

## ThinPATCH RJ45 small cable diameter TECHNICAL DATA SHEET Cat6a UTP (10Gb/s)

ThinPATCH RJ45 Patch Cords are designed, and individually tested for connection of the network equipment to patch panel and network user outlet. They are guaranteed for cat 6A TIA/EIA-568-B-2.10 Channel test on a Permanent Link certified for transmission frequencies of up to 500 MHz and compatible with the 10 Gigabits applications. And standard compliance with ISO/IEC 11801 ed 2002-Amd1 & Amd2.

### 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
- 11 available lengths from 2 feet (0.6m) up to 16 feet (4.9m)
- Colour of sheath: Black with white marking
- Colour 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-UTP
<b>Conductor</b>	Stranded bare copper wire, 7/0. 125 +/- 0.005 mm
<b>Gage</b>	26 AWG
<b>Insulation</b>	HDPE
<b>Individual pair screen</b>	None
<b>Pair Screen</b>	None
<b>Optical wave guide</b>	2 POF 0.5 mm
<b>Drain</b>	None
<b>Jacket</b>	PVC Black with white printing
<b>Overall diameter</b>	4.0 +/- 0.2 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>	None

### 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 °C	372 MJ/km	>25 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