Category 6 U/UTP Cable - LSZH



High Speed Gigabit Ethernet U/UTP 250 MHz Class E / Category 6 Cable Consists of HDPE Insulated 8 x 23AWG Solid Bare Electrolytic Grade Copper Conductors Twisted as 4 Pairs, Rip Cord and LSZH Outer Jacket. This Cable is Suitable for Gigabit Ethernet (1000Base-T) applications for High-Speed Data, Voice & Video Signals over LANs, Server Farms and Other Bandwidth Sensitive Indoor Applications.

Features

- Complies to ANSI-TIA 568.2-D for Category 6 & ISO/IEC 11801 for Class E
- Fire Rating as per IEC 60332-1 & CM reated
- Testing performed up to 700 MHz to ensure quality and performance verification
- Maximum throughput, reliability and performance
- 4 Pair Separator Design
- Complies to ETL 4 connector channel performance and Zero Bit Error Channel Performance
- Covered under 3C3® Performance Warranty

Mechanical Specifications

Conductor AWG	:	23
Conductor Material	:	Solid bare Copper
Conductor Count	:	8
Insulation Material	:	High Density Polyethylene
Insulation Diameter	:	1.04±0.07mm
Insulation Nominal Thickness	:	0.2 mm
No. of pair	:	4
Color Code		
Pair #1	:	Blue, White and Blue
Pair #2	:	Orange, White and Orange
Pair #3	:	Green, White and Green
Pair #4	:	Brown, White and Brown
Drain Wire	:	No
Outer Sheath	:	LSZH
Outer Sheath Color	:	Grey
Outer Sheath Thickness	:	0.6mm
Overall cable diameter	:	5.9±0.30mm
RIP Cord	:	Yes
SeparatorDimension/Thickness	:	4.3 mm/ 0.4 mm
Cross filler	:	HDPE

Kindly note that any specifications including design, measurements, size, dimension, weight and material specifications mentioned across any technical or commercial document are change by 3C3 India Pvt. Ltd., without any notice.

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Separator Material	:	Polyolefin / Polyethylene
Nominal Weight	:	14.0Kg

Electrical Specifications

Characteristic Impedance	:	100Ω±15%
Conductor Resistance (DC)	:	≤9.38Ω/100m
Resistance Unbalance	:	5% max
Mutual Capacitance	:	<5.6nF
Capacitance Unbalance	:	330pF
Delay Skew	:	<45ns
Dielectric Strength	:	2.5 KVDC for 2 seconds
Current Rating	:	1.5 A Max
Operating Voltage		72 V
NVP	:	69%
Bending radius	:	4X cable diameter
Pulling force	:	11.5kg
Maximum propagation delay @250MHz		490ns

Frequency	Max. IL (dB)	Min. NEXT (dB)	Min PSNEXT (dB)	Min ACRF (dB)	Min PSACRF (dB)	Min RL (dB)
250MHz	<32.8	>38.3	>36.3	>19.8	>16.8	>17.3

Environmental Specifications

Installation Temperature	:	0°C to 50°C
Storage Temperature	:	-20°C to +75°C
Operating Temperature	:	-20°C to +60°C

Flame Properties

Flammability Test	:	IEC 60332-1
Acid Gas Emission Test	:	IEC 60754-1
Smoke Density Test	:	ASTM 2843

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Category 6 U/UTP Cable - LSZH

Standard Compliance/Certifications

- UL Listed
- RoHS Certified
- ETL Verified 4-connector channel to ANSI/TIA-568.2-E and ISO/IEC 11801-1

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