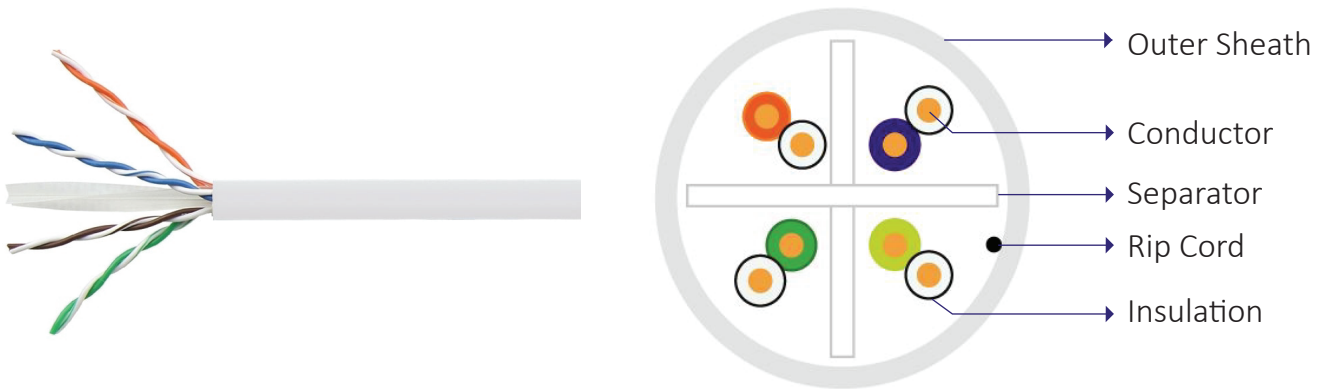


CAT 6 UTP 23 AWG CABLE LSZH / PVC



DESCRIPTION

Datacom Category 6 cable is designed for residential, Enterprise & other 1G ig LAN applications. Category 6 cable shall meet ANSI/TIA-568-2.D Category 6 component standard. The conductors shall be 23 AWG construction with Polyolefin insulation. The copper conductors shall be twisted in pairs and covered by a low smoke zero halogen or PVC jacket. CAT 6 compliance ensures that the cable support. 1000BASE-T Gigabit Ethernet.

APPLICATION

- 10BASE-T through 1000BASE-T Ethernet
- Power over Ethernet (PoE/POE +)
- ATM and token ring
- Power over Ethernet
- Wireless connectivity
- Intelligent lighting
- Security cameras
- Audio/visual, including HDBaseT
- Building automation systems.

FEATURES

- The cable shall meet IEC 60332-1 flame rating.
- The cable shall meet ANSI/TIA-568-D.2 Cat 6 and ISO/IEC 11801-2ND EDITION Class EA performance.
- Third-party verified to support short channels (9.14 meters)
- Independently tested and verified to meet ANSI/TIA Cat 6 and ISO Class E performance.
- Available in LSZH and PVC jacket.
- The Cat 6 system shall be third-party verified to support a 30-foot channel (10-foot permanent link).
- The cable shall meet IEC 60332-1 flame rating.

DESIGN CONSIDERATIONS

- Use with Datacom Cat 6 UTP connectors.
- Bend radius \leq 8 cable outside diameter.
- 25 Years performance warranty for channel.

STANDARDS COMPLIANCE

- ANSI/TIA-568-D.2
- ISO/IEC 11801 2ND EDITION
- ROHS COMPLIANT

CAT 6 UTP 23 AWG CABLE LSZH / PVC

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 ns/100 m
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 6 U/UTP	
Conductor	Solid Bare Copper	23 AWG (0.550 mm ± 0.015 mm)
Insulation	High-Density Polyethylene (HDPE)	
Insulation diameter	0.990 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	5.8 mm ± 0.3 mm	
Outer jacket Materials	LSZH / PVC	
Separator Material	PE	
Acid Gas Test Method	IEC 60754-2	
Flame Test Method	IEC 60332-1	
Smoke Test Method	IEC 61034-1	
Remote Powering	30 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	7.9	53.1	50.5	38.2	35.2	19.5
25	8.9	51.5	49.1	36.2	33.2	19.0
31.25	10.0	50.0	47.5	34.3	31.3	18.5
62.5	14.4	45.1	42.7	28.3	25.3	16.0
100	18.6	41.8	39.3	24.2	21.2	14.0
200	27.4	36.9	34.3	18.2	15.2	11.0
250	31.1	35.3	32.7	16.2	13.2	10.0

ORDERING INFORMATION

Description

Datacom Cat 6 U/UTP 4 Pair 23 AWG Cable - PVC 305m/Box White

Datacom Cat 6 U/UTP 4 Pair 23 AWG Cable - LSZH 305m/Box White

Part No.

DC-CBL-C64P-PVC

DC-CBL-C64P-LSZH