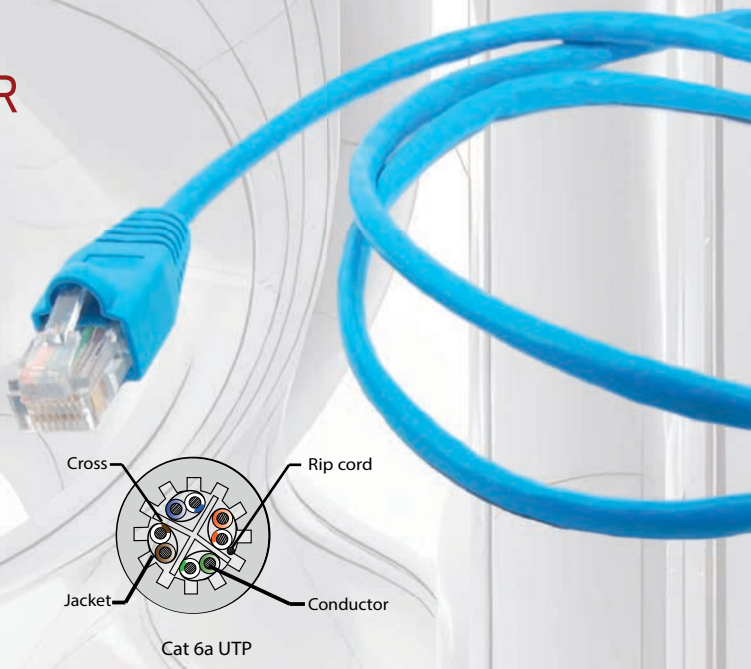
LTC6AUCMR85

LAN Cable CAT6a Solid UTP CMR



Cat 6a UTP

The LTC6AUCMR85 LAN Cable is a high-performance CAT6a solid UTP cable designed for reliable and fast data transmission in structured network environments. Rated CMR (Riser), it is suitable for vertical runs between floors in commercial or residential buildings, ensuring safety and compliance with building codes. This cable supports 10 Gigabit Ethernet over longer distances, making it ideal for high-speed networking applications such as offices, data centers, and multimedia installations.

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.

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 Features

- Enhanced Crosstalk Reduction: Minimizes interference for stable high-speed data.
- Flame-Retardant Jacket: CMR-rated for safe in-wall and riser installations.
- Standards Compliance: Meets ANSI/TIA-568-C.2, ISO/IEC 11801, RoHS, UL.
- Durable & Reliable: Solid copper core for long-term performance.

Key Features

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	–
Rated Temperature	75 °C
Product Standard Certification	UL CMR
Flame Test	FT4 (implied by CMR rating)
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/mm²
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