

## ThinPATCH RJ45 small diameter cable TECHNICAL DATA SHEET FTP 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-C.2 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 Amendment 1 and 2 to ISO/IEC 11801, 2<sup>nd</sup> Ed.

### ThinPATCH main characteristics

- Small cable diameter, AWG 28
- 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 fiber
- Certified for 10 Gb/s applications
- Individually tested: each patch cord is individual tested (Return Loss, Attenuation, NEXT, etc...)
- Various lengths from 2 feet (0.6 m) up to 16 feet (4.9 m)
- 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



<b>Number of pairs</b>	4
<b>Type</b>	U-FTP (STP)
<b>Conductor</b>	Stranded bare copper wire, 7/0. 125 +/- 0.005 mm
<b>Wire Gauge</b>	28 AWG
<b>Insulation</b>	HDPE
<b>Individual pair screen</b>	Al-laminated metal pair foil
<b>Overall Screen</b>	None
<b>Optical wave guide</b>	2 POF 0.5 mm
<b>Drain</b>	Stranded drain wire tinned copper, 26 AWG
<b>Jacket</b>	LSOH Black with white printing (LSOH : IEEC 60332-3 Cat C, Low Smoke : IEEC 61189-2C12, Halogen Free : IPC4101-A)
<b>Overall diameter</b>	4.9 +/- 0.2 mm
<b>Bending radius</b>	14.7 mm
<b>Plug housing</b>	UL 1863 Polycarbonate , individual wire guide and management bar
<b>Contacts</b>	Moved contacts
<b>Contact Plating</b>	50 µ inches gold minimum (1.2 µm)
<b>Shielding</b>	Tin-plated
<b>Power Over Ethernet (POE)</b>	Compatible POE, POE+, et 4PPOE (See the recommendations of TSB-184-A and TIA/EIA-568.2-D)

### Mechanical Properties of the cable

Fire Propagation Test	Temperature range During operation	Fire load	Bending radius
UL 1581 VW 1 Flame test	-20°C up to +75°C	372 MJ/km	>25 mm without load

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

Conductor resistance	Insulation resistance	Mutual Capacitance	Impedance 1-100MHz	Impedance 100-250MHz	Propagation delay	Test voltage
< 223Ω/km	> 5 000 MΩ/km	56nF / 1 km	100 +/- 15 Ω	100 +/- 15 Ω	< 45 ns/100m	2 500 V -3 seconds