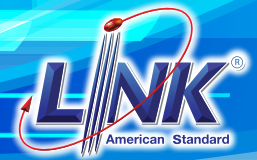
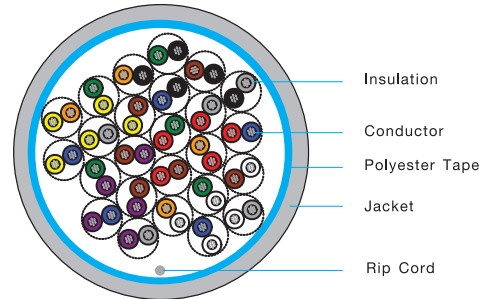


# Category 5E UTP 25 Pair Cables



## STANDARD

- ANSI/TIA-568-C.2 Category 5E
- ISO/IEC 11801:2017 Class D
- EN 50173-1 Category 5E
- ICEA S-90-661 Category 5E
- EN 50288-3-1, NEMA WC 63.1
- IEC 61156-5, ASTM D4566-98, IEC 60332-1-2
- UL Listed CM, CMR, CMP and LSZH
- ETL and 3P Verified to TIA-568-C.2 CAT 5E
- UL E197771, INTERTEK, RoHS Compliant



## APPLICATION

- 1000 BASE-T (IEEE 802.3ab Gigabit Ethernet)
- 100 BASE-TX (IEEE 802.3u Fast Ethernet)
- 10 BASE-T (IEEE 802.3 Ethernet)
- 155/622Mbps and 1.2Gbps ATM
- 4/16 Mbps Token Ring
- POE, POE+ (IEEE 802.3af, IEEE 802.3at)
- TP-PMD, TPDDI, ISDN, VoIP
- Analog & Digital Voice, Digital & Analog Video

## ELECTRICAL CHARACTERS

<b>Impedance</b>	: 100±15Ω
<b>Mutual Capacitance</b>	: 17.1 nFMax / 305m
<b>Capacitance, Unbalance</b>	: 330 pF Max / 100m
<b>DC Resistance</b>	: 28.6 ohm Max/305m
<b>DC Resistance, Unbalance</b>	: 5% Max.
<b>Propagation Delay</b>	: 536 ns/100m Max

## CONSTRUCTION / MATERIAL

<b>Conductor</b>	: 24AWG Solid/Stranded Bare Copper
<b>Insulation</b>	CMR, LSZH : HDPE
<b>Mylar Type</b>	: Polyester Tape
<b>Ripcord</b>	: Under Jacket
<b>Jacket</b>	CMR : FR-PVC LSZH : FR-LSZH

FREQUENCY (MHZ)	INSERTION LOSS (dB/100m)	NEXT (dB/100m)	ACR (dB/100m)	ACRF (dB/100m)	RL (dB/100m)
1	2.0	62.3	60.3	60.8	23.0
4	4.1	53.3	49.2	48.7	23.0
8	5.8	48.8	43.0	42.7	23.0
10	6.5	47.3	40.8	40.8	23.0
16	8.2	44.3	36.1	36.7	23.0
20	9.3	42.8	33.5	34.8	23.0
25	10.4	41.3	30.9	32.8	22.0
31.25	11.7	39.9	28.2	30.9	21.1
62.5	17.0	35.4	18.4	24.8	18.1
100	22.0	32.3	10.3	20.8	16.0

## MECHANICAL PROPERTIES

Minimum Bending Radius

Install 20 X Cable Diameter

After Install 10 X Cable Diameter

Installation / Operating temperature

-20°C to 60°C

Storage Temperature

-20°C to 80°C

Part No.	UL/NEC Flame Rating	Conductor	Jacket	Diameter (mm.)	Color	Packaging
US-9055E	CMR	24AWG Solid Bare Copper	FR-PVC	12.5	White	305m/Reel
US-9055ELSZH	LSZH	24AWG Solid Bare Copper	FR-LSZH	12.9	White	305m/Reel