

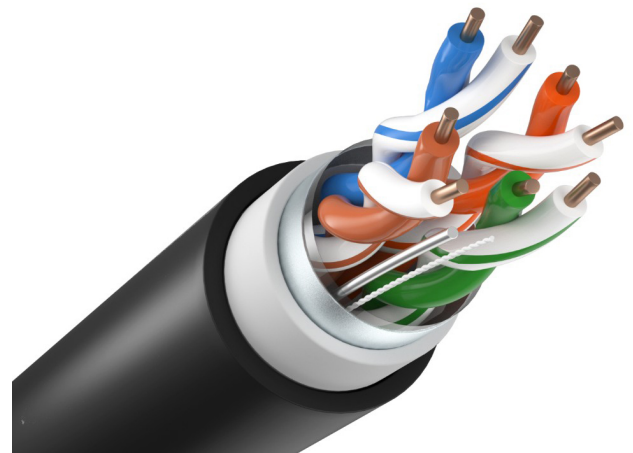
CAT5E OUTDOOR DIRECT BURIAL BULK CABLE

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

This specification covers design requirements and performance standards for procurement of UTP CAT 5E (Unshielded Twisted Pair) direct burial 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

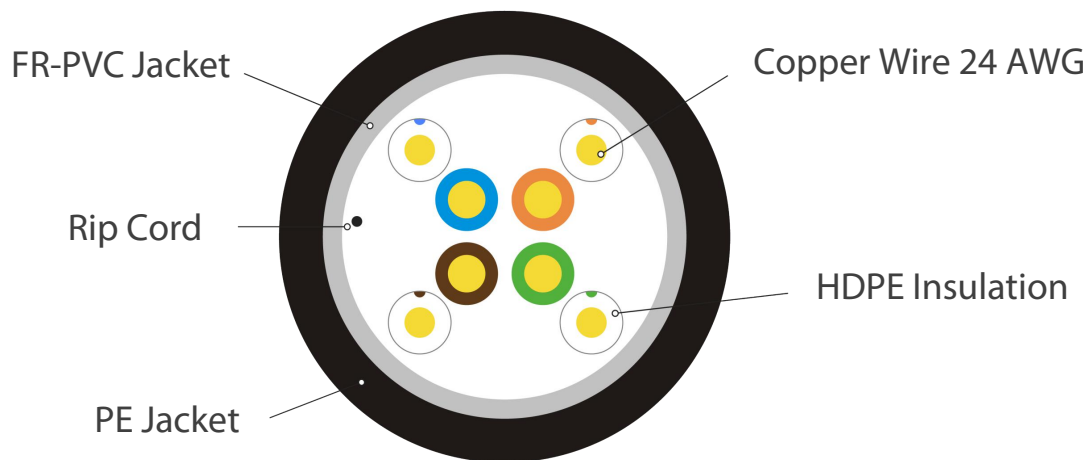
CONSTRUCTION CABLE

Cable type		UTP CAT5E
Conductor	Material	Solid bare copper (BC)
	Diameter	23 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 Grey Color, Lead Free
	Thickness / Diameter	1.0 ± 0.2 mm. / 5.1 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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◀ Please scan our QR code for more details



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