

## FU6A-H0423-WH

### Description

Osilan's Cat6A cable solutions are flexible and cost-effective solutions that fully comply with category 6/ Class EA standards. Cat6A cables are available in U/UTP, U/FTP, F/UTP, F/FTP, S/FTP shielded cable and with PVC or LSZH sheath, ideal for most of today's LAN network requirements and specifications with designs that support 500 MHz applications.

### Features

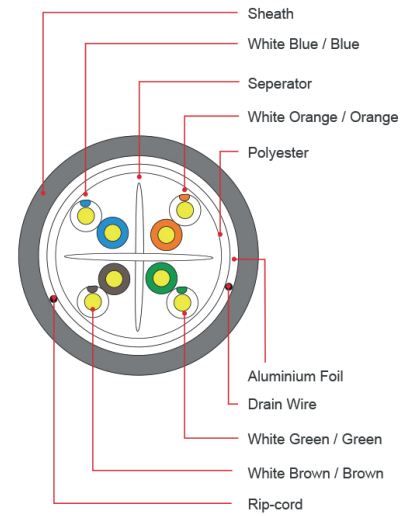
- Category 6A F/UTP copper cable with channel characterized to 500 MHz.
- 4 Pairs, 23 AWG solid copper conductors insulated with skin-foam PE.
- Supports IEEE 802.bt type 3,4 & PoE++ Standards.
- Aluminum foil shield, LSZH Sheath.
- 25-years system warranty

### Application

- Suitable for all category 6A backbone and horizontal Cabling applications.
- 10 Base-T (Ethernet), 100 Base-T (Fast Ethernet), 1000 Base-T (Gigabit Ethernet) and 10G Base-T (10Gigabit Ethernet).
- 155Mb/s ATM, 622Mb/s ATM, 1.2Gb/s ATM, Token Ring 4/16 & ISDN.
- IEEE 802.3af, IEEE 802.3at, IEEE 802.bt type 3 and 4.

### Standards

- ANSI/TIA-568-C.2 Category 6A
- IEC 61156-5
- UL444
- ISO 11801 2<sup>nd</sup> Edition
- IEC 60332-1
- UL1581
- EN 50173-1
- IEC 60332-3C
- UL1666
- EN 50288-3-1



#### Technical Specifications

Tensile Strength	Min. 13.5 MPa.
Cable Outer Diameter	F/UTP (5.6mm) nominal
Insulation	Skin-foam-skin PE, Diameter: 1.12±0.05 mm.
Temperature (Installation)	-30°C to +50°C
Temperature (Operation)	-10°C to +60°C

Frequency (MHz)	RL ≥ dB	ATT(20°C) ≤ dB	NEXT ≥ dB	PHASE DELAY ≤ ns
1	20.0	-	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	47.7	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	533.6

#### Mechanical and Electrical Specification

Bend radius Installation	56 mm
DC resistance	Max. 9.38 Ω/100m at 20° C
DC Conductor Resistance Unbalance	Max 5.0 %
Capacitance unbalance	(pair to ground) Max. 330 pF/100 m at 1kHz
Characteristic impedance	(1 - 250MHz) (100 ± 15) Ω
Characteristic impedance	(250 - 500MHz) (100 ± 22) Ω
Delay Skew	45 ns/100 m (Max.)

Frequency (MHz)	PSNEXT ≥ dB	ELFEXT ≥ dB	PSELFEXT ≥ dB
1	72.3	67.8	64.8
4.0	63.3	55.8	52.8
8.0	58.8	49.7	46.7
10.0	57.3	47.8	44.8
16.0	54.2	43.7	40.7
20.0	52.8	41.8	38.8
25.0	51.3	39.8	36.8
31.25	49.9	37.9	34.9
62.5	45.1	31.9	28.9
100	42.3	27.8	24.8
200	37.8	21.8	18.8
250	36.3	19.8	16.8
300	35.1	18.3	15.3
500	31.8	19.3	10.8

#### ORDERING INFORMATION

Part No.	Description	Packing
FU6A-H0423-WH	Category 6A F/UTP Cables, 4Pairs, 23AWG Solid Copper, LSZH Sheath, Colour White	500m Box

\* More colours are available.