



US-9045

US-9045-1

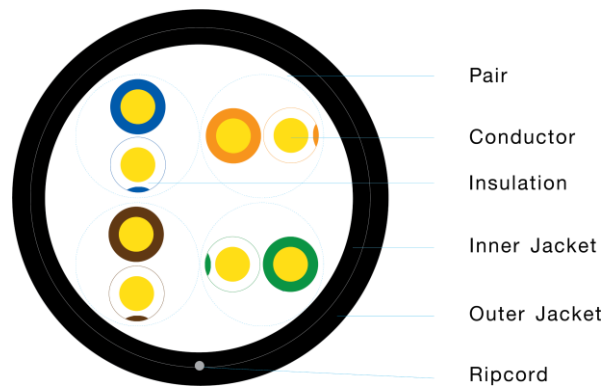


CAT5E UTP Outdoor Double Jacket (350MHz), 24AWG

Scope of Applications

This specification covers the general requirements for UTP cable used for outdoor and indoor installation (remove the outer jacket for indoor installation). LINK Enhanced Category 5E U/UTP outdoor cables compliant ISO/IEC 11801 Class D and ANSI/TIA-568.2-D requirements for category 5E performance. These cables are characterized to 350MHz, Powersum NEXT tested certified. The cables are designed for outdoor horizontal, CCTV or other.

Drawing



Technical Standards

- ANSI/TIA-568.2-D Category 5E
- ANSI/TIA-568-C.2 Category 5E
- ISO/IEC 11801:2017 class D
- EN 50173-1 Category 5E
- EN 50288-3-1
- IEC 61156-5
- ICEA S-90-661 Category 5E
- ASTM D4566-98
- UL 444 / NEC Article 800
- CSA 22.2 No.214
- RoHS Compliant



Cable Construction

Conductor	Material	Solid bare copper
	No. of Conductor	4 Pairs (8 wires)
	Diameter	24 AWG
Insulation	Material	High Density Polyethylene (HDPE)
	Diameter	0.92 ±0.02 mm
Insulated Conductor Color Code	Pair 1	White-Blue / Blue
	Pair 2	White-Orange / Orange
	Pair 3	White- Green / Green
	Pair 4	White-Brown / Brown
Inner Jacket	Material	Lead free, FR-PVC
	Thickness	0.51 ±0.02 mm
	Color	Black
	Diameter	5.0 ±0.2 mm
Rip cord		Under Jacket
Jacket	Material	UV-Proof, PE
	Thickness	0.51 ±0.02 mm
	Color	Black
Cable Diameter		6.3 ±0.2 mm
Marking		White color in every meter
Flame Rating		CMX

Electrical Characteristic

Impedance	100 ± 15 Ohms, 1 MHz to 350 MHz
Mutual Capacitance	≤ 5.6 nF Max / 100m
Capacitance, Unbalance	≤ 160 pF Max / 100m
DC Resistance	≤ 9.38ohm Max./100m
DC Resistance, Unbalance	≤ 2% Max.
Dielectric Strength	≤ 1 kV/min
Insulated Resistance	≥ 5000 MΩ/km
AC leakage current through overall jacket	≤ 10mA (1.5 kV AC)
Spark Test	2.5 kV DC
Propagation Delay	≤ 536 ns/100m Max @350MHz
Delay Skew	≤ 25 ns Max
NVP	69%

Physical Properties

Tensile Strength	700N	
Ultimate Breaking Strength	>400 N (90lbf)	
Min. Bending Radius	4 X Cable Diameter	
Temperature	Installation/Operation	-40°C to 75°C
	Storage	-40°C to 80°C



PERFORMANCE CHARACTERISTIC (meet or exceed ANSI/TIA-568.2-D Category 5E)

Frequency (MHz)	Insertion Loss (dB/100m)	NEXT (dB)		ACR-N (dB)		PS NEXT (dB)		PS ACR-N (dB)		ACR-F (dB)		PS ACR-F (dB)		RL (dB)	
		Max.	min	nom	min	nom	min	nom	min	nom	min	nom	min	nom	min
0.772	1.8	79	82	77.2	80.2	77	79	75.2	77.2	70	73	67	69	-	-
1	2	77	80	75	78.3	75	77	73	75.3	68	71	65	67	20	28
4	3.8	68	71	64.2	67.5	66	68	62.2	64.5	56	59	53	55	23	31
8	5.3	64	67	58.7	61.4	62	64	56.7	58.4	50	53	47	49	24.5	32.5
10	6	62	65	56	59.3	60	62	54	56.3	48	51	45	47	25	33
16	7.6	59	62	51.4	54.7	57	59	49.4	51.7	44	47	41	43	25	33
20	8.5	58	61	49.5	52.3	56	58	47.5	49.3	42	45	39	41	25	33
25	9.5	56	59	46.5	49.8	54	56	44.5	46.8	40	43	37	39	24.3	32.3
31.25	10.7	55	58	44.3	47.2	53	55	42.3	44.2	38	41	35	37	23.6	31.6
62.5	15.4	50	53	34.6	37.9	48	50	32.6	34.9	32	35	29	31	21.5	29.5
100	19.8	47	50	27.2	30.4	45	47	25.2	27.4	28	31	25	27	20.1	28.1
155	25.3	44	47	18.7	22.1	42	44	16.7	19.1	24	27	21	23	18.8	26.8
200	29	43	46	14	16.6	41	43	12	13.6	22	25	19	21	18	26
250	32.8	41	44	8.2	11.3	39	41	6.2	8.3	20	23	17	19	17.3	25.3
300	36.6	40	43	3.4	6.5	38	40	1.4	3.5	18	21	15	17	16.8	24.8
350	40	39	42	-	2.1	37	39	-	-	17	20	14	16	16.3	24.3

Applications

- 2.5G BASE-T (IEEE 802.3bz)
- 1000 BASE-T (IEEE 802.3ab Gigabit Ethernet)
- 1000 BASE-TX (TIA/EIA-854)
- 100 BASE-TX (IEEE 802.3u Fast Ethernet)
- 10 BASE-T (IEEE 802.3i Ethernet)
- 52/155/622Mbps and 1.2Gbps ATM
- 4/16 Mbps Token Ring
- IEEE 802.3af (PoE), IEEE 802.3at (PoE+), IEEE 802.3bt (Type4)
- TP-PMD, TPDDI, ISDN, CDDI, VoIP
- EtherCAT Industrial standard, HDBaseT 2.0 standard
- Baseband, Broadband
- Digital and analog for data, video and audio application

Order Information

Part number	Description	Color	Length	Package
US-9045	Category 5E, 4 Pairs, U/UTP Cable, 24AWG, Outdoor Double Jacket, 350MHz	Black	305 m	Reelex
US-9045-1	Category 5E, 4 Pairs, U/UTP Cable, 24AWG, Outdoor Double Jacket, 350MHz	Black	100 m	Reelex

*Other jacket color available on request

Specifications subject to change without notice.

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