

## SF8-H0422-YL

### Description

Osilan's Cat8.1/8.2 cable solutions are flexible and cost-effective solutions that fully comply with category 8.1/8.2 standards. Cat8 cables are available in S/FTP shielded cable and with PVC or LSZH sheath, which are ideal for most of today's LAN network requirements and specifications with designs that support 2000 MHz applications.

### Features

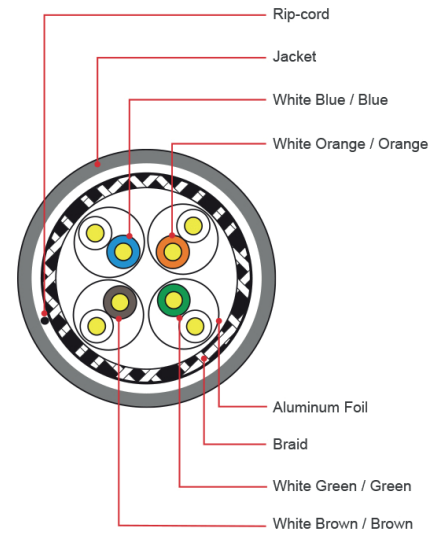
- Category 8.1/8.2 S/FTP copper cable with channel characterized to 2000 MHz
- 4 Pairs with aluminium foil on each pair
- 22 AWG solid copper conductors insulated with skin-foam PE
- Supports IEEE 802.bt type 3,4 & PoE++ Standards
- All four pairs are surrounded by an overall braid.
- LSZH Sheath
- 25-years system warranty

### Application

- Suitable for all category 8.1/8.2 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), 25G Base-T (25Gigabit Ethernet), 40G Base-T (40Gigabit Ethernet)
- IEEE 802.3af, IEEE 802.3at, IEEE 802.bt type 3 and 4

### Standards

- ANSI/TIA-568-C.2 Category 8
- ISO 11801 2nd Edition
- EN 50173-1
- EN 50288-3-1
- IEC 61156-5
- IEC 60332-1
- IEC 60332-3C
- UL444
- UL1581
- UL1666



#### Technical Specifications

Tensile Strength	Min. 13.5 MPa
Cable Outer Diameter	S/FTP (8.4 mm) nominal
Insulation	Skin-foam-skin PE, Diameter: 1.68±0.05 mm
Temperature (Installation)	0°C to +50°C
Temperature (Operation)	-10°C to +60°C

Frequency (MHz)	RL ≥ dB	ATT ≤ dB	NEXT ≥ dB	PSNEXT ≥ dB
1.0	19.0	3.0	65.0	62.0
4.0	19.0	3.0	63.8	60.5
8.0	19.0	3.0	58.9	55.6
10.0	19.0	3.0	57.3	54.0
16.0	18.0	3.0	53.9	50.6
20.0	17.5	3.0	52.3	49.0
25.0	17.0	3.2	50.7	47.3
31.25	16.5	3.6	49.1	45.7
62.5	16.0	5.1	44.0	4.6
100	16.0	6.5	40.5	37.1
200	14.3	9.3	35.3	31.9
250	13.4	10.4	33.6	30.2
300	12.7	15.5	32.3	28.8
400	11.6	13.3	30.1	26.6
500	10.7	15.5	27.9	24.8
600	10.0	16.5	25.7	22.7
1000	8.0	22.0	19.3	16.5
1500	8.0	27.7	13.9	11.2
2000	8.0	32.7	9.8	7.3

#### Mechanical and Electrical Specification

Bend radius Installation	67.2 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	(250 - 500MHz) (100 ± 22) Ω
Delay Skew	45 ns/100 m (Max.)

Frequency (MHz)	ACR-F ≥ dB	PS ACR-F ≥ dB	ACR-N ≥ dB	PS ACR-N ≥ dB
1.0	65.0	62.0	62.0	59.0
4.0	59.9	65.9	60.8	57.5
8.0	53.9	50.9	55.9	52.6
10.0	52.0	49.0	54.3	51.0
16.0	47.9	44.9	50.9	47.6
20.0	45.9	42.9	49.3	49.0
25.0	44.0	41.0	47.5	44.1
31.25	42.1	39.1	45.5	42.1
62.5	36.0	33.0	38.9	35.5
100	32.0	29.0	34.0	30.6
200	25.9	22.9	26.0	22.6
250	24.0	21.0	23.2	19.7
300	22.4	19.4	20.8	17.3
400	19.9	16.9	16.8	13.2
500	18.0	15.0	12.9	9.9
600	16.4	13.4	9.2	6.2
1000	12.0	9.0	-2.6	-5.5
1500	8.4	5.4	-13.8	-16.4
2000	5.9	2.9	-22.9	-25.3

#### CATEGORY 8 S/FTP LSZH

Part No.	Description	Packing
SF8-H0422-YL	Category 8 S/FTP Cables, 4Pairs, 22AWG Solid Copper, LSZH, Colour Yellow	500m Box

\* More colours are available.