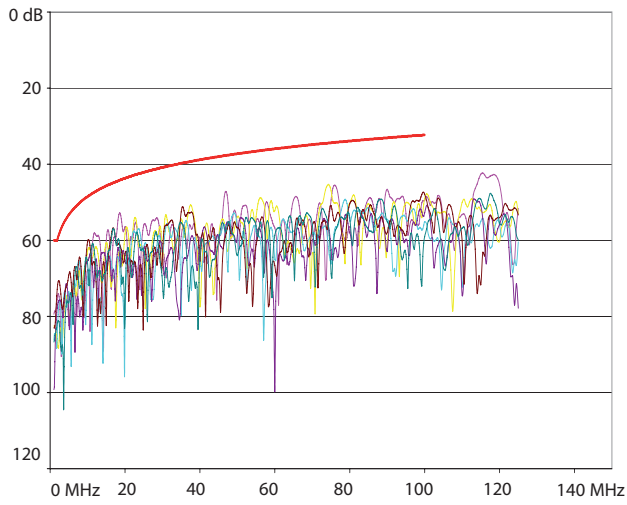


Attenuation



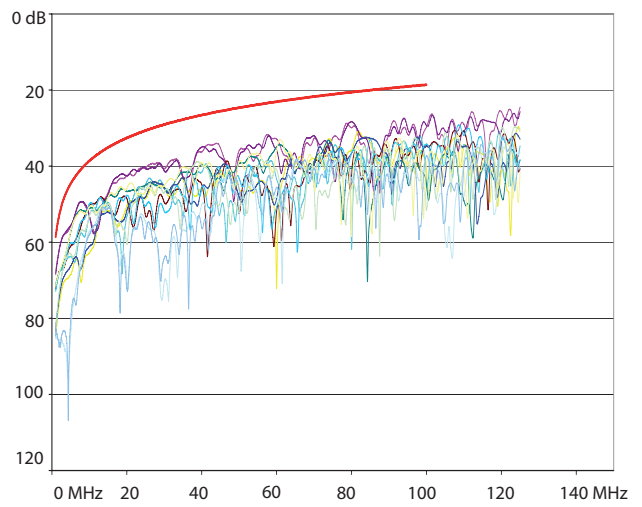
7. PERFORMANCE (continued)

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

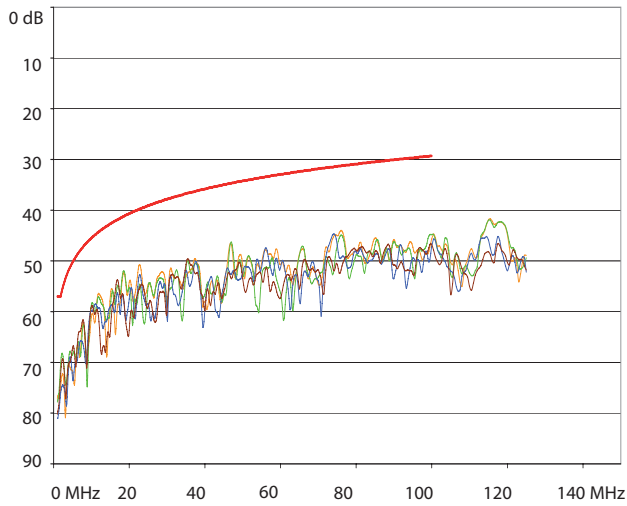


7. PERFORMANCE (continued)

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



PS NEXT (Power Sum NEXT)



ACR (Attenuation to Crosstalk Ratio)

