

LTX-1FX-FC01

U/FTP Cat6 PVC 23 AWG Cable

Feature and Function

- Stable electrical performance, compliant with ANSI/TIA-568-D.2, 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 foil shielding around the twisted wire pairs for less resistance, better electrical properties and transmission performance.



Specification

Model	LTX-1FX-FC01	
Category	Cat.6	
Sheath printing	Litex 4PR 23AWG 75°C U/FTP CAT6 VERIFIED TO ANSI/TIA-568-D.2 Tracing Code-HS	
Reference standard	ISO/IEC11801, ANSI/TIA-568.2-D, RoHS 2.0	
Fire resistance	CPR Cca,s1, d1, a1	
Conductor	Material	Solid-Bare Copper (99.95%)
	Diameter	0.57 ± 0.005 mm, 23AWG
Insulation	Material	Skin-foam-skin PE
	Diameter	1.32 ± 0.05 mm
	Thickness	0.60 ± 0.10 mm
Sheath	Diameter	6.00 ± 0.30 mm
	Material	LSZH
	Color	Blue
Rip-cord	Yes	
Seperator	Yes	
Sheath physical properties	Tensile Strength ≥ 13.5 Mpa	
	Before aging	
		Elongation $\geq 150\%$
	Aging period	$100^{\circ}\text{C} \times 24\text{h} \times 10\text{d}$
		Tensile strength ≥ 12.5 Mpa
	After aging	
		Elongation $\geq 125\%$
	Cold bend	$-20 \pm 2^{\circ}\text{C} \times 4\text{h}$, $8 \times$ cable O.D, no visible cracks
	1.0-250.0 MHz impedance	$100 \pm 15 \Omega @ \leq 100$ MHz
	1.0-500.0 MHz delay skew	$100 \pm 25 \Omega @ 251-500$ MHz ≤ 45 ns/100m
Electrical	DC resistance	$\leq 9.38 \Omega/100$ m
	DC conductor resistance unbalance	$\leq 4.0\%$
	Package dimension	400 mm (W) $\times$ 400 mm (H) $\times$ 240 mm (D) (15.75" $\times$ 15.75" $\times$ 9.45")
Characteristics (20°C)	Weight	$12.3 \pm 0.5\text{kg}$
	Cable length	(305 ± 1.5) m
	Ambient temperature	-20°C to 75°C (-4°F to 167°F)
	Operating voltage	80 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	2.0	20.0	74.3	72.3	67.8	64.8	570
4	3.8	23.0	66.3	63.3	56.0	53.0	552
8	5.3	24.5	61.8	58.8	49.9	46.9	547
10	6.0	25.0	60.3	57.3	48.0	45.0	545
16	7.6	25.0	57.2	54.2	43.9	40.9	543
20	8.5	25.0	55.8	52.8	42.0	39.0	542
25	9.5	24.3	54.3	51.3	40.0	37.0	541
31.25	10.7	23.6	52.9	49.9	38.1	35.1	540
62.50	15.4	21.5	48.4	45.4	32.1	29.1	539
100	19.8	20.1	45.3	42.3	28.0	25.0	538
200	29.0	18.0	40.8	37.8	22.0	19.0	537
250	32.8	17.3	39.3	36.3	20.0	17.0	536

Available Model

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