

Copper Patch Cord

CAT 6A – S/FTP



Genius Cat6A S/FTP Shielded Patch Cords support reliable 10 Gigabit Ethernet performance with effective EMI suppression. The double-shielded design reduces crosstalk and insertion loss, making them ideal for high-noise environments. Built with flexible shielded cable and TIA-compliant RJ45 plugs, they are available in multiple colours and lengths.

The robust plug construction ensures secure cable retention and precise conductor alignment for consistent, high-performance connectivity

Key Features

- Injection moulded Boot for enhanced life and reliability
- Complied to all Major Internationally Defined standards
- Double Shielded construction is ideal for noise-prone environments
- Plugs with 50-micron gold plating contacts
- Backward Compatible and Interoperable
- 100% tested at the factory
- UL Listed & RoHS v3 Complied
- Flame Retardant verified according to IEC 60332-1-2 & UL 1581 VW-1
- Genius Network Brand performance warranty for 25 Years

Product Specification

Type of cable	S/FTP
Conductor Material	Stranded bare copper
Conductor Size	7*0.16± 0.01 mm (26 AWG)
Insulation Material	Foam skin, polyolefin
Insulation thickness	0.23 mm - Nominal
Insulation Diameter	1.03 mm - Nominal
Pair Color	Blue - White Orange - White Green - White Brown - White
Pair Construction	4 Pairs pair wrapped in polyester-aluminium foil
Primary Shield type & Material	Tinned-copper braid shield
Secondary Shield material	polyester-aluminium foil
Outer Sheath Material	LSZH
Outer Sheath thickness	0.5 mm
Tensile Strength (For Sheath)	Min. 0.917 Kgf/mm ²
Outer Cable Diameter	6.0 ± 0.2 mm Nominal
RJ45 Plug Housing Material	Polycarbonate, UL94V-0
RJ45 Plug Contact Blade and Plating	Copper Alloy with 50-micron gold
Strain Relief Boot Type	Moulded Boot
Wiring Scheme / Termination Standard	TIA568A /TIA568B
Supporting Length (for 25-year performance warranty)	1 Meter - 15 Meter
Backward Compatibility	Yes
Minimum Bending Radius - Operation/Installation	4D / 8D
Durability	750 Cycle
Plug Retention Force, minimum	133 N

Electrical Performance @ 20°C ±1°C

Operating Frequency	500 Mhz
Characteristic Impedance	100 Ω ±15 Ω
Conductor Resistance	Max. 14.2 Ω/100 M
Resistance unbalance	2% max. at 20°C
Mutual Capacitance	43 pF/m nominal at 1 KHz.
Capacitance unbalance	1500 pF/km max. at 1 KHz.
Max propagation delay	5.3 ns/m max @ 100 MHz
Cable Skew	≤ 45 ns / 100 m
NVP	77-80% Approx
Max operating Voltage	30 VAC / 56 VDC
Insulation Resistance	500 MΩ minimum
Dielectric Withstand	1000 volts RMS, 1 min. (60Hz)

Standards, Certifications & Compliances

- UL Listed
- Compliance with UL 94
- RoHS v3 Compliant
- PoE Type IEEE 802.3an
- ANSI/TIA-568-C.2, ANSI/TIA-568.2-D, ANSI/TIA-568.2-E, ISO/IEC 2nd Edition 11801 & CENELEC EN50173
- Compliance with IEC 61156-6 for patch cable
- Flammability Test - IEC 60332-1-2 & IEC 332-1 / UL 1581 VW-1
- Acid Gas Test Method - IEC 60754-1
- Smoke Density Test - ASTM D2843
- Minimum concentration of oxygen - ASTM D2863

Environmental Specification

Operating temperature	-10°C to +60°C
Storage Temperature	-30°C to +70°C
Installation Temperature	0°C to +50°C

Ordering Information

Part Number	Product Description
GCTPCSTLZWH001	Genius Patch Cord Cat 6A S/FTP LSZH 1 Meter White
GCTPCSTLZWH002	Genius Patch Cord Cat 6A S/FTP LSZH 2 Meter White
GCTPCSTLZWH003	Genius Patch Cord Cat 6A S/FTP LSZH 3 Meter White

Note –

- The last three digits specify the patch cord length; “001” denotes 1 meter – Example -002 is 2mtr, 005 is 5 mtr
- The last three digits specify the patch cord length; “105” Starting 1 denotes decimal length 105 is 0.5Mtr, 125 is 2.5 mtr
- Color Coding: WH – White; RD – Red; BL – Blue

