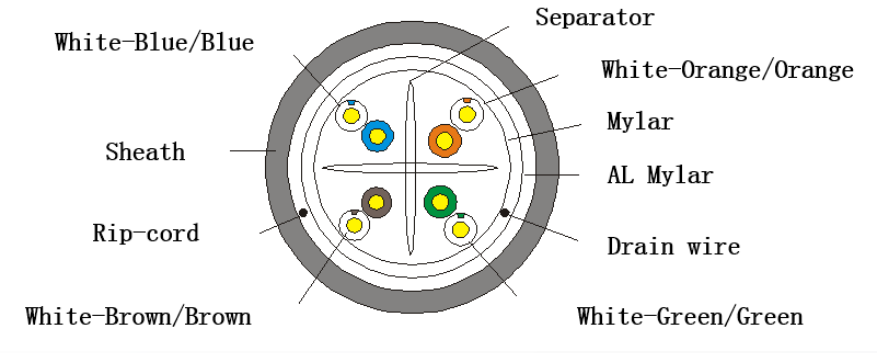
DS-1LN6OPSPE
F/UTP CAT6 PE 23AWG Cable

Key Feature

- Stable electrical performance, compliant with ANSI/TIA-568.2-E, ISO/IEC 11801, ISO 61156.
- Solid-Bare Copper conductor with less resistance, and better electrical properties and transmission performance.
- F/UTP structure, anti-interference, more stable 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.
- Reel-in-box design, more convenient to pull cables in and out.





Specification

Model	DS-1LN6OPSPE	
Category	Cat.6	
Reference standard	ANSI/TIA-568.2-E, ISO/IEC 11801, IEC 61156, RoHS 2.0	
Fire resistance	CPR Fca	
Conductor	Material	Solid-Bare Copper (99.99%)
	Diameter	0.565± 0.005 mm 23AWG
Insulation	Material	HDPE
	Diameter	1.12 ± 0.05 mm
Sheath	Thickness	0.60 ± 0.10 mm
	Diameter	7.40 ± 0.40 mm
	Material	PE
	Color	Black
Rip-cord	Yes	
Separator	Yes	
Shield	Aluminum foil shield	
Sheath physical properties	Before aging	Tensile strength ≥ 10.0 Mpa Elongation ≥ 350%
	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)	1.0-250.0 MHz impedance	100 ± 15 Ω
	1.0-250.0 MHz delay skew	≤ 45 ns/100 m
	DC resistance	≤ 9.38 Ω/100 m
	DC conductor resistance unbalance	≤ 4.0%
	Package dimension	375 mm × 322 mm × 375 mm
	Weight(with package)	17± 1kg
	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	2.02	20	74.3	72.3	67.8	64.8	570.00
4	3.78	23	65.3	63.3	55.8	52.8	552.00
8	5.32	24.5	60.8	58.8	49.7	46.7	546.73
10	5.95	25	59.3	57.3	47.8	44.8	545.38
16	7.55	25	56.2	54.2	43.7	40.7	543.00
20	8.47	25	54.8	52.8	41.8	38.8	542.05
25	9.51	24.3	53.3	51.3	39.8	36.8	541.20
31.25	10.67	23.6	51.9	49.9	37.9	34.9	540.44
62.5	15.38	21.5	47.7	45.4	31.9	28.9	538.55
100	19.8	20.1	44.3	42.3	27.8	24.8	537.60
200	28.98	18.0	39.8	37.8	21.8	18.8	536.54
250	32.85	17.3	38.3	36.3	19.8	16.8	536.27

Available Model

DS-1LN6OPSPE

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