

SF7A-H0423-WH

Description

Osilan's Cat7A cable solutions are flexible and cost-effective solutions that fully comply with category 7A/ Class FA standards. Cat7A cables are available in S/FTP shielded cable and with PVC or LSZH sheath, which is ideal for most of today's LAN network requirements and specifications with designs that support 1000 MHz applications.

Features

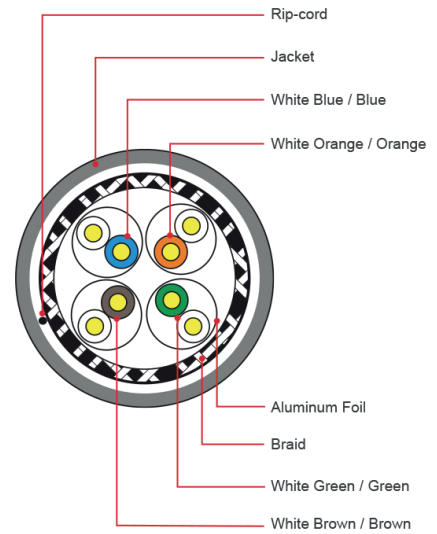
- Category 7A S/FTP copper cable with channel characterized to 1000 MHz.
- 4 Pairs with aluminum foil on each pair.
- All four pairs are surrounded by an overall braid.
- 23 AWG solid copper conductors insulated with skin-foam PE.
- Supports IEEE 802.bt type 3,4 & PoE++ Standards.
- 25-years system warranty.

Application

- Suitable for all category 7A 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-568.2-D Category 7A
- ANSI/TIA-568-C.2 Category 7A
- ISO 11801 2nd Edition
- IEC 61156-5
- EN 50173
- EN 50288-10-1
- EN 50575: Euroclass Eca
- EN 60332-1
- IEC 61034-2
- IEC 60754-1



Technical Specifications

Max Installation tension	110n
Cable diameter	7.6 mm nominal
Insulator diameter	1.05 mm
Cable weight	32.1 kg/500m
Installation temperature	-30°C to +50°C
Operation temperature	-10°C to +60°C

Mechanical and Electrical Specification

Bend radius	30.4 mm
Max resistance	8.4 Ω/100 m
Max resistance unbalance	2%
Dielectric strength	2.5 kv/DC
Mutual capacitance	5.6 nF/100 m at 1kHz
Nominal velocity of propagation	68%
Max operating voltage	80 v

Frequency (MHz)	RL ≥ dB	ATT(20°C) ≤ dB	NEXT ≥ dB	PHASE DELAY ≤ ns
1.0	20.0	-	78.0	570.0
4.0	23.0	3.74	78.0	552.0
8.0	24.5	5.24	78.0	546.7
10.0	25.0	5.86	78.0	545.4
16.0	25.0	7.41	78.0	543.0
20.0	25.0	8.29	78.0	542.0
25.0	24.3	9.29	78.0	541.2
31.25	23.6	10.41	78.0	540.4
62.5	21.5	14.88	75.5	538.6
100	20.1	19.02	72.4	537.6
150	18.9	23.56	69.8	536.9
200	18.0	27.47	67.9	536.5
250	17.3	30.97	66.4	536.3
300	17.3	34.19	65.2	536.1
600	17.3	50.10	60.7	535.5
700	14.2	54.63	59.7	535.4
1000	13.1	66.93	57.3	535.1

Frequency (MHz)	PSNEXT ≥ dB	ELFEXT ≥ dB	PSELFEXT ≥ dB
1	75.0	78.0	75.0
4	75.0	78.0	75.0
8	75.0	75.9	72.9
10	75.0	74.0	71.0
16	75.0	69.9	66.9
20	75.0	68.0	65.0
25	75.0	66.0	63.0
31.25	75.0	64.1	61.1
62.5	72.5	58.1	55.1
100	69.4	54.0	51.0
150	66.8	50.2	47.2
200	64.9	48.0	45.0
250	63.4	46.0	43.0
300	62.2	44.5	41.5
600	57.7	38.4	35.4
700	56.7	37.1	34.1
1000	54.4	34.0	31.0

ORDERING INFORMATION

Part No.	Description	Packing
SF7A-H0423-WH	Category 7A S/FTP Cables, 4Pairs, 23AWG Solid Copper, LSZH Sheath, Colour White	500m Box

* More colours are available.