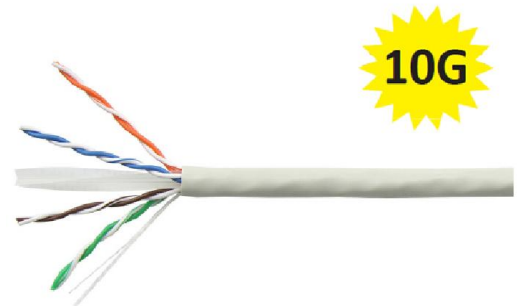


Copper Structured Cabling and Accessories

Category 6A U/UTP 4 Pair Cable

Category 6A U/UTP cables exceed Category 6A/Class EA specification. It is tested to 500MHz frequency range and designed to support 10 Gigabyte applications to full 100m.

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 EA
- ANSI/TIA-568-C.2:2009 Category 6A
- LSZH: IEC 60332-1, IEC 60754, IEC 61034
- IEC 61156-5:2002 Category 6A
- IEEE 802.3an :2006 (10GBASE-T)

Features & Benefits:

- UL & 3P certified
- 23AWG insulated copper conducts
- All cables meet or exceed the requirement proposed by TIA /EIA 568 B .2 ,ISO/IEC 11801 Category 6A
- Twisted pairs are brightly colored and distinguished at a glance
- Striped cross frameworks to match corresponding pairs
- Ultra smooth jacket easy to pull in tight spaces
- 4 twisted-pair cable
- For 10 Gigabit ether net applications

MATERIAL CONSTRUCTION & DESIGN:

Conductor Material:	Bare Copper
Conductor Size:	0.58mm±0.022mm (D), 23 AWG
Conductor Construction:	Solid
Insulation Material:	High Density PE
Insulation Diameter:	1.43±0.06mm
Conductor Unit Identification:	Solid/Stripe
Color Code:	Per TIA/EIA 568-B
Conductor Unit Lay-Up:	Pairs
Total Number of Wires:	8
Rip Cord:	optional
Overall Drain-Wire Material:	N/A

Overall Drain-Wire Construction:	N/A
Outer Jacket:	PVC, LSZH
Outer Jacket Thickness:	7.0mm
Outer Jacket Color:	Per Requirement <b>(The default is grey)</b>
Marking:	Per Requirement

## ELECTRICAL, MECHANICAL & TRANSMISSION CHARACTERISTICS

Pulling Force:	110 N/mm <sup>2</sup> max.
Delay Skew:	25ns/100m max.
Coupling Attenuation:	85 db min @ 30-100 MHz 85-20log(f/100) @100-500 MHz
Characteristic Impedance:	100±6 @ 1-500 MHz
Max. DC Resistance :	72/Km max.
Max. Resistance Unbalance:	2% max.
Capacitance:	45 pF/m nom.
Capacitance Unbalance(Wire to Ground):	1500 pF/Km max.
Dielectric Strength:	1.5KV/ minute min.
Velocity of Propagation(NVP):	67%
Min. Insulation Resistance :	5000 M•Km min.
Transfer Impedance:	N/A
Short Term Bend Radius :	8 x OD mm
Long Term Bend Radius :	4 x OD mm
Temperature Operating Range :	-20 to +70°C
Installation Temperature Range :	0 to +60°C

## ELECTRICAL PERFORMANCE CHARACTERISTICS

Cat. 6A 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	1.8	96	92	29	92	85
4.0	3.3	89	83	32	80	73
10.0	5.2	83	77	36	72	65
16.0	6.7	80	74	36	68	61
20.0	7.5	79	73	36	68	59
31.25	9.4	76	70	34	62	55
62.5	13.7	71	65	34	56	49
100.0	17.8	68	62	33	52	45

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

## ORDERING INFORMATION

PART NUMBER	DESCRIPTION	LENGTH
C6a-1-X	Category 6a U/UTP 4 Pair Cable PVC	305 m
C6a-2-X	Category 6a 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	Ply Reel	15.0	16.8	34.0 x 34.0 x 34.0
1000	Ply Reel	49.3	55.6	56.0 x 56.0 x 25.0