

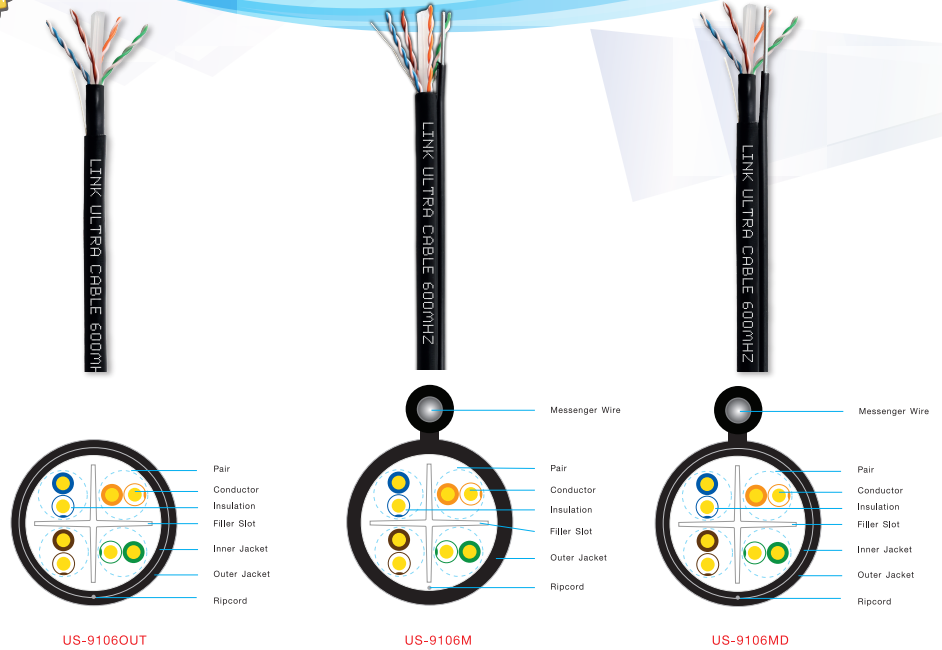


STANDARD

- ANSI/TIA-568-C.2 Category 6
- ISO/IEC 11801:2017 Class E
- EN 50173-1 Category 6
- ICEA S-102-700 Category 6
- EN 50288-6-1, NEMA WC 66
- IEC 61156-5
- UL444, 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±15Ω, 1 MHz to 600 MHz
Mutual Capacitance	: 5.6 nFMax / 100m
Capacitance, Unbalance	: 160 pF Max / 100m
DC Resistance	: 6.65 ohm Max/100m
DC Resistance, Unbalance	: 2.5% Max.
Insulated Resistance	: 5000 MΩ/Km
Dielectric Strength	: 1kV/min
Propagation Delay	: 536 ns/100m Max @600MHz
Delay Skew	: 30 ns Max

CONSTRUCTION / MATERIAL

Conductor	: 23AWG Solid Bare Copper
Insulation	: HDPE
Filler Slot	: FRPE
Ripcord	: Under Jacket
Inner Jacket	: Lead Free, FR-PVC for US-9106OUT & US-9106MD
Outer Jacket	: UV-Proof, PE
Messenger Wire	: Galvanize Steel Wire, 1.3mm for US-9106M & US-9106MD

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	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	-	37.5	-	16.5	13.7	15.9
550	51.8	36.7	-	34.5	-	13.5	10.7	14.9
600	54.5	36.5	-	34.5	-	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 & US-9106MD

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-9106OUT	Outdoor	23AWG Solid Bare Copper	PE	7.4	Black	305m/Pull Box
US-9106M	Outdoor	23AWG Solid Bare Copper	PE	6.5 (10.0)	Black	305m/Reel in Box
US-9106MD	Outdoor	23AWG Solid Bare Copper	PE	7.4(10.4)	Black	305m/Reel in Box