

STANDARD

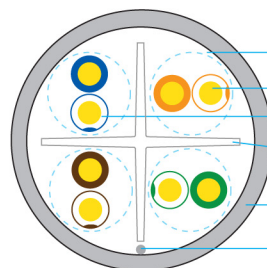
- ANSI/TIA-568-C.2 Category 6
- ISO/IEC 11801:2002 Class E
- EN 50173-1 Category 6
- ICEA S-102-700 Category 6
- EN 50288-6-1, NEMA WC 66
- IEC 61156-5, ASTM D4566-98
- UL444, CMX, NEC800
- UL E197771, RoHS Compliant

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

ELECTRICAL CHARACTERS

Impedance	: 100±5Ω, 1 MHz to 250 MHz
Mutual Capacitance	: 5.6 nFMax / 100m
Capacitance, Unbalance	: 160 pF Max / 100m
DC Resistance	: 6.65 ohm Max/100m
DC Resistance, Unbalance	: 5% Max.
Insulated Resistance	: 5000 MΩ/Km
Dielectric Strength	: 1kV/min
Propagation Delay	: 536 ns/100m Max @250MHz
Delay Skew	: 30 ns Max



Pair
Conductor
Insulation
Filler Slot
Jacket
Ripcord

CONSTRUCTION / MATERIAL

Conductor	: 23AWG Solid Bare Copper
Insulation	CM, CMR, LSZH : HDPE
Filler Slot	: FRPE
Ripcord	: Under Jacket
Jacket	CM, CMR : FRPVC 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	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

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-9106	CMR	23AWG Solid Bare Copper	FRPVC	6.2	White	305m/Pull Box
US-9106LSZH	LSZH	23AWG Solid Bare Copper	LSZH	6.1	White	305m/Pull Box
US-9006-1	CM	23AWG Solid Bare Copper	FRPVC	6.2	White	100m/Easy Box