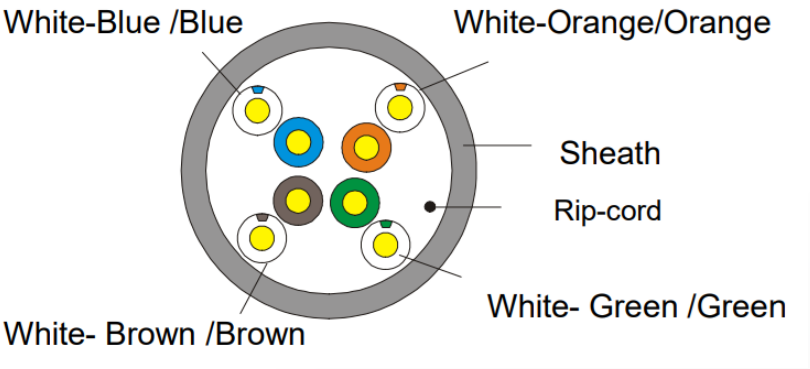
DS-1LN5E-S
U/UTP Cat5E PVC 24AWG UL CM & CPR Eca Cable

Key Feature

- Stable electrical performance, compliant with ANSI/TIA-568.2-E, ISO/IEC 11801.
- 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.
- With a flame-retardant sheath, for enhanced safety.
- Excellent performance in the Fluke permanent link test (90m) and channel test (100m).
- Support PoE application.
- Compliant with RoHS 2.0.





Specification

Model	DS-1LN5E-S	
Category	Cat.5E	
Reference standard	ANSI/TIA-568.2-E, ISO/IEC 11801, RoHS 2.0	
Fire resistance	CPR Eca, UL CM	
Conductor	Material	Solid-Bare Copper (99.99%)
	Diameter	0.50 ± 0.005 mm 24AWG
Insulation	Material	HDPE
	Diameter	0.88 ± 0.05 mm
Sheath	Thickness	0.50 ± 0.10 mm
	Diameter	5.00 ± 0.40 mm
	Material	PVC
	Color	Grey
Rip-cord	Yes	
Separator	No	
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 OD, no visible cracks
Electrical Characteristics (20°C)	1.0-100.0 MHz Characteristic impedance	100 ± 15 Ω
	1.0-100.0 MHz delay skew	≤ 45 ns/100 m
	DC resistance	≤ 9.38 Ω/100 m
	DC conductor resistance unbalance	≤ 4.0%
	Package dimension	350 mm (L) × 200 mm (W) × 350 mm (H)
	Weight	9.5± 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 ℃) ≤ (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	4.1	23.0	56.3	53.3	51.8	48.8	552
8	5.8	24.5	51.8	48.8	45.7	42.7	547
10	6.5	25.0	50.3	47.3	43.8	40.8	545
16	8.2	25.0	47.2	44.4	39.7	36.7	543
20	9.3	25.0	45.8	42.8	37.8	34.8	542
25	10.4	24.3	44.3	41.3	35.8	32.8	541
31.25	11.7	23.6	42.9	39.9	33.9	30.9	540
62.5	17.0	21.5	38.4	35.4	27.9	24.9	539
100	22.0	20.1	35.3	32.3	23.8	20.8	538

Available Model

DS-1LN5E-S

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