R&MIndustrial
Cat.6A Patch Cords

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Cat.6A Patch Cords

R&MIndustrial Cat.6A high end patch cords are used for connecting the network equipment to patch panels and telecommunications outlets in an industrial environment. Using the patented R&M RJ45 plug with its unique IDC technology they are suitable for power delivery (PoE) up to the highest levels. They are suitable for high data rate applications and frequencies of up to 500 MHz.

Features of Cat.6A Patch Cord

- Fulfills the requirements of Category 6A, Class EA (500MHz) according to the present standard of the ISO/IEC 11801
- Complies with the Category 6A specifications of the IEC 60603-7-41 / IEC 60603-7-51 components standard with the Cat.6A 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
- Can also be used as Cat.5e or Cat.6 (backwards compatible)
- Slim plug dimensions: 41.1 x 11.7 x 6.6mm (length x width x depth)
- Ultra stable strain relief
- Impedance of 100Ω
- R&M security system and colour coding
- R&M environment system

PoE optimized PowerSafe IDC inside

Cat.6A Patch Cords Data Sheet

Materials

Plug Housing	Contacts	Contact Plating	Shielding
UL 94-V0 polycarbonate	Bronze (CuSn6)	0,7 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	≥2000 MΩ * km

Mechanical Characteristics

Plug Tolerances and Dimensions
Compliant to IEC 60603-7

Environmental Characteristics

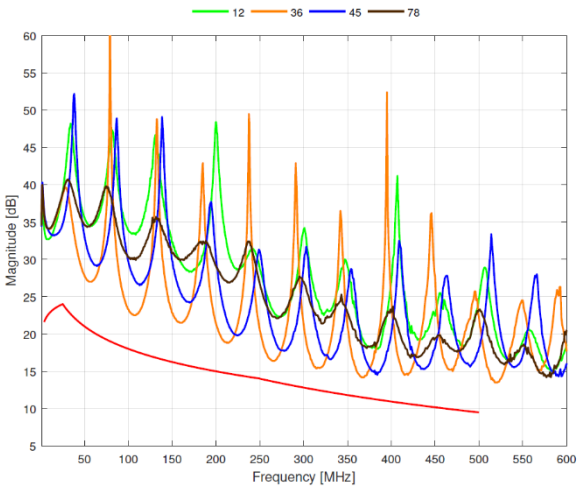
Operating Temperature
-20ºC to +60ºC (-35°C to +75°C cable only)

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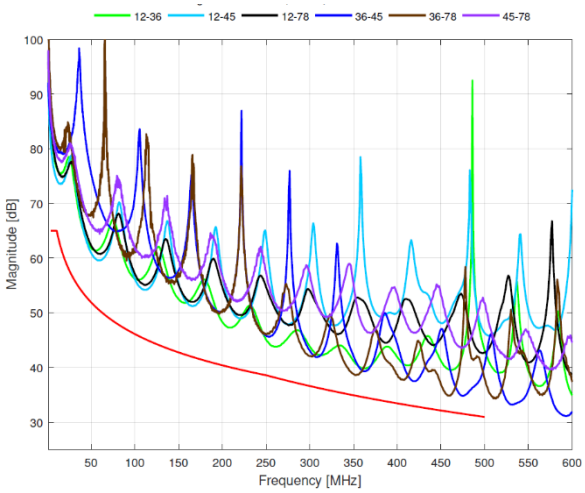
Patch Cord Characteristics Cat.6A

	S/FTP
Inner conductor diameter	AWG26/7
Number of pairs	4
Screen per pair	AL/ Foil
Outer screen	Cu-braid, tinned
Jacket	PUR (Polyurethane), halogen free
Jacket colour	green, RAL 6018
UV resistance sheath	acc. to IEC 60068-2-5
Ozone resistance cable	acc. to EN 60811-2-1, clause 8
Smoke density cable	acc. to EN 50268-2, IEC 61034-1 and 2
Corrosivity cable	acc. EN 50267-1 and 2, IEC 60754-1 and 2
Flame resistance cable	LSHF, IEC 60332-1, IEC 60754-2, IEC 61034
Bending radius	≥35mm operation (without load) ≥60mm installation (with load)
Outer diameter	6.0 mm
Wiring method	standard: TIA568A, optional: TIA568B or crossover

Typical Return Loss Cat. 6A S/FTP patch cord 2m



Typical NEXT Cat. 6A S/FTP patch cord 2m



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