

## 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

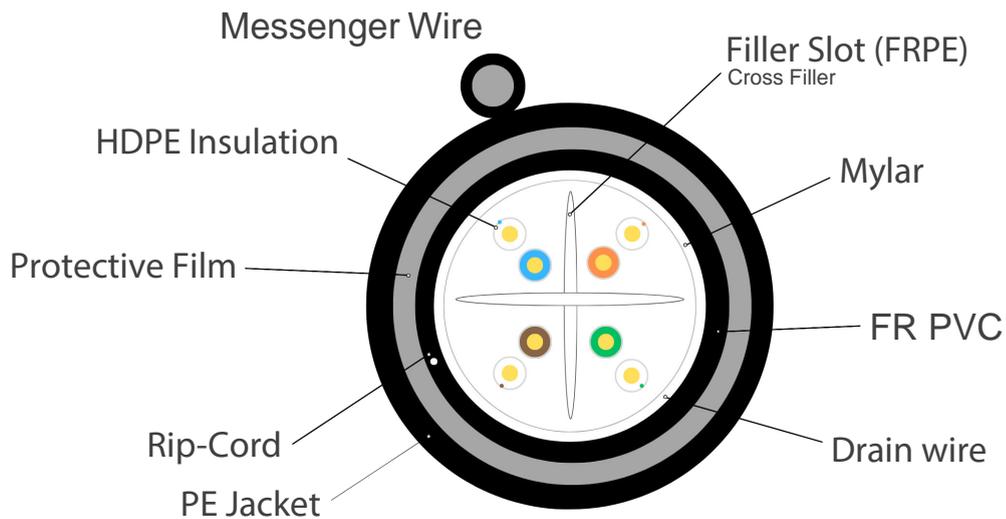
## // CONSTRUCTION CABLE

<b>Cable type</b>		<b>UTP CAT6</b>
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	<b>Galvanized Steel Wire, 1.3 ± 0.2 mm</b>
Inner jacket	Material	FR-PVC, Lead free
	Thickness	<b>0.51 ± 0.5 mm</b>
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



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