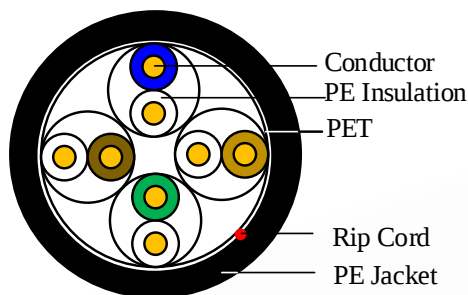


DS-1LN5EO-UU/E**U/UTP CAT5E 4P 24AWG PE Cable**

Key Feature

- Stable electrical performance, compliant with ANSI/TIA-568.2-D, ISO/IEC11801.
- Solid-Bare Copper conductor with less resistance, and better electrical properties and transmission performance.
- PE jacket, preventing damage from long-term UV sunlight exposure
- 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).
- Compliant with RoHS 2.0.



Specification

Model	DS-1LN5EO-UU/E	
Category	Cat.5E	
Reference standard	ISO/IEC11801, ANSI/TIA-568.2-D, RoHS 2.0	
Fire resistance	CPR Fca	
Conductor	Material	Solid-Bare Copper
	Diameter	0.50 ± 0.01 mm
Insulation	Material	HDPE
	Diameter	0.88 ± 0.03 mm
Sheath	Thickness	0.55 ± 0.03 mm
	Diameter	5.0 ± 0.3 mm
	Material	PE
	Color	Black
Rip-cord	Yes	
Separator	No	
Sheath physical properties	Before aging	Tensile strength ≥ 10 Mpa Elongation $\geq 300\%$
	Aging period	$100^{\circ}\text{C} \times 24\text{h} \times 10\text{d}$
	After aging	Tensile strength ≥ 12.5 Mpa Elongation $\geq 125\%$
	Cold bend	$-20 \pm 2^{\circ}\text{C} \times 4\text{h}$, $8 \times$ cable O.D, no visible cracks
Electrical Characteristics (20°C)	1.0-100.0 MHz impedance	$100 \pm 15 \Omega$
	1.0-100.0 MHz delay skew	≤ 45 ns/100 m
	DC resistance	$\leq 9.38 \Omega/100$ m
	DC conductor resistance unbalance	$\leq 2.0\%$
	Package dimension	350 mm $\times$ 350 mm $\times$ 200 mm
	Weight	8.2 ± 0.5 kg
	Cable length	305 ± 1.5 m
	Ambient temperature	-20°C to 75°C
	Operating voltage	≤ 60 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	2.0	20.0	65.3	62.3	63.8	60.8	570
4	4.0	23.0	56.3	53.3	52.0	49.0	552
8	5.8	24.5	51.8	48.8	45.9	42.9	547
10	6.5	25.0	50.3	47.3	44.0	41.0	545
16	8.2	25.0	47.2	44.2	39.9	36.9	543
20	9.3	25.0	45.8	42.8	38.0	35.0	542
25	10.4	24.3	44.3	41.3	36.0	33.0	541
31.25	11.7	23.6	42.9	39.9	34.1	31.1	540
62.5	17.0	21.5	38.4	35.4	28.1	25.1	539
100	22.0	20.1	35.3	32.3	24.0	21.0	538

Available Model

DS-1LN5EO-UU/E

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