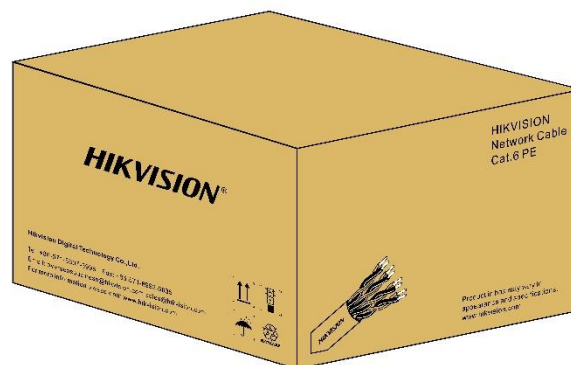
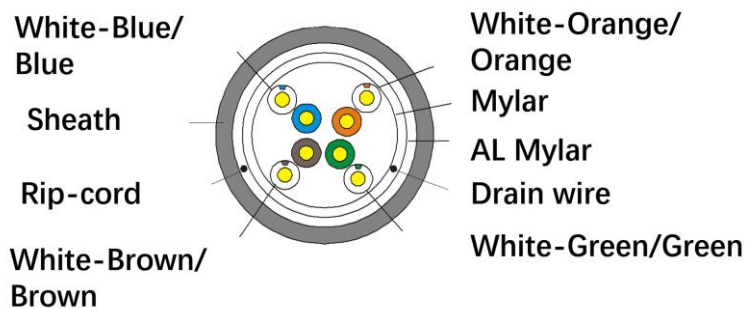


## DS-1LN5EOPSPE

### F/UTP Cat5E PE 24AWG Cable

#### Key Feature

- 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 57V/1A DC power (PoE).
- Solid-Bare Copper conductor with less resistance, and better electrical properties and transmission performance.



## Specification

|                                   |                                          |                                                                                                 |
|-----------------------------------|------------------------------------------|-------------------------------------------------------------------------------------------------|
| Model                             | DS-1LN5EOPSPE                            |                                                                                                 |
| Category                          | Cat.5E                                   |                                                                                                 |
| Reference standard                | ISO/IEC11801, ANSI/TIA-568.2-D, RoHS 2.0 |                                                                                                 |
| Fire resistance                   | No                                       |                                                                                                 |
| Conductor                         | Material                                 | Solid-Bare Copper (99.95%)                                                                      |
|                                   | Diameter                                 | $0.50 \pm 0.005$ mm 24AWG                                                                       |
| Insulation                        | Material                                 | HDPE                                                                                            |
|                                   | Diameter                                 | $1.05 \pm 0.05$ mm                                                                              |
| Sheath                            | Thickness                                | $0.55 \pm 0.05$ mm                                                                              |
|                                   | Diameter                                 | $6.50 \pm 0.50$ mm                                                                              |
|                                   | Material                                 | PE                                                                                              |
|                                   | Color                                    | Black                                                                                           |
| Rip-cord                          | Yes                                      |                                                                                                 |
| Separator                         | No                                       |                                                                                                 |
| Sheath physical properties        | Before aging                             | Tensile strength $\geq 14$ Mpa<br>Elongation $\geq 600\%$                                       |
|                                   | Aging period                             | $100^{\circ}\text{C} \times 24\text{h} \times 10\text{d}$                                       |
|                                   | After aging                              | Tensile strength $\geq 14$ Mpa<br>Elongation $\geq 500\%$                                       |
|                                   | Cold bend                                | $-20 \pm 2^{\circ}\text{C} \times 4\text{h}$ , $8 \times$ cable O.D, no visible cracks          |
| Electrical Characteristics (20°C) | 1.0-100.0 MHz impedance                  | $100 \pm 15 \Omega$                                                                             |
|                                   | 1.0-100.0 MHz delay skew                 | $\leq 45$ ns/100 m                                                                              |
|                                   | DC resistance                            | $\leq 9.38 \Omega/100$ m                                                                        |
|                                   | DC conductor resistance unbalance        | $\leq 4.0\%$                                                                                    |
|                                   | Package dimension                        | 334 mm (W) $\times$ 338 mm (H) $\times$ 269 mm (D)                                              |
|                                   | Weight                                   | $12 \pm 1$ kg                                                                                   |
|                                   | Cable length                             | $(305 \pm 1.5)$ m                                                                               |
|                                   | Ambient temperature                      | $-20^{\circ}\text{C}$ to $75^{\circ}\text{C}$ ( $-4^{\circ}\text{F}$ to $167^{\circ}\text{F}$ ) |
|                                   | Operating voltage                        | 57 V                                                                                            |

## Technical Performance (100 m)

| Frequency<br>(MHz) | ATT (20 °C)<br>≤ (dB) | RL<br>≥ (dB) | NEXT<br>≥ (dB) | PS NEXT<br>≥ (dB) | EL FEXT<br>≥ (dB) | PS EL FEXT<br>≥ (dB) | Phase delay<br>≤ (ns) |
|--------------------|-----------------------|--------------|----------------|-------------------|-------------------|----------------------|-----------------------|
| 1                  | 2.00                  | 20.00        | 65.30          | 62.30             | 63.80             | 60.80                | 570.00                |
| 4                  | 4.10                  | 23.00        | 56.30          | 53.30             | 51.80             | 48.80                | 552.00                |
| 8                  | 5.80                  | 24.50        | 51.80          | 48.80             | 45.70             | 42.70                | 547.00                |
| 10                 | 6.50                  | 25.00        | 50.30          | 47.30             | 43.80             | 40.80                | 545.00                |
| 16                 | 8.20                  | 25.00        | 47.20          | 44.20             | 39.70             | 36.70                | 543.00                |
| 20                 | 9.30                  | 25.00        | 45.80          | 42.80             | 37.80             | 34.80                | 542.00                |
| 25                 | 10.40                 | 24.30        | 44.30          | 41.30             | 35.80             | 32.80                | 541.00                |
| 31.25              | 11.00                 | 23.60        | 42.90          | 39.90             | 33.90             | 30.90                | 540.00                |
| 62.5               | 17.00                 | 21.50        | 38.40          | 35.40             | 27.90             | 24.90                | 539.00                |
| 100                | 22.00                 | 20.10        | 35.30          | 32.30             | 23.80             | 20.80                | 538.00                |

## Available Model

DS-1LN5EOPSPE

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