

CAT6 OUTDOOR DIRECT BURIAL BULK CABLE

CAT6 UTP Cable Outdoor Drop Wire – Double Jacket

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



Solid Pure Bare Copper



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

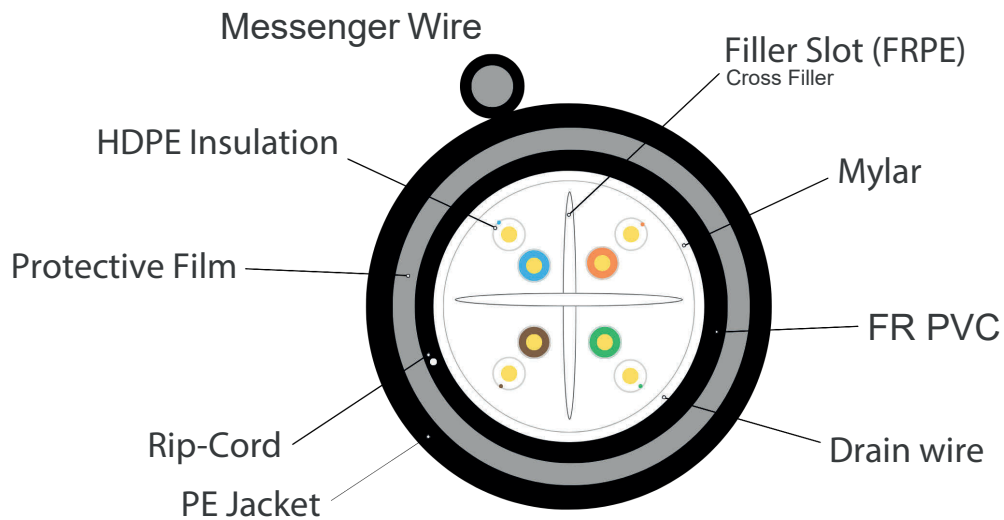
// CONSTRUCTION CABLE

Cable type		UTP CAT6	
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	
	Thickness	1.2 ± 0.2 mm	
Messenger Wire	Material	Galvanized Steel Wire, 1.3 ± 0.2 mm	
Inner jacket	Material	FR-PVC, Lead free	
	Thickness	0.51 ± 0.5 mm	
Pair Colors		Pair1 White/Blue-Blue	Pair3 White/Green-Green
		Pair2 White/Orange -Orange	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)	PS. ELFEXT MIN. (dB/100)	RL	
								MIN(dB)	NOM(dB)
1	2.0	78.0	76.0	76.0	73.5	69.0	66.0	20.0	28.0
31.25	10.7	56.0	45.3	54.0	42.8	38.5	35.6	23.6	31.6
62.5	15.4	50.5	35.1	52.2	33.0	33.0	29.5	21.5	29.5
100	19.8	47.5	27.7	49.8	25.6	28.5	25.8	20.1	28.1
155	25.1	45.0	19.7	47.2	17.2	25.0	23.0	18.8	28.8
200	29.0	44.4	15.4	45.0	12.3	22.5	21.7	18.0	28.0
250	32.0	45.9	10.9	45.2	6.5	24.2	18.0	25.3	25.3
300	36.4	41.5	4.9	40.7	1.9	18.5	15.6	16.8	24.8
400	43.0	38.5	N/A	37.5	N/A	16.5	13.7	15.9	23.9
550	51.8	36.7	N/A	34.5	N/A	13.5	10.7	14.9	22.9
600	54.5	39.5	N/A	36.5	N/A	22.7	10.0	22.7	22.7

// STRUCTURE DESIGN



*Product pictures and technical data in this datasheet are only for reference. Updates are subject to change without prior notice. The final interpretation right is reserved by Rabbit Innovation.,ltd

WWW.TSPNEXT.COM

