

LAN SYSTEM PRODUCTS

CAT6 UTP Cable – Outdoor Double Jacket



PRODUCT DESCRIPTION

High-performance data cable with UV-rated outdoor jacket and self-supporting structure. Features 4 twisted pairs using solid bare copper conductors (23 AWG), insulated with an HDPE jacket.

APPLICATION

1000BASE-T (IEEE 802.3ab Gigabit Ethernet),
10/100/1000 Mbps standard UTP Cat6,
100BASE-TX (IEEE 802.3u Fast Ethernet),
10BASE-T (IEEE 802.3 Ethernet),
52/155/622 Mbps and 1.2 Gbps ATM, 2.5G/5G BASE-T (IEEE 802.3bz),
10GBASE-T (IEEE 802.3an, 10G Gigabit Ethernet, 55m),
POE/POE+ (IEEE 802.3af, 802.3at),
TP-PMD, 100 Mbps TPDDI, ISDN, VOIP,
Analog & Digital Voice, Digital & Analog Video,
10 BASE-T Broadband video, 4/16 Mbps Token Ring, HD BaseT 2.0 Standard.

STANDARD

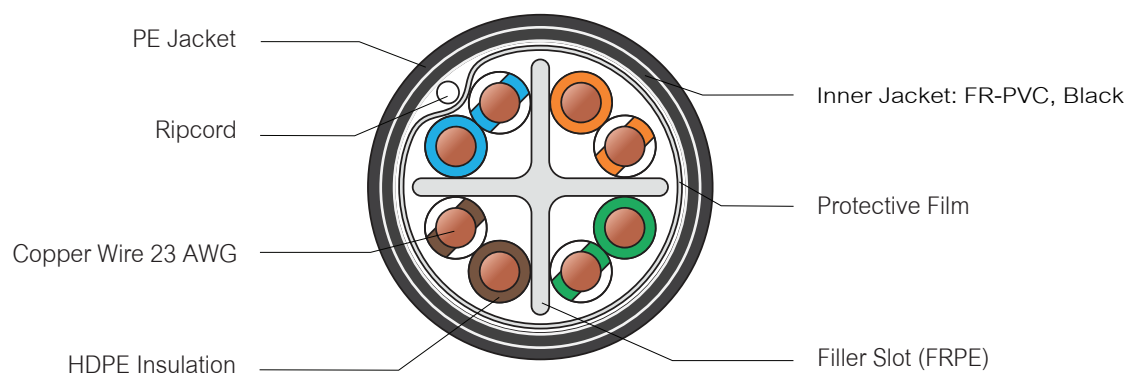
- ANSI/TIA-568-C.2, ANSI/TIA/EIA-568-B.2, TIA/EIA-568A/B – Category 6
- EN 50173-1, ANSI/TIA-568.2-D
- ISO/IEC 11801:2017, ISO/IEC 11801:2002 Class E
- EN 50173 Category 6, EN 50288-3-1, EN 50288-6-1
- IEC 61156-5, NEC 800, UL 444
- NEMA WC63.1, ICEA S-90-661 – Category 6
- ICEA S-102-700 – Category 6
- RoHS Compliant

TEMPERATURE

- Installation: –40 °C to + 75 °C
- Operating: –40 °C to + 75 °C
- Storage: –40 °C to + 80 °C
- Rated Temperature & Voltage: 75 °C, 300 V



L-UO6-DJ



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CONSTRUCTION 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	1.3 ± 0.5 mm
Inner jacket	Material	FR-PVC (Black),Lead Free
	Thickness	1.0 ± 0.5 mm
	Diameter	6.1 ± 0.5 mm
Ripcord	Under jacket, Nylon Yarn	
Pair Colors	Pair 1: White/Blue – Blue	
	Pair 2: White/Orange – Orange	
	Pair 3: White/Green – Green	
	Pair 4: White/Brown – Brown	
Diameter	7.4 ± 0.2 mm.	

ELECTRICAL & PHYSICAL PROPERTIES

Impedance	100+/-15Ω, 1MHz to 600MHz
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
Propagation Delay	536 ns/ 100 m Max @ 600 MHz
Dielectric Strength	1 kV/min
Delay Skew	30 ns Max
NVP	69 %
Flame Rating	CMX (UL444)
Minimum Bending Radius	Install: 8 × Cable Diameter /
	Operation: 4 × Cable Diameter
Tension	9.7 MPa or 1400 PSI

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)	AFEXT 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	28.69	42.9	10.9	43.2	6.5	24.2	21.2	18.0	17.3
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	36.5	N/A	34.5	N/A	22.7	13.0	10.0	14.7

ORDER INFORMATION

PRODUCT	PART NUMBER
Cat6 UTP Cable with Outdoor UV-Resistant Double Jacket, Solid Bare Copper, 23 AWG, 600 MHz	L-UO6-DJ