

Copper Structured Cabling Solutions

Category 6A Cable

Category 6A (4 Pair) U/FTP Cable

Global **SIX**

Applications

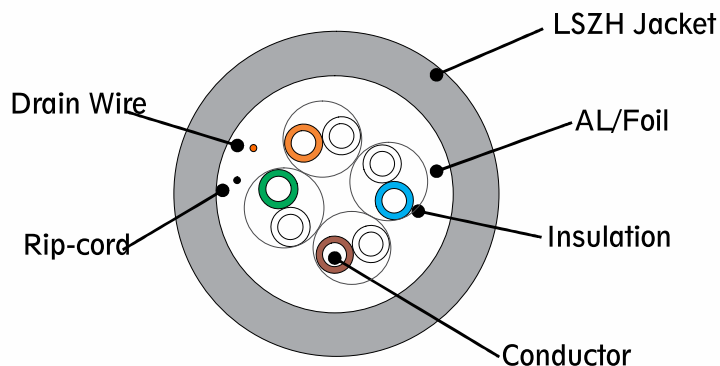
- Cat6A U/FTP Copper Cable is a component of the GlobalSIX Structured Cabling System. This end-to-end system which is interoperable and backwards-compatible is designed with flexibility to protect network investments well into the future. Will reliably and securely meet required data transmission needs,
- ISO 11801 Class E_A, 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 - Compliance Statement

- Unscreened Channel, Class E_A
- Class E_A Channel Requirements
ISO/IEC 11801-1:2017(Ed. 1,0) /
ISO/IEC 11801-2:2017(Ed. 1,0)
EN 50575:2014 / EN 60332-1-2:2004,
including amendment A1:2015, A1:2016 and A11:2016
EN 13501-6:2014

Specifications

Test Standard	ISO/IEC 11801, TIA-568-C.2
Conductor - Material	SOLID-Bare Copper
Conductor - Dimension	23AWG (0.560mm)
Insulation - Material	Skin-foam-skin PE
Insulation - Diameter	1.330 ± 0.05 mm
Inner - Shield - Material	Aluminum-Foil
Sheath - Material	LSZH, PVC, Plenum, PE (complies RoHS)
External - O.D	7.5 ± 0.5 mm



Part Number

G6-UFTP-C6A-X-Y*

Cat6A U/FTP Solid Cable

X - Jacket/Sheath: X1=PVC, X2=LSZH, X3=PLENUM, X4=PE

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) $\geq 10,0$
Elongation (%) ≥ 125
- After Aging: Tensile Strength (Mpa) $\geq 8,0$
Elongation (%) ≥ 100

Electrical Characteristics 20° C

- Delay Skew (ns/100m) ≤ 45
- Velocity of Propagation (%) 74
- Unbalanced-to-ground capacitance (pf/100) max 330
- DC Resistance ($\Omega/100m$) max 9.38
- DC Conductor Resistance Unbalance (%) max 2.0

Technical Performance 100m:

FREQUENCY Mhz	RL db	ATT db	NEXT db	PHASE DELAY ns
1.0	20.0	2.1	74.3	570.0
4.0	23.0	3.8	65.3	552.0
8.0	24.5	5.3	60.8	546.7
10.0	25.0	5.9	59.3	545.4
16.0	25.0	7.5	56.2	543.0
20.0	25.0	8.4	54.8	542.1
25.0	24.3	9.4	53.3	541.2
31.25	23.6	10.5	51.9	540.4
62.5	21.5	15.0	47.4	538.6
100	20.1	19.1	44.3	537.6
200	18.0	27.6	39.8	536.5
250	17.3	31.1	38.3	536.3
300	16.8	34.3	37.1	536.1
500	15.2	45.3	33.8	535.6

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