

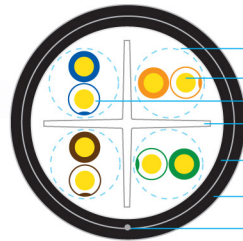


## STANDARD

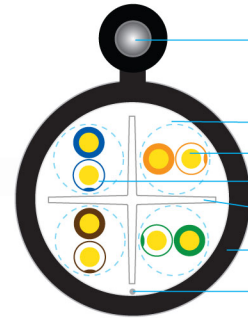
- ANSI/TIA-568-C.2 Category 6
- ISO/IEC 11801:2002 Class E
- EN 50173-1 Category 6
- ICEA S-102-700 Category 6
- EN 50288-6-1, NEMA WC 66
- IEC 61156-5, ASTM D4566-98
- UL444, CMX, NEC800
- UL E197771, RoHS Compliant

## APPLICATION

- 10GBASE-T ( IEEE 802.3an 10Gigabit Ethernet \*55m )
- 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-9106OUT



US-9106M

## ELECTRICAL CHARACTERS

<b>Impedance</b>	: 10015Ω, 1 MHz to 600 MHz
<b>Mutual Capacitance</b>	: 5.6 nFMax / 100m
<b>Capacitance, Unbalance</b>	: 160 pF Max / 100m
<b>DC Resistance</b>	: 6.65 ohm Max/100m
<b>DC Resistance, Unbalance</b>	: 2.5% Max.
<b>Insulated Resistance</b>	: 5000 MΩ/Km
<b>Dielectric Strength</b>	: 1kV/min
<b>Propagation Delay</b>	: 536 ns/100m Max @600MHz
<b>Delay Skew</b>	: 30 ns Max

## FEATURES/CONSTRUCTION

<b>Conductor</b>	: 23AWG Solid Bare Copper
<b>Insulation</b>	: HDPE
<b>Filler Slot</b>	: FRPE
<b>Ripcord</b>	: Under Jacket
<b>Jacket</b>	: PE
<b>Messenger Wire</b>	: Galvanize Steel Wire, 1.3mm for US-9106M

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	78.0	76.0	76.0	73.5	69.0	66.0	20.0
31.25	10.7	56.0	45.3	54.0	42.8	38.5	35.6	23.6
62.5	15.4	50.5	35.1	52.2	33.0	33.0	29.5	21.5
100	19.8	47.5	27.7	49.8	25.6	28.5	25.8	20.1
155	25.1	45.0	19.7	47.2	17.2	25.0	23.0	18.8
200	29.0	44.4	15.4	45.0	12.3	22.5	21.7	18.0
250	32.0	42.9	10.9	43.2	6.5	21.2	18.0	17.3
300	36.4	41.5	4.9	40.7	1.9	18.5	15.6	16.8
400	43.0	38.5	N.A	37.5	N.A	16.5	13.7	15.9
550	51.8	36.7	N.A	34.5	N.A	13.5	10.7	14.9
600	54.5	36.5	N.A	34.5	N.A	13.0	10.0	14.7

## MECHANICAL PROPERTIES

**Minimum Bending Radius**

Install 8 X Cable Diameter  
After Install 4 X Cable Diameter

**Tensile Strength**

9.7 MPa (1400 PSI) for US-9106OUT  
16.5 MPa (2400 PSI) for US-9106M

**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-9106OUT	CMX	23AWG Solid Bare Copper	PE	6.5/10.0	Black	305m/Reel
US-9106M	CMX	23AWG Solid Bare Copper	PE	7.4	Black	305m/Reel