

# LAN SYSTEM PRODUCTS

Cat6A UTP Cable 23AWG, Copper 0.57mm, 550MHz, CMR



## PRODUCT DESCRIPTION

High-Performance Data Cable. Outdoor UV Rated Jacket. Self-supporting.  
4 twisted-Pair cable, Using solid bare copper conductor 23 AWG,  
insulated with HDPE Jacket

## APPLICATION

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

## STANDARD

ANSI/TIA-568-C.2 Category 6A, ANSI/TIA-568.2-D Category 6A,  
ISO/ICE 11801:2002 Class EA, ISO/ICE 11801:2017 Class EA,  
EN 50173-1 Category 6A, ICEA S-102-700 Category 6A,EN 50288-6-1,  
EN 50288-10-1,NEMA WC 66, IEC61156-5,ASTM, D4566-98,  
ICE 60332-1, IEC61034-2, IEC60754-2,UL/CSA Listed CM,CMR,  
CMP and LSZH,ETL and 3P Verify to ANSI/TIA-568-C.2 CAT6 A,  
UL, RoHS Compliant.

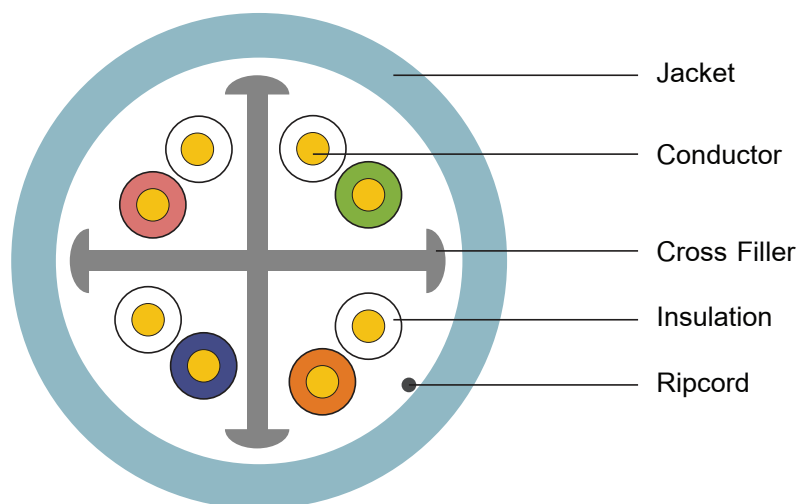
## TEMPERATURE

Installation - 40 °C to 75 °C

Operating - 40 °C to 75 °C

Storage - 40 °C to 80 °C

Rating Temp Voltage 75 °C, 300Volts



## ONSTRUCTION OF CABLE

Conductor	Material	Solid bare copper
	Diameter	23 AWG (0.57mm)BC
Insulation	Material	1.02 mm HDPE
	Diameter	0.90±0.5 mm.
jacket	Material	LSZH
Cross Filler Slot	Material	FRPE
Ripcord	Under jacket	
pair colors	Pair1	White/Blue-Blue
	Pair2	White/Orange -Orange
	Pair3	White/Green-Green
	Pair4	White/Brown-Brown
Diameter	7.6 mm.	

## ELECTRICAL CHARACTERISTICS & PHYSICAL PROPERTY

Impedance	100+/-15Ω, 1MHz to 550 MHz
Mutual Capacitance	5.6nF Max/100 m
Capacitance, Unbalance	160pF Max/100 m
DC Resistance	6.65Ω Max/100 m
DC Resistance, Unbalance	4% Max
Insulated Resistance	5000 MΩ/Km
Dielectric Strength	1KV/min
Propagation Delay	534 ns/ 100 m Max @ 550MHz
Delay Skew	25 ns Max
Tensile Strength	110 N (25lbf)
Ultimate Breaking Strength	>400 N(90lbf)
Installation / Operating Temperature	-20°C to 60°C
Storage Temperature	-20°C to 80°C
Minimum Bending Radius	Install 8 X Cable Diameter
	After Install 4 X Cable Diameter

## TRANSMISSION PERFORMANCE

FREQUENCY (MHZ)	INSERTION IOSS (dB/100)	NEXT MIN. (dB)	PSNEXT MIN. (dB)	ACRF MIN. (dB)	PS.ACRF MIN. (dB)	PS ANEXT MIN. (dB)	PS AACRF (dB/100)	RL MIN(dB)
1	2.0	78.3	76.3	71.8	68.8	67.0	67.0	20.0
31.25	10.4	55.9	53.9	41.9	38.9	67.0	48.3	25.6
62.5	14.9	51.4	49.4	35.9	32.9	65.6	42.3	23.5
100	19.0	48.3	46.3	31.8	28.8	62.5	38.2	22.1
200	27.5	43.8	41.8	25.8	22.8	58.0	32.2	20.0
250	31.0	42.3	40.3	23.8	20.8	56.5	30.2	19.3
300	34.2	41.1	39.3	22.3	19.3	55.3	28.7	18.8
500	45.3	37.8	35.8	17.8	14.8	52.0	24.2	17.5
550	47.7	37.2	35.2	-	-	-	-	17.2

## ORDER INFOMATION

PRODUCT	PART NUMBER
Cat6A UTP Cable 23AWG, Copper 0.57mm, 550MHz, CMR	L-UI6A-SJ-CMR