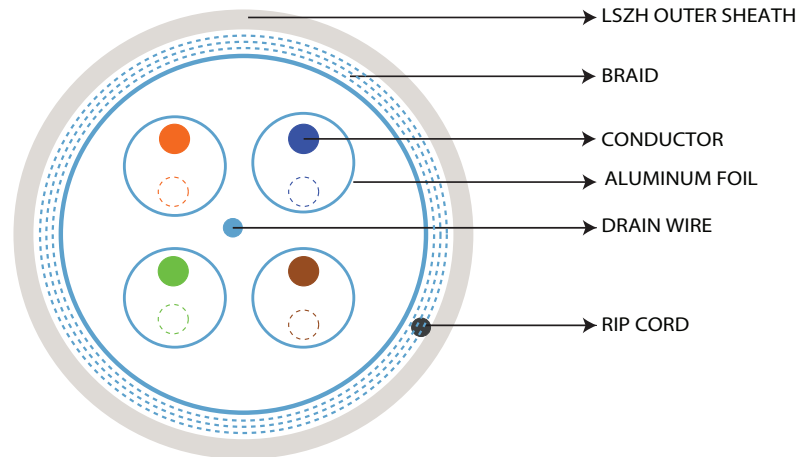


CAT 6A S/FTP 23 AWG CABLE LSZH



DESCRIPTION

Datacom Cat6A S/FTP 23AWG cables are the ideal choice for a 10G Shielded ethernet network. Datacom 6A / Class EA 4-pair S/FTP cable supports channel performance exceeds the requirements of ANSI/TIA, ISO/IEC 11801, IEC 61156-5, EN 50173-1 and EN 50288-10-1. Excellent shielding effect due to individually screened pairs and overall copper braid. Compatible with all current connecting hardware in accordance with TIA 568.-D.2 and ISO/IEC 11801.

When combined with Datacom Cat 6A connectivity, component, the 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 cross talk.

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 ≤ 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.

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 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) | 93.8 (Max.) |
| Mutual Capacitance (pf/100m) | 330 |
| 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 | -20 to +75 °C |
| Installation Temperature | -10 to +50 °C |
| Packing information | |
| Packing Length | 305±1.5 Meter |
| Packing Weight (K.G) | Net weight 17.85 kg |

| CONSTRUCTION | |
|--------------------------|---|
| Category | CAT 6A S/FTP |
| Conductor | Solid Bare Copper 23 AWG 0.560±0.005 |
| Insulation | Skin-foam-skin PE |
| Insulation diameter | 1.30 mm ± 0.05mm |
| Inner Screening Material | Aluminum / Mylar foil tape |
| Outer Screening Material | Aluminum-Magnesium alloy 0.12mm |
| 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 | 7.2 mm ± 0.5mm |
| Outer jacket Materials | LSZH |
| Jacket Thickness | 0.50 ± 0.05 mm |
| Drain wire | Yes |
| Acid Gas Test Method | IEC 60754-2 |
| Flame Test Method | IEC 60332-1 |
| Smoke Test Method | IEC 61034-2 |
| Remote Powering | ≤100W |

| 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 | 48.8 | 5.3 | 546.7 | 49.7 | 46.7 |
| 10 | 25 | 59.3 | 57.3 | 5.9 | 545.4 | 47.8 | 44.8 |
| 16 | 25 | 56.2 | 54.2 | 7.5 | 543.0 | 43.7 | 40.7 |
| 20 | 25 | 54.8 | 52.8 | 8.4 | 542.1 | 41.8 | 38.8 |
| 25 | 24.3 | 53.3 | 51.3 | 9.4 | 541.2 | 39.8 | 36.8 |
| 31.25 | 23.6 | 51.9 | 49.9 | 10.5 | 540.4 | 37.9 | 34.9 |
| 62.5 | 21.5 | 47.4 | 45.4 | 15.0 | 538.6 | 31.9 | 28.9 |
| 100 | 20.1 | 44.3 | 42.3 | 19.1 | 537.6 | 27.8 | 24.8 |
| 200 | 18.0 | 39.8 | 37.8 | 27.6 | 536.5 | 21.8 | 18.8 |
| 250 | 17.3 | 38.3 | 36.3 | 31.1 | 536.3 | 19.8 | 16.8 |
| 300 | 16.8 | 37.1 | 35.1 | 34.3 | 536.1 | 18.3 | 15.3 |
| 500 | 15.2 | 33.8 | 31.8 | 45.3 | 535.6 | 13.8 | 10.8 |

ORDERING INFORMATION

Description

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

Part No.

DC-CBL-C6A-SF-LSZH