

# LAN SYSTEM PRODUCTS

CAT6 UTP CABLE OUTDOOR DROP WIRE With 2 POWER DOUBLE 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

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/ICE 11801:2002 Class E, ISO/ICE 11801:2017 Class E,  
ISO/IEC11801:2017, IEC61156-5, ISO/IEC 11801:2017
- EN 50173-1 Category 6, EN 50288-6-1
- ICEA S-102-700 Category 6, IEC 60332-1
- 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 Compliant.

## TEMPERATURE

Installation - 40 °C to 75 °C

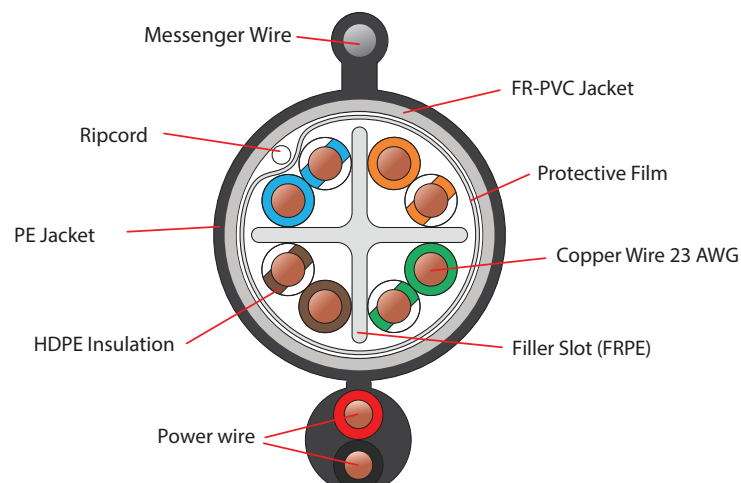
Operating - 40 °C to 75 °C

Storage - 40 °C to 80 °C

Rating Temp Voltage 75 °C, 300Volts



L-UO6-DW2P-DJ



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 , Lead free    |
| Inner jacket   | Material                   | FR-PVC                      |
| Messenger Wire | Material                   | Galvanize Steel Wire 1.3 mm |
| Power Cords    | 1.0mm 2X9X0.38mm CCA       |                             |
| 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        | 150 N                      |                             |

ELECTRICAL CHARACTERISTICS & PHYSICAL PROPERTY

|                          |                                  |
|--------------------------|----------------------------------|
| Impedance                | 100+/-15Ω                        |
| 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                       |
| Dielectric Strength      | 1KV/min                          |
| Propagation Delay        | 536 ns/ 100 m Max @ 600MHz       |
| Delay Skew               | 25 ns Max                        |
| NVP                      | 69%                              |
| Voltage                  | 300 Volts AC or DC               |
| 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<br>(MHZ) | INSERTION IOSS<br>(dB/100) | NEXT<br>MIN. (dB) | ACR<br>MIN. (dB) | PS.NEXT<br>MIN. (dB) | PS.ACR<br>MIN. (dB) | ELFEXT MIN.<br>(dB/100) | ARC-F<br>MIN. (dB/100) | PS. ELFEXT<br>MIN. (dB/100) | RL<br>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 Drop Wire with 2Power, Double Jacket, 24AWG, 600MHZ | L-UO6-DW2P-DJ |