

# Category 5e (350 MHz) U/UTP Cables

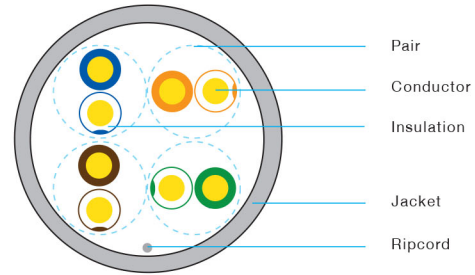


## STANDARD

- ANSI/TIA-568.2-D Category 5E
- ISO/IEC 11801:2017 Class D
- EN 50173-1 Category 5E
- ICEA S-90-661 Category 5E
- EN 50288-3-1, EN 50288-3-2, 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 Category 5E
- UL E197771, INTERTEK, RoHS Compliant

## APPLICATION

- Structure cabling for horizontal and building backbone
- 2.5G BASE-T (IEEE 802.3bz)
- 10/100/1000 BASE-T (IEEE 802.3i/u/ab)
- IEEE 802.3af/at (PoE/PoE+)
- 52/155/622 Mbps and 1.2 Gbps ATM
- 4/16 Mbps Token Ring
- TP-PMD, TPDDI, ISDN, CDDI, VoIP
- HD BaseT 2.0 standard, Baseband, Broadband
- Digital & Analog for data, video and audio application



## ELECTRICAL CHARACTERISTICS

<b>Impedance</b>	: 100±15Ω, 1 MHz to 350 MHz
<b>Mutual Capacitance</b>	: 5.6 nFMax / 100m
<b>Capacitance, Unbalance</b>	: 160 pF Max / 100m
<b>DC Resistance</b>	: 9.38 ohm Max/100m
<b>DC Resistance, Unbalance</b>	: 5% Max.
<b>Insulated Resistance</b>	: 5000 MΩ/Km
<b>Dielectric Strength</b>	: 1kV/min
<b>Propagation Delay</b>	: 536 ns/100m Max @350MHz
<b>Delay Skew</b>	: 25 ns Max

## CONSTRUCTION / MATERIAL

<b>Conductor</b>	: 24AWG Solid or Stranded Bare copper
<b>Insulation</b>	CM, CMR, LSZH : HDPE CMP : FEP
<b>Ripcord</b>	: Under Jacket
<b>Jacket</b>	CM, CMR : FR-PVC CMP : FR-PVC (Low Smoke) LSZH : FR-LSZH

FREQUENCY (MHZ)	INSERTION LOSS (dB/100m)	NEXT MIN.(dB)	ACR-N MIN.(dB)	PS NEXT MIN.(dB)	PS ACR-N MIN.(dB)	ACR-F MIN.(dB/100m)	PS ACR-F MIN.(dB/100m)	RL MIN.(dB)
1	2.0	77	75	75	73	68	65	20.0
25	9.5	56	46.5	54	44.5	40	37	24.3
31.25	10.7	55	44.3	53	42.3	38	35	23.6
62.5	15.4	50	34.6	48	32.6	32	29	21.5
100	19.8	47	27.2	45	25.2	28	25	20.1
155	25.3	44	18.7	42	16.7	24	21	18.8
200	29	43	14	41	12	22	19	18.0
250	32.8	41	8.2	39	6.2	20	17	17.3
300	36.6	40	3.4	38	1.4	18	15	16.8
350	40	39	-	37	-	17	14	16.3

## MECHANICAL PROPERTIES

**Minimum Bending Radius**

Installation : 8 X Cable Diameter  
Operation : 4 X Cable Diameter

**Tensile Strength**

110 N (25lbf)

**Ultimate Breaking Strength**

>400 N (90lbf)

**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
U5-9015	CMR	24AWG Solid Bare Copper	FR-PVC	5.0	White	305m/Pull Box
U5-9015LSZH	LSZH	24AWG Solid Bare Copper	FR-LSZH	5.0	White	305m/Pull Box
U5-9025LSZH	LSZH	24AWG Stranded Bare Copper	FR-LSZH	5.8	White	305m/Reel
U5-9015-1	CMR	24AWG Solid Bare Copper	FR-PVC	5.0	White	100m/Color Box