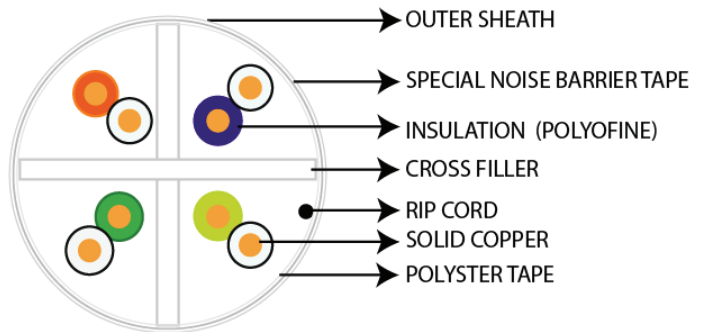
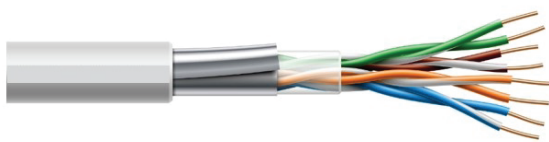


CAT 6A U/UTP 23 AWG CABLE LSZH



DESCRIPTION

Datacom 6A unshielded LSZH Cable is specifically designed to support high-speed data network applications such as 10GBASE-T. The innovative design includes a Special noise barrier tape and polyester tape, which provides excellent Alien Crosstalk defence. The low diameter of the cable allows for a higher cable density in containment, reducing cost.

DATAKOM Cat 6A U/UTP cable shall have a nominal diameter of 7.0mm. The cable is constructed of 23-gauge copper conductors. It consists of 8 Copper Conductors, 2 conductors twisted together to form a pair. 4 Pairs are laid up together. Cat 6A Cables support up to 10 Gbps Data rates, PoE++, and are the ideal choice for high-speed LAN Solutions

APPLICATION

- 100BASE-T through 10GBASE-T Ethernet
- Power over Ethernet (PoE)- IEEE 802.3bt Type 1 to 4
- ATM and token ring
- Data Center Server farm connectivity

DESIGN CONSIDERATIONS

- Use with Datacom Cat 6A UTP connectors.
- Cat 6A patch panels, and Cat 6A patch cords to support 10 Gigabit Ethernet performance.
- POE type 3/4 requirement
- Less external EMI environment.

FEATURES

- Supports up to 500 MHz frequency
- IEEE 802.3bt-2018
- ANSI/TIA-568.2-D and ISO 11801 Cat 6A standard verified
- No grounding or bonding required
- Low overall cable diameter- 7mm (nom.)
- Backward compatible with legacy protocols and applications
- The product is 3rd party verified to ANSI/TIA-568.2-D and ISO 11801 Category 6A standards.

STANDARDS COMPLIANCE

- ANSI/TIA-568.2-D
- IEC 60603-7
- IEC 60512-99-002
- ISO/IEC 11801-1 CLASS E/EA
- IEEE 802.3BT TYPE 4 POE++ (4PPOE)
- ROHS/REACH
- ANSI/TIA-1096-A

CAT 6A U/UTP 23 AWG CABLE LSZH

TECHNICAL SPECIFICATIONS	
Mechanical Properties	
Bending Radius	≤ 8 x Cable Diameter
Pulling Tension,maximum	100 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	69 %
Worst Delay Skew	≤45
Environmental specifications	
Operation Temperature	-15 to +75 °C
Installation Temperature	0 to +50 °C
Packing information	
Packing Length	305 M per Box
Packing Weight (K.G)	Net weight 19.15 kg

CONSTRUCTION		
Category	CAT 6A U/UTP	
Conductor	Solid Bare Electrolytic Grade Copper	23 AWG (0.580 mm ± 0.015 mm)
Insulation	Polyolefin	
Insulation diameter	1.11 mm ± 0.05 mm	
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	7.0 mm ± 0.03 mm	
Outer jacket Materials	LSZH	
Jacket Thickness	0.55 +/- 0.05 mm	
Separator Material	PE	
Bunch Wrapping	Polyester tape and Special Tape barrier	
Acid Gas Test Method	IEC 60754-2	
Flame Test Method	IEC 60332-3-22	
Smoke Test Method	IEC 61034-1	
Remote Powering	75 watts	

TRANSMISSION CHARACTERISTICS						
Freq. (MHz)	IL (dB/100) m	NEXT (dB) min.	PSNEXT (dB) min.	ACRF (dB/100) min.	PSACRF (dB/100) min.	Return Loss (dB) min.
1	1.9	65.0	62.0	64.2	61.2	19.0
4	3.5	64.1	61.8	52.1	49.1	21.0
8	5.0	59.4	57.0	46.1	43.1	21.0
10	5.5	57.8	55.5	44.2	41.2	21.0
16	7.0	54.6	52.2	40.1	37.1	20.0
20	7.8	53.1	50.5	38.2	35.2	19.5
25	8.8	51.5	49.1	36.2	33.2	19.0
31.25	9.8	50.0	47.5	34.3	31.3	18.5
62.5	14.0	45.1	42.7	28.3	25.3	16.0
100	18.0	41.8	39.3	24.2	21.2	14.0
200	26.1	36.9	34.3	18.2	15.2	11.0
300	29.5	35.3	32.7	16.2	13.2	10.0
400	32.7	34	31.4	14.6	11.6	9.2
500	38.4	29.9	27.1	12.1	9.1	8

ORDERING INFORMATION

Description

**Datacom Cat 6A U/UTP 10G 4Pair 23AWG Cable (IEC 60332-1)
(With Alien Cross Talk Barrier) - LSZH 305m/Box White**

Part No.

DC-CBL-C6A-UT-LSZH