

UTP Cat 6 Cable

UTP Cat 6 Cable Outdoor



Standard Compliance:

The Category 6 U/UTP outdoor double jacket is manufactured and tested directly in accordance with the major industry standards:

- ISO/IEC 11801 2nd Edition
- ANSI/TIA 568.2-D
- 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 ((55 m.) 10 Gigabit Ethernet over limited distances as specified in the industry 10GBASE-T standards)
- 2.5G/5G Base-T
- 155 Mb/s ATM, 622 Mb/s, 1.2 Gb/s ATM
- PoE, PoE+ (IEEE 802.3af, IEEE 802.3at)

Specification :

Construction

Conductor:

- Material/Size Solid 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

Inner Jacket

- Material PVC
- Thickness Nominal: 0.65 mm
- Diameter Nominal: 6.3 mm
- Color Black
- Unaged Elongation Min.100%
- Unaged Tensile Strength Min.1.407 Kg/mm2

Jacket:

- Material PE
- Thickness Nominal: 0.65 mm
- Diameter Nominal: 7.5 mm
- Color Black
- Unaged Elongation Min.350%
- Unaged Tensile Strength Min.0.989 Kg/mm2

UTP Cat 6 Cable

Specification:

Electrical Performance

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

Mechanical Characteristics

Temperature Range

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

Minimum Bend Radius : Installation : 4 x Cable Diameter

Maximum Tensile Force During : 110N (25lbf)

Specification:

Electrical Performance

- Impedance (100-250MHz) $100 \pm 15\Omega$
- DC loop resistance $\leq 19.0\Omega/100\text{m}$
- DC resistance $\leq 9.38\Omega/100\text{m}$
- Resistance unbalance $\leq 2\%$ Capacitance
- unbalance to earth $\leq 1600\text{ pF/km}$
- Delay Skew $\leq 45\text{ns}/100\text{m}$
- NVP 67%
- Prop. Delay (Nominal) $\leq 534\text{ns}/100\text{m}$

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-DBL	Category 6 U/UTP Outdoor Double Jacket	Black