

CAT6 OUTDOOR DIRECT BURIAL BULK CABLE

23AWG • 4 Twisted Pairs • PE&PVC • FRPE • HDPE • Solid Bare Copper

This specification covers design requirements and performance standards for procurement of UTP CAT 6 (Unshield Twisted Pair) direct cable. TSP brand guarantees a stable quality control system for us from the factory. Cable products pass several programs including ISO 9001, ISO 14001 and ROHS.

// PRODUCT DESCRIPTION

Our shielded Cat6 outdoor waterproof direct burial ethernet network cable allows you to extend your internet connection even in the harshest environments. Its weatherproof double outer jacket will enable you to bury your lines underground while protecting your wires from various elements.



// APPLICATION

- 1000BASE-T (IEEE802.3ab Gigabit Ethernet)(10/100/1000BASE-T)
- 100BASE-TX (IEEE802.3u Fast Ethernet)
- 10BASE-T(IEEE802.3i Ethernet)
- 52/155/622 Mbps and 1.2Gbps ATM
- 10GBASE-T(IEEE 802.3an 10Gigabit Ethernet 55m)
- POE,POE+(IEEE802.3af, IEEE802.3at), HDBaseT2.0, TP-PMD, TPDDI, ISDN, VOIP
- Analog & Digital Voice, Digital & Analog Video
- 4/16Mbps Token Ring 2.5G BASE-T, 5G BASE-T (IEEE802.3bz)



Solid Pure Bare Copper 100%



4 Twisted Pairs

// STANDARD

- ANSI/TIA-568-C.2 Category 6, ANSI-TIA/EIA-568-B.2 Category 6, ANSI-TIA/EIA-568-B.2-1, ANSI/TIA-568.2-D
- TIA/EIA-568 A/B Category 6, TIA/EIA Category 6
- ISO/IEC11801:2017, ISO/IEC 11801:2002 Class E
- EN50173 Category 6, EN 50173-1 , EN50288-3-1, EN 50288-6-1
- IEC61156-5, NEC800 , UL444
- NEMA MC63.1, NEMAWC63.1 ICEAS-90-661 Category 6
- ICEA S-102-700 Category 6
- RoHS Compliant , UL Verified

// Marking

Unless otherwise specified, the cable sheath marking shall be as follows:

- Color: white.
- Contents: TSP, the year of manufacture, the type of cable, cable number, length marking , Name of organization in English, Thai, Chinese, etc.
- Format to choose from: screen, hot stamp, laser.
- Interval: 1 m.

(Outer sheath marking legend can be changed according to user's requests.)

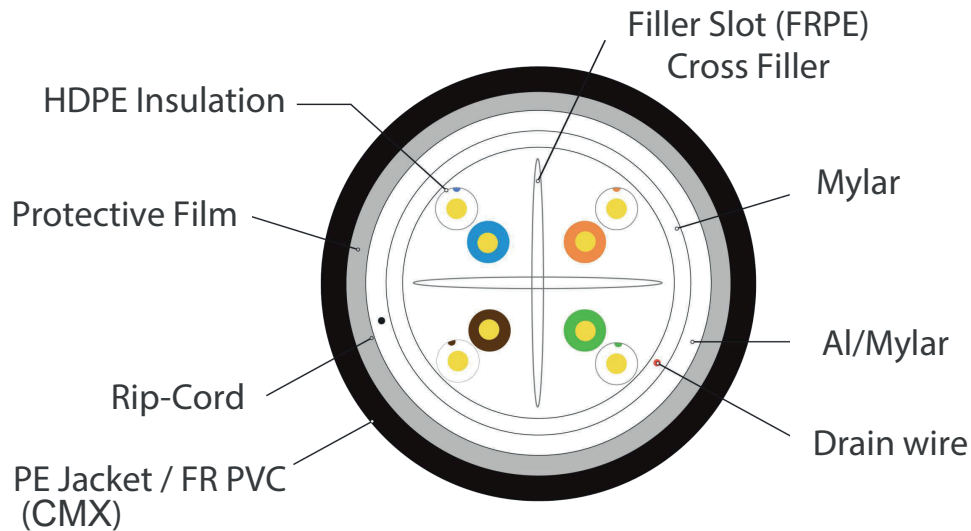
// CONSTRUCTION CABLE

Cable type		UTP CAT6
Conductor	Material	Solid bare copper (BC)
	Diameter	23 AWG (0.55mm)
Insulation	Material	HDPE
	Thickness	1.02 mm
	Diameter	1.5 ± 0.5 mm.
Outer jacket	Material	CMX , PE ,UV Proof , Lead free / FR PVC (Cross Filler)
	Thickness	6.1 ± 0.2 mm (Black Color)
Ripcord	Under jacket	
Pair Colors		Pair1 White/Blue-Blue
		Pair2 White/Orange -Orange
		Pair3 White/Green-Green
		Pair4 White/Brown-Brown
Diameter		7.4 ± 0.2 mm
Tensile		120 N
Impedance		100 ± 15 ohm @1-600 MHz
Mutual Capacitance		5.6nF Max/100 m
Capacitance, Unbalance		160pF Max/100 m
DC Resistance		9.38ohm Max/100 m
DC Resistance, Unbalance		2% Max
Insulated Resistance		5000 M ohm/Km
Propagation Delay		536 ns/ 100 m Max @ 600MHz
Delay Skew		25 ns Max
NVP		69%
Flame Rating		CMX (UL444)
Minimum Bending Radius		Install 8 X Cable Diameter
		After Install 4 X Cable Diameter
Tension		16.5 MPa or 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
		Rating Temp Voltage 75 OC, 300Volts

// 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	27.0	44.4	15.4	45.0	12.3	22.5	22.5	21.7	18.0
250	28.9	45.9	10.9	45.2	6.5	24.2	24.2	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	39.5	N/A	36.5	N/A	22.7	15.0	10.0	22.7

// STRUCTURE DESIGN



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