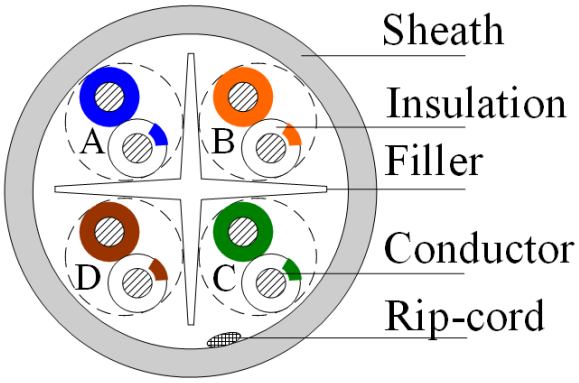
DS-1LN6OUSPE
U/UTP Cat6 PE 23AWG Cable

Key Feature

- Stable electrical performance, compliant with ANSI/TIA-568.2-E, ISO/IEC 11801.
- Solid-Bare Copper conductor with less resistance, and better electrical properties and transmission performance.
- Sheath with strong mechanical properties, and high tensile and compressive strength, reducing damage during the project.
- PE sheath, preventing damage from long-term UV exposure.
- Excellent performance in the Fluke permanent link test (90m) and channel test (100m).
- Support PoE application.
- Compliant with RoHS 2.0.





Specification

Model	DS-1LN6OUSPE	
Category	Cat.6	
Reference standard	ANSI/TIA-568.2-E, ISO/IEC 11801, RoHS 2.0	
Fire resistance	CPR Fca	
Conductor	Material	Solid-Bare Copper (99.99%)
	Diameter	0.550±0.004 mm 23AWG
Insulation	Material	HDPE
	Diameter	0.98 ±0.05mm
Sheath	Thickness	0.50 ± 0.10 mm
	Diameter	5.90 ± 0.30 mm
	Material	PE
	Color	Black
Rip-cord	Yes	
Separator	Yes	
Sheath physical properties (outer)	Before aging	Tensile strength ≥ 10.0 Mpa Elongation ≥ 350%
	Aging period	100°C × 24h × 7d
	After aging	Elongation ≥ 300%
	Cold bend	-20 ± 2°C × 4h, 8 × cable O.D, no visible cracks
Electrical Characteristics (20°C)	Characteristic 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	430 mm (L) ×215mm (W) × 430mm (H)
	Weight	10.1 ± 1.0kg
	Cable length	(305 ± 1.5) m
	Ambient temperature	-20°C to 75°C
	Operating voltage	≤57 V

Technical Performance (100 m)

Frequency (MHz)	ATT≤ (dB)	RL ≥(dB)	NEXT ≥(dB)	PS NEXT ≥(dB)	EL FEXT ≥(dB)	PS EL FEXT ≥(dB)	Phase delay ≤(ns)
1	2.02	20	74.3	72.3	67.8	64.8	570
4	3.78	23	65.3	63.3	55.8	52.8	552
8	5.32	24.5	60.8	58.8	49.7	46.7	546.73
10	5.95	25	59.3	57.3	47.8	44.8	545.38
16	7.55	25	56.2	54.2	43.7	40.7	543
20	8.47	25	54.8	52.8	41.8	38.8	542.05
25	9.51	24.3	53.3	51.3	39.8	36.8	541.2
31.25	10.67	23.6	51.9	49.9	37.9	34.9	540.44
62.5	15.38	21.5	47.4	45.4	31.9	28.9	538.55
100	19.8	20.1	44.3	42.3	27.8	24.8	537.6
200	28.98	18.0	39.8	37.8	21.8	18.8	536.54
250	32.85	17.3	38.3	36.3	19.8	16.8	536.27

Available Model

DS-1LN6OUSPE

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www.hikvision.com
support@hikvision.com

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