



# CAT6LSZH-305-P

CAT6, 305m Cable, UTP, LSZH (Purple)



## Key Features:

- CAT6 solid copper cable
- LSZH
- 23AWG
- Meter marked
- Outer sheath colour : purple
- Reaction to fire : Eca



## SPECIFICATIONS

<b>Model Number</b>	CAT6LSZH-305-P
<b>Material</b>	Bare Copper
<b>American Wire Gauge</b>	23AWG
<b>Insulation</b>	
<b>Material</b>	HDPE
<b>Mim. Average Thickness</b>	0.18mm(0.007")
<b>Diameter</b>	0.9 mm ± 0.08 mm(0.035"± 0.0031")
<b>Colour</b>	8-core, Blue, white/blue; orange, white/orange; green, white/green; brown, white/brown
<b>Rip Cord</b>	
<b>Material</b>	Polyester
<b>Specification</b>	250D

(continued)

**Sheath**

<b>Material</b>	LSZH
<b>Min. Average Thickness</b>	0.54±0.03mm (0.022"±0.0011")
<b>Diameter</b>	5.8 mm ± 0.2mm(0.24"± 0.011")
<b>Colour</b>	Purple
<b>Reaction to Fire</b>	Eca

**Electrical**

<b>Max. DC Resistance of a Single Conductor @20°C</b>	< 87Ω/Km
<b>Min. Insulation Resistance</b>	≥50MΩ ·km/DC500V
<b>Dielectric Strength</b>	No breakdown with 1KV DC for 1 min

**Transmission**

<b>Characteristic Impedance</b>	100 ± 15Ω
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**Mechanical**

<b>Installation Bending Radius</b>	>8 times of outer cable diameter
<b>Conductor Elongation at Break</b>	≥15%

**Environmental**

<b>Shrinkage of Insulation</b>	≤5%
<b>Colour Migration</b>	No migration
<b>Resistance of Insulation</b>	
<b>Low Temperature Bending Test</b>	No cracking after the test
<b>Heat Shock Test</b>	No cracking after the test
<b>Operation Temperature</b>	-10°C to +60°C (14°F to 140°F)
<b>Installation Temperature</b>	-5°C to +50°C (23°F to 122°F)
<b>Storage Temperature and Humidity</b>	-10°C to +40°C (14°F to 104°F), <60% (RH)

### Packaging

<b>Length</b>	305m (1000.66 ft) ± 1.5 m (4.92 ft)
<b>Packaging Dimensions</b>	380mm × 380mm × 200mm (15.35" × 15.35" × 9.05") (L × W × H)
<b>Net Weight</b>	10.7kg±0.6kg (22 lb±1.32lb)
<b>Gross Weight</b>	11.7kg±0.6kg (24.20 lb±1.32lb)

### Executive Standard

<b>Executive Standard</b>	EN50575:2014+A1:2016 EN IEC62368-1:2020+A11:2020 ISO/IEC 11801 ; ANSI/TIA 568-C.2
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### Technical Performance (100m)

Frequency (MHz)	RL ≥dB	ELFEXT ≥dB	NEXT ≥dB	ATT(20°C) ≥dB	PSNEXT ≥dB	PSACR-N ≥dB	PSELFEXT ≥dB
1	25.6	78	82.3	1.6	80	78.4	78
16	28.1	59.5	64.2	7.1	64.4	57.4	52.8
31	32.6	48.3	61.1	10	59.4	49.5	48.4
62	27.7	40.6	55.2	14.3	53.3	39.6	40.6
100	26.8	35.2	48.6	18.2	47.8	29.8	35.2
200	23.9	28.7	47.2	26.3	44.7	18.9	28.7
250	24.6	27	48.2	29.4	44.8	16.7	27

