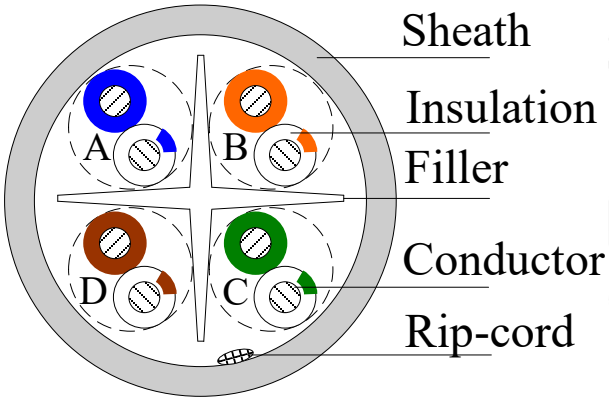
DS-1LN6OUSPE

U/UTP Cat6 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.





Specification

Model	DS-1LN6OUSPE	
Category	Cat.6	
Reference standard	ISO/IEC11801, ANSI/TIA-568.2-D, RoHS 2.0	
Fire resistance	No	
Conductor	Material	Solid-Bare Copper (99.95%)
	Diameter	0.552±0.005 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	Before aging	Tensile strength ⩾ 9.7 Mpa Elongation ⩾ 350%
	Aging period	100°C × 24h × 2d
	After aging	Tensile strength ⩾ 75% of before aging Elongation ⩾ 75% of before aging
	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
	1.0-250.0 MHz delay skew	⩽ 45 ns/100 m
	DC resistance	⩽ 9.38 Ω/100 m
	DC conductor resistance unbalance	⩽ 2.0% within pair ⩽ 5.0% between pairs
	Package dimension	430mm (W) × 430mm(H) × 235mm(D)
	Weight	10 ± 1kg
	Cable length	(305 ± 1.5) m
	Ambient temperature	-20°C to 75°C
	Operating voltage	57 V

Technical Performance (100 m)

Frequency (MHz)	ATT (20 ℃) ≤ (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	570.0
4	3.78	23.0	65.3	63.3	55.8	52.8	552.0
8	5.32	24.5	60.8	58.8	49.7	46.7	546.7
10	5.95	25.0	59.3	57.3	47.8	44.8	545.4
16	7.55	25.0	56.2	54.3	43.7	40.7	543.0
20	8.47	25.0	54.8	52.8	41.8	38.8	542.0
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	540.4
62.5	15.38	21.5	47.4	45.4	31.9	28.9	538.6
100	19.80	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	536.5
250	32.85	17.3	38.3	36.3	19.8	16.8	536.3

Available Model

DS-1LN6OUSPE

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