

# LAN SYSTEM PRODUCTS

CAT5E UTP CABLE OUTDOOR DOUBLE JACKET.



## PRODUCT DESCRIPTION

4 twisted-pair cable, using solid bare copper conductor 24 AWG insulated with HDPE-high density polyethylene. External jacket using black PE-linear low density polyethylene UV resistant suitable for outdoor application.

## APPLICATION

1000BAS-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

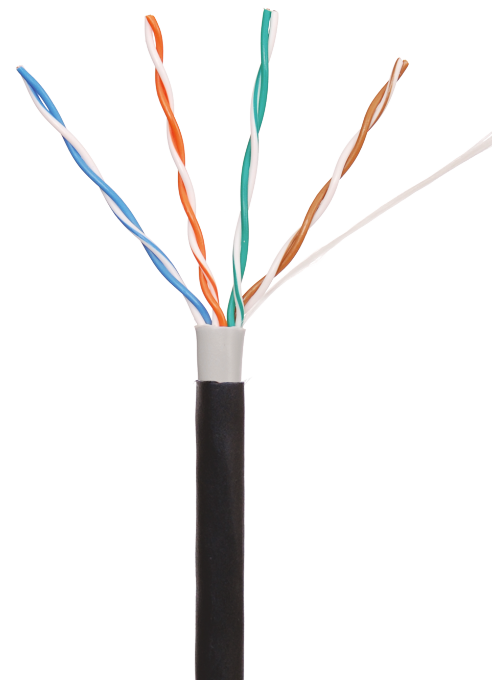
- ANSI/TIA-568-C.2 Category 5E, ANSI-TIA/EIA-568-B.2 Category 5E,
- ISO/IEC 11801:2002 Class D, ISO/IEC 11801:2017 Class D,
- EN50173 Category 5E, EN50288-3-1, EN50173-1 Category 5e
- IEC61156-5,
- UL444, NEC800,
- NEMAWC63.1 ICEAS-90-661 Category 5E, NEMA WC 63.1., ASTM D 4566-9
- RoHS Compliant
- ANSI/TIA-568.2-D Category 5E

## TEMPERATURE

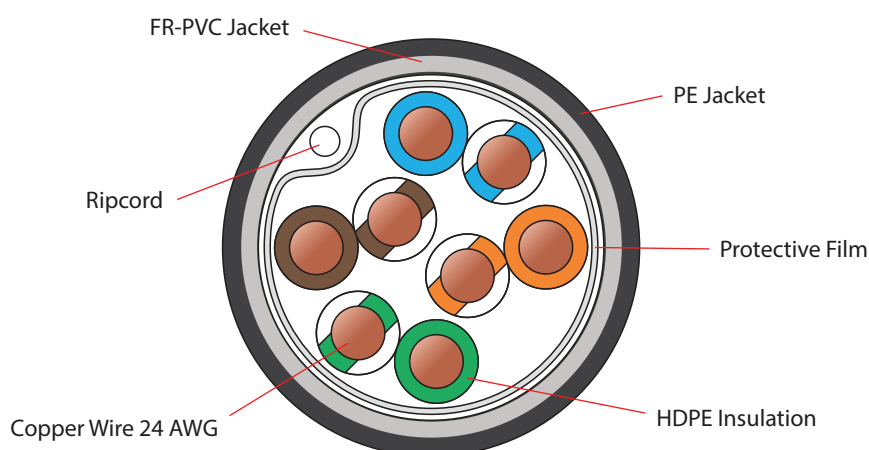
Installation - 40 °C to 75 °C

Operating - 40 °C to 75 °C

Storage - 40 °C to 80 °C



L-UO5-DJ



## CONSTRUCTION OF CABLE

Conductor	Material	Solid bare copper
	Diameter	24 AWG (0.51 mm)
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	PE Black Color , UV Proof 1.2 ±
	Thickness	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	6.3 ± 0.2 mm.	

## ELECTRICAL CHARACTERISTICS & PHYSICAL PROPERTY

Impedance	100+/-15Ω
Mutual Capacitance	5.6nF Max/100 m
Capacitance, Unbalance	160pF Max/100 m
DC Resistance	9.38Ω Max/100 m
DC Resistance, Unbalance	5% Max
Insulated Resistance	5000 MΩ/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
Tensile Strength	9.7 MPa or 1400 PSI

## 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)	
		min	nom	min	nom	min	nom	min	nom				min	nom
	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

## ORDER INFORMATION

PRODUCT	PART NUMBER
Cat5e UTP Cable, Outdoor Double Jacket, 24AWG, 350MHz	L-UO5-DJ