

# LAN SYSTEM PRODUCTS

CAT6 UTP CABLE INDOOR CMR / CMX / LSZH.



## PRODUCT DESCRIPTION

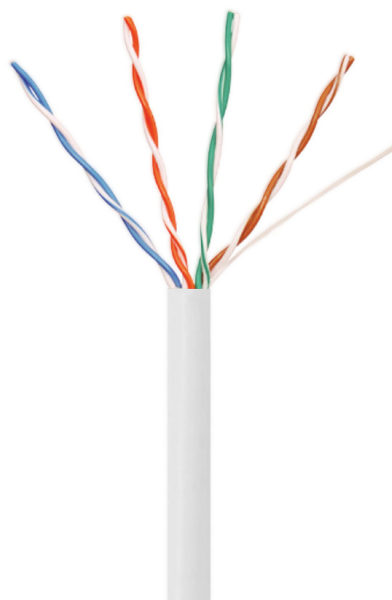
High-Performance Data Cable. Indoor UV Rated Jacket. Self-supporting.  
4 twisted-Pair cable, Using solid bare copper conductor 23-24 AWG,  
insulated with CMX/CMR/LSZH Jacket

## APPLICATION

1000BAS-T (IEEE802.3ab Gigabit Ethernet) 100BASE-TX (IEEE802.3u Fast Ethernet) ,10BASE-T(IEEE802.3Ethernet) ,52/155/622 Mbps and 1.2Gbps ATM, 10GBASE-T(IEEE 802.3an 10Gigabit Ethernet 55m), POE,POE+(IEEE802.3af, IEEE802.3at) ,TP-PMD, TPDDI, ISDN, VOIP, Analog & Digital Voice, Digital & Analog Video,4/16Mbps Token Ring 2.5G BASE-T, 5G BASE-T (IEEE802.3bz)

## STANDARD

- ANSI/TIA-568-C.2 Category 6, ANSI-TIA/EIA-568-B.2 Category 6, TIA/EIA-568 A/B Category 6 , ANSI/TIA-568.2-D
- ISO/IEC11801:2017, ISO/IEC 11801:2002 Class E
- EN50173 Category 6, EN50288-3-1, EN 50288-6-1 , EN 50173-1
- IEC61156-5, NEC800 , UL444
- NEMA MC63.1, NEMAWC63.1 ICEAS-90-661 Category 6
- ICEA S-102-700 Category 6
- RoHS Compliant



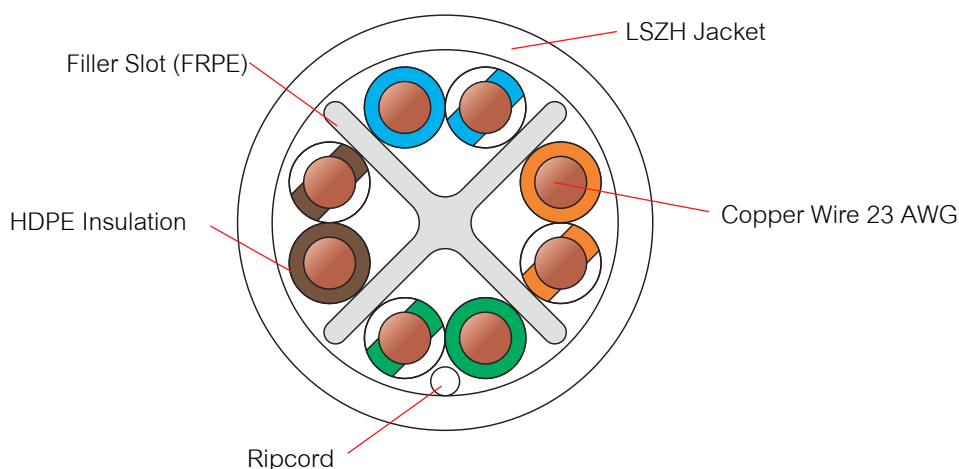
L-UIM6-SJ-CMX



L-UIM6-SJ-CMR,LSZH

## TEMPERATURE

- Installation - 40 °C to 60 °C
- Operating - 40 °C to 60 °C
- Storage - 40 °C to 80 °C



## CONSTRUCTION OF CABLE

Conductor	Material	Solid bare copper (BC)
	Diameter	23-24 AWG (0.51-0.52mm)
Insulation	Material	HDPE (High Density Polyethylene)
	Diameter	1.03 ± 0.2 mm
Outer jacket	Material	PVC CMX/CMR/LSHZ
	Thickness	1.0 ± 0.2 mm
Ripcord	Under jacket	
Twisting Pair lay Length	<38 mm	
Labling Lay Length	<120 mm	
Separator	FRPE Isolator Separator	
Pair Colors	Pair1	White/Blue -Blue
	Pair2	White/Orange -Orange
	Pair3	White/Green- Green
	Pair4	White/Brown-Brown
Diameter	5.5 ± 0.2 mm.	

## ELECTRICAL CHARACTERISTICS & PHYSICAL PROPERTY

Impedance	100+/- 15Ω@600MHz
Mutual Capacitance	5.6nF Max/100 m
Attenuation	32.8 dB / 250Mhz
Return Loss	17.4 dB / 250Mhz
PS NEXT	39.5 dB / 250Mhz
Conductor	<8.2 Ohm/100m
Voltage endurance	DC 1500V/min
Rating Temp Voltage	75 C, 300 Volts
Sheath Thickness	0.55 mm
tensile load	110N(CMR Rate)
Capacitance, Unbalance	160pF Max/100 m
DC Resistance	6.658Ω Max/100 m
DC Resistance, Unbalance	5.0% Max
Insulated Resistance	5000 MΩ/Km
Propagation Delay	536 ns/ 100 m Max @ 600MHz
Delay Skew	40ns/100m
NVP	69%
Flame Rating	Ultimate Breaking Strengt <- 400 N , CMX (UL444)
Minimum Bending Radius	Install 8 X Cable Diameter
	After Install 4 X Cable Diameter

## TRANSMISSION PERFORMANCE

FREQUENCY (MHZ)	INSERTION LOSS (dB/100)	NEXT MIN. (dB)	ACR MIN. (dB)	PS.NEXT MIN. (dB)	PS.ACR MIN. (dB)	ELFEXT MIN. (dB/100)	ARC-F MIN. (dB/100)	PS. ELFEXT MIN. (dB/100)	RL MIN.(dB)
1	2.0	78.0	76.0	76.0	73.5	69.0	69.0	66.0	20.0
31.25	10.7	56.0	45.3	54.0	42.8	38.5	38.5	35.6	23.6
62.5	15.4	50.5	35.1	52.2	33.0	33.0	33.0	29.5	21.5
100	19.8	47.5	27.7	49.8	25.6	28.5	28.5	25.8	20.1
155	25.1	45.0	19.7	47.2	17.2	25.0	25.0	23.0	18.8
200	29.0	44.4	15.4	45.0	12.3	22.5	22.5	21.7	18.0
250	32.0	45.9	10.9	45.2	6.5	24.2	24.2	18.0	25.3

## ORDER INFORMATION

PRODUCT	PART NUMBER
Cat6 UTP Cable 24AWG(0.51mm), 250MHz, CMX	L-UIM6-SJ-CMX
Cat6 UTP Cable 23AWG(0.52mm), 250MHz, CMR	L-UIM6-SJ-CMR
Cat6 UTP Cable 23AWG(0.52mm), 250MHz, LSHZ	L-UIM6-SJ-LSZH