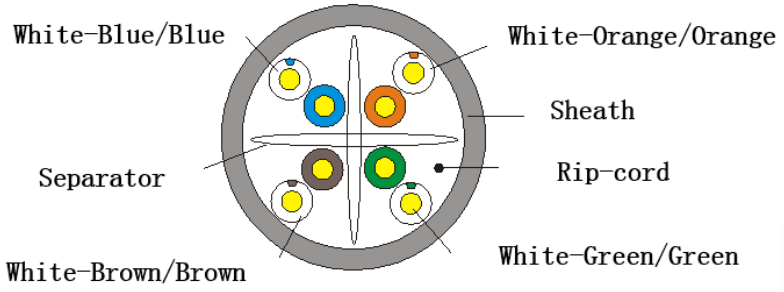
# DS-1LN6-UE-W
# U/UTP Cat6 PVC 24AWG CPR Eca & UL CM Cable

## Key Feature

- Stable electrical performance, compliant with ANSI/TIA-568.2-E, ISO/IEC 11801.
- Solid-Bare Copper conductor with less resistance, and better electrical properties and transmission performance.
- Sheath with strong mechanical properties, and high tensile and compressive strength, reducing damage during the project.
- With a flame-retardant sheath, for enhanced safety.
- Excellent performance in the Fluke permanent link test (90m) and channel test (100m).
- Support PoE application.
- Compliant with RoHS 2.0.






## Specification

| Model | DS-1LN6-UE-W | |
|---|---|---|
| Category | Cat.6 | |
| Reference standard | ISO/IEC 11801, ANSI/TIA-568.2-E, RoHS 2.0 | |
| Fire resistance | CPR Eca, UL CM | |
| Conductor | Material | Solid-Bare Copper (99.99%) |
| | Diameter | 0.53 ± 0.005 mm (24AWG) |
| Insulation | Material | HDPE |
| | Diameter | 0.95 ± 0.05 mm |
| Sheath | Thickness | 0.50 ± 0.05 mm |
| | Diameter | 5.80 ± 0.50 mm |
| | Material | PVC |
| | Color | White |
| Rip-cord | Yes | |
| Separator | Yes | |
| Sheath physical properties | Before aging | Tensile strength ≥ 13.5 Mpa<br>Elongation ≥ 150% |
| | Aging period | 100°C × 24h × 7d |
| | After aging | Tensile strength ≥ 12.5 Mpa<br>Elongation ≥ 125% |
| | Cold bend | -20 ± 2°C × 4h, 8 × cable O.D, no visible cracks |
| Electrical Characteristics (20°C) | 1.0-250.0 MHz impedance | 100 ± 15 Ω |
| | 1.0-250.0 MHz delay skew | ≤ 45 ns/100 m |
| | DC resistance | ≤ 9.38 Ω/100 m |
| | DC conductor resistance unbalance | ≤ 4.0% |
| | Package dimension | 400 mm × 400 mm × 240 mm |
| | Weight | 12.5 ± 1 kg |
| | Cable length | 305 ± 1.5 m |
| | Operating temperature | -20°C to 70°C |
| | Operating voltage | ≤57 V |

## Technical Performance (100 m)

| Frequency (MHz) | ATT ≤ (dB) | RL ≥(dB) | NEXT ≥(dB) | PS NEXT ≥(dB) | EL FEXT ≥(dB) | PS EL FEXT ≥(dB) | Phase delay ≤(ns) |
|---|---|---|---|---|---|---|---|
| 1 | 2.03 | 20.0 | 74.3 | 72.3 | 67.8 | 64.8 | 570 |
| 4 | 3.78 | 23.0 | 65.3 | 63.3 | 55.8 | 52.8 | 552 |
| 8 | 5.32 | 24.5 | 60.8 | 58.8 | 49.7 | 46.7 | 547 |
| 10 | 5.95 | 25.0 | 59.3 | 57.3 | 47.8 | 44.8 | 545 |
| 16 | 7.55 | 25.0 | 56.2 | 54.2 | 43.7 | 40.7 | 543 |
| 20 | 8.47 | 25.0 | 54.8 | 52.8 | 41.8 | 38.8 | 542 |
| 25 | 9.51 | 24.3 | 53.3 | 51.3 | 39.8 | 36.8 | 541 |
| 31.25 | 10.67 | 23.6 | 51.9 | 49.9 | 37.9 | 34.9 | 540 |
| 62.5 | 15.38 | 21.5 | 47.7 | 45.4 | 31.9 | 28.9 | 539 |
| 100 | 19.80 | 20.1 | 44.3 | 42.3 | 27.8 | 24.8 | 538 |
| 200 | 28.98 | 18.0 | 39.8 | 37.8 | 21.8 | 18.8 | 537 |
| 250 | 32.85 | 17.3 | 38.3 | 36.3 | 19.8 | 16.8 | 536 |

## Available Model

DS-1LN6-UE-W

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