

CAT5E OUTDOOR DIRECT BURIAL BULK CABLE

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 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

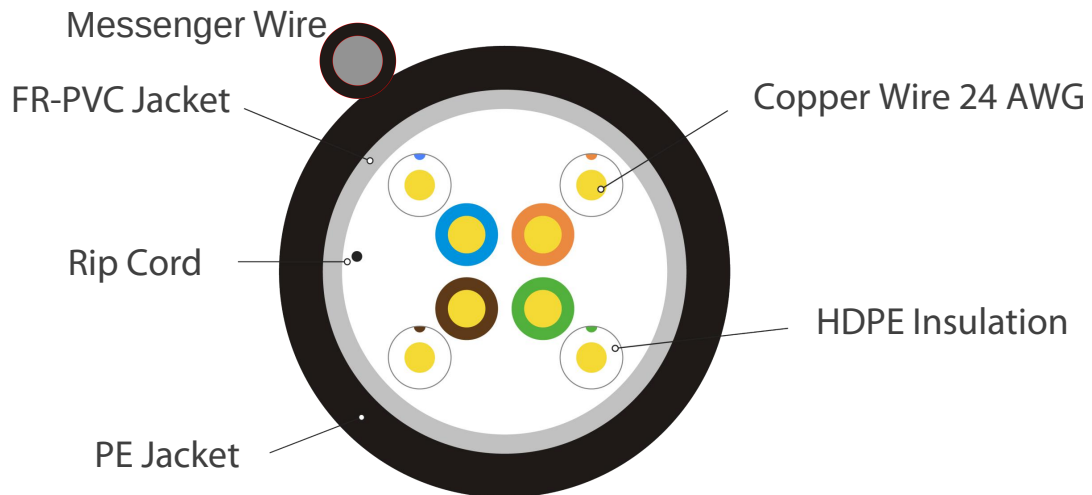
// CONSTRUCTION CABLE

Cable type		UTP CAT5E
Conductor	Material	Solid bare copper (BC)
	Diameter	24 AWG (0.55mm)
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	UV-proof, PE Black Color, Lead Free
	Thickness / Diameter	1.0 ± 0.2 mm. / 5.5 mm.
Ripcord	Under jacket	
Pair Colors		Pair1 White/Blue-Blue Pair3 White/Green-Green Pair2 White/Orange -Orange Pair4 White/Brown-Brown
Messenger Wire	Material	Galvanized Steel Wire, 1.3 ± 0.2 mm
Overall Diameter		8.8 ± 0.2 mm.
Tensile		120 N
Impedance		100 ± 15 ohm @ 1-350 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		16.5 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	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	48	24	44	21	36	33	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	-	39	-	32	-	25	2.1	22.2	-	-	25

// STRUCTURE DESIGN



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