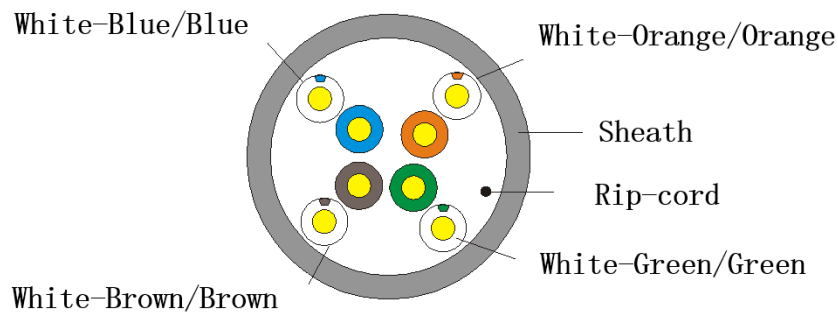


## DS-1LN5E-S U/UTP Cat5E PVC 24AWG UL CM Cable

### 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-1LN5E-S		
Category	Cat.5E		
Reference standard	ISO/IEC11801, ANSI/TIA-568.2-D, RoHS 2.0		
Fire resistance	CPR Eca/UL CM		
Conductor	Material	Solid-Bare Copper (99.95%)	
	Diameter	0.50 ± 0.005 mm 24AWG	
Insulation	Material	HDPE	
	Diameter	0.88 ± 0.05 mm	
Sheath	Thickness	0.50 ± 0.10 mm	
	Diameter	5.00 ± 0.40 mm	
	Material	PVC	
	Color	Grey	
Rip-cord	Yes		
Separator	No		
Sheath physical properties	Before aging	Tensile strength ≥ 10.0 Mpa Elongation ≥ 125%	
	Aging period	100°C × 24h × 10d	
	After aging	Tensile strength ≥ 8.0 Mpa Elongation ≥ 100%	
	Cold bend	-20 ± 2°C × 4h, 8 × cable O.D, no visible cracks	
Electrical Characteristics (20°C)	1.0-100.0 MHz impedance	100 ± 15 Ω	
	1.0-100.0 MHz delay skew	≤ 45 ns/100 m	
	DC resistance	≤ 9.38 Ω/100 m	
	DC conductor resistance unbalance	≤ 4.0%	
	Package dimension	100m:255 mm (W) × 255 mm (H) × 100 mm (D) or	
		305m: 350 mm (W) × 350 mm (H) × 200 mm (D)	
	Cable length	100 ± 0.5m or	
		305 ± 1.5m	
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	2.0	20.0	65.3	62.3	63.8	60.8	570
4	4.1	23.0	56.3	53.3	51.8	48.8	552
8	5.8	24.5	51.8	48.8	45.7	42.7	547
10	6.5	25.0	50.3	47.3	43.8	40.8	545
16	8.2	25.0	47.2	44.4	39.7	36.7	543
20	9.3	25.0	45.8	42.8	37.8	34.8	542
25	10.4	24.3	44.3	41.3	35.8	32.8	541
31.25	11.7	23.6	42.9	39.9	33.9	30.9	540
62.5	17.0	21.5	38.4	35.4	27.9	24.9	539
100	22.0	20.1	35.3	32.3	23.8	20.8	538

## Available Model

305-meter option: DS-1LN5E-S

100-meter option: DS-1LN5E-S-100

Distributed by




### 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@pramahikvision.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  
Letam.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