

Category 6 U/UTP Cable

Features and Benefits

- **Applications:**
 - Data Center & Telecommunications.
 - Enterprise & Office Networks
 - IP Surveillance & Security Systems
 - Residential & Commercial Installations
 - Versatile Use: Suitable for homes, offices, schools, retail, and hospitality networks. .
- **Key Features:**
 - Cat 6 supports frequencies up to 250 MHz..
 - Cat6 Supports 1 Gbps up to 100 m; 10 Gbps over shorter distances (≤55 m) — ideal for data centers, enterprise LANs, and server rooms.
 - Cat-6 U-UTP internal separators and tighter twists minimize alien crosstalk without shielding.
 - Suitable for Power over Ethernet applications (PoE/PoE+/4PPoE) according to IEEE 802.3af, Type 3 (PoE+) up to 60W.
 - The optional outer LSZH jacket is flame-retardant and produces minimal smoke and zero halogen gases during combustion.

Physical Specifications

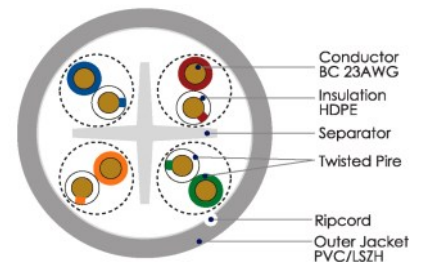
Category	6
No. of Pair & Conductor	4 PR /Solid bare copper / 23 AWG
Conductor Insulation & Size	HDPE/ Outer Dia. 0.97 ± 0.1 mm
Cable Type	U-UTP / Un-Shielded
Outer Jacket Material & Size	LSZH / Outer Dia. : 6.00 ± 0.35mm
Min. Bend Radius Installation	8x Cable-Ø
Operating Temperature	-10°C to +65°C
Storage Temperature	- 20°C to +75°C

Electrical Characteristics

Conductor resistance unbalance	≤ 2%
Delay skew 4.0-100Mhz	≤ 45 ns/100m
Max. DC resistance	≤ 9.0 Ω/100m
Insulation Resistance	≥5000 MΩ*km
Propagation Velocity at >10 MHz (NVP*c)	71 %
Bandwidth	250 MHz

Transfer Characteristics

Freq. MHz	RL ≥dB	ATT ≥dB	NEXT ≥dB	ACRF ≥dB	PS NEXT ≥dB	PS ACRF ≥dB
4	21.0	3.5	64.1	52.1	61.8	49.1
25	19.0	8.9	51.5	36.2	49.1	33.2
100	14.0	18.6	41.8	24.2	39.3	21.2
200	11.0	27.4	36.9	18.2	34.3	15.2
250	10.0	31.1	35.3	16.2	32.7	13.2



- **Standard:**
 - ISO/IEC 11801 Class E.
 - EN 50173-1 & EN 50288-6-1 .
 - ANSI/TIA-568.2-D
 - IEC 60332-1, (LSZH Version).
 - RoHS & REACH

Part No.	Type of Class	Type of Cable	Conductor Size	Outer Jacket	Outer Jacket Color Options	Packaging
CS-C6XUU23	CAT-6	U-UTP	23AWG	LSZH	Gray	305MBox- 500M/Reel