

LAN SYSTEM PRODUCTS

CAT5E UTP CABLE INDOOR CMR / CMX / LSZH



PRODUCT DESCRIPTION

4 pairs twisted cable, using solid bare copper, 24 AWG insulated with a special compound. External jacket using a CMR/ CMX/ LSZH flame retardant material.

APPLICATION

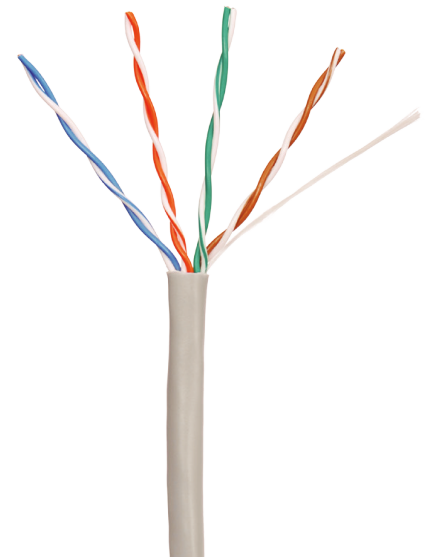
1000BASE-T (IEEE802.3ab Gigabit Ethernet) ,100BASE-TX (IEEE802.3u Fast Ethernet),
10BASE-T(IEEE802.3 Ethernet) , 52/155/622 Mbps and 1.2Gbps ATM, POE,
POE+(IEEE802.3af, IEEE802.3at) ,TP-PMD, TPDDI, ISDN, VOIP, Analog & Digital Voice,
Digital & Analog Video 4/16 Mbps Token Ring.
2.5G BASE-T (IEEE802.3bz)

STANDARD

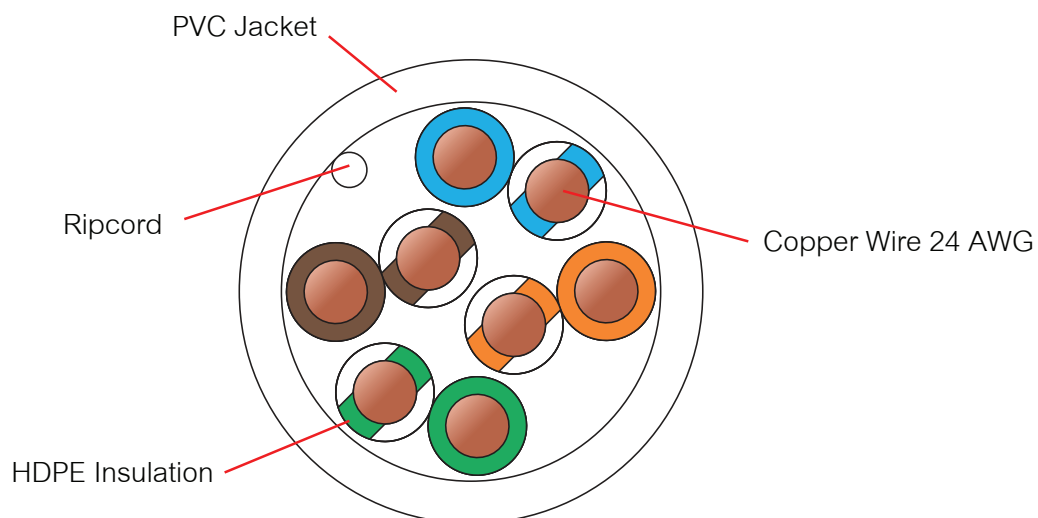
- ANSI/TIA-568-C.2 Category 5E, ANSI/TIA/EIA-568-B.2 Category 5E
- ISO/IEC 11801:2002 Class D, ISO/IEC 11801:2017 Class D
- EN50173 Category 5E, EN50288-3-1, EN50173-1 Category 5E
- IEC61156-5, IEC60754-1, IEC60754-2 , IEC60754-3 , IEC 61034-1, IEC 61034-2
- UL444, NEC800
- NEMAWC63.1 ICEAS-90-661 Category 5E, NEMA WC 63.1, ASTM D 4566-98.
- RoHS Compliant
- ANSI/TIA-568.2-D Category 5E

TEMPERATURE

Installation - 20 °C to 60 °C
Operating - 20 °C to 60 °C
Storage - 20 °C to 80 °C



L-UI5-SJ-XXX



CONSTRUCTION OF CABLE

Conductor	Material	Solid bare copper (BC)
	Diameter	24 AWG (0.48mm)
Insulation	Material	HDPE (CMR/ CMX /LSZH)
	Diameter	0.90 ± 0.5 mm.
Outer jacket	Material	UV-Proof FR PVC
	Color	Grey Color
	Thickness	1.0 ± 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	5.3 ± 0.2 mm.	

ELECTRICAL CHARACTERISTICS & PHYSICAL PROPERTY

Dielectric strength	2.5KV dc-2seconds
Impedance	100+/-15Ω
Mutual Capacitance	5.6 nFMax/100m
Capacitance, Unbalance	330pF Max/100 m
DC Resistance	9.38Ω Max/100 m
DC Resistance, Unbalance	2% Max
Conductor Resistance	9.4Ω Max/100 m
Insulated Resistance	5000 MΩ/Km
Propagation Delay	536 ns/100 m Max @350MHz
Delay Skew	25 ns/100M Max
NVP	69%
Voltage	300 Volts AC or DC
Flame Rating	CMR (UL444)
Minimum Bending Radius	Install 8x cable Diameter Operating 4x Cable Diameter

TRANSMISSION PERFORMANCE

FREQUENCY (MHZ)	INSERTIONLOSS	RL (dB)	ATT (dB)	NEXT (dB)	PSNEXT (dB)	ACR (dB)	PS-ACR (dB)	ELFEXT (dB)	PS-ELFEXT (dB)
1	2.0	20	2.1	68	66	66.3	64.3	63.8	60.8
4	-	23	4.2	59.2	57.2	55.2	53.2	51.7	48.8
8	-	24.5	5.9	54.8	52.8	49	47	45.7	42.7
10	-	25	6.6	53.3	51.3	46.8	44.8	43.8	40.8
16	-	25	8.3	50.3	48.3	42.1	40.1	39.7	36.7
20	-	25	9.4	48.8	46.8	39.5	37.5	37.8	34.8
25	9.5	24.3	10.3	47.3	45.3	36.9	34.9	35.8	32.8
31.25	10.7	23.6	11.8	45.9	43.9	34.2	32.2	33.9	30.9
62.5	15.4	21.5	17.1	41.4	39.4	24.4	22.4	27.8	24.8
100	19.8	28	28.2	35.4	33.4	16.3	14.3	23.8	20.8
155	25.3	18.8	32.5	33.7	31.7	7.4	5.4	20	17
200	29	18	36.1	32.6	30.6	1.4	0	17.7	14.7
240	-	17.4	41.1	31.2	29.2	-	-	16.2	13.2
300	36.6	16.8	45	30.1	28.1	-	-	14.2	11.2
350	40	16.3	22.2	49	45	-	-	12.9	9.9

ORDER INFORMATION

PRODUCT	PART NUMBER
Cat5e UTP Cable 24AWG, 350MHz, CMR	L-UI5-SJ-CMR
Cat5e UTP Cable 24AWG, 350MHz, CMX	L-UI5-SJ-CMX
Cat5e UTP Cable 24AWG, 350MHz, LSZH	L-UI5-SJ-LSZH