

UTP CAT5E Outdoor Drop Wire

24AWG • 4 Twisted Pairs • PE&PVC • FRPE • HDPE • Solid Bare Copper

This specification covers design requirements and performance standards for procurement of UTP CAT 5E (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 Cat5E 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
- 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 5E, ANSI-TIA/EIA-568-B.2 Category 5E
- ISO/IEC 11801:2002 Class D, ISO/IEC 11801:2017 Class D
- EN50173 Category 5E, EN50288-3-1, EN50173-1 Category 5e
- EN 50173-1 , EN50288-3-1, EN 50288-6-1
- IEC61156-5, NEC800 , UL444
- NEMAWC63.1 ICEAS-90-661 Category 5E, NEMA WC 63.1., ASTM D 4566-9
- ANSI/TIA-568.2-D Category 5E
- RoHS Compliant

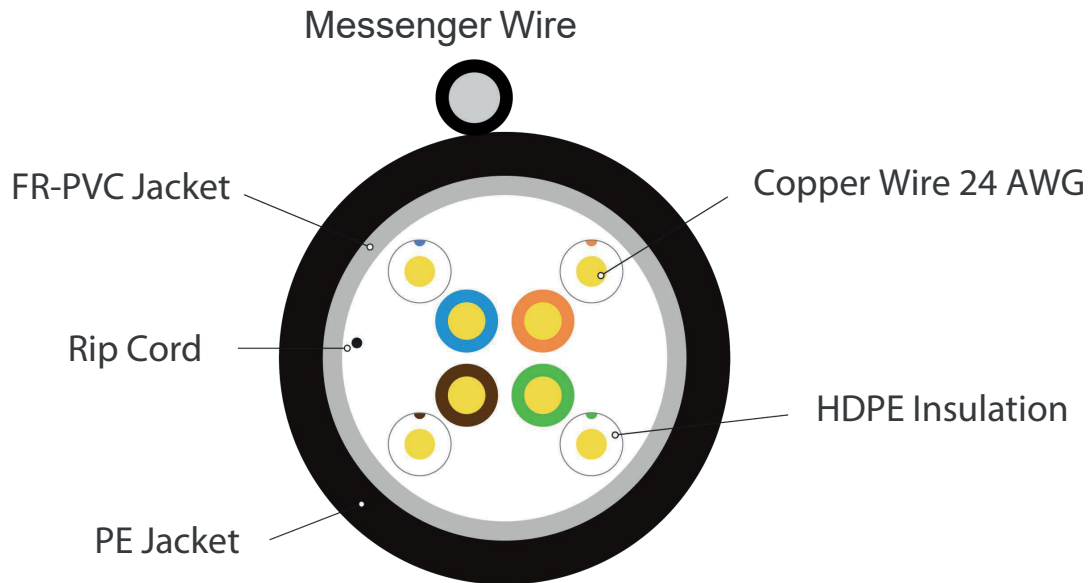
// CONSTRUCTION CABLE

Cable type		UTP CAT5E	
Conductor	Material	Solid bare copper (BC)	
	Diameter	24 AWG (0.51mm)	
Insulation	Material	HDPE (High Density Polyethylene)	
	Diameter	0.90 ± 0.5 mm.	
Inner jacket	Material	FR-PVC Grey Color, Lead Free	
	Thickness	1.0 ± 0.2 mm.	
	Diameter	5.1 mm.	
Outer jacket	Material	FR-PVC Black Color, Lead-Free PE, CMX Type, UL Listed	
	Thickness / Diameter	1.0 ± 0.2 mm. / 5.1 mm.	
Messenger Wire	Material	Galvanized Steel Wire, 1.3 ± 0.2 mm	
Ripcord	Under jacket		
Pair Colors		Pair1 White/Blue-Blue	Pair2 White/Orange-Orange
		Pair3 White/Green-Green	Pair4 White/Brown-Brown
Diameter		6.3 ± 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		5% Max	
Insulated Resistance		5000 M ohm/Km	
Dielectric Strength		1KV/min	
Propagation Delay		536 ns/ 100 m Max @ 350MHz	
Delay Skew		25 ns Max	
NVP		69%	
Voltage		300 Volts AC or DC	
Flame Rating		CMX (UL444)	
Minimum Bending Radius		Install 8 X Cable Diameter After Install 4 X Cable Diameter	
Tension		9.7 MPa or 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	
		Rating Temp Voltage 75 OC, 300Volts	

// TRANSMISSION PERFORMANCE

FREQUENCY (MHZ)	INSERTIONLOSS (dB/100)	NEXT MIN. (dB)		PSNEXTMIN. (dB)		ELFEXTMIN. (dB/100)		PS. ELFEXT MIN. (dB/100)		ACR (dB)	ATT (dB)	PS-ARC (dB)	RL MIN. (dB)	
	Max.	min	nom	min	nom	min	nom	min	nom				min	nom
1	1.7	66	84	63	77	64	85	61	77	66.3	2.1	64.3	20	36
4	3.6	57	75	54	68	52	75	49	66	55.2	4.2	53.2	23	40
8	5.1	52	71	49	64	46	69	43	60	49	5.9	47	24	37
10	5.7	51	69	48	62	44	67	41	58	46.8	6.6	44.8	25	35
16	7.3	48	64	45	59	40	62	37	54	42.1	8.3	40.1	25	37
20	8.3	46	62	43	58	38	60	35	52	39.5	9.4	37.5	25	37
25	9.3	45	61	42	55	36	57	33	49	36.9	10.3	34.9	24	37
31.25	11.1	43	60	40	54	34	54	31	46	34.2	11.8	32.2	23	35
62.5	17.0	39	56	36	50	28	48	25	41	24.4	17.1	24.4	21	35
100	15.0	36	52	33	46	24	44	21	36	16.3	28.2	143	20	33
155	19.3	-	51	-	44	-	40	-	32	7.4	32.5	5.4	-	27
200	23.7	-	48	-	41	-	38	-	30	1.4	36.1	0	-	26
250	27.5	-	45	-	38	-	36	-	28	-	41.1	-	-	26
350	37.4	-	42	-	35	-	32	-	25	-	22.2	-	-	25

// STRUCTURE DESIGN



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