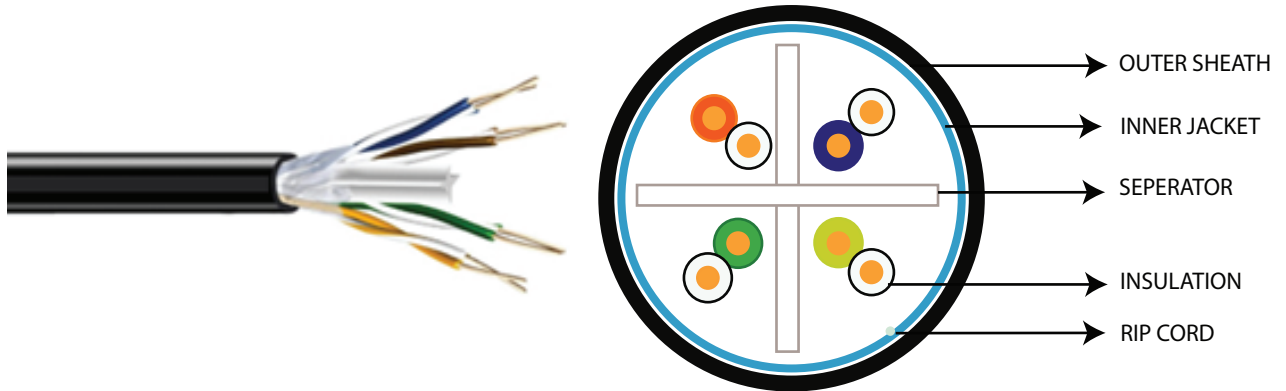


OUTDOOR RATED CAT6 UTP 23 AWG CABLE



DESCRIPTION

Datacom outdoor Unshielded cable is a robust category cable designed to provide an extension of the LAN beyond the premises or in situations where the NEC code requires an OSP-rated cable when it is in contact with the earth whether in a conduit or not.

The cable is constructed of 23-gauge copper conductors. It consists of 8 Copper Conductors, 2 conductors twisted together to form a pair. The cable jacket is made with UV-stabilized outdoor-rated PE material suitable for outdoor applications. The cable covers the category 6 requirements for unshielded twisted pair cables of 100 Ω and is characterized up to 250 MHz suitable for transmitting data over local area networks.

APPLICATION

- Indoor/Outdoor–Outdoor Ethernet Application.
- 10/100/1000 BASE-T Ethernet;
- CAT 6/5e: 10BASE-T through 1000BASE-T Ethernet
- Analogue Voice, ISDN, ADSL

DESIGN CONSIDERATIONS

- Use with Datacom Cat 6 unshielded connectors.
- Cat 6 unshielded patch panels, and Cat 6 unshielded patch cords to support 10 Gigabit Ethernet performance.

STANDARDS COMPLIANCE

- ANSI/TIA-568-D.2
- ISO/IEC 11801 2ND Edition
- ROHS COMPLIANT

FEATURES

- Assures ample overhead for reliable transmission in an OSP-rated cable allowing extension of the premises LAN.
- Prevents water ingress inner cable preventing damage to equipment.
- OSP-grade black polyethylene jacket ensures the Outside plant-rated cable for years of reliable performance
- The outer jacket is OSP-grade black, polyethylene for superior sunlight and abrasion resistance. This shielded design is suitable for the following deployments: Duct, underground conduit, Tower lashed aerial or open trench.

OUTDOOR RATED CAT6 UTP 23 AWG CABLE

TECHNICAL SPECIFICATIONS	
Mechanical Properties	
Bending Radius	≤ 8 x Cable Diameter
Pulling Tension, maximum	100 N
Electrical Properties (-20° C ± 5° C)	
Conductor Resistance (Ω/km)	93.8 (Max.)
Mutual Capacitance (nF/100M)	5.6 (Max.)
Resistance Unbalance (%)	5 (Max.)
Characteristic impedance (Ω)	100 ± 15
Nominal velocity of propagation	69 %
Worst Delay Skew	≤45
Environmental specifications	
Operation Temperature	-15 ~ +75 °C
Installation Temperature	0° C ~ +50° C
Packing information	
Packing Length	305±1.0 Meter
Packing Weight (K.G)	Net weight 11.9 kg

CONSTRUCTION	
Category	CAT 6 U/UTP Out door cable PE sheath
Conductor	Solid Bare Electrolytic Grade Copper 23 AWG(0.550 mm ±0.015 mm)
Insulation	High Density Polyethylene (HDPE)
Insulation diameter	0.990 mm ± 0.05 mm
Twisting	4 twisted pairs, 2 single conductors paired Twisted pair color code: 1: White Blue/Blue 2: Orange White/Orange 3: White Green/Green 4: Brown White/Brown
Cable lay-up	4 Pairs with different pitches
Outer diameter	6.0 mm ± 0.3 mm
Outer jacket Materials	PE (Black UV Protected)
Jacket Thickness	0.55 +/-0.05 mm
Separator Material	PE
Remote Powering	30 watts
Outer Screening Material	Aluminum-Magnesium alloy 0.12mm

TRANSMISSION CHARACTERISTICS						
Freq. (MHz)	IL (dB/100) max	NEXT ≤dB Min.	PSNEXT (dB) min.	ACRF (dB/100) min.	PSACRF (dB/100) min.	Return Loss (dB) min.
1	2.1	65.0	62.0	63.3	60.3	67.8
4	4.0	63.0	60.5	51.2	48.2	55.8
8	5.7	58.2	55.6	45.2	42.2	49.7
10	6.3	56.6	54.0	43.3	40.3	47.8
16	8.0	53.2	50.6	39.2	36.2	43.7
20	9.0	51.6	49.0	37.2	34.2	41.8
25	10.1	50.0	47.3	35.3	32.3	39.8
31.25	11.4	48.4	45.7	33.4	30.4	37.9
62.5	16.5	43.4	40.6	27.3	24.3	31.9
100	21.3	39.9	37.1	23.3	20.3	27.8
200	31.5	34.8	31.9	17.2	14.2	21.8
250	35.9	33.1	30.2	15.3	12.3	19.8

ORDERING INFORMATION

Description

Datacom Cat 6 U/UTP 4 Pair 23AWG Cable UV Stabilized
Outdoor Rated-PE305 M/Box Black

Part No.

DC-CBL-C6UT-PE