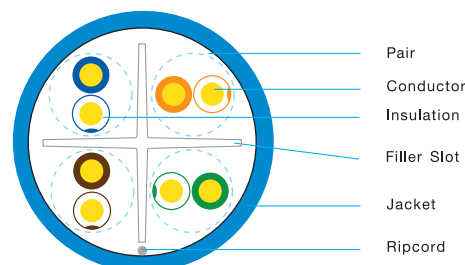


# Category 6 (250MHz) UIUTP Cables, 24AWG



## 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, ASTM D4566-98, IEC 60332-1-2
- UL Listed CM, CMR, CMP and LSZH
- ETL and 3P Verified to TIA-568-C.2 CAT 6
- 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

<b>Impedance</b>	: 100± 15Ω, 1 MHz to 250 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>	: 4% Max.
<b>Insulated Resistance</b>	: 5000 MΩ/Km
<b>Dielectric Strength</b>	: 1kV/min
<b>Propagation Delay</b>	: 536 ns/100m Max @250MHz
<b>Delay Skew</b>	: 45 ns Max

## CONSTRUCTION / MATERIAL

<b>Conductor</b>	: 24AWG Solid Bare Copper
<b>Insulation</b>	: HDPE
<b>Filler Slot</b>	: FRPE
<b>Ripcord</b>	: Under Jacket
<b>Jacket</b>	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	1.8	73.5	72.2	71.5	73.5	69.0	66.0	20.0
31.25	10.0	51.3	40.7	49.3	42.8	38.5	35.6	23.6
62.5	14.3	47.4	32.3	45.4	33.0	33.0	29.5	21.5
100	17.4	42.6	24.5	40.6	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	25.1	39.3	10.4	37.3	12.3	22.5	21.7	18.0
250	27.4	37.8	5.1	35.8	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**

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	5.5	Blue	305m/Pull Box
US-9106A-1	CM	24AWG Solid Bare Copper	FR-PVC	5.5	Blue	100m/Easy Box