

Category 5e (350 MHz) FIUTP Cables

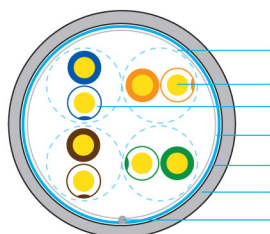


STANDARD

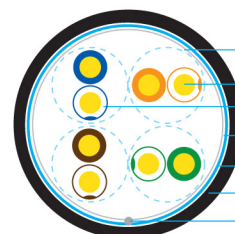
- ANSI/TIA-568-C.2 Category 5E
- ISO/IEC 11801:2002 Class D
- EN 50173-1 Category 5E
- ICEA S-90-661 Category 5E
- EN 50288-3-1, NEMA WC 63.1
- IEC 61156-5, ASTM D4566-98, IEC 60332-1
- UL/CSA Listed CM, CMR, CMP and LSZH
- ETL and 3P Verified to TIA-568-C.2 CAT 5E
- UL E197771, RoHS Compliant

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



US-9035



US-9035PE



ELECTRICAL CHARACTERISTICS

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

CONSTRUCTION / MATERIAL

Conductor	: 24AWG Solid/Stranded Bare Copper
Insulation	CM, CMR, LSZH, CMX : HDPE CMP : FEP
Mylar	: Mylar Tape
Drain Wire	: Tinned Copper
Shielded	: AL-Mylar Tape
Jacket	CM, CMR : FRPVC CMP : FRPVC (Low Smoke) LSZH : LSZH CMX : PE

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

Tensile Strength

After Install 4 X Cable Diameter

Ultimate Breaking Strength

110 N (25lbf)

Installation / Operating temperature

>400 N (90lbf)

Storage Temperature

-20°C to 60°C (-40°C to 75°C for Outdoor)

-20°C to 80°C (-40°C to 80°C for Outdoor)

Part No.	UL/NEC Flame Rating	Conductor	Jacket	Diameter (mm.)	Color	Packaging
US-9035	CMR	24AWG Solid Bare Copper	FRPVC	6.1	White	305m/Pull Box
US-9035LSZH	LSZH	24AWG Solid Bare Copper	LSZH	6.1	White	305m/Pull Box
US-9035P	CMP	24AWG Solid Bare Copper	FRPVC(LS)	6.1	White	305m/Pull Box
US-9035PE	CMX	24AWG Solid Bare Copper	PE	6.1	Black	305m/Reel in Box
US-9065	CM	26AWG Stranded Bare Copper	FRPVC	5.7	White	305m/Pull Box