

LT-CAT6A-UTP23A-PVC

CAT6A UTP 23AWG Solid Bare Copper Cable

The LT-CAT6A-UTP23A-PVC is a high-performance Category 6A cable designed for high-speed data transmission in indoor environments. Constructed with 23AWG solid conductors and Unshielded Twisted Pairs (UTP), it ensures excellent signal integrity and minimal crosstalk, making it ideal for 10 Gigabit Ethernet networks and other bandwidth-intensive applications.

Encased in a Polyvinyl Chloride (PVC) jacket, the cable is engineered to enhance fire safety by reducing toxic emissions, making it a reliable choice for enterprise data centers, commercial buildings, and secure communication infrastructures.

Key Features

- CAT6a solid UTP for high-speed data up to 1 Gbps
- CMR (riser) rated for vertical installations
- 23 AWG solid copper conductors
- Supports bandwidth up to 250 MHz
- Durable PVC jacket
- Standards compliant (TIA/EIA & ISO/IEC)

Key Highlights

- Supports PoE/PoE+ applications
- Low attenuation, minimal crosstalk
- Durable for long-term use
- Easy to install with color-coded pairs

Applications

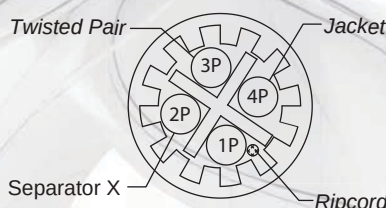
- Ideal for 10 Gigabit Ethernet (10GBASE-T), Gigabit Ethernet (1000BASE-T), and highspeed LAN connections in indoor environments

Cores Pairs

- P1 Blue & White/Blue
- P2 Orange & White/Orange
- P3 Green & White/Green
- P4 Brown & White/Brown

Standards Compliance:

- ANSI/TIA-568.2-D
- RoHS Compliant
- LSZH Rating



Specifications

Electrical Specifications	
Conductor	Solid Bare Copper, 23 AWG
Conductor Construction	1/0.59 mm
Insulation Material	PE
Nominal Insulation Thickness	0.28 mm
Nominal Insulation Diameter	1.15 mm
Jacket Material	PVC (Polyvinyl Chloride)
Nominal Jacket Thickness	0.65 mm
Outer Diameter	8.5 mm (±0.2 mm)
Electrical Characteristics (at 20°C)	
Max Conductor DC Resistance	93.8 Ω/km
Min Insulation Resistance	100 MΩ·km (PE)
Dielectric Strength	AC 500V/1 min
Performance	
Frequency Range	Up to 500 MHz
Attenuation (100 MHz)	19.1 dB
Tensile Strength of Jacket (kgf/mm²)	≥1.05
Operating Temperature	-20°C to +75°C
Packing List	
Box Size	365 x 365 x 370 cm
Pallet Size	1120 x 1120 x 120 mm
Quantity Per Pallet	36 Boxes

Frequency (MHz)	Attenuation (dB/100m)	NEXT (dB/100m)	PSNEXT (dB)	ACRF (dB/100m)	PSACRF (dB/100m)	RL (dB)	Delay (ns/100m)	PS ANEXT (dB/100 m)	PS AACRF (dB/100 m)
1	2.1	74.3	72.3	67.8	64.8	20	570	67	67
4	3.8	65.3	63.3	55.8	52.8	23	552	67	66.2
100	19.1	44.3	42.3	27.8	24.8	20.1	538	62.5	38.2
250	31.1	38.3	36.3	19.8	16.8	17.3	536	56.5	30.2

