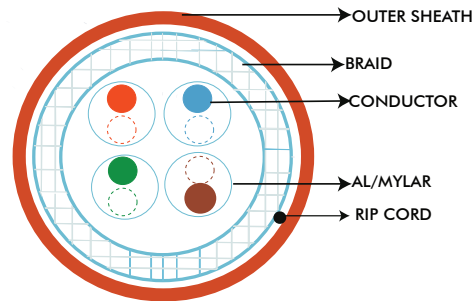


CAT 8 S/FTP 23 AWG CABLE LSZH



DESCRIPTION

Datacom Category 8 cable exceeds the transmission performance requirements of IEC 61156-5 up to 2000 MHz. Category 8 cabling has a greater throughput capability; it can support the transmission of data up to 40Gbps over balanced twisted pair copper cabling. Datacom Cat 8 S/FTP cable shall have a nominal diameter of 8.4 mm. The cable shall be offered with a cable jacket meeting IEC 60332-1-2 flame rating (LSZH). The cable shall be constructed of 23-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.

APPLICATION

- Connect 40GBase-T networks or digital signage in your office school or retail business high-density server room or data center.
- Deliver power to PoE devices, including network switches, security cameras and wireless access points, mounted in areas that are difficult to reach or have no electrical outlets.

DESIGN CONSIDERATIONS

- High Bandwidth requirement.
- 25G/40 Gigabit Ethernet requirement.
- Power over Ethernet (PoE) - IEEE 802.3bt Type 1 to 4.

FEATURES

- With guaranteed performance to 2000MHz, Datacom Cat8 cables exceed the requirements of the International, European and USA cable standards, including ISO/IEC 11801, ANSI/TIA-568.2-D.
- Included in the Datacom 25-Year System Warranty Program when used in conjunction with Datacom copper connectivity. System warranties are available for qualified projects installed by certified Partners.

STANDARDS COMPLIANCE

- Complies with Euroclass Dca.
- ISO/IEC 11801 CLASS I and II.
- IEC 61156-9.
- RoHS 2 Compliant
- EN 50173-1
- EN 50288-11-1
- EN 50575:2014 (Euroclass) with a Dca rating
- IEEE 802.3bt PoE Type 1 (15.4 watts) formerly 802.3af, Type 2 (30 watts) formerly 802.3at, Type 3 (60 watts), Type 4 (90 watts).
- 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 HDBaseTTM (PoH) applications up to 95 watts – maximum cable bundle limit of 100 cables.
- GHMT 30 Meter channel test with components report is available

CAT 8 S/FTP 23 AWG CABLE LSZH

TECHNICAL SPECIFICATIONS	
Mechanical Properties	
Bending Radius (Tension/Installed)	8 X Outer Diameter
Pulling Tension, maximum	110 N
Electrical Properties (-20°C ± 5°C)	
Conductor Resistance (Ω/km)	69.8 (Max.)
Unbalanced-to-ground capacitance (pf/100m) max	120
Resistance Unbalance (%)	2(Max.)
Impedance (Ω)	100±5Ω @100MHz
Nominal velocity of propagation	78%
Delay Skew (ns/100m)	≤25
Limited Power rating	100W
Safety Voltage Rating	80V
Operating Voltage Maximum	80V
Environmental specifications	
Operation Temperature	-40°C to +75°C
Installation Temperature	-20°C to +60°C
Packing Informations	
Packing Length	100m
Packing Weight (K.G)	7

CONSTRUCTION	
Category	CAT 8 S/FTP
Conductor	Solid Bare Copper 23 AWG (0.620 mm ± 0.01 mm)
Insulation	Skin-foam-skin PE
Insulation diameter	1.580±0.05 mm
Core Wrapping	Aluminum / Mylar foil tape
Outer Screening Material	Tinned copper 0.10mm, ≥40% Coverage
Twisting	4 twisted pairs, 2 single conductors paired Twisted pair color code: 1: White Blue /Blue 2: Orange White/Orange 3: White Green /Green 4: Brown White/Brown
Cable lay-up	4 pairs with different pitches
Outer diameter	8.4±0.5 mm
Outer jacket Materials	LSZH
Jacket Thickness	0.55±0.05 mm
Acid Gas Test Method	EN 60754-2
Flame Test Method	EN50399
Smoke Test Method	EN 61034-2
Remote Powering	IEEE 802.3bt Type 4

Transmission characteristics							
Freq.(MHz)	Return Loss ≥ dB	NEXT ≥dB	PSNEXT ≥dB	ACR-F ≥dB	PS ACR-F ≥dB	ACR-N ≥dB	PS ACR-N ≥dB
1.0	19.0	65.0	62.0	65.0	62.0	62.0	59.0
4.0	19.0	63.8	60.5	59.9	56.9	60.8	57.5
8.0	19.0	58.9	55.6	53.9	50.9	55.9	52.6
10.0	19.0	57.3	54.0	52.0	49.0	54.3	51.0
16.0	18.0	53.9	50.6	47.9	44.9	50.9	47.6
20.0	17.5	52.3	49.0	45.9	42.9	49.3	46.0
25.0	17.0	50.7	47.3	44.0	41.0	47.5	44.1
31.25	16.5	49.1	45.7	42.1	39.1	45.5	42.1
62.5	16.0	44.0	40.6	36.0	33.0	38.9	35.5
100	16.0	40.5	37.1	32.0	29.0	34.0	30.6
200	14.3	35.3	31.9	25.9	22.9	26.0	22.6
250	13.4	33.6	30.2	24.0	21.0	23.2	19.7
300	12.7	32.3	28.8	22.4	19.4	20.8	17.3
400	11.6	30.1	26.6	19.9	16.9	16.8	13.2
500	10.7	27.9	24.8	18.0	15.0	12.9	9.9
600	10.0	25.7	22.7	16.4	13.4	9.2	6.2
1000	8.0	19.3	16.5	12.0	9.0	-2.6	-5.5
1500	8.0	13.9	11.2	8.4	5.4	-13.8	-16.4
2000	8.0	9.8	7.3	5.9	2.9	-22.9	-25.3

ORDERING INFORMATION

Description

Datacom Cat8.1 23AWG TIA568 D-2 ISO/IEC 11801-1 25/40G S/FTP LSZH Dca Cable Orange.

Part No.

DC-CL8XS30R