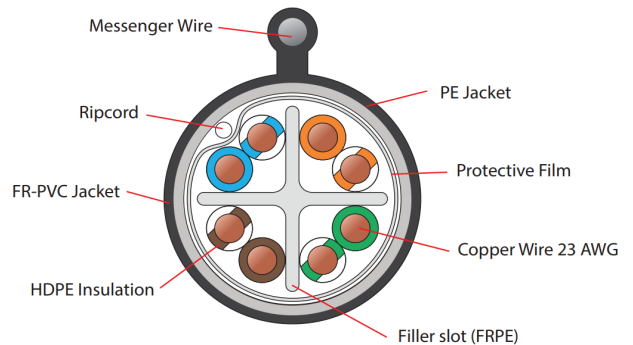
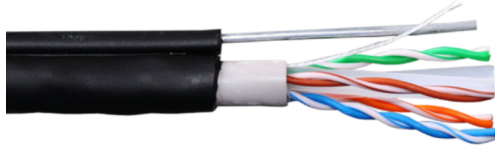


CAT6 UTP Cable

Dropwire Outdoor Double Jacket UTP, 23AWG



Application

Category 6 4-Pair Outdoor UTP with Messenger Wire and Double Jacket 23AWG solid bare copper, 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. These category 6 systems exceed ANSI/TIA/EIA-568-B.2-1 Category 6 performance requirements, providing usable bandwidth well beyond 600 Mhz. Category 6 cable and use for backbone ethernet lan gigabit network. It is designed for use in horizontal cabling situations and supplied in 305m (1,000ft) easy pull out reels. These category 6 systems exceed ANSI/TIA/EIA-568-B.2-1 Category 6 performance requirements, providing usable bandwidth well beyond 600 Mhz.

Standard

TIA/EIA- 568A/B/C.2 Category 6, ISO/IEC-11801 2002 (Edition 2) Class E, EN50173: 2002 (Ed.2), EN50288-3-1, ICEA S-102-700, EN 50173-1, ASTM D4566-98, IEC61156-5(2002), IEC 60332-1 and IEEE 802.3, NEMA WC 66, UL444 and cUL (CMR)

Applications

- 4Mbps Token Ring (IEEE 802.5)
- 10Mbps 10Base-T Ethernet (IEEE 802.3u)
- 16Mbps Token Ring (IEEE 802.5)
- 100Mbps Fast Ethernet (IEEE 802.3u, ANSI X3T9.5 TPDDI)
- 100 VG ANYLAN (IEEE 802.12)
- 155/622 Mbps ATM
- 1000Mbps 1000Base-T Gigabit Ethernet (IEEE 802.3)
- Broadband Video and voice, ISDN
- Voice over internet Protocol (VoIP)
- Power over Ethernet (PoE) - IEEE 802.3af, IEEE 802.3at
- Use Full high speed for IP Camera

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 Cable

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	66.58 ohm Max./1000m
DC Resistance, Unbalance	2.5% Max.
Dielectric Strength	1kV/min
Insulation Resistance	5000 MΩ/km
Propagation Delay	536 ns/100m Max @600MHz
Delay Skew	45 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 After Install : 8 X Cable Diameter
Tensile Strength	9.7 MPa (1400 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.	: 1.02 mm
Conductor	: Solid Bare Copper
Twisting Pair Lay Length	: < 30mm
Labling Lay Length	: < 120mm
Inner Jacket	: FR-PVC, 6mm
Jacket	: UV-PE (Polyethylene)
Thickness	: 0.50mm
Outer Diameter	: 7.2 mm
Messenger Wire	: 1.3mm Galvanize Steel Wire
strength Max. load	: 2400 PSI
Bending Min. install	: 4X
Operating Temperature Range	: -40 to 75 C
Storage Temperature Range	: -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