

Category 6A U/UTP Cable

Features and Benefits

- **Applications:**
 - Enterprise & Data Center Networks: 10G Ethernet (10GBASE-T) backbone cabling.
 - Residential & Commercial AV/IT & Financial Deployments.
 - Education & Healthcare Facilities
 - High-Speed PoE++ (802.3bt) Applications
 - Future-Proof Installations
- **Key Features:**
 - Cat 6A supports frequencies up to 500 MHz .
 - Cat6A Supports 10GBASE-T up to 100 m — ideal for data centers, enterprise LANs, and server rooms.
 - 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, IEEE ,802.3at and 802.3bt Type 4 (PoE++) up to 90W.
 - The optional outer LSZH/LSFRZH jacket is flame-retardant and produces minimal smoke and zero halogen gases during combustion.

Physical Specifications

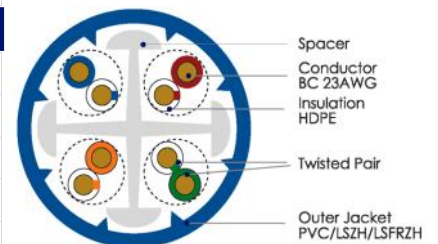
Category	6A
No. of Pair & Conductor	4 PR /Solid bare copper / 23 AWG
Conductor Insulation & Size	HDPE / Outer Dia. 1.06 ± 0.1 mm
Cable Type	U/UTP Un-Shielded
Outer Jacket Material & Size	LSFRZH / Outer Dia. : 6.90 ± 0.35mm
Min. Bend Radius Installation	8x Cable-Ø
Operating Temperature	-10°C to +65°C
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)	73 %
Bandwidth	500 MHz

Transfer Characteristics

Freq. MHz	RL ≥dB	ATT ≥dB	NEXT ≥dB	ACRF ≥dB	PS NEXT ≥dB	PS ACRF ≥dB
4	19.0	4.2	63.0	52.2	60.5	48.2
25	17.0	10.2	50.0	35.3	47.3	32.3
100	12.0	20.9	39.9	23.3	37.1	20.3
300	6.6	40.6	30.3	12.4	27.3	9.4
500	6.0	49.3	26.1	9.3	23.2	6.3



- **Standard:**
 - ISO/IEC 11801 Class EA.
 - EN 50173-1
 - ANSI/TIA-568.2-D
 - IEC 60332-1,2 (for LSZH),
 - IEC 60332-3-24/25, (for LSFRZH),
 - RoHS & CE

Part No.	Type of Class	Type of Cable	Conductor Size	Outer Jacket	Outer Jacket Color Options	Packaging
CS-C6AUU23	CAT-6A	U-UTP	23AWG	LSFRZH	Blue	500M - 1000M/Reel