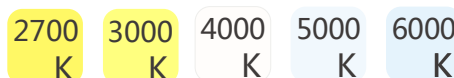# Ecodesign LED Strip

PRODUCT SPECIFICATION

Key Feature

- ◆ LM-80 approved LED
- ◆ High Efficiency: **170~200Lm/w .**
- ◆ 50,000 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 |

Shenzhen Mingxue Optoelectronics Co., Ltd.

Address: 14 Floor,T3 Building, HIPAR technology building,Shiyan Town,
Bao'an District, Shenzhen,China.
Factory:Building 9 &10， WanYang park ,baoyong industry road No 8 ,
west area baoyong industry zone,longjiang town,Shunde District, Foshan city.
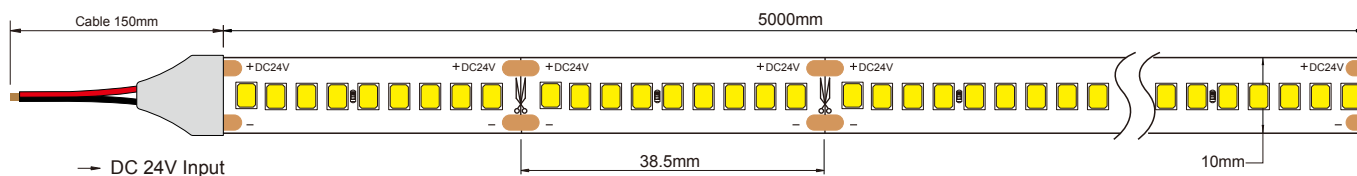Tel: +86-755-27637866   Tel: +86-755-27638086
E-mail: info@mingxue.cn   Web: www.mingxueled.com

TÜVRheinland CERTIFIED   c UL us LISTED E473513   c ETL us Intertek   RoHS   CE

Drawing:

Cable 150mm

5000mm

+DC24V +DC24V +DC24V +DC24V +DC24V +DC24V

38.5mm

10mm

→ DC 24V Input

Notice:

Safety Input Voltage: DC 24V

Size of each section is 38.5mm (1.51"), and cutting at "scissors symbol" place.

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

Optical

LED type:	SMD2835
Color rending index:	80/90
CCT Range:	2700K, 3000K, 4000K, 5000K, 6000K,
Irritation angle:	120°
Light Efficiency:	**170~200Lm/w**
Lumen output/meter:	2108~2480Lm/m (366~490Lm/ft)

Electric (24V)

Input current/m:	0.52A/m(0.16A/ft)
Input Voltage:	DC24V
Voltage Power/m:	12.4W/m
Static Electricity:	1000V(ESD)
LEDs/meter:	234LEDs/m
Size of section:	38.5mm (1.51")
LEDs of section:	9LEDs

Others

Energy grade:	B
Warranty:	5years
Working hour:	5,0000hrs lifetime for Tc<70°C
Working temperature:	-20°C ~ +45°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 :

FPC — LED →

IP20

No Waterproof

Nano Coating

FPC — LED →

IP54
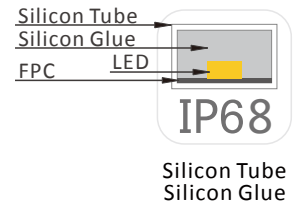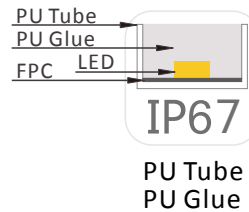
Nano Coating
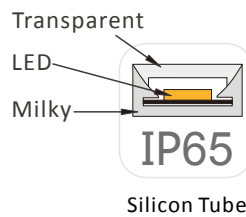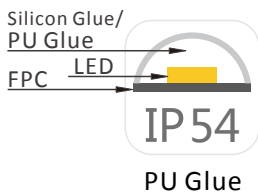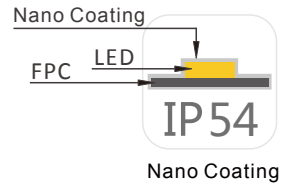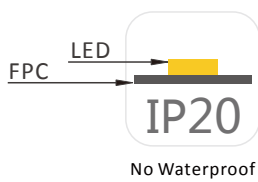
IP Rate Description :

IP20：Indoor use

IP54 Nano：No Color shift with high Color Consistency

IP65 PU：No Lead and mercury, Strong adhesion
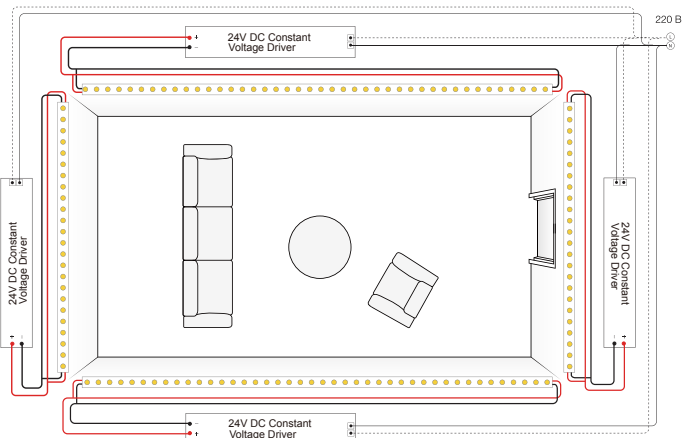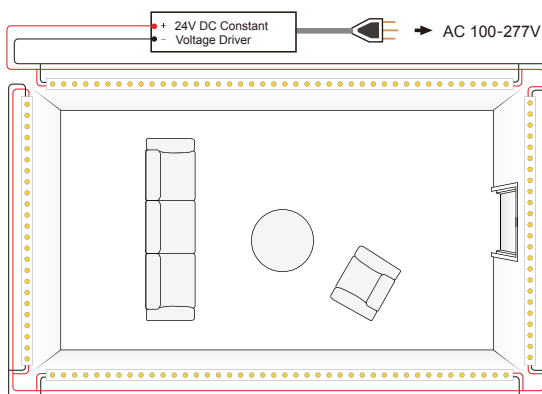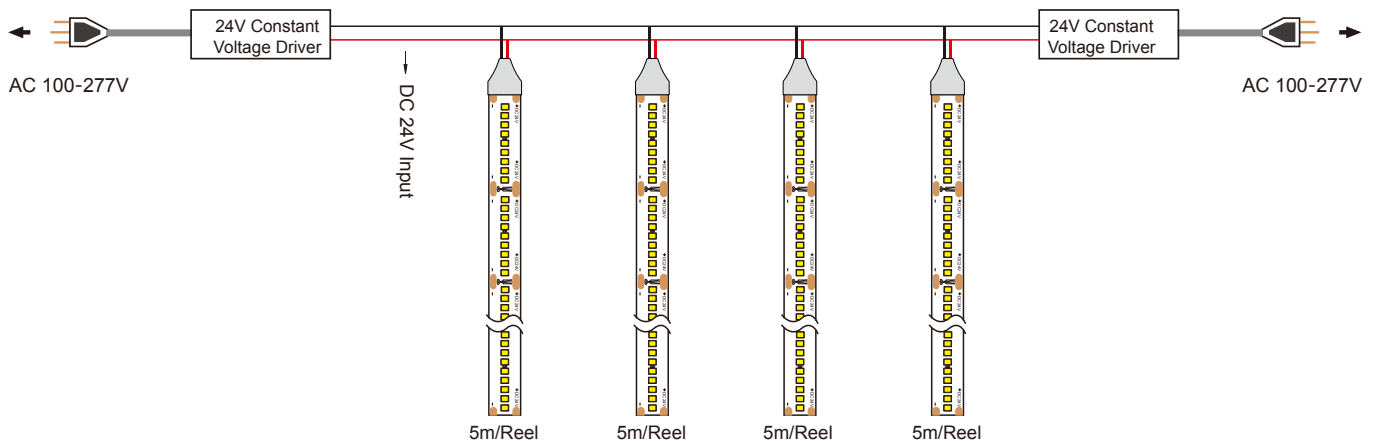
IP65 Silicon：Anti-UV ability, never become yellow

IP67：Lead-free and mercury-free, Strong adhesion

IP68：Silicon glue with Anti-UV, never change color

Silicon Glue/
PU Glue
FPC — LED →

IP54

PU Glue

Transparent
LED
Milky

IP65

Silicon Tube

PU Tube
PU Glue
FPC — LED →

IP67

PU Tube
PU Glue

Silicon Tube
Silicon Glue
FPC — LED →

IP68

Silicon Tube
Silicon Glue

Wiring diagram application :

◆ Single end power input for 5 meters

AC 100-277V

24V Constant
Voltage Driver

DC 24V Input

5m/Reel   5m/Reel   5m/Reel   5m/Reel

24V Constant
Voltage Driver

AC 100-277V

+ 24V DC Constant
- Voltage Driver

→ AC 100-277V

220 B

24V DC Constant
Voltage Driver

24V DC Constant
Voltage Driver

24V DC Constant
Voltage Driver

24V DC Constant
Voltage Driver

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3M Adhesive Tape

3M 200 LSE Type
(Economy Type)

3M 300 LSE Type
(Mid-quality Type)

3M VHB RED
(High-quality Type)
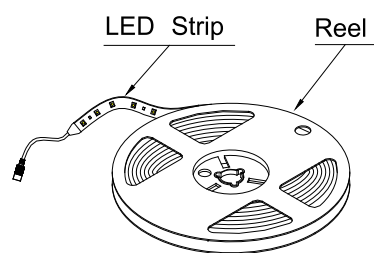
Packaging

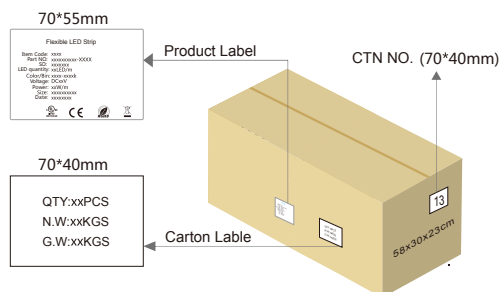### Aluminium foil bag

Labelling area
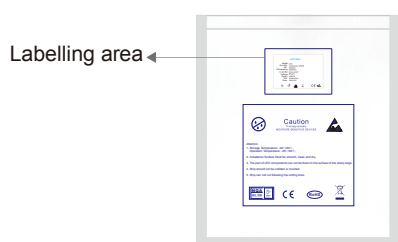
210*235*0.12mm

Bag Photo Show

Plastic reel

LED Strip   Reel

5m/Reel

Reel Photo Show

Carton box

70*55mm

Flexible LED Strip
Item Code: xxxx
Part NO: xxxxxxx-XXXX
SO: xxxxxx
LED quantity: xxLEDs/m
Color:Rxxx-xxxK
Voltage: DCxxV
Power: xxW/m
Size: xxxxxxxxx
Date: xxxxxx

Product Label

CTN NO. (70*40mm)

70*40mm

QTY:xxPCS
N.W:xxKGS
G.W:xxKGS

Carton Lable

13

58x30x23cm

Carton box size: 58x27.5x23cm

Packing Number

50pcs

1pcs

13

58x30x23cm
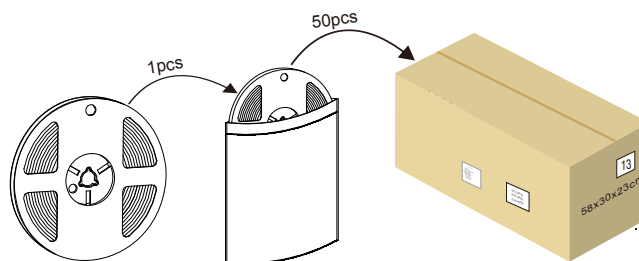
Strip Code :

Item Code	LEDs meter	Input voltage	Watt/m	CCT/K	Color Rendering Index	Lm/m	Lm/ft	LM/w	IP Rate	PCB width
MF328V234A80-D027A1A10	234	24V	12.4	2700K	80 90	2290 2065	715 645	184 167	IP20	10MM
MF328V234A80-D030A1A10	234	24V	12.4	3000K	80 90	2340 2110	731 659	188 170	IP20	10MM
MF328W234A80-D040A1A10	234	24V	12.4	4000K	80 90	2480 2235	775 698	200 180	IP20	10MM
MF328W234A80-D050A1A10	234	24V	12.4	5000K	80 90	2488 2239	777 699	201 181	IP20	10MM
MF328W234A80-D060A1A10	234	24V	12.4	6000K	80 90	2490 2240	778 700	201 181	IP20	10MM

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⚠ Cautions:

≤50 mm diameter of wrapped object prohibited
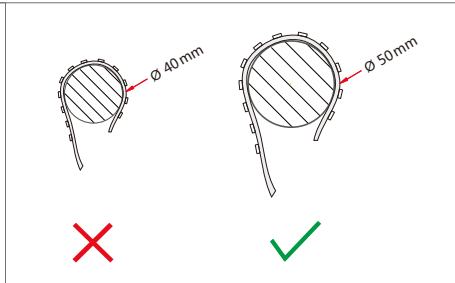
Touching LED, pls wear the electrostatic ring for avoiding ESD
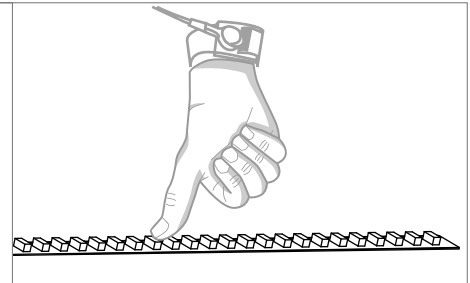
Satety Information

Application notes for led flexiable 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 nun-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.)