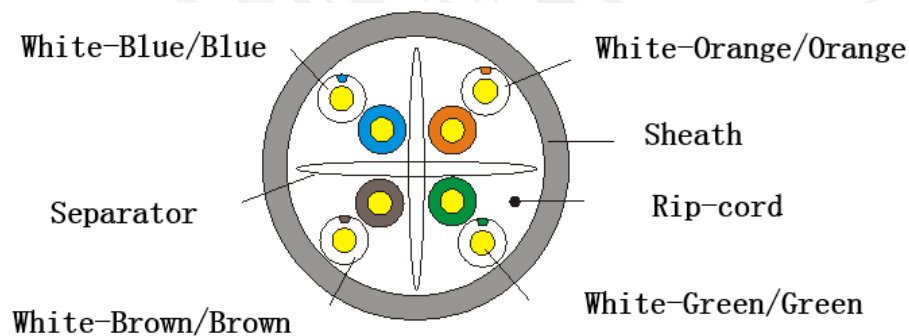


## DS-1LN6USL3 U/UTP Cat6 LSZH 23AWG CPR Cca Cable

### Feature and Function

- Stable electrical performance, compliant with ANSI/TIA-568.2-D, IEC61156, ISO/IEC11801.
- Compliant with RoHS 2.0.
- Sheath with strong mechanical properties, and high tensile and compressive strength, reducing damage during the project.
- Excellent performance in the Fluke 90-meter permanent link test while working continuously at 50°C high temperature.
- Excellent performance in the Fluke 100-meter channel test while being continuously loaded with 57 V/1 A DC power (PoE).
- Solid-Bare Copper conductor with less resistance, and better electrical properties and transmission performance.



## Specification

|                                   |                                          |                                                  |
|-----------------------------------|------------------------------------------|--------------------------------------------------|
| Model                             | DS-1LN6USL3                              |                                                  |
| Category                          | Cat.6                                    |                                                  |
| Reference standard                | ISO/IEC11801, ANSI/TIA-568.2-D, RoHS 2.0 |                                                  |
| Fire resistance                   | CPR Cca s1a d0 a1                        |                                                  |
| Conductor                         | Material                                 | Solid-Bare Copper (99.95%)                       |
|                                   | Diameter                                 | 0.565± 0.005 mm 23AWG                            |
| Insulation                        | Material                                 | HDPE                                             |
|                                   | Diameter                                 | 0.98 ± 0.05 mm                                   |
| Sheath                            | Thickness                                | 0.50 ± 0.05 mm                                   |
|                                   | Diameter                                 | 6.20 ± 0.50 mm                                   |
|                                   | Material                                 | LSZH                                             |
|                                   | Color                                    | Blue                                             |
| Rip-cord                          | Yes                                      |                                                  |
| Separator                         | Yes                                      |                                                  |
| Sheath physical properties        | Before aging                             | Tensile strength ≥ 10.0 Mpa<br>Elongation ≥ 125% |
|                                   | Aging period                             | 100°C × 24h × 10d                                |
|                                   | After aging                              | Tensile strength ≥ 8.0 Mpa<br>Elongation ≥ 100%  |
|                                   | 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                        | 383 mm (W) × 393 mm (H) × 310 mm (D)             |
|                                   | Weight                                   | 15 ± 1kg                                         |
|                                   | Cable length                             | (305 ± 1.5) m                                    |
|                                   | Ambient temperature                      | -20°C to 75°C (-4°F to 167°F)                    |
|                                   | Operating voltage                        | 57 V                                             |

## Technical Performance (100 m)

| Frequency (MHz) | ATT (20 °C) ≤ (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

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