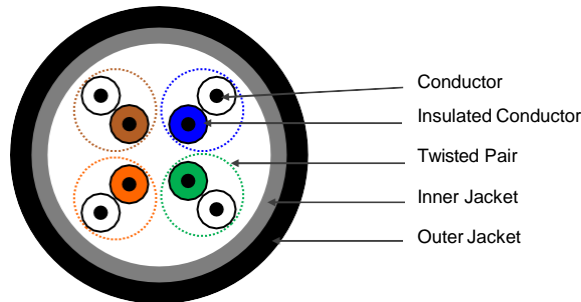


## UTP CAT 5E Outdoor Cable, Double Jacket



### STANDARD COMPLIANCE

- ANSI/TIA-568.2-D
- ISO/IEC 11801:2002
- EN 50173-1
- EN 50288-3-1
- ASTM D4566-98
- UL444
- ICEA S-90-661
- 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

<b>Conductor</b>	Solid annealed bare copper, 24 AWG (0.5 mm.)
<b>Insulation</b>	High Density Polyethylene (HDPE), 0.91 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>Inner Jacket</b>	Black PVC (Polyvinyl chloride) Thickness 0.65 mm.      O.D. 5.2 mm.
<b>Outer Jacket</b>	Black PE (Polyvinyl chloride) Thickness 0.65 mm.      O.D. 6.4 mm.

## Electrical Performances

Characteristics	Unit	CAT 5E
DC Resistance	$\Omega/100\text{m.}$	$\leq 9.38$
DC Resistance Unbalance	%	$\leq 5.00$
Mutual Capacitance	$\text{nF}/100\text{m.}$	$\leq 5.60$
Capacitance Unbalance (Pair to Ground)	$\text{pF}/100\text{m.}$	$\leq 160$
Insulation Resistance	$\text{M}\Omega\text{-}100\text{m.}$	$\geq 5000$
Dielectric Strength	DC kV/sec.	2.5/2
Impedance (Characteristic mean)	$\Omega$	$100 \pm 15$
Nominal Velocity of Propagation (NVP)	%	69
Propagation Delay	$\text{ns}/100 \text{ m.}$	536
Propagation Delay Skew	$\text{ns}/100 \text{ m.}$	45
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 100%

Unaged tensile strength 1.407 kg/sqmm

## ENVIRONMENTAL SPACE

Environmental Space Nom-plenum

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
LMZ-LOC5EDBL	UTP CAT 5E Outdoor cable, Double Jacket	Black	305 M./1000 FT