

Cat6a UTP LSZH Patch Cables

Ideal for 10GBase-T Copper Cabling Solution



Overview

Cat6a network patch cable is the cost-effective solution for indoor data center applications, supporting up to 10GBase-T and 550MHz within 100 meters of cable. And it is fully backward compatible with all the previous categories. The FS cat6a patch cables conductor apply Pure Bare Copper with high electrical conductivity and low signal transmission attenuation. The sheath material is low smoke and halogen-free LSZH, which can produce less smoke and almost no highly toxic gas called halogen. Cat6a cable uses eight-core four-pair precision twisted pairing technology and passes the Fluke test, which ensures that it can provide stable high-speed network connection and ensure the accuracy and reliability of data transmission.

Benefits

- Exceed ANSI/TIA-568.2-D Category 6A and ISO 11801 Class EA Standards
- Up to 550MHz with 10G-T Speed, Support PoE/PoE ++/PoE++ (IEEE 802.3af/at/bt)
- Performance Tested with Fluke and Wired T568B
- Strain Relief and a Flexible Boot Simplify Moves, Additions and Changes
- Stranded Cable and RJ45 Modular Plugs with 50μ" Gold-plated Contacts
- Use in Patch Panel or Equipment Connections in Enterprise Networks and Data Center
- Support Current and Future Category 6a/6/5e/5 Applications

Specification

Product Type	
Shielding Type	Unshielded (U/UTP)
Termination End	RJ45 Plug
Reference Standard	ISO/IEC 11801, ANSI/TIA-568.2-D

Conductor	
Conductor Type	Stranded
Conductor Material	Pure Bare Copper
Wire Gauge (AWG)	24 (7/0.2mm)
Conductor Qty.	4 Twisted Pairs

Insulation	
Insulation Material	HDPE
Insulation Diameter (mm)	0.98 ± 0.05
Core Color	A. Blue, White-Blue B. Orange, White-Orange C. Green, White-Green D. Brown, White-Brown

Specification

Sheath	
Material	LSZH (Complies RoHS)
Thickness (mm)	0.55 ± 0.05
Outer O.D.(mm)	6.1 ± 0.4
Color	Blue/Gray/Black

Electrical Characteristics (20 °C)	
Data Rate Support	10GBase-T
Standard Bandwidth (MHz)	550
Reference Bandwidth (MHz)	550
Max. DC Conductor Resistance Unbalance (%)	5
1-500MHz, Delay Skew (ns/100m)	≤45
Max. DC Resistance 20 °C (Ω/100m)	9.38

Mechanical Characteristics	
Before Aging Tensile Strength (Mpa)	≥10.0
Before Aging Elongation (%)	≥125
Aging Period (°C×hrs)	100°C×24h×7d
After Aging Tensile Strength (Mpa)	≥8.0
After Aging Elongation (%)	≥100
Cold Bend (-20±2°C×4h)	No Visible Cracks

Specification

Surface Printing

Letter Height (mm)

3.0 ±0.3

Color

Black

Others

Rip Cord

No

Drain Wire

No