

Category 6A (500MHz) U/UTP Cables, FR-LSZH



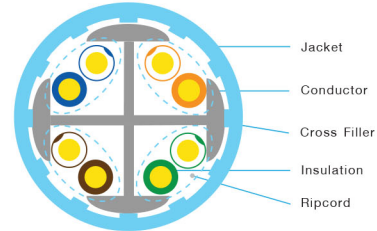
STANDARD

- ANSI/TIA-568.2-D Category 6A
- ISO/IEC 11801:2017 Class EA
- EN 50173-1 Category 6A
- IEC 61156-5 Category 6A
- EN 50288-11-1, IEC 60332-1-2
- LSZH
- RoHS Compliant



APPLICATION

- Structure cabling for horizontal and building backbone
- 10G BASE-T (IEEE 802.3an)
- 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 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	: HDPE
Cross Filler Slot	: FRPE
Ripcord	: Under Jacket
Jacket	: FR-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

Installation 8 X Cable Diameter
Operation 4 X Cable Diameter

Tensile Strength

110 N (25lbf)

Ultimate Breaking Strength

>400N (90lbf)

Installation / Operating temperature

-20°C to 60°C

Storage Temperature

-20°C to 80°C

Part No.	Flame Rating	Conductor	Jacket	Diameter (mm.)	Color	Packaging
US-9146ALSZH	LSZH	23AWG Solid Bare Copper	FR-LSZH	8.3	Aqua Blue	305m/Reel