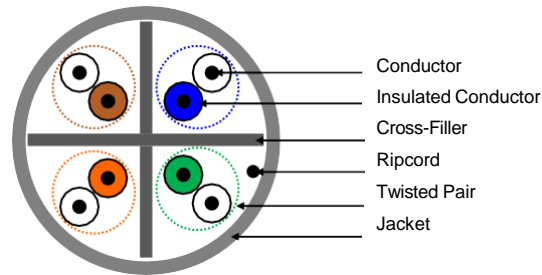


## U/UTP CAT 6+ Indoor Cable, 350 MHz



### STANDARD COMPLIANCE

- ANSI/TIA-568.2-D
- ISO/IEC 11801:2002
- EN 50173-1
- EN 50288-6-1
- IEC 60332-1-2
- IEC 61156-5
- ASTM D4566-98
- UL444/CSA FT4
- ICEA S-102-700
- NEMA WC 66
- UL 910
- 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

<b>Conductor</b>	Solid annealed bare copper, 23 AWG (0.574 mm.) ; CMP Jacket
<b>Insulation</b>	High Density Polyethylene (HDPE), 1.02 mm.
<b>Color code</b>	Pair 1 : White-Blue/Blue Pair 2 : White-Orange/Orange Pair 3 : White-Green/Green Pair 4 : White-Brown/Brown
<b>Jacket</b>	Flame Retardant PVC [Blue or White] CMP : thickness 0.45 mm.      O.D. 6.0±0.1 mm.

## Electrical Performances

Characteristics	Unit	CAT 6+
DC Resistance	$\Omega/100\text{m.}$	$\leq 9.38$
DC Resistance Unbalance	%	$\leq 5.00$
Mutual Capacitance	nF/100m.	$\leq 5.60$
Capacitance Unbalance (Pair to Ground)	pF/100m.	$\leq 330$
Insulation Resistance	M $\Omega$ -100m.	$\geq 500$
Dielectric Strength	DC kV/sec.	2.5/2
Impedance (Characteristic mean)	$\Omega$	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	1.5	94.0	88.3	89.8	82.5	35.0	92.5
4	3.2	86.2	80.0	78.3	70.3	35.7	83.0
8	4.6	81.2	75.2	71.8	64.6	38.7	76.6
10	5.2	80.9	74.1	69.5	62.4	37.6	75.7
16	6.7	76.7	70.9	65.5	58.6	41.9	70.0
20	7.5	74.5	69.1	64.2	57.0	38.4	67.0
25	8.5	73.6	67.7	62.2	55.0	39.1	65.1
31.25	9.5	71.5	65.4	59.9	52.6	38.5	62.0
62.5	13.8	70.2	62.7	53.3	45.6	35.9	56.4
100	17.8	66.9	61.4	49.2	40.6	31.9	49.1
200	26.1	62.4	56.5	42.2	33.8	28.4	36.3
250	29.3	60.1	53.2	39.8	31.7	26.5	30.8
300	32.5	57.5	51.6	36.8	29.3	25.2	25.0
350	35.3	55.8	49.5	32.7	26.0	23.9	20.5

## PHYSICAL PROPERTIES

### Insulation

<b>Un-aged tensile strength</b>	≤ 16.5 Mpa	<b>Elongation</b>	300%
<b>Heat-aged tensile strength</b>	≤ 75%	<b>Elongation</b>	75% of un-aged
<b>Shrinkage of insulation</b>	≤ 9.5 mm.		

### Jacket

<b>Un-aged tensile strength</b>	≤ 17.24 Mpa	<b>Elongation</b>	100%
<b>Heat-aged tensile strength</b>	≤ 85%	<b>Elongation</b>	50% of un-aged

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

## ENVIRONMENTAL SPACE

<b>Environmental Space</b>	Plenum
<b>Flame Test Method</b>	CMP; UL 910
<b>Installation Temp.</b>	-20°C to 60°C
<b>Operating Temp.</b>	-20°C to 60°C
<b>Storage Temp.</b>	-20°C to 80°C

## Ordering Information

Part Number	Description	Color	Length	Package
LMZ-LUU06-PBU	U/UTP CAT 6+ Cable, 350 MHz, 23 AWG, CMP	Blue	305 M./1000 FT	Reelex
LMZ-LUU06-PWH	U/UTP CAT 6+ Cable, 350 MHz, 23 AWG, CMP	White	305 M./1000 FT	Reelex