

**CATEGORY 6 LSZH CABLE, 4 PAIR, UTP**

**Description:**

CAT6 LSZH - ENHANCED 550 MHz 23 AWG SOLID BC, 4PR, UTP ANSI/TIA 568.2-D, ISO/11801 CLASS E, EN50575:2014 Dca-s1,d1,a1 LOW SMOKE ZERO HALOGEN, LSZH JKT - 1000 FT/305M BOX

**Part Number: Jacket Color:**

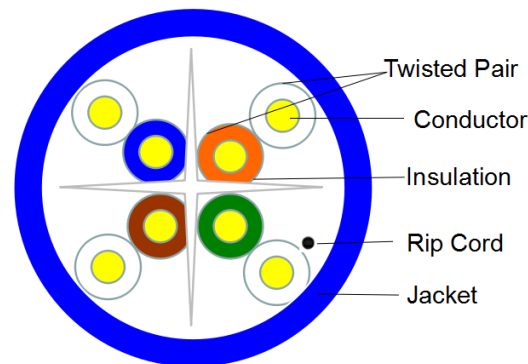
CAT6-BL-LSZH	Blue
CAT6-GN-LSZH	Green
CAT6-OR-LSZH	Orange
CAT6-WT-LSZH	White
CAT6-LSZH-GY	Gray

**Regulatory**

ANSI/TIA 568.2-D and ISO/IEC 11801 Class E  
EU RoHS 2011/65 EU Compliant  
IEC 60332-1-2

**Application:**

Networking Lan Cable  
Low Voltage Cable - Telecommunication power limited



**Construction Characteristics:**

Conductor	Material	Solid Bare Copper
	Size	23AWG X 4P
	Construction	1/0.57+/-0.005mm
Insulation	Material	HDPE
	Min.Thickness	0.200mm
	AVG.Thickness	0.220mm
	Diameter	1.03+/-0.01mm
	Colors	Blue- White/Blue Orange-White/Orange Green-White/Green Brown-White/Brown
Separator	Material	PE
Jacket	Material	LSZH
	Min.Thickness	0.54mm
	AVG.Thickness	0.60mm
	Diameter	6.20+/-0.40mm
	Rip Cord	Nylon
	Color	Per request
Bend Radius		Min 20D/125mm

**Electrical & Physical Characteristics:**

Operating Temperature Range		- 20°C + 75°C	
Minimum Installation Temperature		0°C + 40°C	
Conductor Resistance		Max 72.2ohm/km at 20°C	
Dielectric Strength		Min AC1.5KV	
Spark Test		5.0KV	
Insulation	Unaged	Tensile Strenght	16.5Mpa
		Elongation	500%
	Aged	Tensile Strenght	14.2Mpa(100°C 168h)
		Elongation	250%(100°C 168h)
Jacket	Unaged	Tensile Strenght	11.3 Mpa
		Elongation	100%
	Aged	Tensile Strenght	8.5Mpa(100°C 168h)
		Elongation	50%(100°C 168h)
Rated Voltage Insulated/Operating		Max 300V/80V	
DC Resisitance Unbalance		Max 5%	
Pair-to-Ground Capacitance Unbalance		Max 3300pF/km	
Characteristic Impedance		100+/-15OHM	
Nominal Velocity of Propagation(%)		67~69	
Propagation Delay		Max 536ns/100m	
Delay Skew		Max 40ns/100m	

**Marking:**

STRUCTURED CABLE PRODUCTS --- CAT6-LSZH --- ENHANCED 550MHZ UTP ANSI/TIA 568.2-D ISO/IEC 11801 CLASS E EN50575:2014 Dca 4PR 23AWG SOL BC - LSZH JKT EU RoHS EC ZONE/DEVICE A B C D E 0 1 2 3 4 5 6 7 8 9 \*\*\*M

**Packaging**

Approx.Weight	Approx.Dimension(mm)	Package	Packages per pallet
14.5kgs/31.967lbs	400X290X400	1000FT/Box	36/24

## Performance

ITEM Frequency	Attenuatio n Max (dB)	NEXT Min (dB)	PS NEXT Min (dB)	ACR Min (dB)	RL Min (dB)	ELFEXT Min (dB)	PS ELFEXT Min (dB)	PSACR Min (dB)
1	2	74.3	72.3	72.3	20	67.8	64.8	70.3
4	3.8	65.3	63.3	61.5	23	55.8	52.8	59.5
8	5.3	60.8	58.8	55.5	24.5	49.7	46.7	53.5
10	6	59.3	57.3	53.3	25	47.8	44.8	51.3
16	7.6	56.2	54.2	48.6	25	43.7	40.7	46.6
20	8.5	54.8	52.8	46.3	25	41.8	38.8	44.3
25	9.5	53.3	51.3	43.8	24.3	39.8	36.8	41.8
31.25	10.7	51.9	49.9	41.2	23.6	37.9	34.9	39.2
62.5	15.4	47.4	45.4	32	21.5	31.9	28.9	30
100	19.8	44.3	42.3	24.5	20.1	27.8	24.8	22.5
200	29	39.8	37.8	10.8	18	21.8	18.8	8.8
250	32.8	38.3	36.3	5.5	17.3	19.8	16.8	3.5
300	36.4	37.1	35.1	0.7	16.8	18.3	15.3	---
400	43	35.3	33.3	---	15.9	15.8	12.8	---
500	48.9	33.8	31.8	---	15.2	13.8	10.8	---