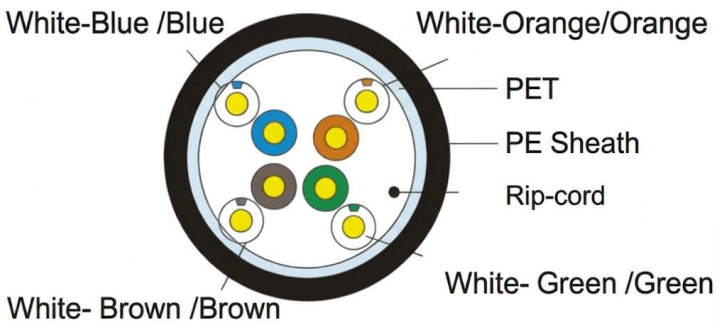
DS-1LN5EO-UU/E
CAT5E U/UTP PE 24AWG Cable

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.
- PE sheath, preventing damage from long-term UV exposure.
- Excellent performance in the Fluke permanent link test (90m) and channel test (100m).
- Support PoE application.
- Compliant with RoHS 2.0.





Specification

Model	DS-1LN5EO-UU/E	
Category	Cat.5E	
Reference standard	ANSI/TIA-568.2-E, ISO/IEC 11801, RoHS 2.0	
Fire resistance	CPR Fca	
Conductor	Material	Solid-Bare Copper (99.99%)
	Diameter	0.50 ± 0.01mm (24AWG)
Insulation	Material	HDPE
	Diameter	0.88 ± 0.05mm
Sheath	Thickness	0.50 ± 0.10mm
	Diameter	5.0 ± 0.4mm
	Material	PE
	Color	Black
Rip-cord	Yes	
Separator	No	
Sheath physical properties	Before aging	Tensile strength ≥ 10.0 Mpa Elongation ≥ 300%
	Aging period	100°C × 24h × 7d
	After aging	Elongation ≥ 300%
	Cold bend	(-20 ± 2)°C × 4h, 8 × cable O.D, no visible cracks
Electrical Characteristics (20°C)	1.0-100.0 MHz 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 × 350 mm × 200 mm
	Weight (with package)	8.2 ± 0.5kg
	Cable length	305 ± 1.5 m
	Ambient temperature	-40°C to 75°C
	Operating voltage	≤57 V DC

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	2.00	20.00	65.30	62.30	63.80	60.80	570.00
4	4.10	23.00	56.30	53.30	51.80	48.80	552.00
8	5.80	24.50	51.80	48.80	45.70	42.70	547.00
10	6.50	25.00	50.30	47.30	43.80	40.80	545.00
16	8.20	25.00	47.20	44.20	39.70	36.70	543.00
20	9.30	25.00	45.80	42.80	37.80	34.80	542.00
25	10.40	24.30	44.30	41.30	35.80	32.80	541.00
31.25	11.00	23.60	42.90	39.90	33.90	30.90	540.00
62.5	17.00	21.50	38.40	35.40	27.90	24.90	539.00
100	22.00	20.10	35.30	32.30	23.80	20.80	538.00

Available Model

DS-1LN5EO-UU/E

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