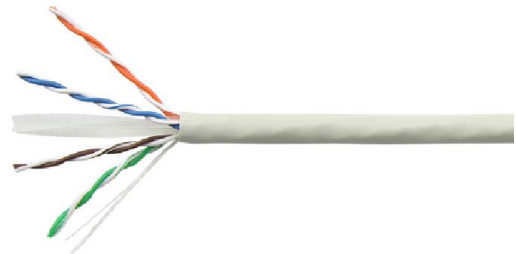


Copper Structured Cabling and Accessories

Category 6 U/UTP 4 Pair Cable

Category 6 U/UTP cables exceed Category 6/Class E specification. It is tested to 250MHz frequency range and designed to support Gigabit 1000Base-T and 1000Base-Tx applications to full 100m.. Category 6 U/UTP cables are UL listed CM, CMX, CMR & CMP and standard packing will be 305m easy pull out boxes.

Extremely high pair-balance providing excellent EMC (Electro Magnetic Compatibility), minimizing radiation, maximizing noise immunity and providing high alien cross talk performance to U/UTP (Unshielded Twisted Pair) cabling systems.



Complied with or exceeds Standard:

- ISO/IEC-11801, 2nd Edition Class E(Category 6)
- IEC 61156-7:2003
- IEEE 802.af, IEEE 802.3at for PoE applications
- IEC 61156-5:2002 Category 6
- ANSI/TIA-568-C.2:2009 Category 6
- LSZH: IEC 60332-1, IEC 60754, IEC 61034

Features & Benefits:

- UL & 3P certified
- 4 twisted-pair cable
- For Gigabit ethernet and up to 2.5Gbit/s applications
- 23AWG insulated copper conducts with PVC jacket
- All cables meet or exceed the requirement proposed by TIA /EIA 568 B .2 ,ISO/IEC 11801 Category 6
- Twisted pairs are brightly coloured and distinguished at a glance
- Striped cross frameworks to match corresponding pairs
- Ultra smooth jacket easy to pull in tight spaces

MATERIAL CONSTRUCTION & DESIGN:

Conductor Material:	Bare Copper
Conductor Size:	0.57mm±0.022mm (D), 23 AWG
Conductor Construction:	Solid
Insulation Material:	High Density PE
Insulation Diameter:	1.43±0.06mm
Conductor Unit Identification:	Solid/Stripe
Colour Code:	Per TIA/EIA 568-B
Total Number of Wires:	8

Rip Cord:	optional
Drain-Wire Material:	N/A
Drain-Wire Size:	N/A
Drain-Wire Construction:	N/A
Outer Jacket:	PVC, LSZH
Outer Jacket Thickness:	6.2±0.244mm
Outer Jacket Colour:	Per Requirement <b>(The default is grey)</b>
Marking:	Per Requirement

## ELECTRICAL, MECHANICAL & TRANSMISSION CHARACTERISTICS

Frequency Range:	1 - 250 MHz
Impedance:	100 Ω±15
Coupling Attenuation:	40 dB min @ 30-100 MHz 40-20Log(f/100) @100-300 MHz
Max. DC Resistance :	73 Ω/km nom.
Max. Resistance Unbalance:	4 %
Capacitance:	5.6nF/100m max.
Capacitance Unbalance:	3.3 pF/m max.
Velocity of Propagation:	69%
Propagation Delay Skew:	35ns/10m max.
Dielectric Strength:	1KV/minute
Min. Insulation Resistance :	5 GΩ•km
Max. Tensile Strength - Short Term:	110 N
Min. Bend Radius:	80 mm
Max. Operating Temperature:	+70 °C
Min. Operating Temperature:	-20 °C

## ELECTRICAL PERFORMANCE CHARACTERISTICS

Cat. 6 Un-screened Pair Horizontal Cables*						
Frequency (MHz)	Attenuation (dB/100m@ 20°C)	NEXT (dB)	PS NEXT (dB)	Return Loss (dB)	ELFEXT (dB)	PSELFEXT (dB)
1.0	2.0	79.3	80.3	25.0	77.8	73.8
4.0	3.7	70.3	71.3	28.0	65.8	61.8
10.0	5.8	64.3	65.3	34.0	57.8	53.8
16.0	7.4	61.2	62.2	30.0	53.7	49.7
20.0	8.2	59.8	60.8	30.0	51.8	47.8
31.25	10.4	56.9	57.9	28.0	44.9	43.9
62.5	15.0	52.4	53.4	28.0	41.9	37.9
100.0	19.3	49.3	50.3	28.0	37.8	33.8

\*Supplied cables meet the minimum Cat. 6 transmission requirements as per IEC 61156-5 Ed. 2

## ORDERING INFORMATION

PART NUMBER	DESCRIPTION	LENGTH
C6-1-X	Category 6 U/UTP 4 Pair cable PVC	305 m
C6-2-X	Category 6 U/UTP 4 Pair cable LSZH	305 m

X: BK(Black), BL(Blue), GN(Green), GY(Gray), RD(Red), WH(White), YL(Yellow)

## PACKING INFORMATION

Cable Length (Meter)	Packing Mode	N.W (kg)	G.W (kg)	Dimension (cm)
305	Pulley Box	12.3	13.0	40.0 x 40.0 x 22.0
1000	Ply Reel	41.0	48.0	47.0 x 47.0 x 30.0