

CAT6LSZH-305-P

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



Key Features:

- CAT6 solid copper cable
- LSZH
- 23AWG
- Meter marked at 1m intervals
- Outer sheath colour : purple
- Reaction to fire : Eca



SPECIFICATIONS

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

Sheath

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

Electrical

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

Transmission

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| Characteristic Impedance | 100 ± 15Ω |
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Mechanical

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

Environmental

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

Packaging

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

Executive Standard

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|---------------------------|--------------------------------------------------------------------------------------|
| Executive Standard | EN50575:2014+A1:2016 EN IEC62368-1:2020+A11:2020 ISO/IEC 11801 ; ANSI/TIA 568-C.2 |
|---------------------------|--------------------------------------------------------------------------------------|

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 |

