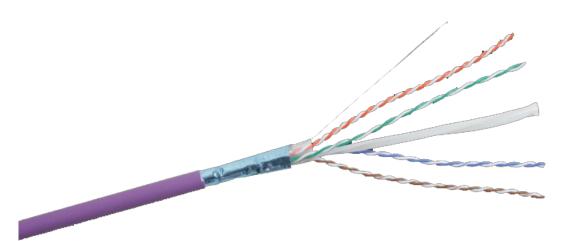




Cat 6 F/UTP Low Smoke Zero Halogen Cable



Category 6 F/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 F/UTP LSZH exceed the minimum specified performance for Category 6 F/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.

FEATURES

■ REACH / SVHC compliant regulation (EC) No. 1907/2006

Pair colour code:

- Pair 1:White/Blue, and Blue
- Pair 2:White/Orange, and Orange
- Pair 3:White/Green, and Green
- Pair 4:White/Brown, and Brown

SPECIFICATION

CONSTRUCTION

Conductor 23AWG solid copper Insulation Polyethylene

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.

Screen An aluminised polyester tape screen applied with a 15% minimum overlap (The aluminium side is in

continuous contact with the tinned copper drain wire)

Sheath A uniform layer of Violet coloured Low Smoke Zero Halogen (LSZH) compound (RAL 4005)

Diameter 7.1 ± 0.2 mm

Electrical properties at 20°C

Characteristic Impedance (1-100MHz) $100 \pm 15\Omega$ DC loop resistance $\leq 19.0\Omega/100 m$

Resistance unbalance ≤ 2%

Capacitance unbalance to earth \leq 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) $\geq 500M\Omega$.km Coupling attenuation $\geq 55dB$

Mechanical CharacteristicsTemperature Range

CONSTRUCTION

Operation $-20^{\circ}\text{C to} + 60^{\circ}\text{C}$ Installation $0^{\circ}\text{C to} + 50^{\circ}\text{C}$ Storage $-20^{\circ}\text{C to} + 70^{\circ}\text{C}$

Maximum Tensile Force

During Installation 100N

Minimum Bend Radii

Installation 8 x Cable Diameter
Installed 4 x Cable Diameter

TRANSMISSION LINE PERFORMANCE AT 20°C

FREQUENCY MHZ	ATTENUATION DB/100M	NEXT DB	ACR DB/100M		ELFEXT DB/100M	PSELFEXT DB/100M	RETURN LOSS
1	2.1	74.0	71.9	72.0	68	65	20
4	3.8	65.3	61.5	63.3	56	53	23
10	6.0	59.3	53.3	57.3	48	45	25
16	7.6	56.0	48.4	54.0	44	41	25
20	9.3	45.8	36.5	42.8	42	39	25
62.5	17	38.4	21.4	35.4	32	29	21.5
100	22.0	35.3	13.3	32.3	28	25	20.1
125	22.5	43.0	20.5	41.0	26	23	19.5
155.5	25.4	42.0	16.6	40.0	24	21	18.8
250	33.0	38.3	5.3	32.3	20	17	17.3

STANDARDS COMPLIANCE

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

- ISO/IEC 11801 2nd Edition
- ANSI/TIA 568-C.2
- ANSI/TIA 308-C
- IEC 61156-5
- EN 50288-3-1

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

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

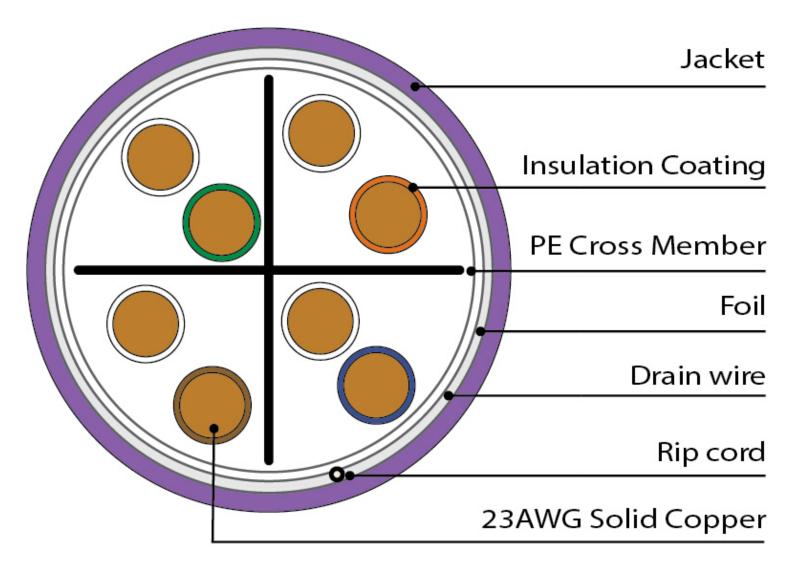
ORDERING INFORMATION

DESCRIPTION
Category 6 F/UTP LSZH 305m Box

PART NO. FUTP6305LSZH

Please contact our sales team on +44 (0) 1908 441 121 for further ordering information.

TECHNICAL DRAWING



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