

Category 6 U/UTP 23AWG 4-Pair LSZH Cable (305m Box) - Grey

High-performance 100% solid bare copper networking cable with central cross separator, engineered for high-bandwidth data transmission, low crosstalk, and enhanced fire safety compliance.

STANDARDS & COMPLIANCE

ISO/IEC 11801

ANSI/TIA-568.2-D

EN 50173

IEC 60332-1

RoHS Compliant

PHYSICAL CONSTRUCTION

Conductor Material	Solid Bare Copper (100% Pure)
Conductor Size	23 AWG (0.57mm ±0.01mm)
Number of Pairs	4 Twisted Pairs
Insulation Material	High-Density Polyethylene (HDPE)
Pair Separator	PE Cross Spline Divider
Jacket Material	Low Smoke Zero Halogen (LSZH)
Outer Diameter	6.0mm ± 0.3mm
Jacket Color	Grey
Packaging Length	305 Meters (1000 ft) Easy-Pull Box

ELECTRICAL CHARACTERISTICS

Frequency Range	1 - 250 MHz
Characteristic Impedance	100 Ω ± 15 Ω (1-250 MHz)
DC Resistance (Max)	≤ 9.38 Ω / 100m @ 20°C
Resistance Unbalance	Max 5%
Mutual Capacitance	Nominal 5.6 nF / 100m
Capacitance Unbalance	Max 330 pF / 100m
Velocity of Propagation	67% - 69% (NVP)
Operating Voltage	Max 72V DC

MECHANICAL & ENVIRONMENTAL SPECIFICATIONS

Bending Radius	≥ 8× Cable Diameter (Installation) ≥ 4× Cable Diameter (Operation)
Temperature Rating	Operation: -20°C to +60°C Installation: 0°C to +50°C
Fire Safety Standard	LSZH (Low Smoke Zero Halogen) - Reduced toxic and corrosive gas emissions

PAIR COLOR CODE

 Pair 1: Blue & White/Blue	 Pair 2: Orange & White/Orange
 Pair 3: Green & White/Green	 Pair 4: Brown & White/Brown

SUPPORTED APPLICATIONS

- 1000BASE-T Gigabit Ethernet & 100BASE-TX Fast Ethernet
- Power over Ethernet: IEEE 802.3af (PoE) & IEEE 802.3at (PoE+)
- High-definition Video Streaming and Digital Voice (VoIP)
- Structured cabling systems in commercial and residential buildings

