

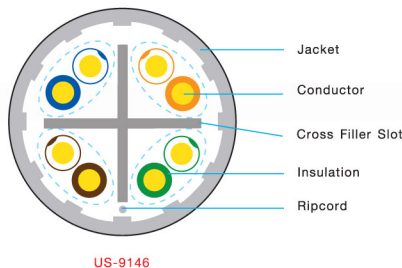
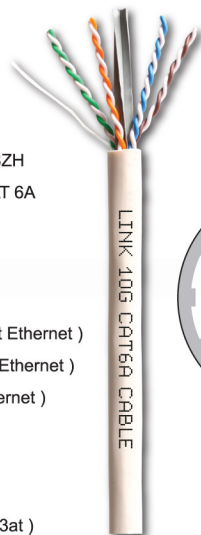
# Category 6A (750MHz) U/UTP Cables

## STANDARD

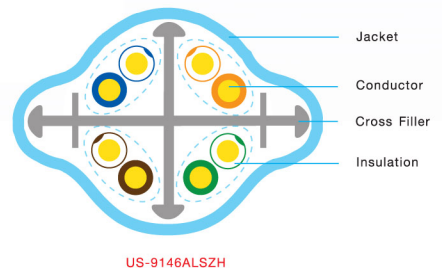
- ANSI/TIA-568-C.2 Category 6A
- ISO/IEC 11801:2002 Class EA
- EN 50173-1 Category 6A
- IEC 61156-5 Category 6A
- EN 50288-10-1, IEC 60332-1
- UL/CSA Listed CM, CMR, CMP and LSZH
- ETL and 3P Verified to TIA-568-C.2 CAT 6A
- UL E197771, RoHS Compliant

## APPLICATION

- 10GBASE-T (IEEE 802.3an 10Gigabit Ethernet)
- 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



US-9146



US-9146ALSZH



## ELECTRICAL CHARACTERS

<b>Impedance</b>	: 100±15Ω, 1 MHz to 750 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>	: 534 ns/100m Max @500MHz
<b>Delay Skew</b>	: 25 ns Max

## FEATURES/CONSTRUCTION

<b>Conductor</b>	: 23AWG Solid Bare Copper
<b>Insulation</b>	CM, CMR, LSZH : HDPE CMP : HDPE
<b>Cross Filler Slot</b>	: FRPE
<b>Ripcord</b>	: Under Jacket
<b>Jacket</b>	CM, CMR : FRPVC CMP : FRPVC LSZH : LSZH

FREQUENCY (MHZ)	INSERTION LOSS (dB/100m)	RL MIN.(dB)	NEXT MIN.(dB)	PSNEXT MIN.(dB)	ACRF MIN.(dB)	PS ACRF MIN.(dB)	PS ANEXT MIN.(dB)	PS AACRF (dB/100m)
1.0	2.0	20.0	78.3	76.3	71.8	68.8	67.0	67.0
31.25	10.4	25.6	55.9	53.9	41.9	38.9	67.0	48.3
62.50	14.9	23.5	51.4	49.4	35.9	32.9	65.6	42.3
100.0	19.0	22.1	48.3	46.3	31.8	28.8	62.5	38.2
200.0	27.5	20.0	43.8	41.8	25.8	22.8	58.0	32.2
250.0	31.0	19.3	42.3	40.3	23.8	20.8	56.5	30.2
300.0	34.2	18.8	41.1	39.3	22.3	19.3	55.3	28.7
500.0	45.3	17.5	37.8	35.8	17.8	14.8	52.0	24.2
550.0	47.7	17.2	37.2	35.2	-	-	-	-
650.0	52.4	16.7	36.1	34.6	-	-	-	-
750.0	56.8	16.0	35.2	33.2	-	-	-	-

## MECHANICAL PROPERTIES

<b>Minimum Bending Radius</b>	Install : 8 X Cable Diameter After Install : 4 X Cable Diameter
<b>Tensile Strength</b>	110 N (25lbf)
<b>Ultimate Breaking Strength</b>	>400N (90lbf)
<b>Installation / Operating temperature</b>	-20°C to 60°C
<b>Storage Temperature</b>	-20°C to 80°C

Part No.	UL/NEC Flame Rating	Conductor	Jacket	Diameter (mm.)	Color	Packaging
US-9146	CMR	23AWG Solid Bare Copper	FRPVC	8.3	White	305m/Reel
US-9146ALSZH	LSZH	23AWG Solid Bare Copper	LSZH	7.8 x 9.1	Aqua Blue	305m/Reel
US-9146LSZH	LSZH	23AWG Solid Bare Copper	LSZH	8.3	White	305m/Reel
US-9146P	CMP	23AWG Solid Bare Copper	FRPVC(LS)	8.3	White	305m/Reel
US-9146OUT	CMX	23AWG Solid Bare Copper	PE	8.3	Black	305m/Reel