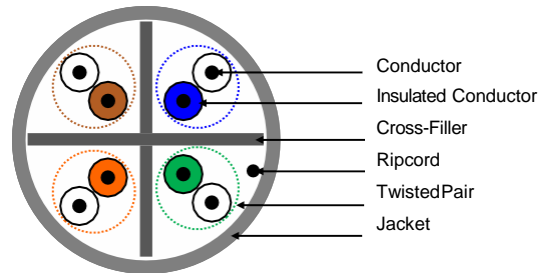


U/UTP CAT 6 Indoor Cable, 24 AWG



STANDARD COMPLIANCE

- ANSI/TIA-568.2-D
- ISO/IEC 11801
- EN 50173-1
- EN 50288-6-1
- IEC 61156-5
- ASTM D4566-98
- UL444/CSA FT4
- ICEA S-102-700
- NEMA WC 66
- UL 1685,
- RoHS

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, 24 AWG (0.510mm.)
Insulation	High Density Polyethylene (HDPE), 1.22 mm.
Colorcode	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] CM : thickness 0.45 mm. O.D. 5.9±0.2 mm.

Electrical Performances

Characteristics	Unit	CAT 6+
DC Resistance	Ω /100m.	≤ 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

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

ENVIRONMENTAL SPACE

Environmental Space	Nom-plenum
Flame Test Method	CM; UL 1685 or IEC60332-3 CMR; UL 1666
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-CBU	U/UTP CAT 6+ Cable, 24 AWG, CM	Blue	305 M./1000 FT	Pull Box
LMZ-LUU06-CWH	U/UTP CAT 6+ Cable, 24 AWG, CM	White	305 M./1000 FT	Pull Box