

DirectPatch Cat 6A FTP RJ 45 assemblies cables

Technical Data Sheet

Patent Pending



Cat 6 RJ 45 Patch Cords :

PatchSee RJ 45 Patch Cords are designed, and individual tested for connecting the network equipment to patch panel and network user outlet. They are warranted for cat 6A TIA/EIA-568-B-2.10 Channel test for transmission frequencies of up to 500 MHz and compatible with the 10 Giga applications.

PatchSee Concept and main characteristics

- Light identification by plastic optical fiber,
- Lengths 20 feet (6.1 m) up to 100 feet (30 m) in standard lengths, and up to 165 feet (50 meters) on specific demand,
- Color cable: Black with white marking,
- Color boot: Grey with white marking,
- Movable color clip, 16 colors available,
- Packaging: boxes of 1piece by box,
- Available in cross patch cord,
- Marking on the boot: length and P/N,
- Unique serial number marking on the cable,
- Warranty 25 years for Channel Cat 6A link,
- Individual tested: each Patch Cord is individual tested (Return Loss, Attenuation, NEXT, etc...) and all the reports tests are archiving on computer database.

Technical Data Sheet

| Construction | | | | |
|------------------------|--|--|--|--|
| Number of pairs | 4 | | | |
| Туре | U-FTP (STP) | | | |
| Conductor | Stranded bare copper wire | | | |
| AWG | 26 | | | |
| Insulation | Foam Skin Polyethylene | | | |
| Individual pair screen | Al-laminated metal pair foil | | | |
| Pair screen | n a | | | |
| Optical wave guide | 2 POF 0.5 mm up to 32 feet, 0.75 mm for length bigger than 32 feet | | | |
| Drain | Stranded drain wire tinned | | | |
| Jacket | LSOH Black with white printing (LSOH : IEEC 60332-3 Cat C, Low Smoke | | | |
| | : IEEC 61189-2C12, Halogen Free : IPC4101-A) | | | |
| Overall diameter | 6.2 mm | | | |
| Plug housing | UL 1863 Polycarbonate 2 levels with management bar | | | |
| Contacts | Moved contacts | | | |
| Contact Plating | 50μ inches gold minimum (1.2 μ m) | | | |
| Shielding | Tin-plated | | | |

Mechanical Properties of the cable

| Fire Propagation Test | Temperature range During operation | Fire load | Bending radius |
|---------------------------|---------------------------------------|-----------|---------------------|
| UL 444 VW 1 Flame test | -20° C up to $+75^{\circ}$ C | 372 MJ/km | >25 mm without load |

Electrical Properties of the cable (at 20°C +/- 5°C)

| DC loop resistance | Insulation resistance (500V) | Capacitance at 800 Hz | Impedance 1-100MHz | Impedance 100- 250MHz | Propagation delay | Test voltage (DC, 1 min) |
|-----------------------|------------------------------------|--------------------------|-----------------------|-----------------------------|----------------------|-----------------------------------|
| $< 340 \Omega/km$ | > 2000 MΩ*km | Nom. 43nF/km | 100 +/- 15 Ω | 100 +/- 15 Ω | < 427 ns/100m | 1000 V |