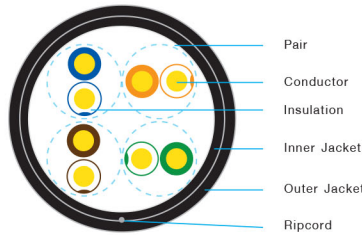


## STANDARD

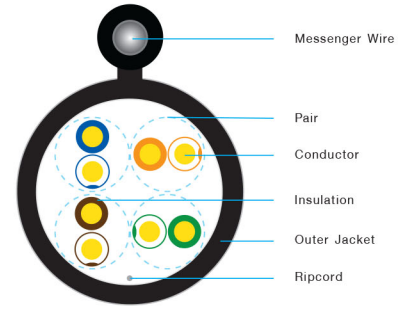
- ANSI/TIA-568.2-D Category 5E
- ISO/IEC 11801:2017 Class D
- EN 50173-1 Category 5E
- ICEA S-90-661 Category 5E
- EN 50288-3-1, NEMA WC 63.1
- IEC 61156-5
- UL444
- RoHS Compliant

## APPLICATION

- 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



US-9045



US-9015M



## ELECTRICAL CHARACTERS

<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 Bare Copper
<b>Insulation</b>	: HDPE
<b>Ripcord</b>	: Under Jacket
<b>Inner Jacket</b>	: Lead Free, FR PVC for US-9045
<b>Outer Jacket</b>	: UV-Proof, PE
<b>Messenger Wire</b>	: Galvanize Steel Wire, 1.3mm for US-9015M

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

**Tensile Strength**

Operation 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.	Cable Type	Conductor	Jacket	Diameter (mm.)	Color	Packaging
US-9045	Outdoor	24AWG Solid Bare Copper	FR-PVC/PE	6.3	Black	305m/Reelex
US-9015M	Outdoor	24AWG Solid Bare Copper	PE	5.0	Black	305m/Reel in Box
US-9045-1	Outdoor	24AWG Solid Bare Copper	FR-PVC/PE	6.3	Black	100m/Reelex
US-9015M-1	Outdoor	24AWG Solid Bare Copper	PE	5.0	Black	100m/Reel in Box