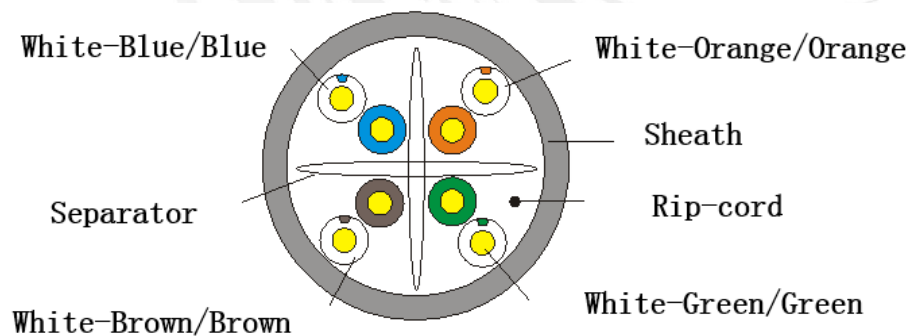


## DS-1LN6USL5 U/UTP Cat6 LSZH 23AWG CPR Eca Cable

### 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-1LN6USL5                                                                                               |                                                  |
| Category                          | Cat.6                                                                                                     |                                                  |
| Sheath printing                   | HIKVISION NETWORK CABLE CAT6 U/UTP 23AWG LSZH CPR Eca VERIFIED TO ANSI/TIA-568.2-D<br>****m mm/dd/yyyy xx |                                                  |
| Reference standard                | ISO/IEC11801, ANSI/TIA-568.2-D, RoHS 2.0                                                                  |                                                  |
| Fire resistance                   | CPR Eca                                                                                                   |                                                  |
| 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                                                                                                     | White                                            |
| 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 @ ≤ 250 MHz                           |
|                                   | 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                                                                                         | 334 mm (W) × 338 mm (H) × 270 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

DS-1LN6USL5

Distributed by



**HIKVISION®**

### Headquarters

No.555 Qianmo Road, Binjiang District,  
Hangzhou 310051, China  
T +86-571-8807-5998  
overseasbusiness@hikvision.com

**Hikvision USA**  
T +1-909-895-0400  
sales.usa@hikvision.com

**Hikvision Australia**  
T +61-2-8599-4233  
salesau@hikvision.com

**Hikvision India**  
T +91-22-28469900  
sales@pramahirvision.com

**Hikvision Canada**  
T +1-866-200-6690  
sales.canada@hikvision.com

**Hikvision Thailand**  
T +662-275-9949  
sales.thailand@hikvision.com

**Hikvision Europe**  
T +31-23-5542770  
sales.eu@hikvision.com

**Hikvision Italy**  
T +39-0438-6902  
info.it@hikvision.com

**Hikvision Brazil**  
T +55 11 3318-0050  
Latam.support@hikvision.com

**Hikvision Turkey**  
T +90 [216]521 7070- 7074  
sales.tr@hikvision.com

**Hikvision Malaysia**  
T +601-7652-2413  
sales.my@hikvision.com

**Hikvision UK & Ireland**  
T +01628-902140  
sales.uk@hikvision.com

**Hikvision South Africa**  
Tel: +27 [10] 0351172  
sale.africa@hikvision.com

**Hikvision France**  
T +33[0]1-85-330-450  
info.fr@hikvision.com

**Hikvision Kazakhstan**  
T +7-727-9730667  
nikia.panfilov@hikvision.ru

**Hikvision Vietnam**  
T +84-974270888  
sales.vt@hikvision.com

**Hikvision UAE**  
T +971-4-4432090  
salesme@hikvision.com

**Hikvision Singapore**  
T +65-6684-4718  
sg@hikvision.com

**Hikvision Spain**  
T +34-91-737-16-55  
info.es@hikvision.com

**Hikvision Tashkent**  
T +99-87-1238-9438  
uzb@hikvision.ru

**Hikvision Hong Kong**  
T +852-2151-1761  
info.hk@hikvision.com

**Hikvision Russia**  
T +7-495-669-67-99  
saleru@hikvision.com

**Hikvision Korea**  
T +82-[0]31-731-8817  
sales.korea@hikvision.com

**Hikvision Poland**  
T +48-22-460-01-50  
info.pl@hikvision.com

**Hikvision Indonesia**  
T +62-21-2933759  
Sales.Indonesia@hikvision.com

**Hikvision Colombia**  
sales.colombia@hikvision.com