

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

ThinPATCH RJ45 Patch Cords are designed, and individual tested for connecting 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
- 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
- Removable color clip, 16 colors available
- Marking on the boot: length and P/N
- Unique serial number marking on the cable



Number of pairs	4
Type	U-FTP (STP)
Conductor	Stranded bare copper wire, 7/0. 125 +/- 0.005 mm
Gage	28 AWG
Insulation	HDPE
Individual pair screen	Al-laminated metal pair foil
Overall Screen	None
Optical wave guide	2 POF 0.5 mm
Drain	Stranded drain wire tinned copper, 26 AWG
Jacket	LSOH Black with white printing (LSOH : IIEC 60332-3 Cat C, Low Smoke : IIEC 61189-2C12, Halogen Free : IPC4101-A)
Overall diameter	4.9 +/- 0.2 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	Tin-plated

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