



## Cat.8.1 Patch Cords

R&Mfreenet Cat.8.1 high end patch cords are used for connecting the network equipment to patch panels and telecommunications outlets. Using an RJ45 plug with IDC technology they are suitable for power delivery (PoE) up to the highest levels. They are suitable for ultra high data rate applications and frequencies of up to 2000 MHz.

### Features of Cat.8.1 Patch Cord

- Fulfills the requirements of Category 8.1, Class I (2000MHz) according to the present standard of the ISO/IEC 11801
- Complies with the Category 8.1 specifications of the IEC 60603-7-81 components standard with the Cat.8.1 connection module
- Supports PoE (IEEE 802.3af), PoEP (IEEE 802.3at), 4Ppoe (IEEE 802.3bt) and is compatible to IEC 60512-99-001/002
- IDC wire termination according to IEC 60352-3
- Tested according to IEC 61935-2
- Strain relief according to TIA/EIA 568.2-D
- Each individual patch cord is tested
- Ultra stable strain relief
- Lengths of 1.5m, 2m, 3m, 4m and 5m available
- Impedance of 100Ω
- LSZH jacket material
- Patch cord attenuation factor 2 (AWG 26)



## Cat.8.1 Patch Cords Data Sheet

### Materials

Plug Housing	Contacts	Contact Plating	Shielding
Zinc die-cast	Bronze (CuSn6)	1,27 μm selective gold plate	Tin-plated brass

### Electrical Characteristics

General	Current Rating	Dielectric Withstanding Voltage	Insulation Resistance @20°C 500VDC
Compliant to 60603-7	1.5A @ 25°C	1000 VDC	5000 MΩ * km

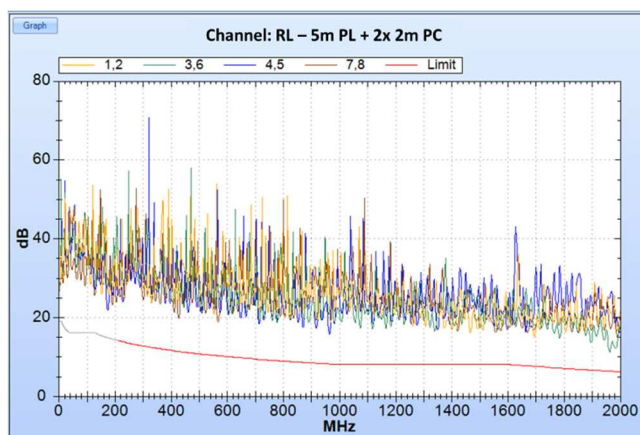
### Mechanical Characteristics

Plug Tolerances and Dimensions	Environmental Characteristics
Compliant to IEC 60603-7	Operating Temperature -20°C to +60°C

## Patch Cord Characteristics Cat.8.1

	S/FTP
Inner conductor diameter	AWG26/7
Number of pairs	4
Screen per pair	AL/ Foil
Outer screen	Cu-braid
Jacket	LSZH
Bending radius	≥35mm operation (without load) ≥60mm installation (with load)
Outer diameter	6.5 mm

Typical Return Loss Cat. 8.1 S/FTP patch cord 2m with 5m Permanent Link



Typical NEXT Cat. 8.1 S/FTP patch cord 2m with 5m Permanent Link

