

LAN SYSTEM PRODUCTS

CAT6 UTP Cable Outdoor Drop Wire – Double Jacket



PRODUCT DESCRIPTION

High-performance data cable for both indoor and outdoor installation.

Self-supporting, 4 twisted-pair cable with 23 AWG solid bare copper conductor, cross-filler, and HDPE insulation with durable double 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
- 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 Verified to TIA-568-C.2 CAT6
- UL444, NEC800, RoHS Compliant

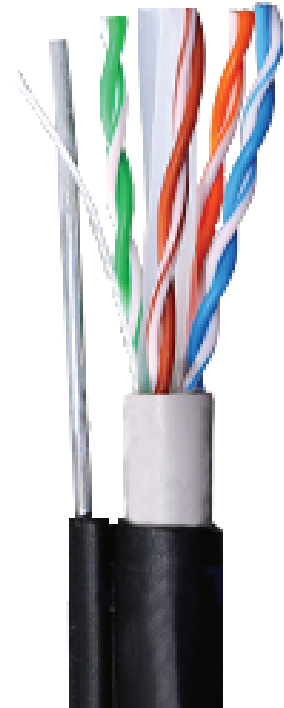
TEMPERATURE

Installation: -40°C to +75°C

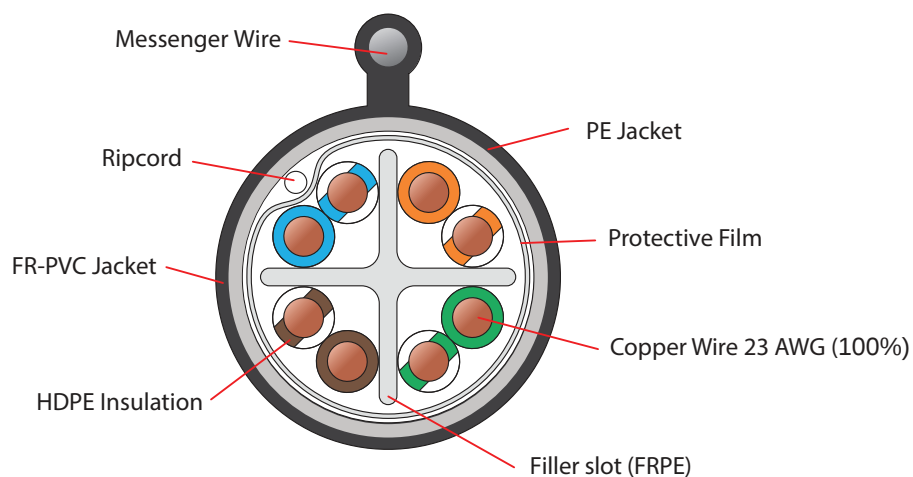
Operating: -40°C to +75°C

Storage: -40°C to +80°C

Voltage Rating: 75°C / 300 Volts



L-UO6-DW-DJ



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CONSTRUCTION OF CABLE

Conductor	Material	Solid bare copper
	Diameter	23 AWG (0.57 mm)
Insulation	Material	HDPE (High-Density Polyethylene)
	Thickness	1.02 mm
	Diameter	1.5 ± 0.5 mm
Inner Jacket	Material	FR-PVC, 6.10 ± 0.2 mm
Outer Jacket	Material	PE (UV-resistant, Lead-free)
Messenger Wire	Material	Galvanized Steel Wire, 1.3 ± 0.2 mm
Ripcord	Installed under jacket	
Pair Colors	Pair 1: White/Blue – Blue	
	Pair 2: White/Orange – Orange	
	Pair 3: White/Green – Green	
	Pair 4: White/Brown – Brown	
Nominal Diameter (Cable)		7.4 ± 0.2 mm
Overall Diameter (incl. Messenger)		10.4 ± 0.5 mm
Tensile Strength		150 N

ELECTRICAL CHARACTERISTICS & PHYSICAL PROPERTIES

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 Compliant)
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 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	28.69	42.9	10.9	43.2	6.5	21.2	21.2	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	36.5	N/A	34.5	N/A	13.0	13.0	10.0	22.7

ORDER INFORMATION

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