

LTC6AUCMR73

LAN Cable CAT6a Solid FTP CMR

The LTC6AUCMR73 LAN Cable CAT6a Solid FTP CM is a high-performance Ethernet cable designed for advanced data transmission in demanding network environments. Engineered with solid copper conductors and Foiled Twisted Pair (FTP) shielding, it minimizes electromagnetic interference and ensures reliable, high-speed connectivity.

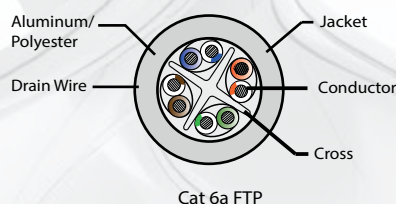
Ideal for structured cabling in commercial buildings, data centers, and enterprise networks, this CAT6a cable supports up to 10 Gigabit Ethernet over distances up to 100 meters. Its CM-rated jacket makes it suitable for general-purpose communications wiring within walls and ceilings, delivering robust performance and enhanced durability.

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 0.29 mm ± 0.05 , Diameter 1.17 mm ± 0.05
Separator	X-type (PE) cross
Shield	Aluminum/Polyester Tape $\geq 125\%$ + Polyester Tape
Drain Wire	Stranded Tinned Copper 7/0.20 mm
Ripcord	Yes
Jacket	PVC, Non-brightness (semi-matte) Blue with Black Marking
Jacket Thickness	0.6 mm
Outer Diameter	7.3 ± 0.2 mm
Rated Voltage	—
Rated Temperature	75 °C
Product Standard Certification	UL CM
Flame Test	CM rated
Reference Standard	UL 444
Max DC Conductor Resistance	80 Ω /km
Min Insulation Resistance	100 M Ω ·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

Freq (MHz)	Atten (dB/100 m)	NEXT (dB)	PSNEXT (dB)	ACRF (dB)	PSACRF (dB)	RL (dB)	Delay (ns/100 m)	PS ANEXT (dB)	PS AACRF (dB)
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 CM
- Verified to ANSI/TIA-568-C.2 CAT.6A

