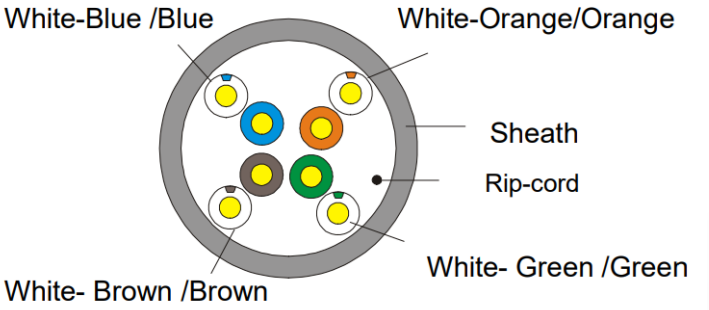
DS-1LN5E-E/E
U/UTP Cat5E PVC 25AWG CPR Eca Cable

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 (80m) and channel test (90m).
- Support PoE application.
- Compliant with RoHS 2.0.





Specification

Model	DS-1LN5E-E/E	
Category	Cat.5E	
Reference standard	ANSI/TIA-568.2-E, ISO/IEC 11801, RoHS 2.0	
Fire resistance	CPR Eca	
Conductor	Material	Solid-Bare Copper (99.99%)
	Diameter	0.450±0.005 mm 25AWG
Insulation	Material	HDPE
	Diameter	0.82±0.05 mm
Sheath	Thickness	0.50±0.05 mm
	Diameter	4.7±0.5 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	≤ 11.7 Ω/100 m
	DC conductor resistance unbalance	≤ 4.0%
	Package dimension	350 mm (L) × 200 mm (W) × 350 mm (H)
	Weight	8.4 ± 0.5 kg
	Cable length	(305 ± 1.5) m
	Ambient temperature	-20°C to 70°C
	Operating voltage	≤ 57 V

Technical Performance (FLUKE 90 m channel)

Frequency (MHz)	Insertion Loss (dB)	NEXT (dB)	RL (dB)	ACR-N (dB)	ACR-F (dB)	PS NEXT (dB)	PS ACR-N (dB)	PS ACR-F (dB)
1	3.0	60.0	17.0	57.0	57.4	57.0	54.0	54.4
4	4.5	53.5	17.0	49.1	45.4	50.5	46.1	42.4
8	6.3	48.6	17.0	42.3	39.3	45.6	39.3	36.3
10	7.1	47.0	17.0	39.9	37.4	44.0	36.9	34.4
16	9.1	43.6	17.0	34.5	33.3	40.6	31.5	30.3
20	10.2	42.0	17.0	21.8	31.4	39.0	28.8	28.4
25	11.4	40.3	16.0	28.9	29.4	37.3	25.9	26.4
31.25	12.9	38.7	15.1	25.9	27.5	35.7	22.9	24.5
62.5	18.6	33.6	12.1	15.0	21.5	30.6	12.0	18.4
100	24.0	30.1	10.0	6.1	17.4	27.1	3.1	14.4

Available Model

DS-1LN5E-E/E

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