

## **CAT 6 LSZH UTP NETWORK CABLE**





#### **APPLICATION**

A twisted 4 pair high performance cable for data transmission in LAN Networks. Category 6 is recommended for all new installations, supports a frequency range of up to 250MHz and is designed for transmission speeds of up to 1 gigabit per second Ethernet. LSZH sheath for installations where fire, smoke emissions and toxic fumes create a potential risk to life and equipment.

#### CONSTRUCTION

Conductor: 23 AWG Class 1 solid copper

conductor

Insulation: High Density Polyethylene (HDPE)

Sheath: Low Smoke Zero Halogen (LSZH)

## **CABLE STANDARDS**

TIA/EIA-568 ISO/IEC 11801 TIA/EIA 568-C.2 YD/T1019

Pin Assignments

T568A T568B

## **CHARACTERISTICS**

Temperature Limits: Fixed: -20°C to +50°C

Minimum Bending Radius: As per cable

manufacturer datasheet

### **CORE IDENTIFICATION**

Pair 1: Blue Blue/White
Pair 1: Orange Orange/White
Pair 1: Green Green/White
Pair 1: Brown Brown / White

Sheath: Violet or Black



## **CAT 6 LSZH UTP NETWORK CABLE- DIMENSIONS**

CCCL CODE	NUMBER OF CONDUCTORS	NUMBER OF PAIRS	AWG STRANDING	WEIGHT (KG/305M BOX)	OVERALL DIAMETER (MM)	
4UTPCAT6LSF	8	4	AWG 23	16	6.1	

# CAT 6 LSZH UTP NETWORK CABLE - SIGNAL PERFORMANCE

FREQUENCY MHZ	ATTENUATION DB/100M	NEXT DB	PS-NEXT DB	RL DB	ELFEXT DB	PS-ELFEXT DB/100M	PHASE DELAY NS
1	2.03	74.3	72.3	20	67.8	64.8	570
4	3.78	65.3	63.3	23	55.8	52.8	552
8	5.32	60.8	58.8	24.5	49.7	46.7	546.73
10	5.95	59.3	57.3	25	47.8	44.8	545.38
16	7.55	56.2	54.2	25	43.7	40.7	543
20	8.47	54.8	52.8	25	41.8	38.8	542.05
25	9.51	53.3	41.3	24.3	39.8	36.8	541.2
31.25	10.67	51.9	49.9	23.6	37.9	34.9	540.44
62.5	15.38	47.7	45.4	21.5	31.9	28.9	538.55
100	19.8	44.3	42.3	20.1	27.8	24.8	537.6
200	28.98	39.8	37.8	18	21.8	18.8	536.54
250	32.85	38.3	36.3	17.3	19.8	16.8	536.27

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