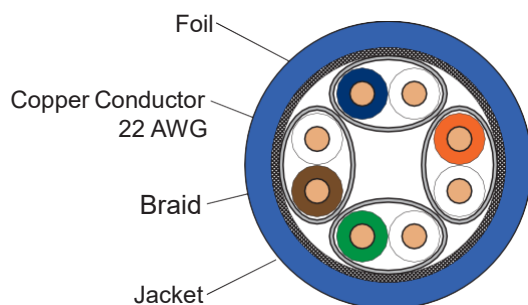


Atlas-X1™ Cat 8 S/FTP Cable, CMR/LSZH

APPLICATION

Atlas-X1 Cat 8 S/FTP cable supports 25GBASE-T networks. The shielded cable provides superior alien crosstalk (AXT) suppression and protects critical data from potential EMI/RFI (electromagnetic interference/radio frequency interference). The cable is part of a complete Atlas-X1 Cat 8 shielded system designed to support next generation BASE-T data center networks.



SPECIFICATION

Cat 8 S/FTP cable shall have a nominal diameter of 8.2 mm. The cable shall be offered with a cable jacket meeting both IEC 60332-1-2 flame rating (LSZH) and CMR. The cable shall be constructed of 22-gauge copper conductors. The cable shall incorporate Mylar™/aluminum foil shields around each pair, with an overall braid. The system shall be classified as Cat 8 S/FTP construction. The Cat 8 system shall be third-party verified to meet ISO/IEC 11801 Class I performance requirements. The cable shall comply with IEC 61156-5, EN 50173-1, EN 50288-11-1, and EN 50575:2014 (Euroclass) with a Dca rating.

FEATURES

- Cable construction using individual shielded pairs and overall braided screen provides high shielding efficiency, excellent alien crosstalk suppression, and EMI/RFI protection
- Ideal for applications where low-smoke zero-halogen or CMR materials are required

DESIGN CONSIDERATIONS

- Suitable for use in ISO/IEC 11801 Class I and Class II (Category 8.1 and 8.2) structured wiring cable systems
- Fully backwards compatible to Cat 7A, Cat 7, Cat 6A, and Cat 6, and Cat 5e cabling products, supporting all of the Class F_A, Class F, Class E_A, Class E, and Class D applications—including 10GBASE-T and 1GBASE-T Ethernet
- Use with Leviton Atlas-X1 Cat 8 Shielded QuickPort® connectors and Atlas-X1 Cat 8 patch cords to support 25 Gigabit and 40 Gigabit Ethernet performance
- Minimum bend radius = 4X cable outside diameter
- Available in blue cable jacket color, meeting Euroclass Dca requirements

STANDARDS COMPLIANCE

- Complies with Euroclass Dca
- ISO/IEC 11801 CLASS I and II
- IEC 61156-9 (draft)
- EN 50173
- RoHS 2 Compliant
- IEEE 802.3at (Type 1) Power over Ethernet (PoE) applications up to 15.4 watts
- IEEE 802.3at (Type 2) Power over Ethernet (PoE+) applications up to 30 watts
- IEEE Draft 802.3bt (Type 3) Power over Ethernet (PoE+) applications up to 60 watts
- IEEE Draft 802.3bt (Type 4) Power over Ethernet (PoE+) applications up to 100 watts - maximum cable bundle limit of 100 cables
- Cisco Universal Power Over Ethernet (UPOE) applications up to 60 watts
- Power over HDBaseT™ (PoH) applications up to 100 watts – maximum cable bundle limit of 100 cables

FIRE RATING

- EN 50575:2014 Euroclass Dca
- IEC 60332-1-2
- IEC 60754-2
- IEC 61034-1 and 2
- UL 444: CMR rated

COUNTRY OF ORIGIN

United Kingdom

WARRANTY INFORMATION

For a copy of Leviton product warranties, visit www.leviton.com/warranty.

PART NUMBERS

Description

Part No.

Atlas-X1 Cat 8 S/FTP Cable, CMR/LSZH, Euroclass Dca, blue, 500-meter spool

126-SFS8D-5LS

TECHNICAL SPECIFICATIONS

Mechanical Properties

Bending Radius	>= 4X OD without load >= 8X OD with load
Temperature range	during operation: -20° C ~ 75° C during installation: 0° C ~ 50° C

Electrical Properties

DC resistance	Max. 14 Ω/100 m at 20° C
Resistance unbalance	Max. 2% at 20° C
Insulation resistance	Min. 5000 MΩ/Km at 20° C
Dielectric Strength	2500 Vdc/2secs
Characteristic impedance (1 - 100MHz)	(100 ± 5) Ω
Nominal velocity of propagation	0.68
Delay Skew	25 ns/100 m

Construction

Conductor	Bare copper wire	22 AWG
Twisting	4 twisted pairs, 2 single conductors paired Twisted pair color code: 1: White/Blue 2: Orange+White/Orange 3: White/Green 4: Brown+White/Brown	
Outer jacket	CMR/LSZH	
Outer diameter	Ø 8.2 mm (0.323")	

SFS8D-5LS

Transmission characteristics (at 20° C)

Freq. (MHz)	NEXT (dB) min.	PS-NEXT (dB) min.	ACRF (dB) min.	PS-ACRF (dB) min.	Return Loss (dB) min.	IL (dB) min.
1	78.0	75.0	78.0	75.0	20.0	2.1
4	78.0	75.0	78.0	75.0	23.0	3.7
10	78.0	75.0	78.0	75.0	25.0	5.8
100	75.4	72.4	60.6	57.6	22.2	18.5
250	69.4	66.4	52.6	49.6	19.4	29.7
500	64.9	61.9	46.6	43.6	17.3	42.8
600	63.7	60.7	45.0	42.0	16.8	47.1
1000	60.4	57.4	40.6	37.6	15.2	61.9
1200	59.2	56.2	39.0	36.0	14.7	68.4
1500	57.8	54.8	37.1	34.1	14.0	77.2
1600	57.3	54.3	36.5	33.5	13.8	80.0
2000	55.9	52.9	34.6	31.6	13.1	90.5



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