

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

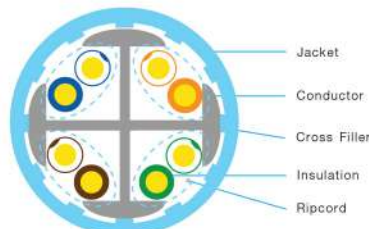
- 10GBASE-T (IEEE 802.3an 10Gigabit Ethernet)
- 1000 BASE-T (IEEE 802.3ab Gigabit Ethernet)
- 100 BASE-TX (IEEE 802.3u Fast Ethernet)
- 10 BASE-T (IEEE 802.3 Ethernet)
- 155/622Mbps and 1.2Gbps ATM
- 4/16 Mbps Token Ring
- POE, POE+ (IEEE 802.3af, IEEE 802.3at)
- TP-PMD, TPDDI, ISDN, VoIP
- Analog & Digital Voice, Digital & Analog Video

ELECTRICAL CHARACTERS

Impedance	: 100±15Ω, 1 MHz to 500 MHz
Mutual Capacitance	: 5.6 nFMax / 100m
Capacitance,Unbalance	: 160 pF Max / 100m
DC Resistance	: 6.65 ohm Max/100m
DC Resistance,Unbalance	: 4% Max.
Insulated Resistance	: 5000 MΩ/Km
Dielectric Strength	: 1kV/min
Propagation Delay	: 534 ns/100m Max @500MHz
Delay Skew	: 25 ns Max

CONSTRUCTION / MATERIAL

Conductor	: 23AWG Solid Bare Copper
Insulation	LSZH : HDPE
Cross Filler Slot	: FRPE
Ripcord	: Under Jacket
Jacket	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

MECHANICAL PROPERTIES

Minimum Bending Radius

Install 8 X Cable Diameter

Tensile Strength

After Install 4 X Cable Diameter

Ultimate Breaking Strength

110 N (25lbf)

Installation / Operating temperature

>400N (90lbf)

Storage Temperature

-20°C to 60°C

-20°C to 80°C

Part No.	UL/NEC Flame Rating	Conductor	Jacket	Diameter (mm.)	Color	Packaging
US-9146ALSZH	LSZH	23AWG Solid Bare Copper	LSZH	8.2	Aqua Blue	305m/Reel