

Category 6 Ultra (600MHz) w/Power Wire Cables

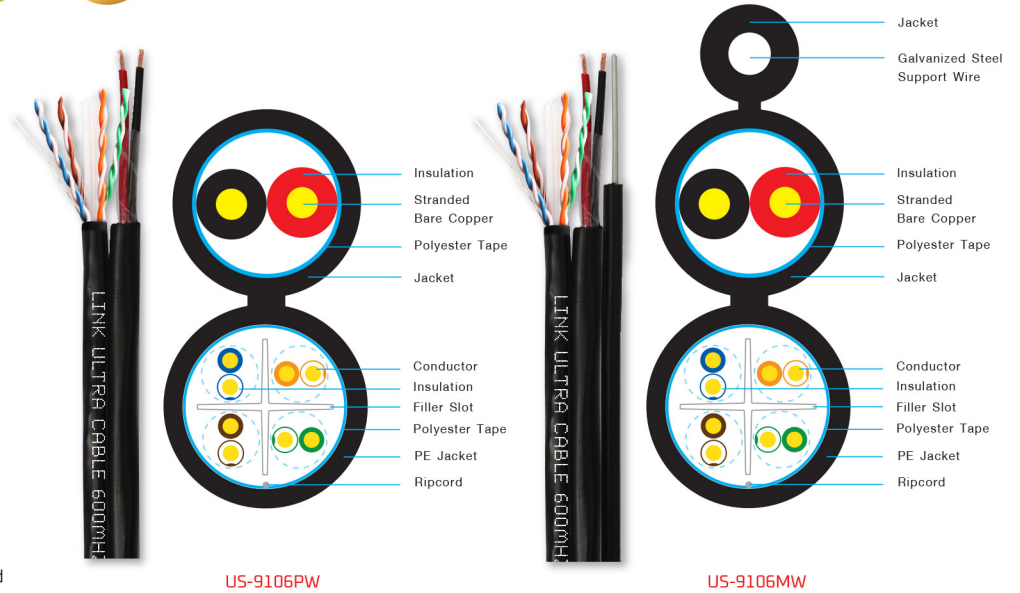


STANDARD

- ANSI/TIA-568.2-D Category 6
- ISO/IEC 11801:2017 Class E
- EN 50173-1 Category 6
- ICEA 5-102-700 Category 6
- EN 50288-6-1
- IEC 61156-5
- UL444, NEC800
- RoHS Compliant

APPLICATION

- 10G BASE-T (IEEE 802.3an) *55m
- 2.5G/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



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
Mylar Type	: Polyester Tape
Ripcord	: Under Jacket
Jacket	: UV-Proof, PE
Power Wire	: 24 x 0.2 mm Stranded Bare Copper (18 AWG)
Messenger Wire	: Galvanize Steel Wire, 1.3mm for US-9106MW

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	28.69	42.9	10.9	43.2	6.5	21.2	18.0	17.3
300	32.8	41.5	4.9	40.7	1.9	18.5	15.6	16.8
400	39.7	38.5	-	37.5	-	16.5	13.7	15.9
550	48.9	36.7	-	34.5	-	13.5	10.7	14.9
600	51.1	36.5	-	34.5	-	13.0	10.0	14.7

MECHANICAL PROPERTIES

Minimum Bending Radius

Installation 8 X Cable Diameter

Tensile Strength

Operation 4 X Cable Diameter

9.7 MPa (1400 PSI) for US-9106PW

16.5 MPa (2400 PSI) for US-9106MW

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-9106PW	Outdoor	23AWG Solid Bare Copper	PE	6.5	Black	305m/Reel in Box
US-9106MW	Outdoor	23AWG Solid Bare Copper	PE	6.5	Black	305m/Reel in Box
US-9106PW-1	Outdoor	23AWG Solid Bare Copper	PE	6.5	Black	100m/Reel in Box
US-9106MW-1	Outdoor	23AWG Solid Bare Copper	PE	6.5	Black	100m/Reel in Box