



Flexible LED Strip

LS-FRC-24V-5M-10MM

Features

- Field cuttable per one LED to any length for precise assembly
- High efficacy up to 140 lm/W in CRI90 with energy efficiency class E
- Universal PCB width for easy installation with aluminium profile
- High density LED array for dot-free linear lighting performance

Application

- Indirect lighting for showcase, shelf, cabinet, billboard, signage
- Hotel, garden, bridge, corridor, ceiling, stair, cove, theatre
- Residential and commercial decorative lighting



Specification

Part No.	Colour	Style	Voltage	Power	Brightness	CRI	Increment	IP Rating	Dimension
LS-FRC-24V-5M-10MM-30K	3000K	160 LED/m	24Vdc	19.2 W/M	2,688 lm/m	≥90	12.5 mm	IP 20	L5,000 x W10 x H1.5 mm
LS-FRC-24V-5M-10MM-30K-IP54	3000K	160 LED/m	24Vdc	19.2 W/M	2,419 lm/m	≥90	12.5 mm	IP 54	L5,000 x W10 x H2 mm
LS-FRC-24V-5M-10MM-30K-IP65	3000K	160 LED/m	24Vdc	19.2 W/M	2,553 lm/m	≥90	12.5 mm	IP 65	L5,000 x W10 x H4 mm
LS-FRC-24V-5M-10MM-30K-IP67	3000K	160 LED/m	24Vdc	19.2 W/M	2,419 lm/m	≥90	12.5 mm	IP 67	L5,000 x W10 x H4 mm
LS-FRC-24V-5M-10MM-30K-IP68	3000K	160 LED/m	24Vdc	19.2 W/M	2,419 lm/m	≥90	12.5 mm	IP 68	L5,000 x W10 x H4 mm



General Parameters		Photoelectric Parameters	
Standard Length	5M [16.4ft] (power fed on one side)	Power±10%	19.2W/M [5.9W/ft.]
Increment & LED QTY	6.25mm[0.25in.] & 1 LED (The minimum length for use is 25mm[1in.] with 4 LEDs)	Input Voltage	24VDC
LED Type	SMD2835 white	LED Current	5mA/LED
LED QTY	160LED/M [48LED/ft.]	LED CCT & Wavelength	2700K&3000K&3500K&4000K&5000K&6500K
PCB Type	2oz white FPC, OSP	SDCM	ErP & ANSI Norm, 3 step in one bin
Operating Ambient	Ta(working): -20~45°C[-4~113°F] & Tstg(storage): -20~60°C[-4~140°F]	CRI	Ra≥90
Warranty	5 years	Beam Angle	120°
Lifespan	L70≥50,000h@Tc≤65°C [149°F] (Tc is temperature of LED pin)	Dimming Method	PWM (dimnable driver like RF, Bluetooth, 0/1-10V, Triac, DALI, DMX, WIFI etc.)
Certification	CE, UL, CB, SAA, RoHS, IM80		

Note: 1: The lumen flux value above is base on 1M[3.28ft.] long, it need to be measured and considered separately for other longer lengths.

2: Energy efficiency class of regulation (EU) 2019/2020 is E (CRI90) for 4000K in IP20, it varies depending on CRI, CCT and IP rating.

3: Luminous flux for CCT 2700K is 10% lower, for CCT 3000K/3500K/6500K is 5% lower, for CCT 5000K is 3% lower, compared with 4000K.

4: Transmittance for IP54/IP67/IP68, 2700K/3000K/3500K/4000K is 90%, 5000K/6500K is 80%; for IP65/IP54 Plus/IP67 Plus is 95%.

5: Dimension, CCT and lumen flux etc. of waterproof type will be different, compared with IP20 type.

6: Applying with extra heat sink is proposed.

7: 3M 300LSE yellow adhesive tape attached on backside, is standard configuration.

8: One end of 200mm[7.87in.] red/white silicon cable or waterproof connector kit according to specific IP rating, is standard configuration of Plus Series.

9: Transparent reel and silvery ESD bag, are standard configuration.

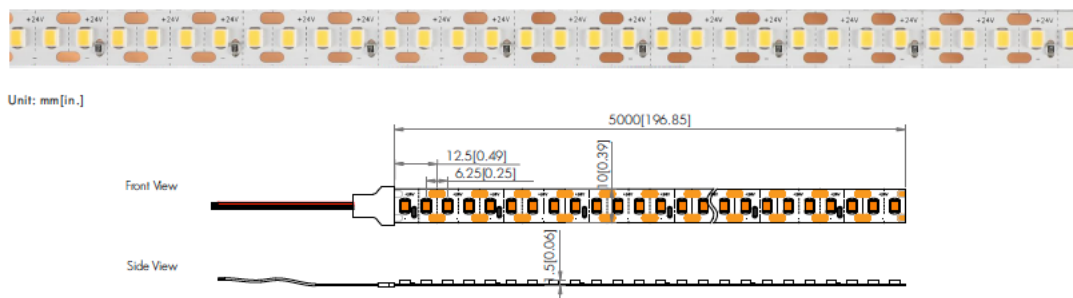
10: Installation accessories such as clip, screw, plug etc. are all optional base on specific demand.

11: Power maintenance rate=actual measured power in a certain length/(a same certain length* actual measured power in 1M[3.28ft.] length); Brightness maintenance rate=actual measured brightness on the tail section in a certain length/actual measured brightness on the first section in a same certain length. (Generally, there are few cases of full power operation for mixed-color like RGB/RGBW/RGB+CCT/RGB+CCT)

POWER & BRIGHTNESS vs. LENGTH CHARACTERISTIC (POWER FED ON ONE SIDE)					
Length Of Single Product	1M [3.28ft.]	2M [6.56ft.]	3M [9.84ft.]	4M [13.1ft.]	5M [16.4ft.]
Actual Measured Power	20.1W	38.2W	54.3W	67.5W	77.4W
Power Maintenance Rate	100%	95%	90%	84%	77%
Brightness Maintenance Rate	97%	93%	89%	83%	75%

12: Some parameters and configurations are customizable, do not hesitate to contact us for a more detailed discussion.

Dimension



Document Revision

Revision	Description	Date	Author	Approver
1.0	Initial release	4 September 2025	Michael Xu	Michael Xu