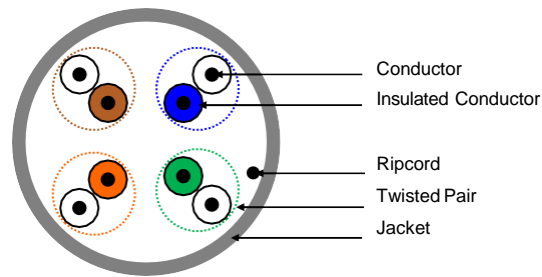


U/UTP CAT 5E Indoor Cable, 100 MHz



STANDARD COMPLIANCE

- ANSI/TIA-568-C.2
- ISO/IEC 11801:2002
- EN 50173-1
- EN 50288-3-1
- IEC 61156-5
- ASTM D4566-98
- UL444
- ICEA S-90-661
- UL 1685
- RoHS

APPLICATION SUPPORT

- 10 BASE-T
- 100 BASE-TX (IEEE 802.3u Fast Ethernet)
- 1000 Base-T (IEEE 802.3ab Gigabit 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, 24 AWG (0.5 mm.)
Insulation	High Density Polyethylene (HDPE), 0.91 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] CMR : thickness 0.65 mm. O.D. 5.3±0.1 mm.

Electrical Performances

Characteristics	Unit	CAT 5E
DC Resistance	$\Omega/100m.$	≤ 9.38
DC Resistance Unbalance	%	≤ 5.00
Mutual Capacitance	nF/100m.	≤ 5.60
Capacitance Unbalance (Pair to Ground)	pF/100m.	≤ 160
Insulation Resistance	M Ω -100m.	≥ 5000
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.	25
Operating Voltage, maximum	Volt	80

Frequency (MHz)	Attenuation (dB/100m.) Max.	NEXT (dB/100m.) Min./Typical	PSNEXT (dB/100m.) Min./Typical	ELFEXT (dB/100m.) Min./Typical	PSELFEXT (dB/100m.) Min./Typical	RL (dB/100m.) Min./Typical	ACR (dB/100m.) Min./Typical
1	2.0	77/80	75/77	68/71	65/67	20/28	75.0/78.0
4	3.8	68/71	66/68	56/59	53/55	23/31	64.2/67.2
8	5.3	64/67	62/64	50/53	47/49	24.5/32.5	58.7/61.7
10	6.0	62/65	60/62	48/51	45/47	25/33	56.0/59.0
16	7.6	59/62	57/59	44/47	41/43	25/33	51.4/54.4
20	8.5	58/61	56/58	42/45	39/41	25/33	49.5/52.5
25	9.5	56/59	54/56	40/43	37/39	24.3/32.3	46.5/49.5
31.25	10.7	55/58	53/55	38/41	35/37	23.6/31.6	44.3/47.3
62.5	15.4	50/53	48/50	32/35	29/31	21.5/29.5	34.6/37.6
100	19.8	47/50	48/47	28/31	25/27	20.1/28.1	27.2/30.2

PHYSICAL PROPERTIES

Insulation

Unaged Elongation	300%
Unaged tensile strength	1.68 kg/sqmm

Jacket

Unaged Elongation	350%
Unaged tensile strength	0.989 kg/sqmm

ENVIRONMENTAL SPACE

Environmental Space	Non-plenum
Flame Test Method	CM; UL 1685
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-LUC5EBL	UTP CAT 5E cable 24 AWG, CMR	Blue	305 M./1000 FT	Pull Box
LMZ-LUC5EWH	UTP CAT 5E cable 24 AWG, CMR	White	305 M./1000 FT	Pull Box