LAN SYSTEM PRODUCTS

CAT6 UTP CABLE OUTDOOR SINGLE JACKET.

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

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

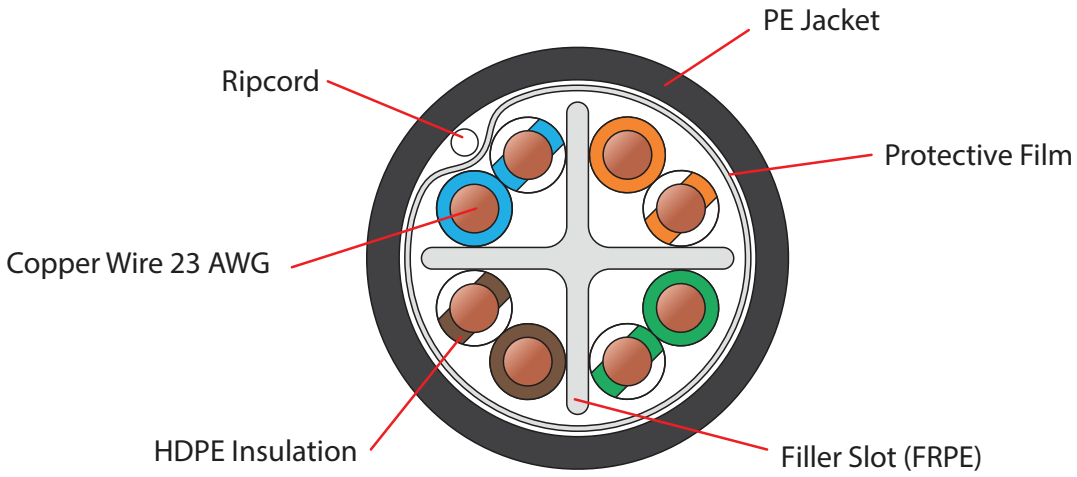
STANDARD

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

TEMPERATURE

Installation - 40 ^{O}C to 75 ^{O}C
Operating - 40 ^{O}C to 75 ^{O}C
Storage - 40 ^{O}C to 80 ^{O}C
Rating Temp Voltage 75 ^{O}C, 300Volts

L-UO6-SJ



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ONSTRUCTION OF CABLE

Conductor	Material	Solid bare copper (BC)
	Diameter	23 AWG (0.57mm)
Insulation	Material	HDPE
	Thickness	1.02 mm
	Diameter	1.5 ± 0.5 mm.
Outer jacket	Material	PE ,UV Proof
	Thickness	1.2 ± 0.2 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 ± 0.2 mm	

ELECTRICAL CHARACTERISTICS & PHYSICAL PROPERTY

Impedance	100+/ -15Ω @1-600 MHz
Mutual Capacitance	5.6nF Max/100 m
Capacitance, Unbalance	160pF Max/100 m
DC Resistance	9.38Ω Max/100 m
DC Resistance, Unbalance	2% Max
Insulated Resistance	5000 MΩ/Km
Propagation Delay	536 ns/ 100 m Max @ 600MHz
Delay Skew	25 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

TRANSMISSION PERFORMANCE

FREQUENCY (MHZ)	INSERTION IOSS (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
300	36.4	41.5	4.9	40.7	1.9	18.5	18.5	15.6	16.8
400	43.0	38.5	N/A	37.5	N/A	16.5	16.5	13.7	15.9
550	51.8	36.7	N/A	34.5	N/A	13.5	13.5	10.7	14.9
600	54.5	39.5	N/A	36.5	N/A	22.7	15.0	10.0	22.7

ORDER INFOMATION

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