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 a 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 standard IEC 60603-7-81 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

– The flexible cable meets the extended TCL specification of level 2 according to IEC 61156-6 for frequencies above 100 MHz

– 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)

– GHMT certified channel lengths: 30m / 40 Gbit/s and 50m / 25 Gbit/s

PoE optimized
PowerSafe
IDC inside

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 @ 25ºC	1000 VDC	5000 MΩ * km

Mechanical Characteristics | ### Environmental Characteristics

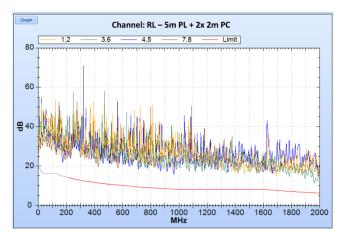| Plug Tolerances and Dimensions	Operating Temperature
Compliant to IEC 60603-7	-20ºC to +60ºC

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	≥20mm operation (without load)
Outer diameter	5.8 mm
Wiring method	standard: TIA568A optional: TIA568B
Jacket colours	grey

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