

Ecodesign LED Strip

PRODUCT SPECIFICATION

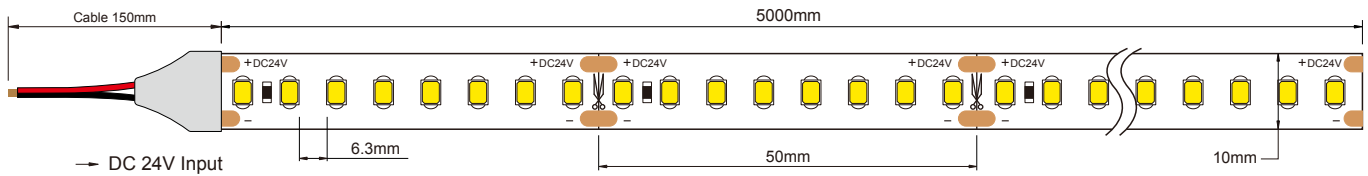


Key Feature

- ◆ LM-80 approved LED
- ◆ High Efficiency: 200Lm/w Max.
- ◆ 80,000 hours Lifetime, 5 years warranty
- ◆ Multiple Color Option : 1800k ~ 10000k
- ◆ Only one Bin, SDCM<3, or SDCM<2 available
- ◆ CRI Option: Ra 80 as standard, Ra>90/95/97 all available

2700 K	3000 K	4000 K	5000 K	6000 K
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Drawing:



Notice:

Safety Input Voltage: DC 24V

Size of each section is 50mm (1.97"), and cutting at "scissors symbol" place.

LED Strip length's length tolerance is $\pm 0.2\%$ mm, width tolerance is ± 0.2 mm.

Optical

LED type:	SMD2835
Color rendering index:	160
CCT Range:	2700K, 3000K, 4000K, 5000K, 6000K
Irritation angle:	120°
Light Efficiency:	124~157 Lm/w
Lumen output/meter:	1780~2260 Lm/m (542~689LM/ft)

Electric (24V)

Input current/m:	0.6A/m
Input Voltage:	DC24V
Voltage Power/m:	14.4W/m
Static Electricity:	1000V(ESD)
LEDs/meter:	160LEDs/m
Size of section:	50mm (1.97")
LEDs of section:	8 LEDs

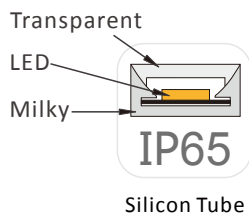
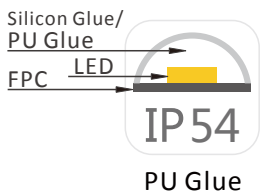
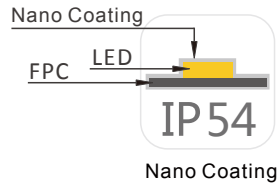
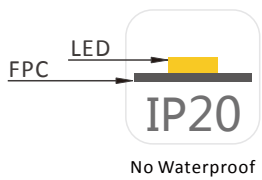
Others

Energy grade:	B
Warranty:	5years
Working hour:	80,000hrs lifetime for $T_c < 70^\circ\text{C}$
Working temperature:	$-20^\circ\text{C} \sim +45^\circ\text{C}$
Working humidity:	40%-70%RH
Measurement:	L5000*W10mm
Waterproof Rate:	IP20

Descriptions:

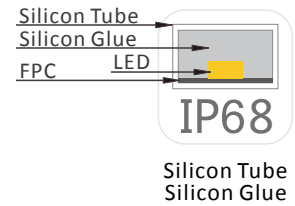
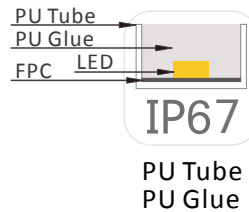
- ◆ LED Strip can be used in many kinds of places as decorative lighting/backlight/, such as Ceiling trough, Staircase, Hall walkway, Billboard, Advertising sign, Bridge, Shopwindow, Cabinet etc. ;
- ◆ LED Project Strip can be 30m/roll, or 40m/roll Packaging. 100% of the lamps will be tested and keep lighting for 24h testing its quality reliability, and we also test it temperature after 24 hours's lighting;
- ◆ We can provide with different Custom products, such as printing Customer LOGO on FPC, Custom Aluminum Foil Bag Custom carton box/connector/DC cable/, Customs FPC design/color/width etc.

Waterproof Rate :



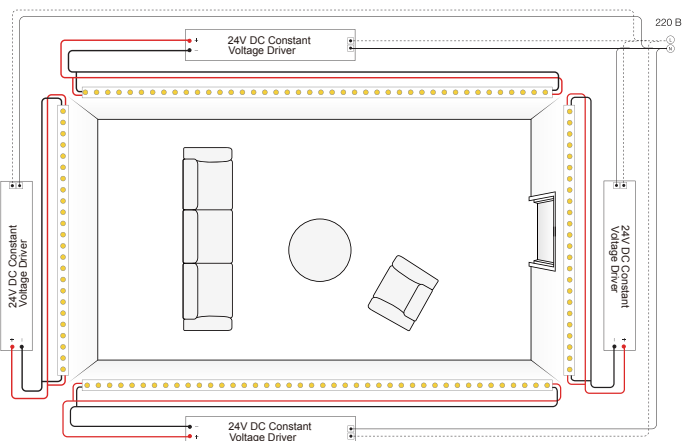
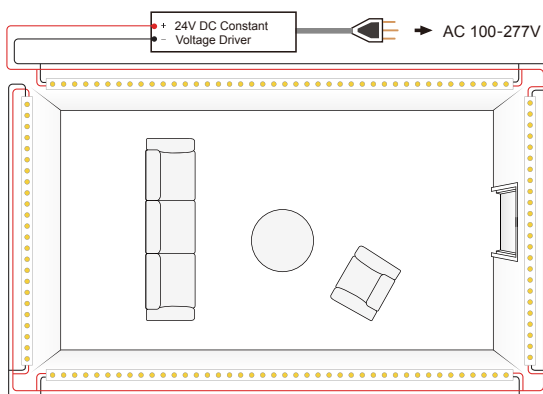
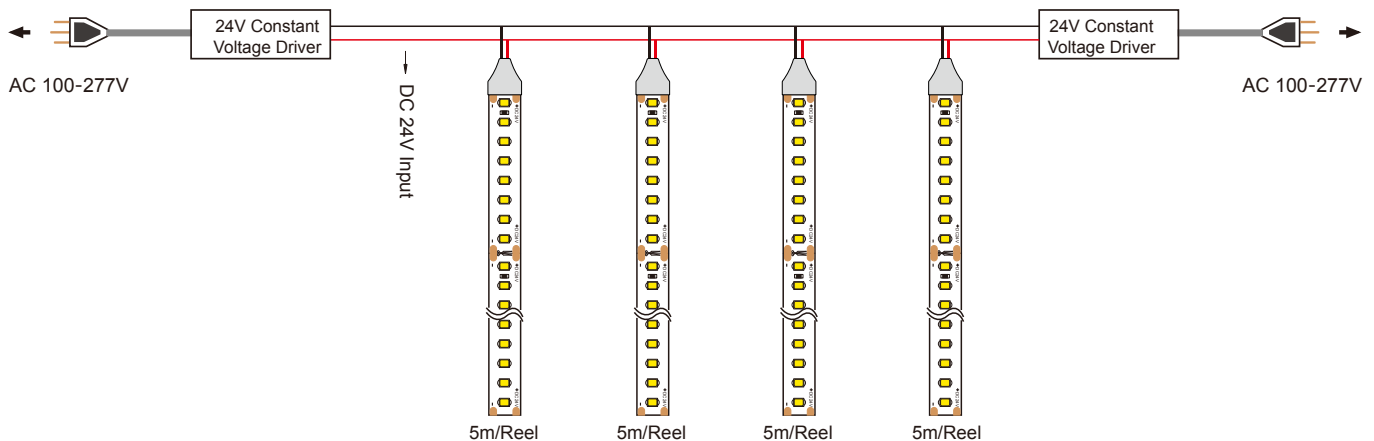
IP Rate Description :

- IP20 : Indoor use
- IP54 Nano : No Color shift with high Color Consistency
- IP65 PU : No Lead and mercury, Strong adhesion
- IP65 Silicon : Anti-UV ability, never become yellow
- IP67 : Lead-free and mercury-free, Strong adhesion
- IP68 : Silicon glue with Anti-UV, never change color



Wiring diagram application :

◆ Single end power input for 5 meters



3M Adhesive Tape



3M 200 LSE Type
(Economy Type)



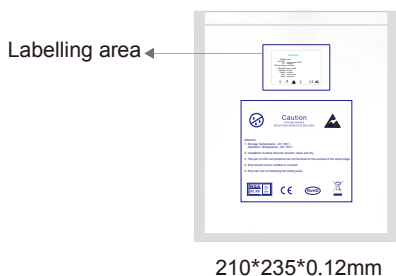
3M 300 LSE Type
(Mid-quality Type)



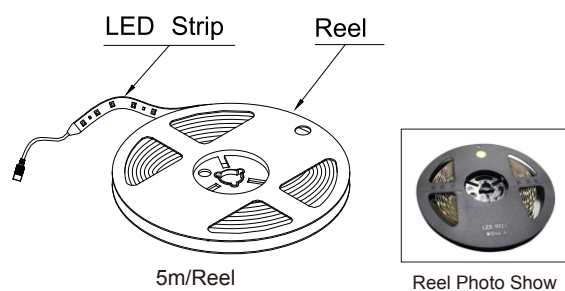
3M VHB RED
(High-quality Type)

Packaging

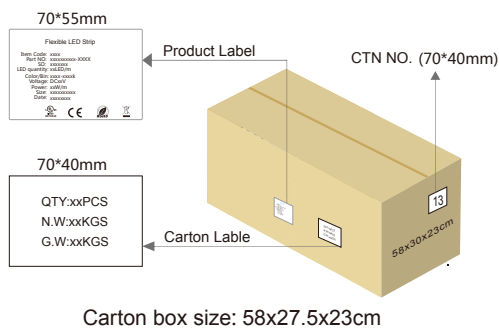
Aluminium foil bag



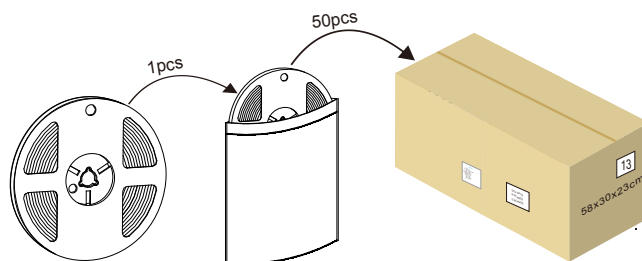
Plastic reel



Carton box



Packing Number



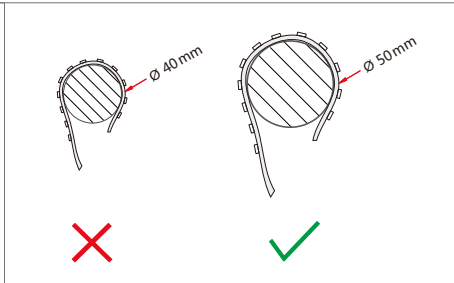
Strip Code :

Item Code	LEDs/meter	Input voltage	Watt/m	CCT/K	Color Rendering Index	Lm/m	Lm/ft	LM/w	IP Rate	PCB width
V160F24 - 27	160	24V	14.4	2700K	80 90	2,005 1,780	611 542	139 124	IP20	10MM
V160F24 - 30	160	24V	14.4	3000K	80 90	2,110 1,870	643 570	146 130	IP20	10MM
V160F24 - 40	160	24V	14.4	4000K	80 90	2,233 1,978	680 603	155 137	IP20	10MM
V160F24 - 50	160	24V	14.4	5000K	80 90	2,250 1,998	685 609	156 138	IP20	10MM
V160F24 - 60	160	24V	14.4	6000K	80 90	2,260 2,005	689 611	157 139	IP20	10MM

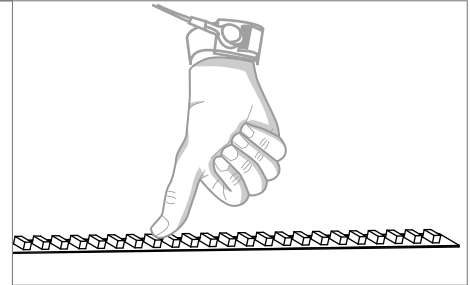


⚠ Cautions:

≤50 mm diameter of wrapped object prohibited



Touching LED, pls wear the electrostatic ring for avoiding ESD



Safety Information

Application notes for led flexible strip

In order to drive LED flexible strip lights safely, it is absolutely necessary to operate them with an electronically stabilised power supply protecting against short circuits, overload and overheating.

To also ease the luminaire/installation approval, electronic control gear, power supply and all electronic accessories for LED or LED modules should carry “CE, or UL” mark and meet the latest safety standard.

- Please use 24VDC isolated power supply to drive the led strip, and the constant voltage source ripple less than 5%. Can't step-down the power by resistance-capacitance and non-isolated power supply driver led strip, etc.
- To ensure the longevity and reliability of the strips, please do not bend the arc diameter 60mm or less, do not fold to avoid damaging the lamp beads or broken.
- To ensure the life and environment of lights, in the use of force can not pull the power cord to avoid damage to prohibit collision LED lights.
- During the installation of positive and negative attention to the power cord, do not pick the wrong voltage power supply and the product are the same, so as to avoid damage to the product.
- LED lights should be stored in dry sealed environment, the proposed storage period should not be too long before using unpacking, the working temperature: -20 ~ + 45 , Storage temperature: -0 ~ + 60 , not waterproof lights band indoor use, relative humidity not higher than 70%.
- In practical applications, the power supply should leave 20% margin (recommend using only 80% of the power) in order to ensure a sufficient amount of voltage drive products
- Do not use any acidic, alkaline adhesive securement products (including not limited to glass, plastic, etc.)