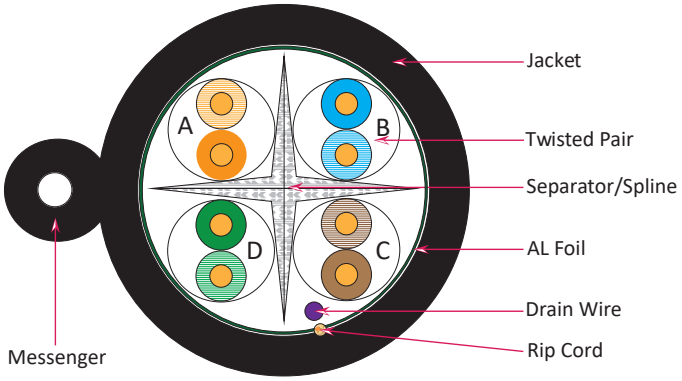
CAT5E UTP
UTP PE Outdoor w/Drop wire (350MHz), 24AWG



A-linking UTP Cable Specification

24 AWG solid bare copper conductors with PE insulation.
Four twisted pairs with cross-filler for stable performance.
Includes integrated drop wire for aerial/self-supporting installation.
Flame-retardant PVC or LSZH sheath with UV-stabilized outer jacket (FRLS/PE/LSZH).

Features

ANSI/TIA-568.2-E Category 5e , 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 , UL 444, NEC 800, ICEA S-90-661 Category 5e , NEMA WC 63.1 , RoHS Compliant

Product Application

10 Base-T (IEEE 802.3)
100 Base-TX (IEEE 802.3U)
1000 BASE-T (IEEE 802.3ab)
1000 BASE-TX (TIA/EIA-854)
2.5G BASE-T (IEEE 802.3bz)
10GBASE-T (IEEE 802.3an, 10G Gigabit Ethernet, 55m)
TP-PMD (ANSI X3T9.5) ,100 Mbps CDDI
ATM 155 ,4/16 Mbps Token Ring (IEEE 802.5)
IEEE802.3af & 802.3at PoE, 622 Mbps ,1.2 Gbps ATM,TP-PMD, 100 Mbps TPDDI, ISDN, VOIP,Analog & Digital Voice, Digital & Analog Video

Colour Code

Pair	Specifications
1	Blue - White Blue
2	Orange - White Orange
3	Green - White Green
4	Brown - White Brown

Mechanical & Environmental Characteristics

Characteristic	Specifications
Maximum tensile load	110 N (installation)
Minimum bend radius	20 x cable outer diameter
Temperature	-40°C to +75°C (installation) -40°C to +80°C (Storage)

Jacket Colours

Black or Customer Specific Colours

Electrical Characteristics meet or exceed 70 Meter TIA Cat5E Channel Spec.

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	nom
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

Electrical Properties

Conductor	Material	Solid bare copper (BC)
	Diameter	24 AWG (0.55mm)
Insulation	Material	HDPE
	Thickness	1.02 mm
	Diameter	0.9 ± 0.2 mm
Outer jacket	Material	PE CMX, UV Proof
	Thickness	1.3 ± 0.2 mm
	Diameter	5.6 ± 0.2 mm
Messenger Wire	1.30 ± 0.1mm.	
Ripcord	Under jacket	
Diameter	9.3 ± 0.2 mm.	
Tension	16.5 MPa or 2400 PSI	
Impedance	100+/ -15Ω, 1MHz to 350MHz	
Mutual Capacitance	5.6nF Max/100 m	
Capacitance, Unbalance	160pF Max/100 m	
DC Resistance	9.38 Ω Max/100 m	
DC Resistance, Unbalance	2% Max	

Insulated Resistance	5000 MΩ·km @350MHz
Propagation Delay	536 ns/ 100 m Max @ 350 MHz
Dielectric Strength	1 kV/min
Delay Skew	25 ns Max
NVP	69 %
Minimum Bending Radius	Install: 8 × Cable Diameter / Operation: 4 × Cable Diameter
Flame Rating	CMX (UL444)

Packaging
305m - Reel
500m / 1000m - Reel

LINKING
IP Surveillance Expert