# R&M*classic*
# Cat.6 Patch Cords

28.10.2020 / V2.0 / RJK



### Cat.6 classic Patch Cords

R&M*classic* Cat.6 patch cords are used for connecting the network equipment to patch panels and telecommunications outlets. They are suitable for frequencies of up to 250 MHz.



### Features of Cat.6 classic Patch Cord

- Fulfills the requirements of Category 6, Class E (250MHz) according to the present standard of of TIA-568.2 and ISO/IEC 11801
- Complies with the Category 6 specifications of the IEC 60603-7-4 / IEC 60603-7-5 connector standard
- Supports PoE (IEEE 802.3af), PoEP (IEEE 802.3at), 4PPoE (IEEE 802.3bt) and is compatible to IEC 60512-99-001/002 (*)
- Tested according to IEC 61935-2
- Lengths from 0.2 to 20m available
- Impedance of 100Ω
- LSZH versions

## Cat.6 classic Patch Cords Data Sheet

### Materials

| Plug Housing | Contacts | Contact Plating | Shielding |
|---|---|---|---|
| UL 94-V0 polycarbonate | Bronze (CuSn6) | 1,27 µm gold plate | Brass with nickel plated |

### Electrical Characteristics

| General | Current Rating | Dielectric Withstanding Voltage | Insulation Resistance @20°C 100VDC |
|---|---|---|---|
| Compliant to 60603-7 | 1.5A @ 25ºC | 1000 VDC | ≥500 MΩ |

### Mechanical Characteristics

| Plug Tolerances and Dimensions |
|---|
| Compliant to IEC 60603-7 |

### Environmental Characteristics

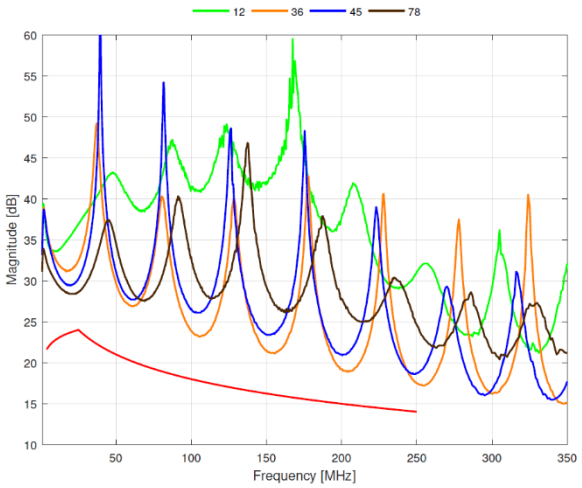
| Operating Temperature |
|---|
| -10ºC to +60ºC |

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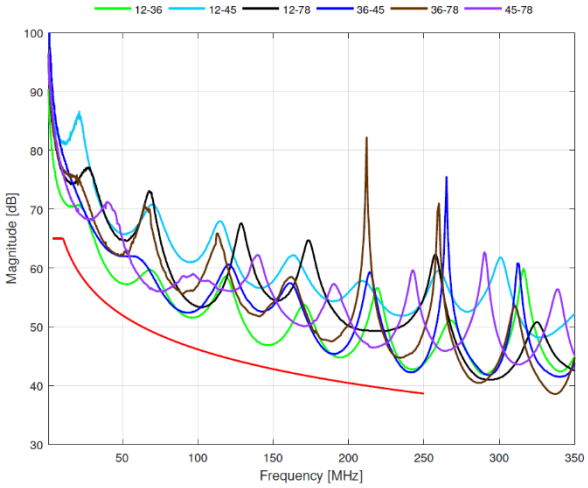
## Patch Cord Characteristics Cat.6 classic

| | unshielded | shielded |
|---|---|---|
| Inner conductor diameter | AWG26/7 | AWG26/7 |
| Cable construction | U/UTP | U/FTP |
| Number of pairs | 4 | 4 |
| Screen per pair | None | AL/ foil |
| Outer screen | None | None |
| Jacket | LSZH | LSZH |
| Bending radius | ≥35mm operation (without load) | ≥50mm operation (without load) |
| Outer diameter | nominal 4.5 mm | nominal 5.7 mm |
| Wiring method | standard: TIA568A, optional: TIA568B | |
| Jacket colours | grey, yellow, red, blue, green, orange, black, violet, white | |

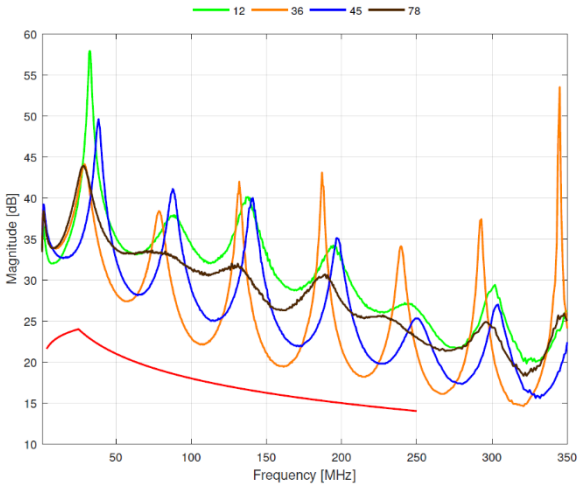
### Typical Return Loss Cat.6 unshielded patch cord 2m



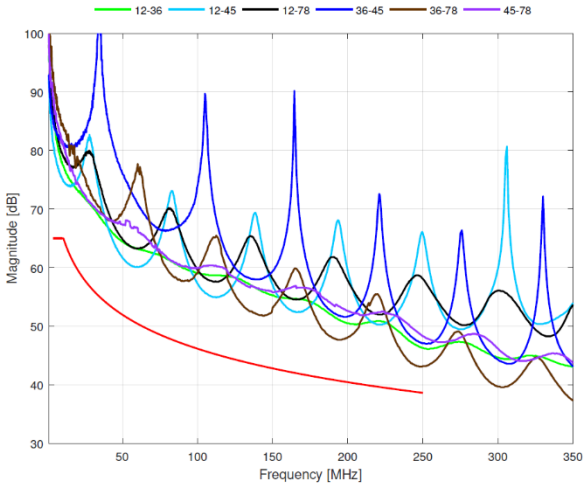

### Typical NEXT Cat.6 unshielded patch cord 2m




### Typical Return Loss Cat.6 shielded patch cord 2m




### Typical NEXT Cat.6 shielded patch cord 2m




(*) For continuous PoE applications or 4PPoE, R&M recommends to use *PowerSafe* patch cords.



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## Patch Cord Cat. 6, Unshielded, 4P, LSZH, RJ45/u-RJ45/u

| Length (m) | Gray | Yellow | Red | Blue | Green | Orange | Black | Violet | White |
|---|---|---|---|---|---|---|---|---|---|
| 0.5 | 875975 | 881004 | 881012 | 881020 | 881028 | 881036 | 881044 | 881052 | 881060 |
| 1.0 | 875976 | 881005 | 881013 | 881021 | 881029 | 881037 | 881045 | 881053 | 881061 |
| 1.5 | 875977 | 881006 | 881014 | 881022 | 881030 | 881038 | 881046 | 881054 | 881062 |
| 2.0 | 875978 | 881007 | 881015 | 881023 | 881031 | 881039 | 881047 | 881055 | 881063 |
| 3.0 | 875979 | 881008 | 881016 | 881024 | 881032 | 881040 | 881048 | 881056 | 881064 |
| 5.0 | 875980 | 881009 | 881017 | 881025 | 881033 | 881041 | 881049 | 881057 | 881065 |
| 7.5 | 875981 | 881010 | 881018 | 881026 | 881034 | 881042 | 881050 | 881058 | 881066 |
| 10.0 | 875982 | 881011 | 881019 | 881027 | 881035 | 881043 | 881051 | 881059 | 881067 |

## Patch Cord Cat. 6, Shielded, 4P, LSZH, RJ45/s-RJ45/s

| Length (m) | Gray | Yellow | Red | Blue | Green | Orange | Black | Violet | White |
|---|---|---|---|---|---|---|---|---|---|
| 0.5 | 875964 | 881080 | 881089 | 881097 | 881105 | 881113 | 881121 | 881129 | 881137 |
| 1.0 | 875965 | 881081 | 881090 | 881098 | 881106 | 881114 | 881122 | 881130 | 881138 |
| 1.5 | 875966 | 881082 | 881091 | 881099 | 881107 | 881115 | 881123 | 881131 | 881139 |
| 2.0 | 875967 | 881083 | 881092 | 881100 | 881108 | 881116 | 881124 | 881132 | 881140 |
| 3.0 | 875968 | 881084 | 881093 | 881101 | 881109 | 881117 | 881125 | 881133 | 881141 |
| 5.0 | 875969 | 881086 | 881094 | 881102 | 881110 | 881118 | 881126 | 881134 | 881142 |
| 7.5 | 875970 | 881087 | 881095 | 881103 | 881111 | 881119 | 881127 | 881135 | 881143 |
| 10.0 | 875971 | 881088 | 881096 | 881104 | 881112 | 881120 | 881128 | 881136 | 881144 |

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