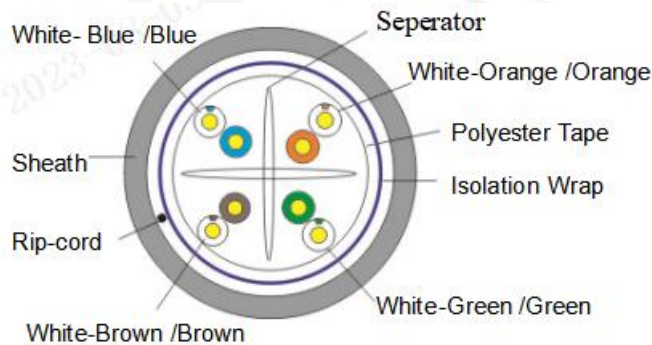


## DS-1LN6AUSPE

### U/UTP Cat6A PE 23AWG 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.
- Excellent performance in the alien crosstalk test (6-around-1 cable test).



## Specification

Model	DS-1LN6AUSPE	
Category	Cat.6A	
Reference standard	ISO/IEC11801, ANSI/TIA-568.2-D, RoHS 2.0	
Fire resistance	CPR Fca	
Conductor	Material	Solid-Bare Copper (99.95%)
	Diameter	0.565 ± 0.005 mm 23AWG
Insulation	Material	PE
	Diameter	1.12 ± 0.1 mm
Sheath	Thickness	0.55 ± 0.05 mm
	Diameter	7.3 ± 0.50 mm
	Material	PE
	Color	Black
Rip-cord	Yes	
Separator	Yes	
Sheath physical properties	Before aging	Tensile strength ≥ 10.0 Mpa Elongation ≥ 350%
	Aging period	100°C × 24h × 10d
	After aging	Elongation ≥ 300%
	Cold bend	-20 ± 2°C × 4h, 8 × cable O.D, no visible cracks
Electrical Characteristics (20°C)	1.0-250.0 MHz	100±15
	251.0-500.0 MHz impedance	100±22
	1.0-500.0 MHz delay skew	≤ 45 ns/100 m
	DC resistance	≤ 9.38 Ω/100 m
	DC conductor resistance unbalance	≤ 4.0%
	Package dimension	325 mm (W) × 380 mm (H) × 385 mm (D)
	Weight	14 ± 1kg
	Cable length	(305 ± 1.5) m
Ambient temperature	-40°C to 75°C (-40°F to 167°F)	
Operating voltage	80 V	

## Technical Performance (90 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	1.9	19.1	65.0	62.0	64.2	61.2	521
4	3.5	21.0	64.1	61.8	52.1	49.1	504
8	5.0	21.0	59.4	57.0	46.1	43.1	500
10	5.5	21.0	57.8	55.5	44.2	41.2	498
16	7.0	20.0	54.6	52.2	40.1	37.1	496
20	7.8	19.5	53.1	50.7	38.2	35.2	495
25	8.8	19.0	51.5	49.1	36.2	33.2	495
31.25	9.8	18.5	50.0	47.5	34.3	31.3	494
62.5	14.0	16.0	45.1	42.7	28.3	25.3	492
100	18.0	14.0	41.8	39.3	24.2	21.2	491
200	26.1	11.0	36.9	34.3	18.2	15.2	490
250	29.5	10.0	35.3	32.7	16.2	13.2	490
300	32.7	9.2	34.0	31.4	14.6	11.6	490
400	38.4	8.0	29.9	27.1	12.1	9.1	490
500	43.8	8.0	26.7	23.8	10.2	7.2	490

## Available Model

DS-1LN6AUSPE

### Headquarters

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



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