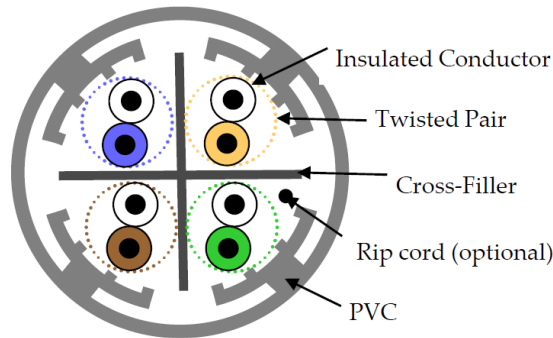


U/UTP CAT 6A Indoor Cable



STANDARD COMPLIANCE

- ANSI/TIA-568.2-D
- ISO/IEC 11801
- EN 50173-1
- RoHS Compliant
- IEC 60754-2
- EC 61034-1
- IEC 61034-2
- IEC 61033-1-2

APPLICATION SUPPORT

- 10 BASE-T
- 100 BASE-TX (IEEE 802.3u Fast Ethernet)
- 1000 Base-T (IEEE 802.3ab Gigabit Ethernet)
- 10G BASE-T (IEEE 802.3an 10Gigabit Ethernet)
- 52/155/622 Mbps and 1.2Gbps ATM
- 4/16 Mbps Token Ring
- PoE+ (IEEE 802.3af, IEEE 802.3at)
- TP-PMD, TPDDI, ISDN, VoIP
- Baseband, Broadband
- Analog & Digital Voice, Digital & Analog Video

CABLE CONSTRUCTION

Conductor	Solid annealed bare copper, 23 AWG
Insulation	HDPE Max. 1.22 mm.
Color code	Pair 1 : White-Blue/Blue Pair 2 : White-Orange/Orange Pair 3 : White-Green/Green Pair 4 : White-Brown/Brown
Jacket	LSZH (Low Smoke Zero Halogen) thickness 1.0 mm. O.D. 8.4±0.2 mm.

Electrical Performances

Characteristics	Unit	CAT 6A
DC Resistance	$\Omega/100m.$	≤ 9.38
DC Resistance Unbalance	%	≤ 5.00
Capacitance Unbalance (Pair to Ground)	$\mu F/100m.$	≤ 330
Insulation Resistance	$M\Omega-100m.$	≥ 500
Dielectric Strength	DC kV/sec.	2.5/2
Impedance (Characteristic mean)	Ω	$100 \pm 15\%$
Propagation Delay	ns/100 m.	534
Propagation Delay Skew	ns/100 m.	45
Operating Voltage, maximum	Volt	80

Frequency (MHz)	Attenuation (dB/100m.) Max.	NEXT (dB/100m.) Min.	PSNEXT (dB/100m.) Min.	ELFEXT (dB/100m.) Min.	PSELFEXT (dB/100m.) Min.	RL (dB/100m.) Min.
4	3.8	66.3	63.3	56.0	53.0	23.0
8	5.3	61.8	58.8	49.9	46.9	24.5
10	5.9	60.3	57.3	48.0	45.0	25.0
16	7.5	57.2	54.2	43.9	40.9	25.0
20	8.4	55.8	52.8	42.0	39.0	25.0
25	9.4	54.3	51.3	40.0	37.0	24.3
31.25	10.5	52.9	49.9	38.1	35.1	23.6
62.5	15.0	48.4	45.4	32.1	29.1	21.5
100	19.1	45.3	42.3	28.0	25.0	20.1
200	27.6	40.8	37.8	22.0	19.0	18.0
250	31.1	39.3	36.3	20.0	17.0	17.3
300	34.3	38.1	35.1	18.5	15.5	17.3
400	40.1	36.3	33.3	16.0	13.0	17.3
500	45.3	34.8	31.8	14.0	11.0	17.3

PHYSICAL PROPERTIES

Insulation

Un-aged Elongation, min. 16.5 MPa, 300%
Shrinkage of insulation ≤ 9.5 mm

Jacket

Un-aged tensile strength ≤ 17.24 Mpa **Elongation** 100%
Heat-aged tensile strength ≤ 85% **Elongation** 50% of un-aged

Tensile Strength 110 N (25 lbf)
Ultimate Breaking Strength 400 N (90 lbf)
Minimum Bending Radius 4 X Cable Diameter

ENVIRONMENTAL SPACE

Environmental Space LSZH ; IEC 60754-2, IEC 61034-1, IEC 61034-2
Installation Temp. -20°C to 60°C
Operating Temp. -20°C to 60°C
Storage Temp. -20°C to 80°C

Ordering Information

Part Number	Description	Color	Length	Package
LMZ-LUU6A-LWH	U/UTP CAT 6A Cable 23 AWG, LSZH	White	305 M./1000 FT	Wooden Reel
LMZ-LUU6A-LBU	U/UTP CAT 6A Cable 23 AWG, LSZH	Blue	305 M./1000 FT	Wooden Reel