

UTP Cat 6 Cable

UTP Cat 6 Cable Outdoor with Messenger Wire



Standard Compliance:

The Category 6 U/UTP PE outdoor cable with messenger wire is manufactured and tested directly in accordance with the major industry standards:

- ISO/IEC 11801 2nd Edition
- ANSI/TIA 568-C.2
- EN 50173
- IEC 61156-5
- EN 50288-6-1
- UL, RoHS
- CMX, UL 444

Application:

- Ethernet 10BASE-T, 100BASE-T (Fast Ethernet),
- 1000BASE-T (Gigabit Ethernet),
- 10GBASE-T (10 Gigabit Ethernet over limited distances as specified in the industry 10GBASE-T standards)
- 155 Mb/s ATM, 622 Mb/s , 1.2 Gb/s ATM
- PoE, PoE+
- Outdoor use

Specification :

Construction

Conductor:

- Material/Size BARE Copper/23AWG

Insulation:

- Material HDPE
- Thickness Nominal: 0.225 mm
- Diameter Nominal: 1.02 mm
- Unaged Elongation Min.300%
- Unaged Tensile Strength Min.1.68Kg/mm²

Filler (Cross Sector):

- Material FRPE
- Color White

Ripcord

- Color White

Jacket:

- Material PE
- Thickness Nominal: 0.65 mm
- Diameter Nominal: 6.4 mm
- Color Black
- PET Foil Polyester Tape
- Unaged Elongation Min.100%
- Unaged Tensile Strength Min.350Kg/mm²
- Messenger 1.30mm Galvanized Steel Wire

Electrical Performance

- Impedance (100-250MHz) $100 \pm 15\Omega$
- DC resistance $\leq 9.38\Omega/100m$
- Resistance unbalance $\leq 2\%$ Capacitance
- unbalance to earth $\leq 1600 pF/km$
- Delay Skew $\leq 45ns/100m$
- Prop. Delay (Nominal) $\leq 534ns/100m$

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Specification:

Electrical Performance

- Test voltage 80V
- NVP 67%
- Dielectric Strength 2.5 KV/2 Sec
- Insulation resistance $\geq 5000\text{M}\Omega\cdot\text{km}$
- Coupling Attenuation $\geq 40\text{dB}$
- Conductor Resistance Max. $9.38\Omega/100\text{m}$ at 20°C

Specification:

Mechanical Characteristics

- Maximum Tensile Force During 110N (25lbf)
- Minimum Bend Radius Installation : 8 x Cable Diameter

Temperature Range

- Operation : -40°C to + 85°C
- Installation : -40°C to +85°C
- Storage -40°C to + 85°C

Transmission line performance at 20C:

FREQUENCY	ATTENUATION	NEXT	P.Delay	PSNEXT	ELFEXT	PSELFEXT	RETURN
MHz.	DB/100M	DB	Ns/100M	DB	DB/100M	BB/100M	LOSS
1	2.0	74.0	570	72.3	67.8	64.8	20.0
4	3.8	65.3	552	63.3	55.8	52.8	23.0
10	6	59.3	545	57.3	47.8	44.8	25.0
16	7.6	56.2	543	54.2	43.7	40.7	25.0
20	8.5	54.8	542	52.8	41.8	38.8	25.5
62.5	15.4	47.4	539	45.4	31.9	28.9	21.5
100	19.8	44.3	538	42.3	27.8	24.8	20.1
125	22.0	43.0	537	41.3	26.8	23.1	19.5
155	25.0	42.0	536	40.0	20.7	21.7	18.8
250	32.8	38.3	536	36.3	19.8	16.8	17.3

Order Information:

Part Number	Description	Color
LMZ-LUU06-MBL	Category 6 U/UTP Outdoor w/Drop wire, Single Jacket	Black