

# LAN SYSTEM PRODUCTS

CAT6 UTP CABLE OUTDOOR DOUBLE JACKET



## PRODUCT DESCRIPTION

High-Performance Data Cable. Can be installed both outdoors and indoors  
Self-supporting.4 twisted-Pair cable, Using solid bare copper conductor 23 AWG,  
Cross Filler insulated with HDPE Jacket

## APPLICATION

1000BASE-T (IEEE802.3ab Gigabit Ethernet), 10/100/1000 Mbps Standard UTP 6E,100BASE-TX (IEEE802.3 i/u/ab Fast Ethernet), 10BASE-T(IEEE802.3 Ethernet)52/155/622 Mbps and 1.2Gbps ATM, 2.5G/5G Base-T(IEEE802.3bz),  
10GBASE-T(IEEE802.3an 10Gigabit Ethernet, 55m),POE,POE+ (IEEE802.3af,IEEE802.3at) TP-PMD, 100 Mbps TPDDI, ISDN, VOIP, Analog & Digital Voice,Digital & Analog Video, 10 BASE-T,Broadband video, Digital & Analog For data,video& audio application, 4/16Mbps Token Ring, HD BaseT 2.0 standard, Baseband,Broadband.

## STANDARD

- ANSI/TIA-568-C.2 Category 6, ANSI/TIA-568.2-D,ANSI-TIA/EIA-568-B.2 Category 6,
- ISO/IEC 11801:2002 Class E, ISO/IEC 11801:2017 Class E,
- IEC 61156-5 , IEC 60332-1
- EN 50173-1 Category 6, EN 50288-6-1
- ICEA S-102-700 Category 6,
- NEMA WC 66, ASTM, D4566-98,
- UL/CSA Listed CM,CMR,CMP and LSZH, ETL and 3P Verify to TIA-568-C.2 CAT6
- UL444 , NEC800 , RoHS Complian.

## TEMPERATURE

Installation - 40 °C to 75 °C

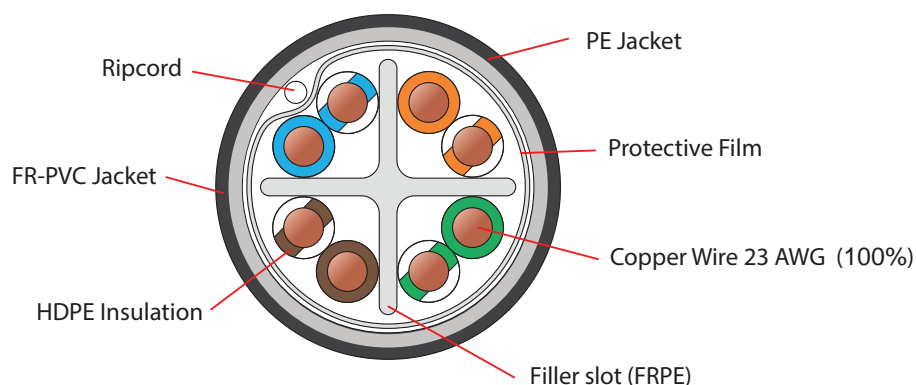
Operating - 40 °C to 75 °C

Storage - 40 °C to 80 °C

Rating Temp Voltage 75 °C, 300Volts



L-UO6-DJ



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## CONSTRUCTION OF CABLE

Conductor	Material	Solid bare copper
	Diameter	23 AWG (0.57mm)BC
Insulation	Material	HDPE
	Thickness	1.02 mm
	Diameter	1.5 ± 0.5 mm.
Outer jacket	Material	PE ,UV Proof
Inner jacket	Material	Lead free ,FR-PVC , 6.1 ± 0.1 mm.
Ripcord	Under jacket	
Pair Colors	Pair1	White/Blue-Blue
	Pair2	White/Orange -Orange
	Pair3	White/Green-Green
	Pair4	White/Brown-Brown
Diameter	7.4 ± 0.2mm	
Tensile	120 N	

## ELECTRICAL CHARACTERISTICS & PHYSICAL PROPERTY

Impedance	100+/- 15Ω
Mutual Capacitance	5.6nF Max/100 m
Capacitance, Unbalance	160pF Max/100 m
DC Resistance	6.658Ω Max/100 m
DC Resistance, Unbalance	2.5% Max
Insulated Resistance	5000 MΩ/Km
Dielectric Strength	1KV/min
Propagation Delay	536 ns/ 100 m Max @ 600MHz
Delay Skew	30 ns Max
NVP	69%
Flame Rating	CMX (UL444)
Minimum Bending Radius	Install 8 X Cable Diameter
	After Install 4 X Cable Diameter
Tension	16.5 MPa or 2400 PSI

## TRANSMISSION PERFORMANCE

FREQUENCY (MHZ)	INSERTION LOSS (dB/100)	NEXT nom (dB)	ACR MIN. (dB)	PS.NEXT nom (dB)	PS.ACR MIN. (dB)	ELFEXT MIN. (dB/100)	ARC-F nom (dB/100)	PS. ELFEXT MIN. (dB/100)	RL nom (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	28.69	45.9	10.9	45.2	6.5	24.2	24.2	18.0	25.3
300	32.8	41.5	4.9	40.7	1.9	18.5	18.5	15.6	16.8
400	39.7	38.5	N/A	37.5	N/A	16.5	16.5	13.7	15.9
550	48.9	36.7	N/A	34.5	N/A	13.5	13.5	10.7	14.9
600	51.1	39.5	N/A	36.5	N/A	22.7	15.0	10.0	22.7

## ORDER INFORMATION

PRODUCT	PART NUMBER
Cat6 UTP Cable, Outdoor Double Jacket, 23AWG, 600MHz	L-UO6-DJ