

## TECHNICAL DATA SHEET

### DIRECTPATCH – Cat 6A FTP (10Gb/s) - Up to 30m

PATCHSEE RJ45 Patch Cords are designed, and individual tested for connections between the network equipment and patch panel, and network user outlet. They are guaranteed for cat 6A TIA/EIA-568.2-D. 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 11801-2: 2017 and Amd 1.

#### PATCHSEE Solution and main characteristics

- Light identification by plastic optical fibers
- 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)
- 5 years Guarantee
- certified for 10 Gb/s applications
- Individually tested: each Patch Cord is individual tested (Return Loss, Attenuation, NEXT, etc...)
- Available in 66 ft (20 m), 82 ft (25 m) & 100 ft (30 m)
- Color of sheath: Black with white marking
- Color of boot: Black with white marking
- Compatible with color clip PATCHCLIP (16 colors available)
- Marking on the boot: length and P/N
- Unique serial number marking on the cable
- Supplied with 2 connector protections PLUGCAP



<b>Number of pairs</b>	4
<b>Type</b>	U-FTP
<b>Conductor</b>	Stranded bare copper wire
<b>Gauge</b>	26 AWG
<b>Insulation</b>	Foam Skin Polyethylene
<b>Individual pair screen</b>	Al-laminated metal pair foil
<b>Overall Screen</b>	None
<b>Optical wave guide</b>	2 Plastic Optical Fibers 0.75 mm
<b>Drain</b>	Stranded drain wire tinned
<b>Jacket</b>	LSOH Black with white printing (LSOH : IIEC 60332-3 Cat C, Low Smoke : IIEC 61189-2C12, Halogen Free : IPC4101-A)
<b>Overall diameter</b>	6.2 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>	Tin-Plated
<b>Power Over Ethernet (POE)</b>	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°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 (1-250 MHz)	Test voltage (DC, 1 min)
< 340Ω/km	> 2000 MΩ*km	Nom. 43nF/km	100 +/- 15 Ω	100 +/- 15 Ω	< 427 ns/100m	1000 V