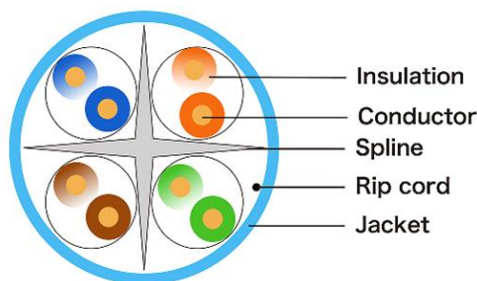


DS-1LN6AUECO**U/UTP Cat6A PVC 24AWG Cable**

Key Feature

- Stable electrical performance, compliant with ANSI/TIA-568.2-D, ISO/IEC11801.
- Supports Gigabit Ethernet (10GbaseT) standard, with bandwidth of 500MHz.
- 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.
- Excellent performance in the Fluke 100-meter channel test while being continuously loaded with 57V/1A DC power (PoE).
- Compliant with RoHS 2.0.



Specification

Model	DS-1LN6AUEC0	
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	0.53 ± 0.01 mm (24AWG)
Insulation	Material	HDPE
	Diameter	0.95 ± 0.05 mm
Sheath	Thickness	0.50 ± 0.05 mm
	Diameter	5.8 ± 0.4 mm
	Material	PVC
	Color	Grey
Rip-cord	Yes	
Separator	Yes	
Sheath physical properties	Before aging	Tensile strength ≥ 13.5 Mpa Elongation ≥ 150%
	Aging period	100°C × 24h × 7d
	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)	1.0-500.0 MHz impedance	100 ± 15 Ω @ ≤ 250 MHz, 100±22Ω @ ≥ 250 MHz
	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	325mm (W) × 245 mm (H) × 333 mm (D)
	Weight	12.3 ± 1kg
	Cable length	305 ± 1.5 m
	Operating 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	3.0	19.0	65.0	62.0	63.3	60.3	570
4	4.2	19.0	63.0	60.5	51.2	48.2	552
8	5.8	19.0	58.2	55.6	45.2	42.2	547
10	6.5	19.0	56.6	54.0	43.3	40.3	545
16	8.2	18.0	53.2	50.6	39.2	36.2	543
20	9.2	17.5	51.6	49.0	37.2	34.2	542
25	10.2	17.0	50.0	47.3	35.3	32.3	541
31.25	11.5	16.5	48.4	45.7	33.4	30.4	540
62.5	16.4	14.0	43.4	40.6	27.3	24.3	539
100	20.9	12.0	39.9	37.1	23.3	20.3	538
200	30.1	9.0	34.8	31.9	17.2	14.2	537
250	33.9	8.0	33.1	30.2	15.3	12.3	536
350	40.6	6.6	30.3	27.3	12.4	9.4	536
450	46.5	6.0	27.3	24.4	10.2	7.2	536
500	49.3	6.0	26.1	23.2	9.3	6.3	536

Available Model

DS-1LN6AUECO

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