

LTC6AUTPCM85

LAN Cable CAT6a Solid UTP CM

The LTC6AUTPCM85 is a high-performance Category 6A cable designed for high-speed data transmission in indoor environments. Constructed with 23AWG solid conductors and Foiled 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.

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

- Solid copper conductors for better performance
- CMR-rated jacket for safe vertical installations
- Twisted pair design reduces interference
- Color-coded wires for easy setup
- Backward compatible with Cat5/Cat5e
- Standards-compliant for reliable networking

Specifications

Specifications	
Conductor	Solid Bare Copper
Pairs	4 Twisted Pairs (8C)
AWG	23
Conductor Construction	1/0.59 mm
Insulation	PE, Nominal Thickness 0.28 mm ±0.02, Diameter 1.15 mm ±0.05
Separator	X-type (PE) cross
Ripcord	Yes
Jacket	PVC, Non-brightness (semi-matte) Blue with Black Marking
Jacket Thickness	0.65 mm
Outer Diameter	8.5 ± 0.2 mm
Rated Voltage	– (low-voltage communications)
Rated Temperature	75 °C
Product Standard Certification	UL CM
Flame Test	Not explicitly stated (CM rated for general use)
Reference Standard	UL 444
Max DC Conductor Resistance	80 Ω/km
Min Insulation Resistance	100 MΩ·m
Dielectric Strength	AC 500 V / 1 min
Mechanical – Jacket Tensile Strength	≥ 1.05 kgf/mm ²
Max Jacket Strip Length	40 mm



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Electrical Specifications

Frequency (MHz)	Attenuation (dB/100 m)	NEXT (dB/100 m)	PSNEXT (dB)	ACRF (dB/100 m)	PSACRF (dB/100 m)	RL (dB)	Delay (ns/100 m)	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
8	5.3	60.8	58.8	49.7	46.7	24.5	547	67	60.1
10	5.9	59.3	57.3	47.8	44.8	25	545	67	58.2
16	7.5	56.2	54.2	43.7	40.7	25	543	67	54.1
20	8.4	54.8	52.8	41.8	38.8	25	542	67	52.2
25	9.4	53.3	51.3	39.8	36.8	24.3	541	67	50.2
31.25	10.5	51.9	49.9	37.9	34.9	23.6	540	67	48.3
62.5	15	47.4	45.4	31.9	28.9	21.5	539	65.6	42.3
100	19.1	44.3	42.3	27.8	24.8	20.1	538	62.5	38.2
200	27.6	39.8	37.8	21.8	18.8	18	537	58	32.2
250	31.1	38.3	36.3	19.8	16.8	17.3	536	56.5	30.2
300	34.3	37.1	35.1	18.3	15.3	16.8	536	55.3	28.7
400	40.1	35.3	33.3	15.8	12.8	15.9	536	53.5	26.2
500	45.3	33.8	31.8	13.8	10.8	15.2	536	52	24.2
550*	47.7	33.2	31.2	—	—	14.9	—	—	—
600*	50.1	32.6	30.6	—	—	14.7	—	—	—

Applications

- Structured cabling for commercial and residential buildings
- High-speed Ethernet networks (10/100/1000 Mbps)
- Power over Ethernet (PoE) devices such as IP cameras and access points
- Data centers and server rooms
- VoIP and video conferencing systems

Industry Standards

- UL/CSA Listed CMR
- Verified to ANSI/TIA-568-C.2 CAT.6A

