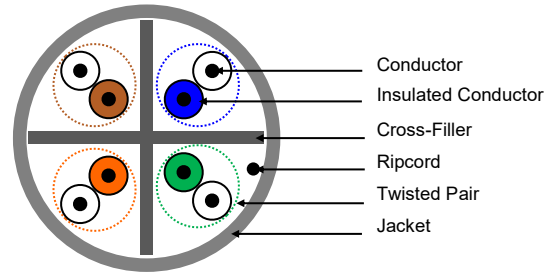


U/UTP CAT 6+ Indoor Cable, 350 MHz



STANDARD COMPLIANCE

- ANSI/TIA-568.2-D
- ISO/IEC 11801:2002
- EN 50173-1
- EN 50288-6-1
- ASTM D4566-98
- ICEA S-102-700
- NEMA WC 66
- IEC 61156-5
- IEC 60332-1-2
- RoHS Compliant

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, *55m.)
- 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 (0.574 mm.)
Insulation	High Density Polyethylene (HDPE), 1.02 mm.
Color code	Pair 1 : White-Blue/Blue Pair 2 : White-Orange/Orange Pair 3 : White-Green/Green Pair 4 : White-Brown/Brown
Jacket	Flame Retardant PVC [Blue or White], Lead Free LSZH : thickness 0.45 mm. O.D. 6.5±0.1 mm.

Electrical Performances

Characteristics	Unit	CAT 6+
DC Resistance	$\Omega/100\text{m.}$	≤ 9.38
DC Resistance Unbalance	%	≤ 5.00
Mutual Capacitance	nF/100m.	≤ 5.60
Capacitance Unbalance (Pair to Ground)	pF/100m.	≤ 330
Insulation Resistance	M Ω -100m.	≥ 500
Dielectric Strength	DC kV/sec.	2.5/2
Impedance (Characteristic mean)	Ω	100 \pm 15%
Nominal Velocity of Propagation (NVP)	%	69
Propagation Delay	ns/100 m.	536
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.	ACR (dB/100m.) Min.
1	2.0	74.3	72.3	67.8	64.8	20.0	72.3
4	3.8	65.3	63.3	55.8	52.8	23.0	61.5
8	5.5	60.8	58.8	49.7	46.7	24.5	55.3
10	6.0	59.3	57.3	47.8	44.8	25.0	53.3
16	7.6	56.2	54.2	43.7	40.7	25.0	48.6
20	8.5	54.8	52.8	41.8	38.8	25.0	46.3
25	9.5	53.3	51.3	39.8	36.8	24.3	43.8
31.25	10.7	51.9	49.9	37.9	34.9	23.6	41.2
62.5	15.4	47.4	45.4	31.9	28.9	21.5	32
100	19.8	44.3	42.3	27.8	24.8	20.1	24.5
200	29.0	39.8	37.8	21.8	18.8	18.0	10.8
250	32.8	38.3	36.3	19.8	16.8	17.3	5.5
300	36.4	37.1	35.1	18.3	15.3	16.8	0.7
350	39.8	36.1	34.1	16.9	13.9	16.3	-

PHYSICAL PROPERTIES

Insulation

Un-aged tensile strength	≤ 16.5 Mpa	Elongation	300%
Heat-aged tensile strength	≤ 75%	Elongation	75% of un-aged
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	Nom-plenum
Flame Test Method	LSZH (Low Smoke Zero Halogen); 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-LUU06-LBU	U/UTP CAT 6+ Cable, 350 MHz, LSZH	Blue	305 M./1000 FT	Reelex
LMZ-LUU06-LWH	U/UTP CAT 6+ Cable, 350 MHz, LSZH	White	305 M./1000 FT	Reelex