

ThinPATCH RJ45 small diameter cable TECHNICAL DATA SHEET UTP Cat. 6A, (10Gb/s) Compatible Cat. 6 and 5E

ThinPATCH RJ45 Patch Cords are designed, and individual tested for connections between the network equipment and patch panels, and for network user outlet. They are guaranteed for cat 6A, cat 6 and cat 5E TIA/EIA-568.2-D component tests, to get a Channel Link certified on a Permanent Link certified for transmission frequencies of up to 500 MHz. They are compatible with the 10 Gigabits applications, and standard compliance with ISO/IEC 11801-2: 2017 and Amd 1.

ThinPATCH main characteristics

- Small cable diameter, AWG 28
- Slim PCI (Patchsee Connector Insert: 3P Design property)
 - o designed to improve NEXT and RL for 10 Gigabits applications,
 - o designed for high density panels and active components (same size as the plug in width and height)
- Light identification by plastic optical fibers
- Certified for 10 Gb/s applications
- Individually tested: each patch cord is individual tested (Return Loss, Attenuation, NEXT, etc...)
- Various lengths from 0.5 feet (0.15m) up to 16 feet (4.9m)
- Color of sheath: Black with white marking
- Color of boot: Black with white marking
- Compatible with removable clip PATCHCLIP, 16 colours available
- Marking on the boot: length and P/N
- Unique serial number marking on the cable
- 5 years guarantee



Number of pairs	4
Type	U-UTP
Conductor	Stranded bare copper wire, 7 / 0.124 mm +/- 0.003 mm
Wire Gauge	28 AWG
Insulation	High Density Polyethylene
Individual pair screen	None
Pair Screen	None
Optical wave guide	2 Plastic Optical Fibers 0.5 mm
Drain	None
Jacket	PVC Black with white printing
Overall diameter	3.8 +/- 0.2 mm
Bending radius	11.4 mm
Plug housing	UL 1863 Polycarbonate, individual wire guide and management bar
Contacts	Moved contacts
Contact Plating	50 µ inches gold minimum (1.2 µm)
Shielding	None
Power Over Ethernet (POE)	Compatible PoE, PoE+ and 4PPoE (IEEE802.3bt type 4 / Compatible until 100W)

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 +60°	372 MJ/km	>11.4 mm without load

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

Conductor resistance	Insulation resistance	Pair to ground unbalance capacitance	Impedance 1-100MHz	Impedance 100-250MHz	Propagation delay (1-250 MHz)	Test voltage in air
< 223 Ω/km	> 5 000 MΩ/km	Nom. 3.3nF/km	100 +/- 15 Ω	100 +/- 15 Ω	< 45 ns/100m	2000 V