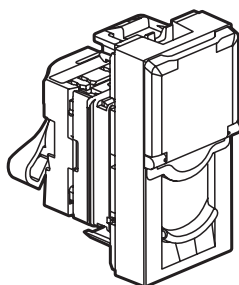


**Myrius**  
**Cat. 6 UTP RJ 45 socket**

Cat. no(s): 6 730 55

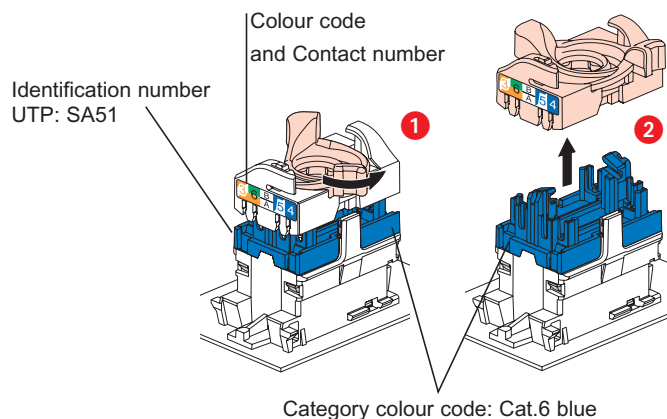


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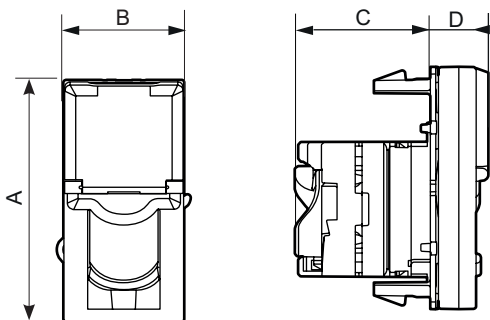
**1. USE**

RJ 45 socket Cat 6 UTP white - 1 module. Allows high-speed transmissions (Gigabit Ethernet) : telephone, data, television, shaver sockets and cable outlets.

**2. PRESENTATION**



**3. OVERALL DIMENSIONS**



Cat. No.	A	B	C	D
6 730 55	45	22,5	25,2	10,9

**4. MOUNTING**

Mechanisms can be flush-mounted or surface-mounted.

**5. TECHNICAL FEATURES**

**5.1 Characteristics of the materials**

Contacts : gold/nickel, minimum thickness of gold >0.8  $\mu$ m  
Metal parts: bronze, nickel, platinum, gold  
PBT Polycarbonate

**5.2 Electrical characteristics**

Breakdown voltage  $\geq$  1000 V  
Contact resistance  $\leq$  20 m $\Omega$   
Insulation resistance  $\geq$  500 M $\Omega$  under 100 V DC  
Connector tested and guaranteed under PoE restrictions, IEEE 802.3af standard and PoE+, draft standard 802.3at, up to 2500 on-load connections/disconnections.  
Tests are carried out with 2 simultaneous POE + circuits for a minimum total power of 50W

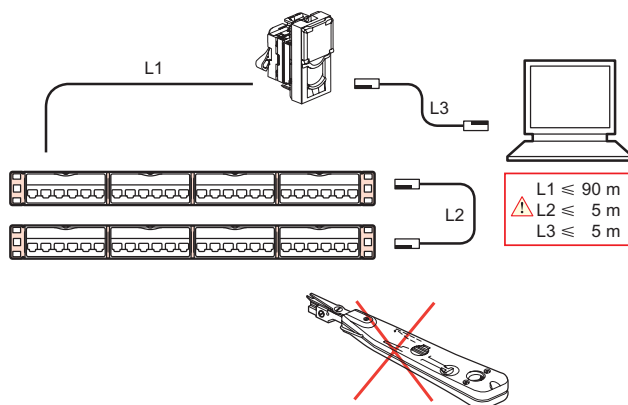
**5.3 Mechanical characteristics**

Max. number of connections/ disconnections: 5 without re-preparing the wire  
Endurance: 2500 operations (mating/extraction)  
IK03

**5.4 Climatic characteristics**

Operating temperatures: -40°C to +70°C  
Humid heat 21-day cycle

**6. CONNECTION**



# Myrius Cat. 6 UTP RJ 45 socket

Cat. no(s): 6 730 55

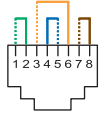
## 7. STANDARD RJ 45 CONNECTION

Takes the following plugs:

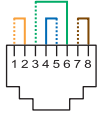
RJ 11 (4 contacts), RJ 12 (6 contacts), RJ 45 (9 contacts).

EIA/TIA 568 A and B dual colour code on terminals:

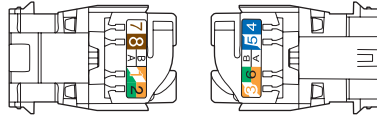
- UTP 8 contacts



EIA 568 A



EIA 568 B

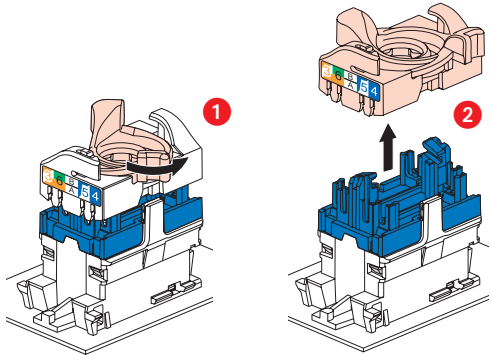


Permitted conductors:

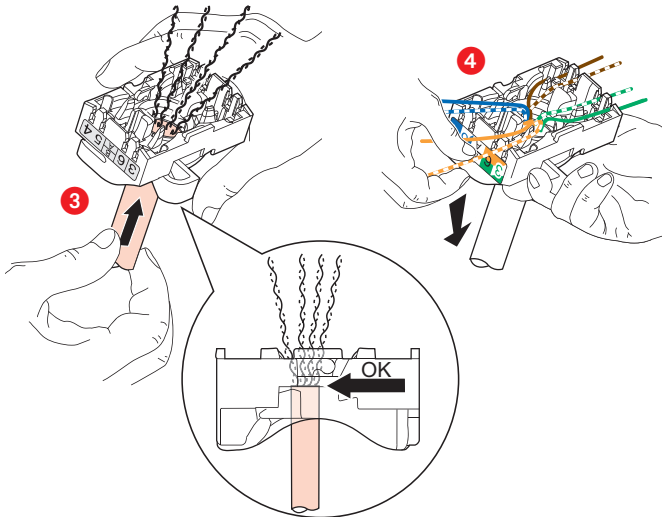
- Single-core: 0.5 to 0.65 mm, AWG 22 to 25
- Multicore: AWG 26
- Polyethylene conductor insulation: Ø max. on 1.58 mm insulation

Number of wires to be connected per connection: 1

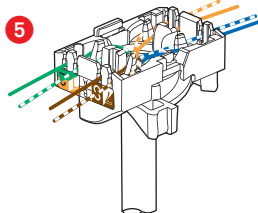
RJ 45 connectors are equipped with a locking nut. They do not require a special tool and can be re-wired if a mistake is made.



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



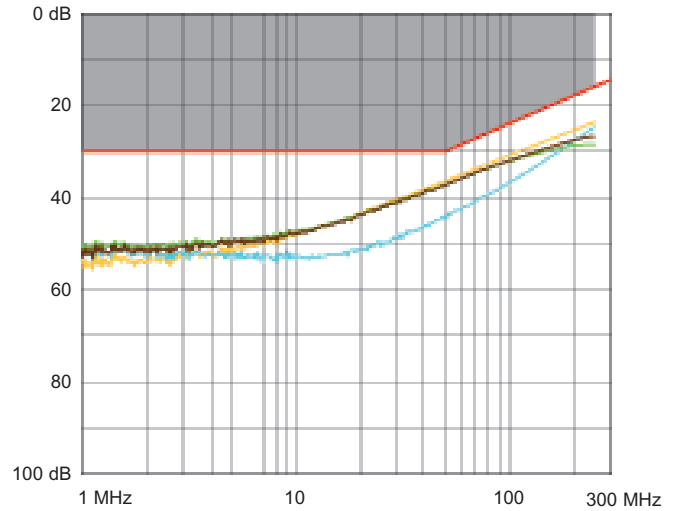
Spreading the cables allows you to ensure that a pair-breakage distance of 13 mm is kept between each pair. Spreading pairs at 90° to the cable ensures the best possible performance.



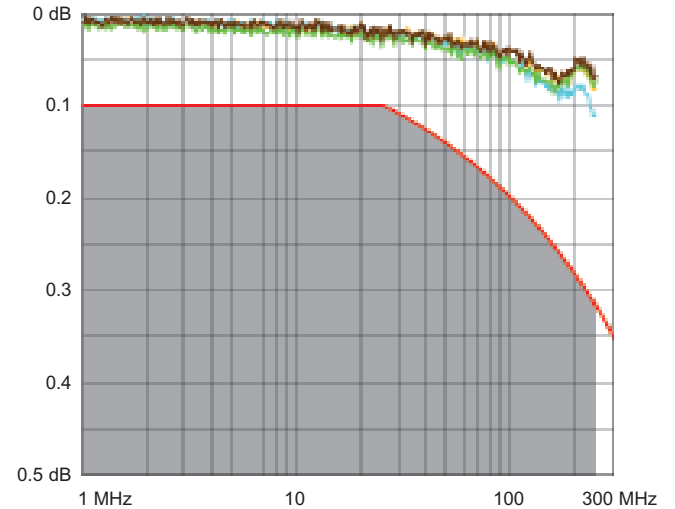
## 8. PERFORMANCE

### 8.1 Component performance (RJ 45 connectors)

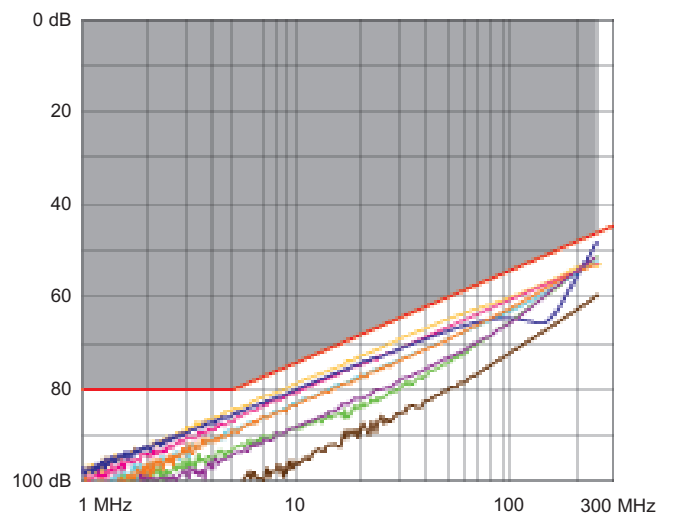
Return loss



Attenuation

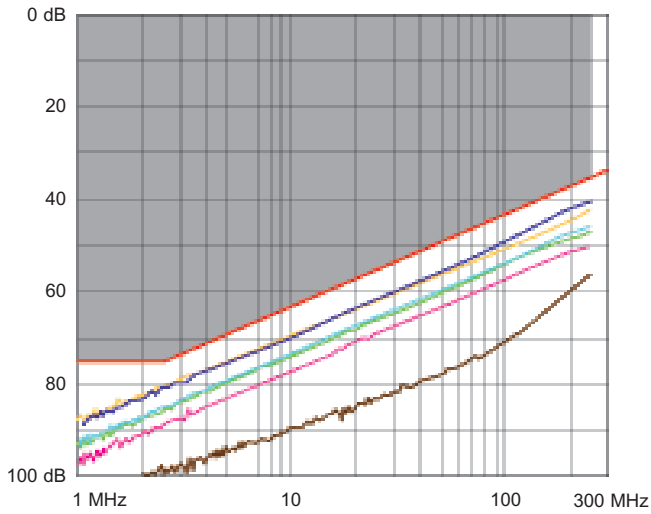


NEXT (Near end Crosstalk Attenuation)

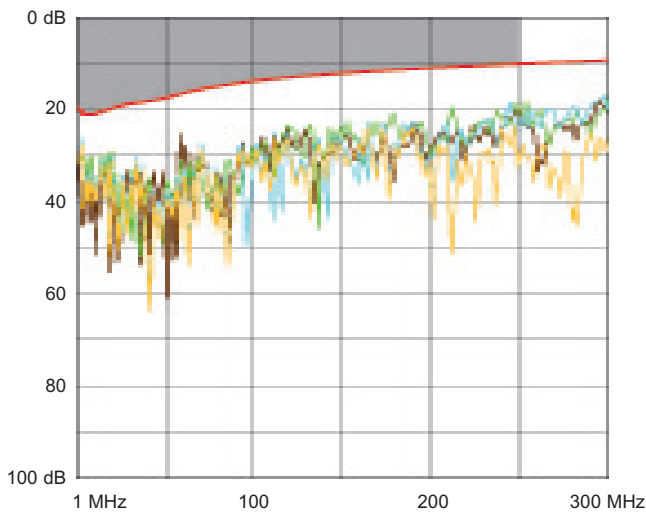


**8. PERFORMANCE (cont.)**

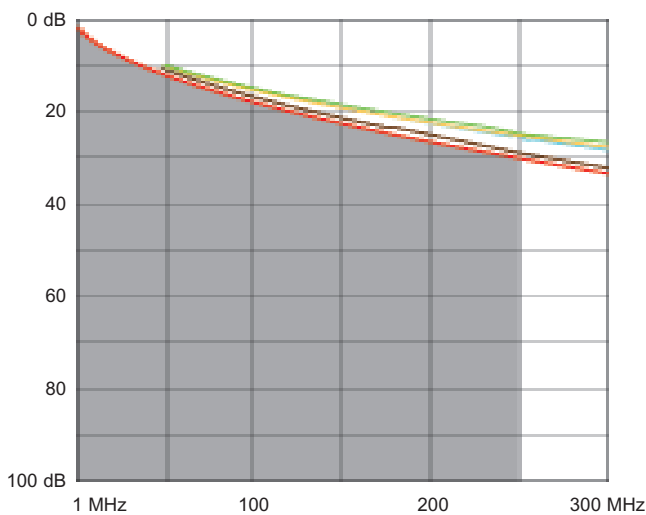
**8.1 Component performance (RJ 45 connectors) (cont.)**  
 FEXT (Far end Crosstalk Attenuation)



**8.2 Performance of permanent link with F/UTP cable**  
 Return loss

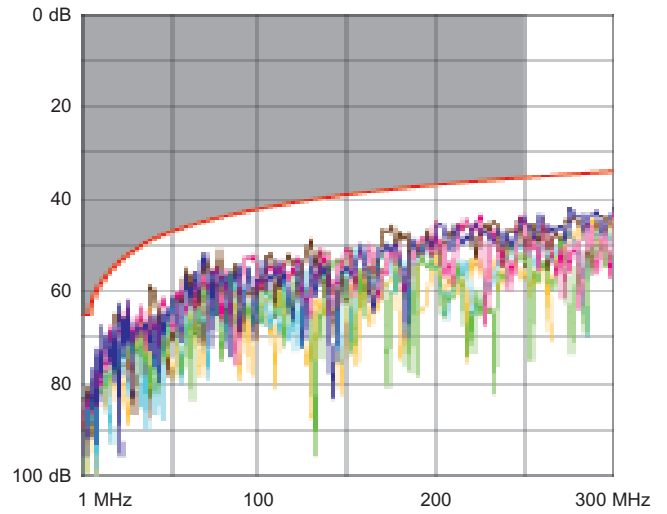


Attenuation

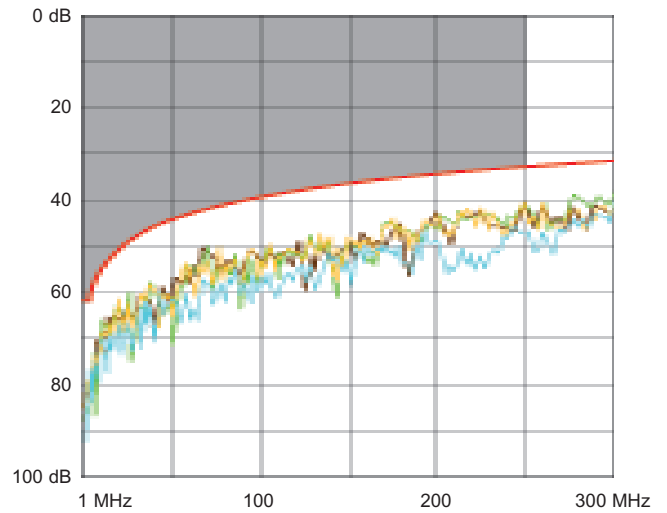


**8. PERFORMANCE (cont.)**

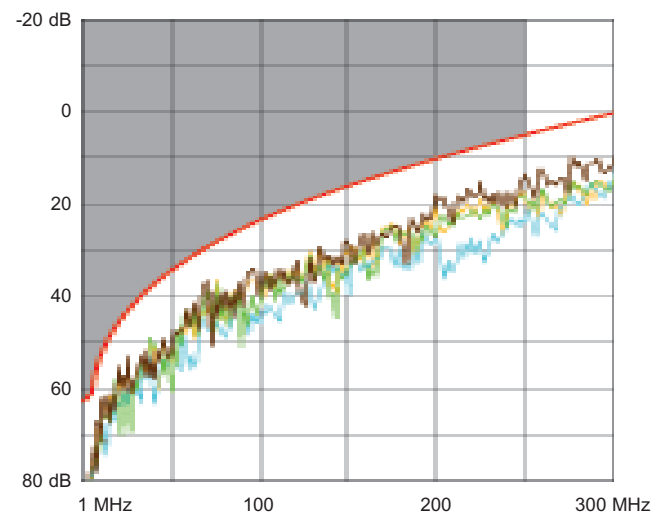
**8.2 Performance of permanent link with F/UTP cable (cont.)**  
 NEXT (Near end Crosstalk Attenuation)



PS NEXT (Power Sum NEXT)

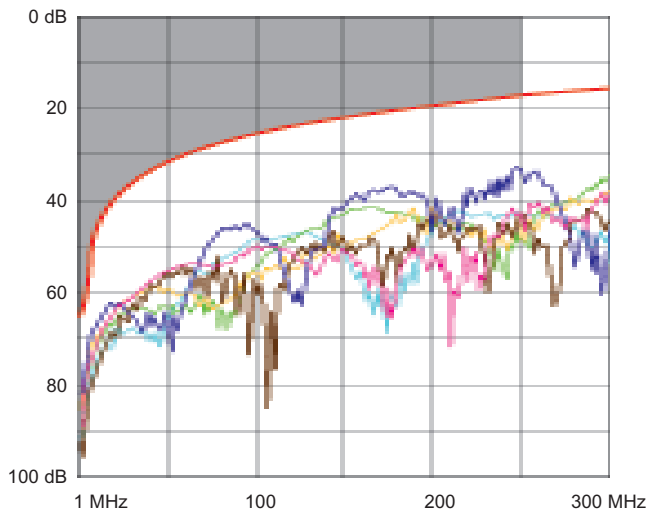


ACR-N (Attenuation to Crosstalk Ratio)

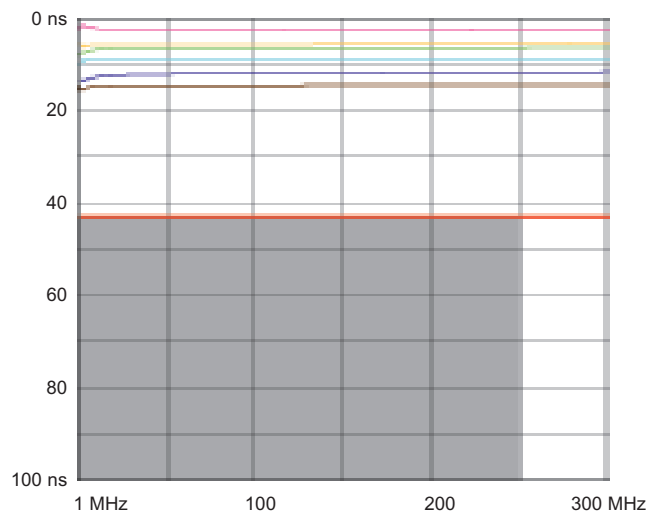


**8. PERFORMANCES** (cont.)

**8.2 Performance of permanent link with F/UTP cable** (cont.)  
ACR-F (Equal Level End Crosstalk Attenuation)



**Delay skew**



**9. STANDARDS AND APPROVALS**

Compliant with standards: ISO/IEC 11801 Edition 2  
CENELEC EN 50173-1 2007  
ANSI/EIA/TIA 568-C.2  
IEC series 60603-7