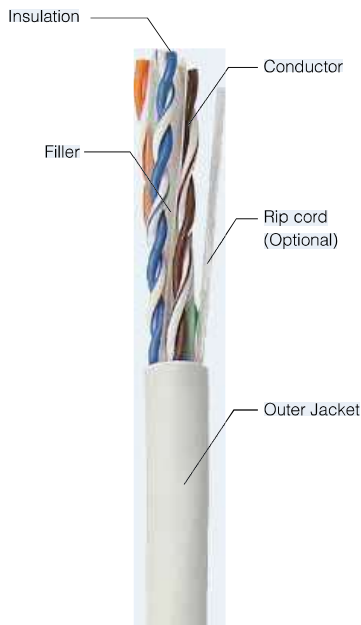


# Copper Structured Cabling Solutions

## Category 6A Cable

### Category 6A (4 Pair) UTP Cable

Global **SIX**

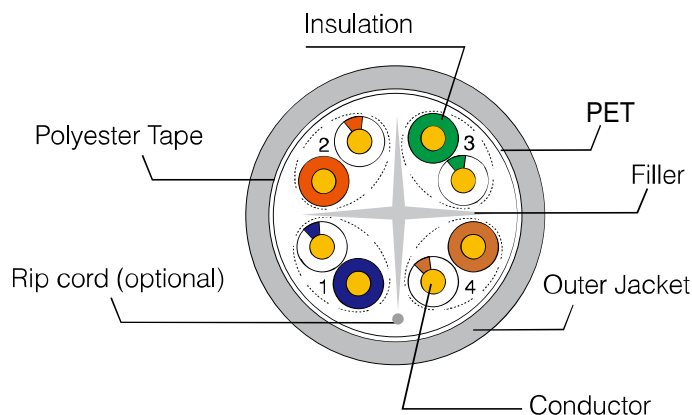


- Cat6A UTP Copper Cable is a component of the GlobalSIX Structured Cabling System. This end-to-end system which is interoperable and backwards-compatible is designed with flexibility to protect network investments well into the future. Will reliably and securely meet required data transmission needs,
- ISO 11801 Class E<sub>A</sub>, ANSI/TIA-568-C.2 Cat6A Standards is ideal for today's high performance equipment and workstations
- Ethernet 10BASE-T, 100BASE-T(Fast Ethernet), 1000BASE-T (Gigabit Ethernet), 10GBASE-T (10 Gigabit Ethernet over limited distance as specified in the industry standards of 10GBASE-T)
- 155Mb/s ATM, 622Mb/s ATM, 1.2Gb/s ATM
- Token Ring 4/16

#### Third Party Tested - Attestation of Conformity

- Cables For Use In Construction Works
- Reaction to Fire Standards
- EN50575:2014 including amendments A1:2016
- EN 60338-1-1:2004 including amendments A1:2015 and A11:2016
- EN 13501-6:2014

Specifications	
Test Standard	ISO/IEC 11801,TIA-568-C.2 ,YD/T1019
Conductor - Material	SOLID-Bare Copper
Conductor - Dimension	23 AWG Nom.O.D.(mm) 1/0.58
Insulation - Material	HDPE
Insulation - Diameter	1.04 ± 0.02mm
Sheath - Material	LSZH, PVC, Plenum, (Complies RoHS)
External - O.D	6.2± 0.2mm



Part Number	Cat6A UTP Solid Cable
G6-UTP-C6A-X-Y*	
X - Jacket/Sheath: X1=PVC, X2=LSOH, X3=PLENUM	
Y - Color: 1=BLUE, 2=GREY, 3=WHITE, 4=GREEN, 5=YELLOW, 6=PURPLE, 7=RED, 8=PINK, 9=ORANGE, 10=BLACK	
* - Reel Length: 3=305m, 5=500m	

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#### Sheath Physical Properties

- Before Aging: Tensile Strength (Mpa)  $\leq 13.5$   
Elongation(%)  $\leq 150$
- Aging Period ( $^{\circ}\text{C} \times \text{hrs}$ )  $100^{\circ}\text{C} \times 24 \text{hx} 7 \text{d}$
- After Aging: Tensile Strength (Mpa)  $\leq 12.5$   
Elongation(%)  $\leq 125$
- Cold Bend ( $-20+2^{\circ}\text{C} \times 4 \text{h}$ ) 8 x Cable O.D. No Visible Cracks

#### Electrical Characteristics(TIA/EIA-568C)

Frequency(MHz)	1	4	8	10	16	20	25	31.25	62.5	100	200	250
Impedance(ohms)	100 $\pm$ 15	100 $\pm$ 15	100 $\pm$ 15	100 $\pm$ 15	100 $\pm$ 15	100 $\pm$ 15	100 $\pm$ 15	100 $\pm$ 15	100 $\pm$ 15	100 $\pm$ 15	100 $\pm$ 22	100 $\pm$ 22
ATT(dB/100m)	2.0	3.8	5.3	6.0	7.6	8.5	9.5	10.7	15.4	19.8	29.0	32.8
RL(dB)	20.0	23	24.5	25.0	25.0	25.0	24.3	23.6	21.5	20.1	18.0	17.3
NEXT(dB)	74.3	65.3	60.8	59.3	56.2	54.8	53.3	51.9	47.4	44.3	39.8	38.3
PSNEXT(dB)	72.3	63.3	58.8	57.3	54.2	52.8	51.3	49.9	45.4	42.3	37.8	36.3
ELFEXT(dB)	67.8	55.8	49.7	47.8	43.7	41.8	39.8	37.9	31.9	27.8	21.8	19.8
PSELFEXT(dB)	64.8	52.8	46.7	44.8	40.7	38.8	36.8	34.9	28.9	24.8	18.8	16.8
PD(ns/100m)	570.0	552	546.7	545.4	543.0	542.0	541.2	540.4	538.6	537.6	536.5	536.3

#### Electrical Characteristics(IEC-61156)

Frequency(MHz)	4	8	10	16	20	25	31.25	62.5	100	200	250
Impedance(ohms)	100 $\pm$ 15	100 $\pm$ 15	100 $\pm$ 15	100 $\pm$ 15	100 $\pm$ 15	100 $\pm$ 15	100 $\pm$ 15	100 $\pm$ 15	100 $\pm$ 22	100 $\pm$ 22	100 $\pm$ 22
ATT(dB/100m)	3.8	5.4	6.0	7.6	8.5	9.6	10.7	15.5	19.9	29.1	33.0
RL(dB)	23.0	24.5	25.0	25.0	25.0	24.3	23.6	21.5	20.1	18.0	17.3
NEXT(dB)	66.3	61.8	60.3	57.2	55.8	54.3	52.9	48.4	45.3	40.8	39.8
PSNEXT(dB)	63.3	58.8	57.3	54.2	52.8	51.3	49.9	45.4	42.3	37.8	36.3
ELFEXT(dB)	56.0	49.9	48.0	43.9	42.0	40.0	38.1	32.1	28.0	22.0	20.0
PSELFEXT(dB)	53.0	46.9	45.0	40.9	39.0	37.0	35.1	29.1	25.0	19.0	17.0
PD(ns/100m)	552.0	546.7	545.4	543.0	542.0	541.2	540.4	538.6	537.6	536.5	536.3

#### Part Number

G6-UTP-C6A-X-Y\*

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