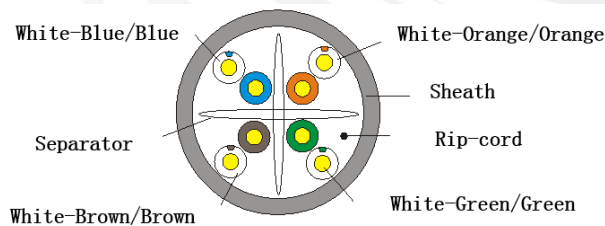


DS-1LN6UEC0

U/UTP Cat6 PVC 24AWG 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-1LN6UEC0	
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	0.53 ± 0.01 mm 24AWG
Insulation	Material	HDPE
	Diameter	0.93 ± 0.05 mm
Sheath	Thickness	0.50 ± 0.05 mm
	Diameter	5.50 ± 0.50 mm
	Material	PVC
	Color	Grey、Orange
Rip-cord	Yes	
Separator	Yes	
Sheath physical properties	Before aging	Tensile strength ≥ 13.5 Mpa Elongation ≥ 150%
	Aging period	100°C × 24h × 10d
	After aging	Tensile strength ≥ 12.5 Mpa Elongation ≥ 125%
	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	390 mm X 390mm X 220 mm
	Weight	11.9 ± 0.5 Kg
	Cable length	(305 ± 1.5) m
	Ambient temperature	-20°C to 70°C
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

DS-1LN6UEC0

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