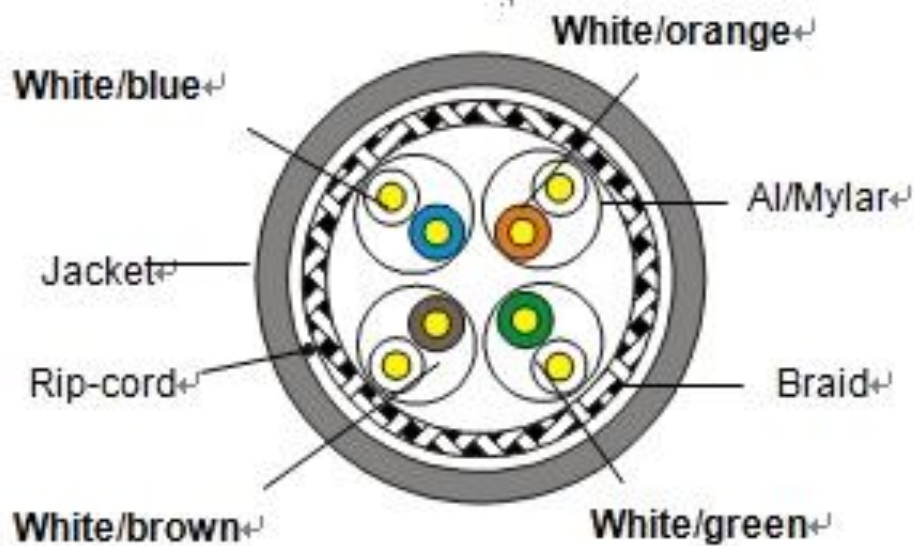


DS-1LN6AFPSL4 S/FTP Cat6A LSZH 23AWG CPR Dca Cable

Feature and Function

- Stable electrical performance, compliant with ANSI/TIA-568.2-D, IEC61156, ISO/IEC11801.
- Compliant with RoHS 2.0.
- 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).
- Solid-Bare Copper conductor with less resistance, and better electrical properties and transmission performance.



Specification

Model	DS-1LN6AFPSL4	
Category	Cat.6A	
Reference standard	ISO/IEC11801, ANSI/TIA-568.2-D, RoHS 2.0	
Fire resistance	CPR Dca,s2,d2,a1	
Conductor	Material	Solid-Bare Copper (99.95%)
	Diameter	0.560±0.005 mm 23AWG
Insulation	Material	Foam PE/HDPE
	Diameter	1.33±0.05mm
Sheath	Thickness	0.55±0.05mm
	Diameter	7.5±0.5mm
	Material	LSZH
	Color	Blue
Rip-cord	Yes	
Separator	No	
Sheath physical properties	Before aging	Tensile strength ≥ 10.0 Mpa Elongation ≥ 125%
	Aging period	100°C × 24h × 10d
	After aging	Tensile strength ≥ 8.0 Mpa Elongation ≥ 100%
	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 @ ≤ 250 MHz 100±22Ω @ ≥ 250 MHz
	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	385 mm (W) × 385 mm (H) × 325 mm (D)
	Weight	20± 1kg
	Cable length	(305 ± 1.5) m
	Ambient temperature	-20°C to 75°C (-4°F to 167°F)
	Operating voltage	57 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	—	20.0	74.3	72.3	67.8	64.8	570
4	3.8	23.0	65.3	63.3	55.8	52.8	552
8	5.3	24.5	60.8	58.8	49.7	46.7	547
10	5.9	25.0	59.3	57.3	47.8	44.8	545
16	7.5	25.0	56.2	54.2	43.7	40.7	543
20	8.4	25.0	54.8	52.8	41.8	38.8	542
25	9.4	24.3	53.3	51.3	39.8	36.8	541
31.25	10.5	23.6	51.9	49.9	37.9	34.9	540
62.5	15.0	21.5	47.7	45.4	31.9	28.9	539
100	19.1	20.1	44.3	42.3	27.8	24.8	538
200	27.6	18.0	39.8	37.8	21.8	18.8	537
250	31.1	17.3	38.3	36.3	19.8	16.8	536
300	34.3	16.8	37.1	35.1	18.3	15.3	536
400	40.1	15.9	35.3	33.3	15.8	12.8	536
500	45.3	15.2	33.8	31.8	13.8	10.9	536

Available Model

DS-1LN6AFPSL4

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