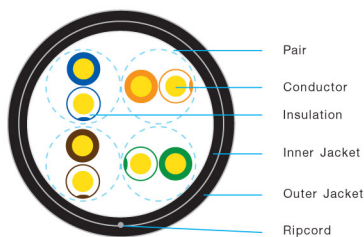


STANDARD

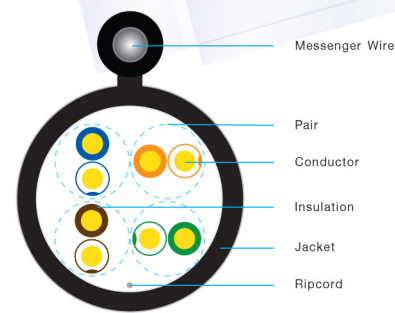
- ANSI/TIA-568-C.2 Category 5E
- ISO/IEC 11801:2002 Class D
- EN 50173-1 Category 5E
- ICEA S-90-661 Category 5E
- EN 50288-3-1, NEMA WC 63.1
- IEC 61156-5, ASTM D4566-98
- UL444, CMX, NEC800
- UL E197771, RoHS Compliant

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-9045



US-9015M



ELECTRICAL CHARACTERS

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	: 2% 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 Bare Copper
Insulation	: HDPE
Ripcord	: Under Jacket
Inner Jacket	: Lead Free, FR PVC for US-9045
Jacket	: PE
Messenger Wire	: Galvanize Steel Wire, 1.3mm for US-9015M

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

9.7 MPa (1400 PSI) for US-9045

16.5 MPa (2400 PSI) for US-9015M

Installation / Operating temperature

-40°C to 75°C

Storage Temperature

-40°C to 80°C

Part No.	UL/NEC Flame Rating	Conductor	Jacket	Diameter (mm.)	Color	Packaging
US-9045	CMX	24AWG Solid Bare Copper	PVC/PE	6.8	Black	305m/Pull Box
US-9015M	CMX	24AWG Solid Bare Copper	PE	5.5(8.8)	Black	305m/Reel in Box