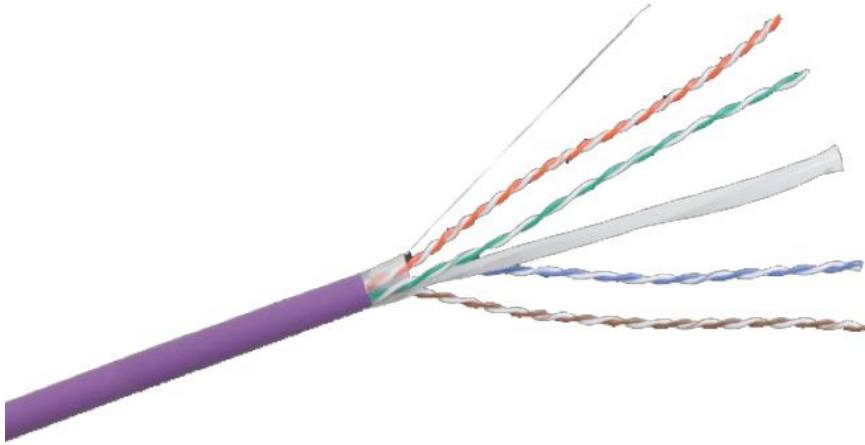


Professionally approved products.

Datasheet

Cat 6 U/UTP LSZH Cable

RS Stock number 556-304



Description:

Category 6 U/UTP LSZH cables are designed to deliver a robust standards based performance ensuring optimum bandwidth for today's high speed network applications. The cable is designed to support horizontal networking applications over distances up to 100 metres. Each Category 6 U/UTP LSZH exceed the minimum specified performance for Category 6 U/UTP cables and support all CLASS E applications as defined within ISO/IEC 11801 (2nd Edition): 2010 such as 1000BASE-T (Gigabit Ethernet), ATM-155, 100BASE-Tx, Token Ring 100Mbs-1, and 1G FCBASE-T.

Standards Compliance:

The Category 6 U/UTP LSZH cable is manufactured and tested directly in accordance with the major industry standards:

- ISO/IEC 11801 2 nd edition
- ANSI/TIA 568-C.2
- EN 50173
- IEC 61156-5
- EN 50288-3-1

Category 6 U/UTP LSZH cables exceed the requirements of:

- IEC 60332-1-2
- IEC 60754-2
- IEC 61034

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Datasheet Specifications:

CONSTRUCTION

Conductor	A single strand of 23AWG(0.574mm)copper
Insulation	Polythene
Cable	8 insulated wires formed into 4 pairs. The 4 pairs are subsequently cabled together around a polyethylene cross-filler to form a cohesive unit.
Sheath	A uniform layer of Violet coloured Low Smoke Zero Halogen (LSZH) compound (RAL 4005)
Diameter	6.0mm

Electrical properties at 20°C

Characteristic Impedance (1-100MHz)	100 ± 15Ω
DC loop resistance	≤ 19.0Ω/100m
Resistance unbalance	≤ 2%
Capacitance unbalance to earth	≤ 1600 pF/km
Delay Skew	≤ 40ns/100m @ 100MHz
Nominal velocity of propagation	67%
Propagation delay (Nominal)	≤ 534ns/100m
Test voltage (d.c. for 1 minute)	
Conductor/Conductor	1000V
Insulation resistance (500V d.c)	≥ 500MΩ.km
Coupling attenuation	≥ 40dB

Mechanical Characteristics

Temperature Range	
Operation	-20°C to + 60°C
Installation	0°C to +50°C
Storage	-20°C to + 70°C

Maximum Tensile Force	
During Installation	100N
Minimum Bend Radii	

CONSTRUCTION

Installation	8 x Cable Diameter
Installed	4 x Cable Diameter