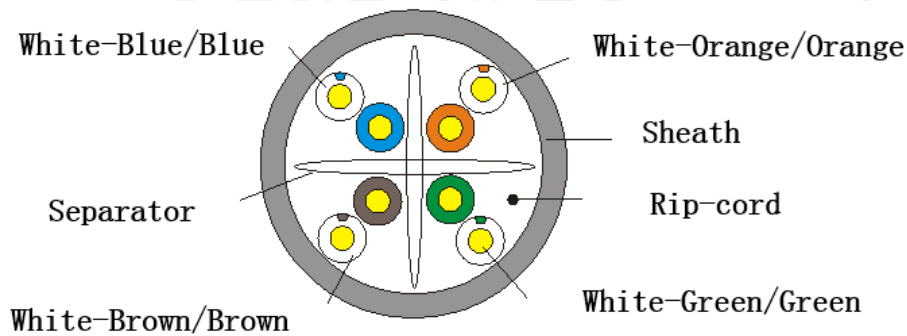


DS-1LN6-UU U/UTP Cat6 PVC 23AWG UL CM Cable

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-1LN6USL3		
Category	Cat.6		
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	0.565± 0.005 mm 23AWG	
Insulation	Material	HDPE	
	Diameter	1.02 ± 0.05 mm	
Sheath	Thickness	0.55 ± 0.05 mm	
	Diameter	6.20 ± 0.50 mm	
	Material	PVC	
	Color	Orange	
Rip-cord	Yes		
Separator	Yes		
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)	1.0-250.0 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	≤ 4.0%	
	Package dimension	100m:315 mm (W) × 315 mm (H) × 120 mm (D) or	
		305m: 400 mm (W) × 400 mm (H) × 240 mm (D)	
	Cable length	100 ± 0.5 m or	
		305 ± 1.5 m	
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	2.03	20.0	74.3	72.3	67.8	64.8	570
4	3.78	23.0	65.3	63.3	55.8	52.8	552
8	5.32	24.5	60.8	58.8	49.7	46.7	547
10	5.95	25.0	59.3	57.3	47.8	44.8	545
16	7.55	25.0	56.2	54.2	43.7	40.7	543
20	8.47	25.0	54.8	52.8	41.8	38.8	542
25	9.51	24.3	53.3	51.3	39.8	36.8	541
31.25	10.67	23.6	51.9	49.9	37.9	34.9	540
62.5	15.38	21.5	47.7	45.4	31.9	28.9	539
100	19.80	20.1	44.3	42.3	27.8	24.8	538
200	28.98	18.0	39.8	37.8	21.8	18.8	537
250	32.85	17.3	38.3	36.3	19.8	16.8	536

Available Model

305-meter option: DS-1LN6-UU

100-meter option: DS-1LN6-UU 100m

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