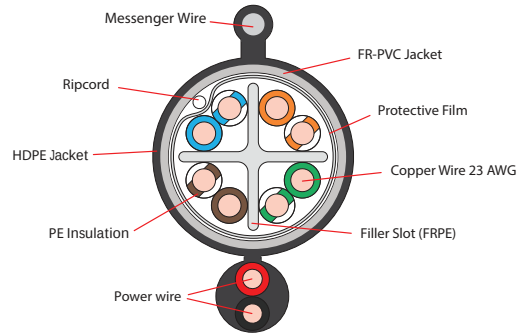
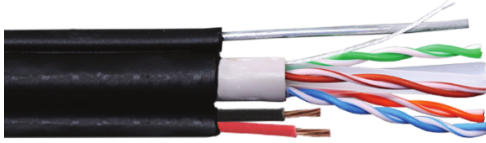


CAT6 UTP with power wire

Dropwire Outdoor Double Jacket UTP, 23AWG



Application

Category 6 4-Pair Outdoor UTP with Messenger Wire, Double Jacket 23AWG solid bare copper and power wire. Cable provides significant headroom above all TIA/EIA and ISO/IEC category 6/class E transmission performance specifications. Our high performance category 6 connectivity with 305m (1,000ft) easy pull out reels.

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, ISO/IEC 11801:2017, 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

Applications

- 4/16 Mbps Token Ring (IEEE 802.5)
- 10Mbps 10Base-T Ethernet (IEEE 802.3u)
- 100Mbps 100Base-TX Fast Ethernet (IEEE 802.3u)
- 100 VG ANYLAN (IEEE 802.12)
- 52/155/622 Mbps ATM, 1.2 Gbps ATM
- 1000Mbps 1000Base-T Gigabit Ethernet (IEEE 802.3)
- 10G Base-T (55m)
- Digital and Analog for data, Video and Audio application
- ANSI X3T9.5 TPDDI, TP-PMD, ISDN
- Baseband, Boardband
- Voice over internet Protocol (VoIP)
- Power over Ethernet (PoE) IEEE 802.3af/at

Transmission Performance

Frequency	Attenuation (dB/100M)	NEXT (dB)	ACR (dB)	Return Loss (dB)	PS NEXT (dB)	PS ACR (dB)	ELFLEX (dB)	PS.ELFLEX (dB)
1.0 MHz	2.0	77.5	75.5	20.0	75.5	73.5	68.5	65.5
4.0MHz	3.8	68.5	64.7	23.0	66.5	62.7	56.5	53.5
8.0 MHz	5.3	64.5	59.2	24.5	62.5	57.1	50.5	47.5
10.0 MHz	6.0	62.5	56.5	25.0	60.5	54.4	48.5	45.5
16.0 MHz	7.6	59.6	51.9	25.0	57.6	49.9	44.5	41.5
20.0 MHz	8.5	58.5	50.1	25.0	56.5	48.0	42.5	39.5
25.0 MHz	9.5	56.5	47.0	24.3	54.5	44.9	40.6	37.5
31.25 MHz	10.7	55.5	44.8	23.6	53.6	42.9	38.4	35.5
62.5 MHz	15.4	50.5	35.1	21.5	48.5	33.1	32.5	29.5
100 MHz	19.8	47.5	27.7	20.1	45.5	25.6	28.5	25.5
155 MHz	25.3	44.5	19.2	18.8	42.5	17.2	24.5	17.5
200.0 MHz	29.0	43.5	14.5	18.0	41.5	12.3	22.5	21.6
250.0 MHz	32.8	41.6	8.7	17.4	39.5	6.5	20.5	17.6
300.0 MHz	36.6	40.5	3.9	16.8	38.5	1.9	18.4	15.6
350.0 MHz	40.0	39.5	-	16.3	37.5	-	17.5	14.4
400.0 MHz	43.0	38.5	-	15.9	36.5	-	16.5	13.5
450.0 MHz	46.3	38.5	-	15.6	36.5	-	15.5	12.5
500.0 MHz	48.9	37.5	-	15.3	35.6	-	14.5	11.5
550.0 MHz	52.0	36.5	-	14.9	34.5	-	13.5	10.5
600.0 MHz	54.7	36.5	-	14.7	34.5	-	12.5	9.5

CAT6 UTP with power wire

Dropwire Outdoor Double Jacket UTP, 23AWG

Electrical & Physical Specification

Impedance	100 +/- 15 Ohms, 1 MHz to 600 MHz
Mutual Capacitance	5.6 nF Max / 100m
Capacitance, Unbalance	160 pF Max / 100m
DC Resistance	9.38 ohm Max./1000m
DC Resistance, Unbalance	2% Max.
Dielectric Strength	1kV/min
Insulation Resistance	5000 MΩ/km
Propagation Delay	536 ns/100m Max @600MHz
Delay Skew	30 ns Max.
NVP	69%
Voltage	300 volts AC or DC
Flame Rating	CMX (UL 444)
Approvals	RoHS Compliant 2002/95/EC
Minimum Bending Radius	Install : 4 X Cable Diameter Operate : 8 X Cable Diameter
Tensile Strength	16.5 MPa (2400 psi)

Temperature Range

Operation Temperature	-40°C to +75°C
Installation Temperature	-40°C to +75°C
Storage/Shipping Temperature	-40°C to +80°C

Color Identification (IEC 60304)

- Pair 1 White-Blue/Blue
- Pair 2 White-Orange/Orange
- Pair 3 White-Green/Green
- Pair 4 White-Brown/Brown

Physical Specifications

UTP Cable	: 4 PAIR UTP CAT6 (600MHz)
Gauge	: 23 AWG (Solid bare copper)
Conductor Dia. Nom.	: 0.57 mm
Insulation Material	: HDPE
Filler slot	: FR-PE Isolator Separator
Insulation Dia.	: 1.00 +/- 0.02 mm
Conductor	: Solid Bare Copper
Twisting Pair Lay Length	: < 30 mm
Labling Lay Length	: < 120 mm
Power cords	: 18AWG (24 x 0.2 mm)
Inner Jacket	: FR-PVC, 6mm
Jacket	: Black PE, UV-Proof
Thickness	: 0.50 mm
Outer Diameter	: 6.5 +/- 0.2 mm
Messenger Wire (Galvanize Steel Wire)	: 1.3 +/- 0.2 mm
Strength Max. load	: 2400 PSI
Bending Min. install	: 4X
Operating/Installation Temp.	: -40 to 75 C
Storage Temp.	: -40 to 80 C

Electrical Specifications

Conductor resistance	: < 9.5 ohm/100m
Insulation resistance	: > 5000M-Ohm-Km (DC500V Charged 1 Min)
Voltage endurance	: DC 1500V/min
Mutual capacitance	: 5.6nF/100m
Capacitance, Unbalance	: 160 nf max/100 m
DC resistance unbalance	: 2.5%
Characteristic impedance	: 100 ohm +/- 15 ohm (1-250MHz)
Delay Skew	: 45ns/100m
DC Resistance @ 20C	: 66.5 ohm/Km (max)
Propagation Delay	: 536ns/100m.@ 250MHz
Rating Temp Voltage	: 75C, 300 volts