

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

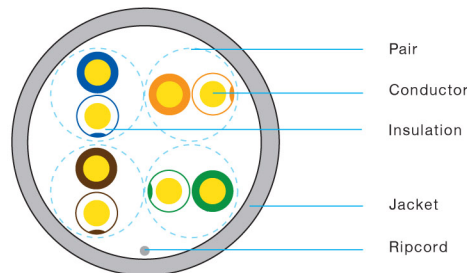


## STANDARD

- ANSI/TIA-568-C.2 Category 5E
- ISO/IEC 11801:2002 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
- UL/CSA 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 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/Stranded Bare Copper
<b>Insulation</b>	CM, CMR, LSZH : HDPE CMP : FEP
<b>Ripcord</b>	: Under Jacket
<b>Jacket</b>	CM, CMR : FRPVC CMP : FRPVC (Low Smoke) LSZH : LSZH

FREQUENCY (MHZ)	INSERTION LOSS (dB/100m)	NEXT MIN.(dB)	ACR MIN.(dB)	PS.NEXT MIN.(dB)	PS.ACR MIN.(dB)	ELFEXT MIN.(dB/100m)	PS.ELFEXT 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**

Install : 8 X Cable Diameter  
After Install : 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
US-9015	CMR	24AWG Solid Bare Copper	FRPVC	5.3	White	305m/Pull Box
US-9015LSZH	LSZH	24AWG Solid Bare Copper	LSZH	5.3	White	305m/Pull Box
US-9015P	CMP	24AWG Solid Bare Copper	FRPVC (LS)	5.3	White	305m/Pull Box
US-9015CM	CM	24AWG Solid Bare Copper	FRPVC	5.3	White	305m/Pull Box
US-9025	CM	24AWG Stranded Bare Copper	FRPVC	5.5	White	305m/Pull Box
US-9015-1	CMR	24AWG Solid Bare Copper	FRPVC	5.3	White	100m/Color Box