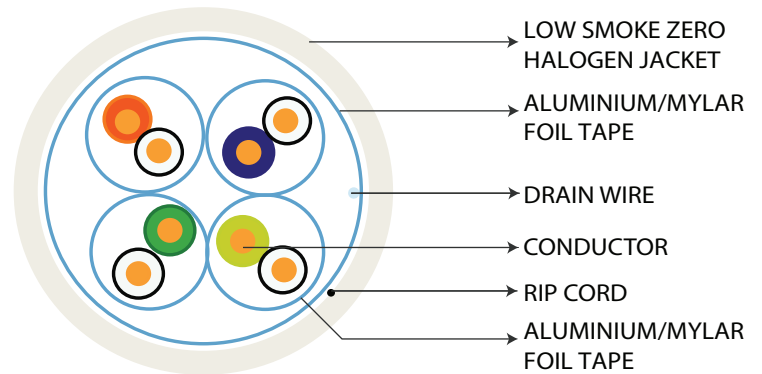
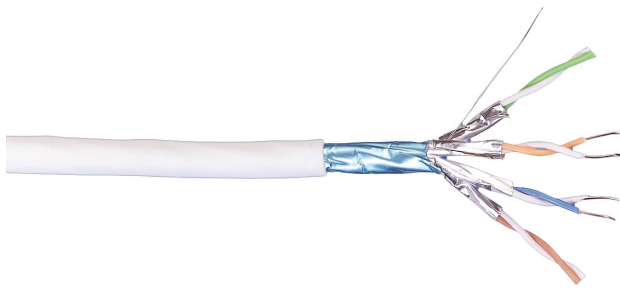


CAT 6A F/FTP 23 AWG CABLE LSZH



DESCRIPTION

Datacom Cat6A F/FTP 23AWG cables are the ideal choice for a 10G Shielded ethernet network. Datacom category 6A/Class EA 4-pair F/FTP cable supports channel performance exceeding ANSI/TIA and ISO/IEC category6A requirements. This cable uses a 5-foil screened design consisting of 4 individual foils wrapped pairs plus an overall foil shield. When combined with Datacom Cat 6A connectivity, component, the end result shall be a channel capable of supporting 10GBASE-T operation over 100-meter, 4-connector topologies. In addition, the fully shielded construction ensures virtually zero alien crosstalk.

APPLICATION

- Ideal cable for 10GBase-T application
- High Bandwidth requirement.
- 1000Base-TX Gigabit Ethernet requirement.

DESIGN CONSIDERATIONS

- High Bandwidth requirement.
- 1000Base-TX Gigabit Ethernet requirement
- Power over Ethernet (PoE)- IEEE 802.3bt Type 1 to 4
- Bend radius \leq 8 cable diameter.
- Future Cat 6A and Class EA applications

FEATURES

- With guaranteed performance to 500MHz, Datacom Cat6A cables exceed the requirements of the International, European and USA cable standards, including ISO/IEC 11801, IEC 61156-5, EN 50173, EN 50288 and TIA/EIA 568-D.2.
- 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.
- GHMT 100 meter channel test with components report is available.

STANDARDS COMPLIANCE

- ANSI/TIA 568.2-D
- ISO/IEC 11801
- INTERNATIONAL EN 50173-1.
- EN 50288-4-1; IEC 60332-3-24.
- IEC 61156-5; IEEE 802.3BT (POE)
- ROHS COMPLIED.

CAT 6A F/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)	93.8 (Max.)
Mutual Capacitance (nF/100M)	5.6 (Max.)
Resistance Unbalance (%)	5 (Max.)
Characteristic impedance (Ω)	100 ± 15
Nominal velocity of propagation	74 %
Worst Delay Skew	≤45
Limited Power rating	1 A
Safety Voltage Rating	80 V
Operating Voltage Maximum	80 V
Environmental specifications	
Operation Temperature	-15 to +75 °C
Installation Temperature	0 to +50 °C
Packing information	
Packing Length	305±1.5 Meter
Packing Weight (K.G)	Net weight 17.85 kg

CONSTRUCTION	
Category	CAT 6A F/FTP
Conductor	Solid Bare Copper 23AWG (0.560 mm ± 0.005mm)
Insulation	Skin-foam-skin PE
Insulation diameter	1.30 mm ± 0.05mm
Core Wrapping	Aluminum / Mylar foil tape
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	7.1 mm ± 0.5mm
Outer jacket Materials	LSZH
Jacket Thickness	0.50 ± 0.05 mm
Bunch Wrapping	Aluminum foil
Acid Gas Test Method	IEC60754-2
Flame Test Method	IEC60332-1
Smoke Test Method	IEC61034-2
Remote Powering	IEEE 802.3bt Type 1 to 4

TRANSMISSION CHARACTERISTICS							
Freq. (MHz)	Return Loss ≥ dB	NEXT ≤dB	PSNEXT ≤dB	ATT ≤dB	Phase Delay ≤ns	ELFEXT ≥dB	PSELFEXT ≥ dB
1	20	74.3	72.3		570	67.8	64.8
4	23	65.3	63.3	3.8	552	55.8	52.8
8	24.5	60.8	58.8	5.3	547	49.7	46.7
10	25	59.3	57.3	5.9	545	47.8	44.8
16	25	56.2	54.2	7.5	543	43.7	40.7
20	25	54.8	52.8	8.4	542	41.8	38.8
25	24.3	53.3	51.3	9.4	541	39.8	36.8
31.25	23.6	51.9	49.9	10.5	540	37.9	34.9
62.5	21.5	47.4	45.4	15.0	539	31.9	28.9
100	20.1	44.3	42.3	19.1	538	27.8	24.8
200	18.0	39.8	37.8	27.6	537	21.8	18.8
250	17.3	38.3	36.3	31.1	536	19.8	16.8
300	16.8	37.1	35.1	34.3	536	18.3	15.3
400	15.9	35.3	33.3	40.1	536	15.8	12.8
500	15.2	33.8	31.8	45.3	536	13.8	10.8

ORDERING INFORMATION

Description

Datacom Cat 6A F/FTP 10G 4 Pair 23AWG Cable (IEC 60332-1)-LSZH 305m/Box White

Part No.

DC-CBL-C6A-FF-LSZH