

LFX AC120V OUTDOOR SPEC SHEET



LFX-AC



Our LFX series flexible linear LED light strips is a simple, effective solution for a wide range of lighting applications where crisp, single colour light is desired. Ideal for indirect accent lighting, as well as a store fixtures, display cases, steps, and stairwells, furniture, kitchen and cabinet lighting, along with other task and specialty applications.

FEATURES

BENDING DIAMETER	Ø50mm
RESISTANT	IP65 (Water Proof) UL94 VO (Flame Resistant) UV Resistant Solvents Resistant Saltwater Resistant
BEAM ANGLE	150°
WARRANTY	3 Years



SMD 2835
LED Quality

AC 120V, 60Hz
Operating Voltage

4W / ft
Rated Power

TECHNICAL DATA

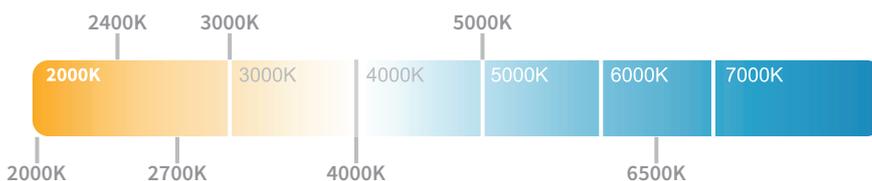
OPERATING VOLTAGE	AC120V, 60Hz	
LED Qty/ft	36 LEDs/ft (120LEDs/m)	
LED TYPE	SMD 2835	
CRI	CRI>90	CRI>95
RATED POWER/ft	<4W/ft	<4W/ft
LIGHT EFFICIENCY ±10%	100Lm/W	90Lm/W
LED DISTANCE	0.33" (8.33mm)	
MIN. CUTTING LED	12 LEDs	
MIN. CUTTING LENGTH	4" (10cm)	
BINNING	3 Step Binning	
WEIGHT/ft	0.088 lb/ft (40g)	
STORAGE TEMPERATURE	-13~140°F (-20~60°C)	
WORKING TEMPERATURE	-4~113°F (-20~45°C)	
IP RATING	IP65 (uncut) void if cut	
COLOR	2000K, 2400K, 2725K, 3045K, 4000K, 5000K, 6500K	

Application



COLOR TEMPERATURE DATA

Colour	Wavelength	CCT	Lumen/ft (CRI 90)	Lumen/ft (CRI 95)
Ultra WW	/	2000K±100K	290 lm/ft	270 lm/ft
Super WW	/	2400K±100K	320 lm/ft	300 lm/ft
Warm White	/	2725K±100K	360 lm/ft	322 lm/ft
Warm White	/	3045K±150K	380 lm/ft	346 lm/ft
Natural White	/	4000K±150K	400 lm/ft	360 lm/ft
Day White	/	5000K±200K	402 lm/ft	365 lm/ft
Cool White	/	6500K±250K	405 lm/ft	405 lm/ft
RED	620-630nm	/	/	/
GREEN	520-530nm	/	/	/
BLUE	465-475nm	/	/	/
AMBER	585-595nm	/	/	/



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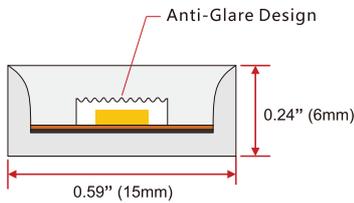
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ORDERING LOGIC

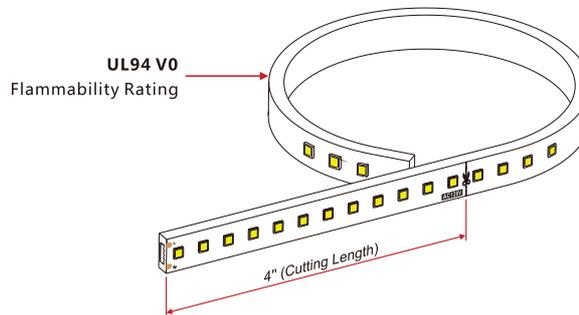
PRODUCT SERIES	TYPE	POWER	COLOR TEMPERATURE	LED TYPE	BIN	NO. OF LED	VOLTAGE	CIRCUIT	PCB	CRI	NO. OF LED ROWS	CONNECTION
LFX	O-OUTDOOR (PCS)	4W - <4W/ft	(CT20) 2000K (CT24) 2400K (CT27) 2725K (CT30) 3045K (CT40) 4000K (CT50) 5000K (CT65) 6500K (CTRD) RED (CTGR) GREEN (CTBL) BLUE (CTAM) AMBER	2835 - SMD 2835	Z3 - 3 Step Binning	36 - 36/ft	120 - 120V	AC - Alternating Current	15 - 15mm (0.59")	H - HIGH (90) VH - VHIGH (95)	1 - 1per row	PL - Plug HW - Hardwire

Sample: LFX-O-4W-CT20-2835-Z5-120-120-AC-15-H-1-PL

EXTERNAL DIMENSIONS



Maximum Input Voltage: AC 120V
PVC Dual-Color Extrusion



Notice:

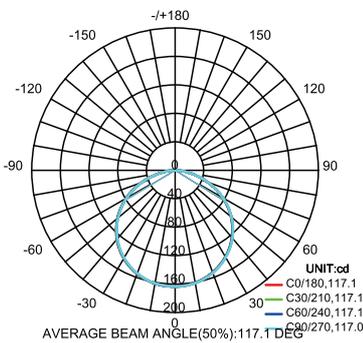
Input Voltage: AC 110V ~ AC 120V

Size of each section is 4", and cutting at "black line" place.

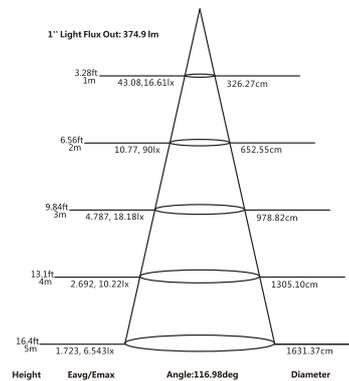
The dimension tolerance of height is $\pm 0.012"$ ($\pm 0.3\text{mm}$), and tolerance of width is $\pm 0.012"$ ($\pm 0.3\text{mm}$).

DIAGRAM

Luminous Intensity Distribution

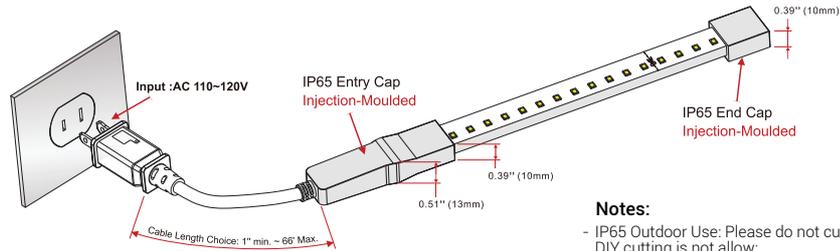


Illumination Diagram



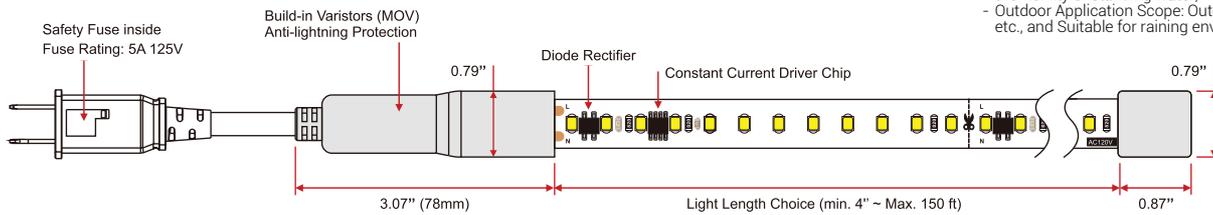
CONNECTION TYPES

Outdoor Use & IP65 Waterproof Connector



Notes:

- IP65 Outdoor Use: Please do not cut off the LED Tape Light, and DIY cutting is not allow;
- All kinds of customized length of the light are available, from 4" minimum ~ 150 ft maximum;
- Do not submerge LED Tape light in any liquids, or use the light in the vicinity of standing water;
- Outdoor Application Scope: Outer Wall of building, Overbridge etc., and Suitable for raining environments



Indoor Use & DIY IP65 Connector

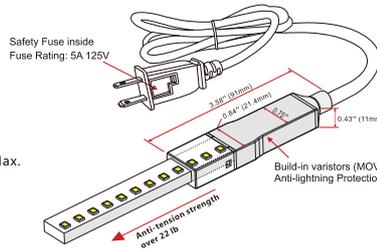


Power Cord

Connects light to power supply
IP65 DIY connector (indoor use)
Cable Length available in 1ft min ~ 66ft Max.

Screwless Terminal, DIY assembly

- DC Connector (2 Pin) *1
- Anti-tension Shell *1
- PC Fixing Clip *1

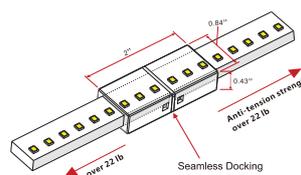


Docking Connector

Combine two pieces of the lights together
IP65 DIY connector (indoor use)

Seamless Docking, Screwless Terminal

- Anti-tension Shell *1
- Feed Connector (2 Pin) *1
- PC Fixing Clip *2

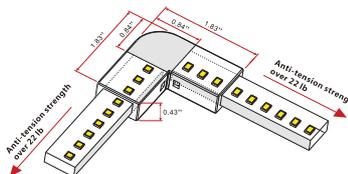


L-Type Connector

Combine two pieces of the lights together
IP65 DIY connector (indoor use)

Corner Docking, Screwless Terminal

- L-Type Anti-tension Shell *1
- L-Type Feed Connector (2 Pin) *1
- PC Fixing Clip *2

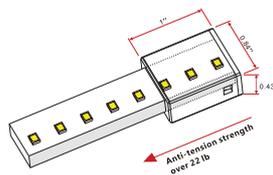


End Cap

Termination Protection of the light,
IP65 DIY connector (indoor use)

Screwless Terminal, DIY assembly

- Anti-tension Shell *1
- PC Fixing Clip *1



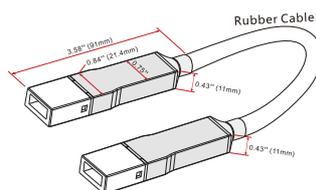
Jumper Connector

Connects two pieces of lights together
IP65 DIY connector (indoor use)

Rubber Cable Length available in 1ft min ~ 66ft Max.

Jumper Docking, Screwless Terminal

- Double-end feed connector (2 Pin) *1
- Anti-tension Shell *2
- PC Fixing Clip *2

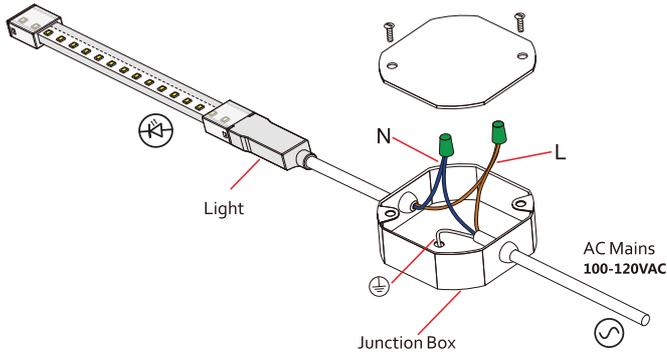


Notes:

- Before making any cuts, installation, maintenance or connection, and be sure the light is power-off!
- IP65 Indoor Use: Please cut the light and assemble all connectors according to the instruction manual;
- Don't install and light up and use the light under water, Only IP65 indoor application places can be used for this light;
- Indoor Application Scope: Cove of Theater / Hotel Lobby etc., and Suitable for damp environments (e.g. Toilet, Balcony Cove etc.)

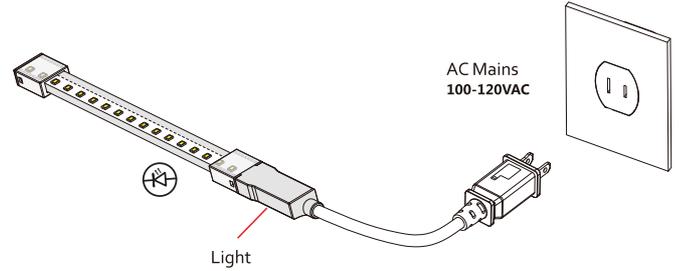
WIRING DIAGRAMS

Hardwire Connection



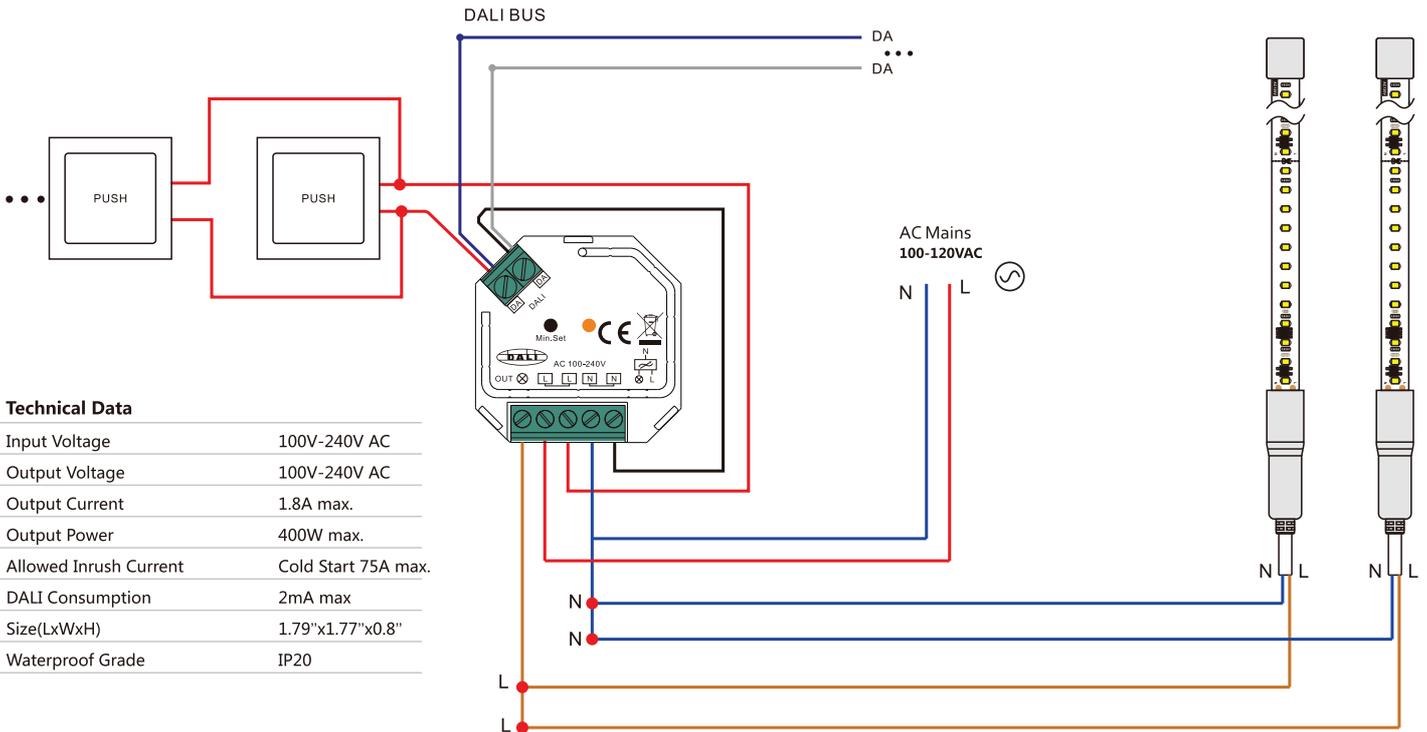
- The light can be used in conjunction with a AC100V~AC120V input ,Ensure that the power cable carried current is no greater than 80% of its capacity, and The light not exceed the maximum length 50m.

Plug-in Connection



- The light can be used in conjunction with a AC100V~AC120V input ,Ensure that the power cable carried current is no greater than 80% of its capacity, and The light not exceed the maximum length 50m.

Wiring diagrams for dimming



Technical Data

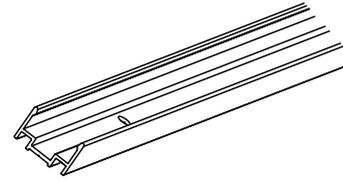
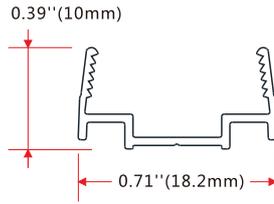
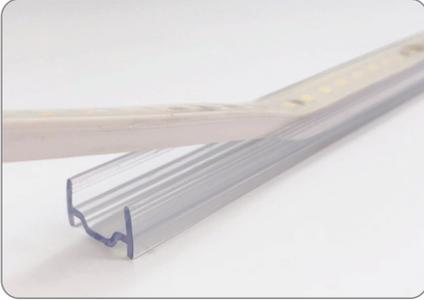
Input Voltage	100V-240V AC
Output Voltage	100V-240V AC
Output Current	1.8A max.
Output Power	400W max.
Allowed Inrush Current	Cold Start 75A max.
DALI Consumption	2mA max
Size(LxWxH)	1.79"x1.77"x0.8"
Waterproof Grade	IP20

- The number of parallel connected luminaires not more than 10, Otherwise the dimmer damaged due to the high inrush current at the moment of starting.
- This phase dimmer adopts trailing edge dimming (reverse phase control), make sure the connected loads support reverse phase control.

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INSTALLATION & PROFILE

Mounting Profile

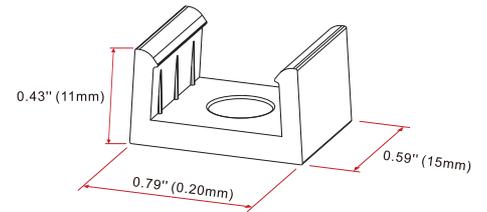
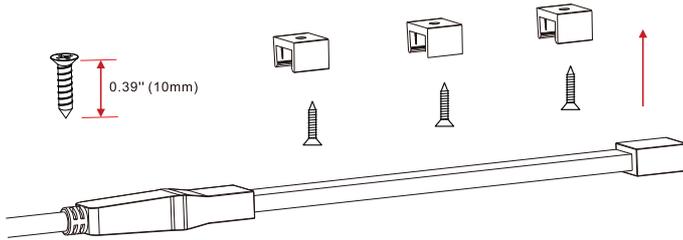


Code	W*H(ft)	Profile Length(feet)	Hole Size (inch)	Hole Number (pcs)
MT-PJ-01825	0.39" x 0.71"	3 ft	Φ0.13" (Φ3.5mm)	3
		5 ft	Φ0.13" (Φ3.5mm)	4
		6 ft	Φ0.13" (Φ3.5mm)	6

Notes:

1. The raw material is plastic PC, 100% transparent, and Any customized Length available too, such as 0.5m or 1m or 2m length maximum;
2. Each 1 ft length with 1 hole and 1 screw, and installation reference to the user manual;

Mounting Clip



Notes:

1. Mounting Clip's raw material is PC, and transparent/white/black/red paint available;
2. Each 1ft length with 1 Mounting Clip +1 screw, and installation reference to the user manual;