

Category 6 (250MHz) U/UTP Cables, 24AWG

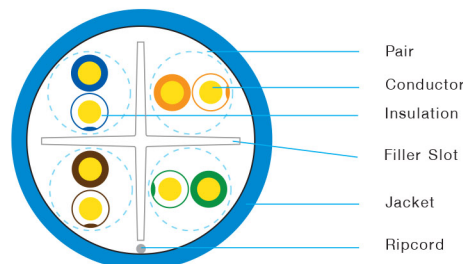


STANDARD

- 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, NEMA WC 66
- IEC 61156-5, ASTM D4566-98, IEC 60332-1-2
- UL Listed CM, CMR, CMP and LSZH
- UL E197771, RoHS Compliant

APPLICATION

- Structure cabling for horizontal and building backbone
- 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 250 MHz
Mutual Capacitance	: 5.6 nFMax / 100m
Capacitance, Unbalance	: 160 pF Max / 100m
DC Resistance	: 9.38 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	: 45 ns Max

CONSTRUCTION / MATERIAL

Conductor	: 24AWG Solid Bare Copper
Insulation	: HDPE
Filler Slot	: FRPE
Ripcord	: Under Jacket
Jacket	CM : FR-PVC

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	20.	73.5	72.2	76.0	73.5	69.0	66.0	20.0
31.25	10.0	51.3	40.7	54.0	42.8	38.5	35.6	23.6
62.5	15.4	47.4	32.3	52.2	33.0	33.0	29.5	21.5
100	17.4	42.6	24.5	49.8	25.6	28.5	25.8	20.1
155	20.2	41.2	19.7	39.2	17.2	25.0	23.0	18.8
200	29.0	39.3	10.4	45.0	12.3	23.5	21.7	18.0
250	32.8	37.8	5.1	43.2	6.5	22.8	18.0	17.3

MECHANICAL PROPERTIES

Minimum Bending Radius

Installation 8 X Cable Diameter
Operation 4 X Cable Diameter

Tensile Strength

110 N (25lbf)

Ultimate Breaking Strength

>400 N (90lbf)

Installation / Operating temperature

-20°C to 60°C

Storage Temperature

-20°C to 80°C

Part No.	UL/NEC Flame Rating	Conductor	Jacket	Diameter (mm.)	Color	Packaging
US-9106A	CM	24AWG Solid Bare Copper	FR-PVC	5.7	Blue	305m/Pull Box
US-9106A-1	CM	24AWG Solid Bare Copper	FR-PVC	5.7	Blue	100m/Easy Box