Flex Strip Eco-II, Basic-II and Pro-II IP67

Version 11.2

Features and Benefits

Flex Strip IP67 uses multiple-chip LED technology to create a superior linear strip light source. Flex Strip produces a very high light output, and it's also very efficient, compared with conventional LED strip lighting. Meanwhile it maintains the excellent and uniform effects thanks to the intelligent electrical design and LED wide angle. Flex Strip IP67 gives you freedom of design when you work on your light project. It's slim, completely flexible, waterproof, ultra-bright and very easy to install.

Applications

Cove light, ceiling light

Architectural lights for canopy, corridor, window, archway

Backlight or edge lighting for signage

DIY lights for home use

Path and contour marking
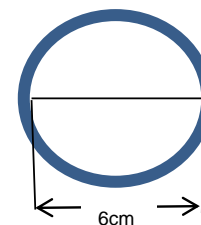
Decorative lights for holidays, events, shows, etc

Other outdoor uses

Characteristics

High output SMD3528 as light source

The light is strong but without hot spots or uneven spots. No "light dots"

Long operating life: 50,000 hrs

Complete system: Fixing brackets, cable, end-caps are provided

IP67 for outdoor use

Impressive flexibility and low weight

Resistant to vibration

Wide operating temperature: It can be operated between -40º to +60ºC. A more extreme temperature may destroy the components or resin.

Don't expose it to salty water

Lifetime & Warranty

Expected Lifetime: 50.000 hrs

Warranty: 2 years

Minimum Diameter

6cm

Technical Performance

ECO

CODE	REFERENCE	COLOR	LED QTY/mtr	Color Temperature (K)	POWER W/mtr	LENGTH	LIGHT OUTPUT (lm/mtr)	CUTTING UNIT	BEAM ANGLE (°)	VOLTAGE (V DC)	CONTINUOUS CONNECTION (m)
20370013	FLEX STRIP ECO-Ⅱ WW IP 67 SILICON 5m/roll 300 LEDs	WW	60	3000-3500	9.6	5m	432	5cm	120	12	5
20370014	FLEX STRIP ECO-Ⅱ WDL IP 67 SILICON 5m/roll 300 LEDs	WDL	60	6500-7000	9.6	5m	540	5cm	120	12	5

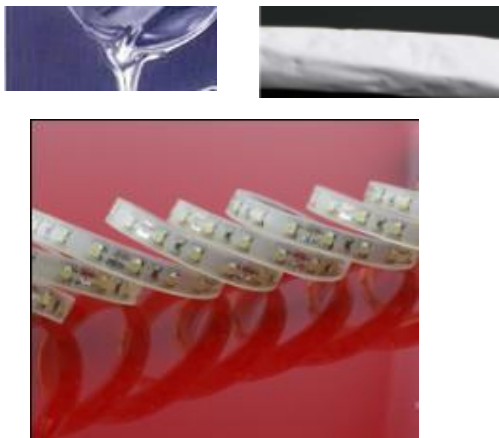**BASIC**

CODE	REFERENCE	COLOR	LED QTY/mtr	Color Temperature (K)	POWER W/mtr	LENGTH	LIGHT OUTPUT (lm/mtr)	CUTTING UNIT	BEAM ANGLE (°)	VOLTAGE (V DC)	CONTINUOUS CONNECTION (m)
20370015	FLEX STRIP BASIC-Ⅱ WW IP 67 SILICON 5m/roll 390 LEDs	WW	78	3000-3500	12.48	5m	562	3.8cm	120	12	5
20370016	FLEX STRIP BASIC-Ⅱ WDL IP 67 SILICON 5m/roll 390 LEDs	WDL	78	6500-7000	12.48	5m	702	3.8cm	120	12	5
20370128	FLEX STRIP BASIC-Ⅱ RED IP 67 SILICON 5m/roll 150 LEDs	RED	30		7.2	5m	162	10cm	120	12	5
20370129	FLEX STRIP BASIC-Ⅱ GREEN IP 67 SILICON 5m/roll 150 LEDs	GREEN	30		7.2	5m	270	10cm	120	12	5
20370130	FLEX STRIP BASIC-Ⅱ BLUE IP 67 SILICON 5m/roll 150 LEDs	BLUE	30		7.2	5m	135	10cm	120	12	5
20370131	FLEX STRIP BASIC-Ⅱ YELLOW IP 67 SILICON 5m/roll 150 LEDs	YELLOW	30		7.2	5m	162	10cm	120	12	5

PRO

CODE	REFERENCE	COLOR	LED QTY/mtr	Color Temperature (K)	POWER W/mtr	LENGTH	LIGHT OUTPUT (lm/mtr)	CUTTING UNIT	BEAM ANGLE (°)	VOLTAGE (V DC)	CONTINUOUS CONNECTION (m)
20370017	FLEX STRIP PRO-Ⅱ WW IP 67 SILICON 5m/roll 600 LEDs	WW	120	3000-3500	19.2	5m	864	2.5cm	120	12	5
20370018	FLEX STRIP PRO-Ⅱ WDL IP 67 SILICON 5m/roll 600 LEDs	WDL	120	6500-7000	19.2	5m	1080	2.5cm	120	12	5
20370122	FLEX STRIP PRO-Ⅱ RED IP 67 SILICON 5m/roll 300 LEDs	RED	60		14.4	5m	324	5cm	120	12	5
20370123	FLEX STRIP PRO-Ⅱ GREEN IP 67 SILICON 5m/roll 300 LEDs	GREEN	60		14.4	5m	540	5cm	120	12	5
20370124	FLEX STRIP PRO-Ⅱ BLUE IP 67 SILICON 5m/roll 300 LEDs	BLUE	60		14.4	5m	270	5cm	120	12	5
20370125	FLEX STRIP PRO-Ⅱ YELLOW IP 67 SILICON 5m/roll 300 LEDs	YELLOW	60		14.4	5m	324	5cm	120	12	5

Silicon

Sleeve

Flex strip ECO-II

190   5000
16
8
0.5   2.2

Flex strip BASIC-II

190   5000
13
8
0.5   2.2

Reel   Anti-static bag   Inside the box   Box
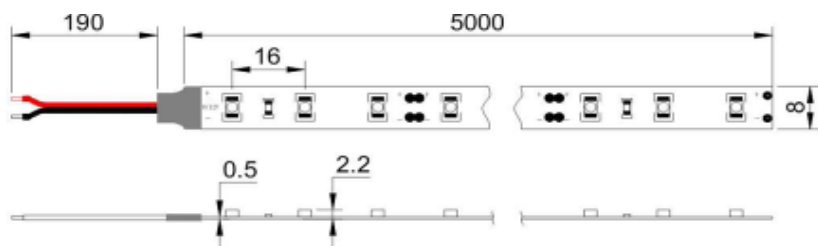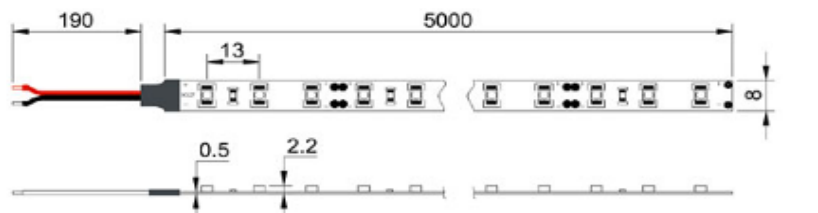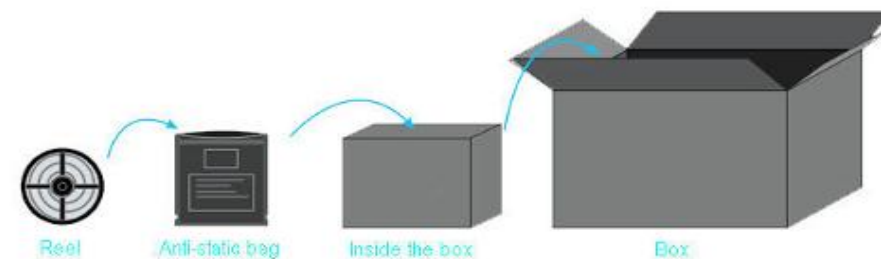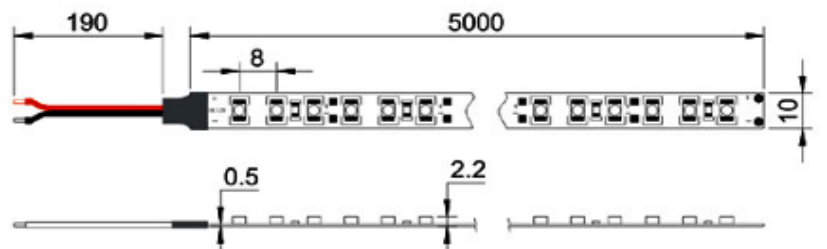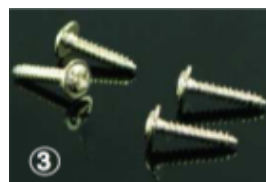
Standard packing
LED strips: 1 reel(5m) 14 bags to one inner box(26x22x25cm)
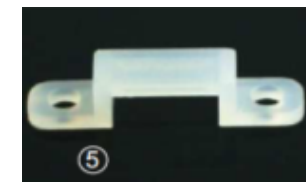Accessories: 1 bag   4 inner boxes to one outer carton(52x45x28cm)
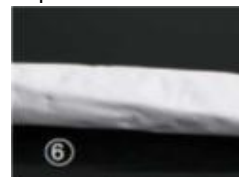
Flex strip PRO-II

Accessories included

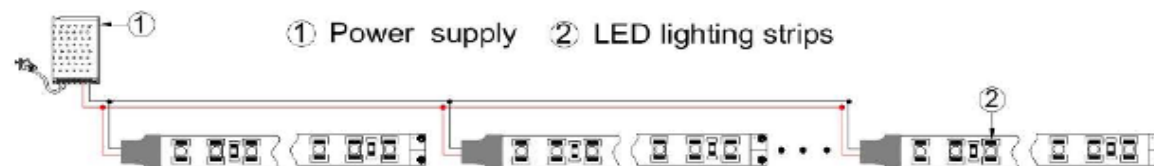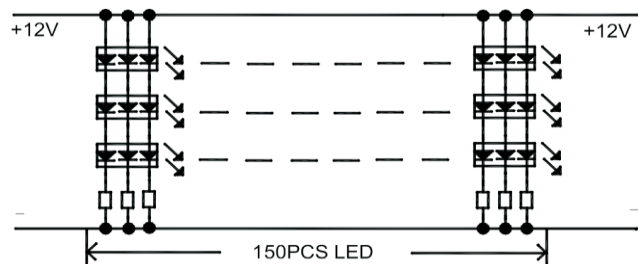

③ 20pcs screws   ④ 4pcs end caps   ⑤ 10pcs clips

⑥ 1 pc glue   ⑦ 1 set waterproof connector

Installation

① Power supply   ② LED lighting strips

1. Solder connection should only be performed on designated solder pads(marked +/-). During soldering, don't exceed the maximum soldering time of 10 seconds and the maximum soldering temperature of 260 Celsius degrees.

2. The smallest cutting unit is 25mm/1"-6 LEDs, and it can be removed by cutting with scissors on the designated solder pads.

3. The mounting of the strip is facilitated by means of the double-sided adhesive on the back-surface of the strip. Care must be taken to provide a clean and dry mounting surface, free of oils or silicone coatings as well as dirt particles. The mounting substrate must have sufficient structural integrity. Take care to completely remove the adhesive backing. Once the strip is appropriately positioned, press on the strip with about 20N/cm2 (refer to application techniques of 3M adhesive transfer tapes).

4. The minimum bending radius is 2cm. The strip may be bent over a smaller radius of the circuit board containing no electronic components and such bends should be made once and fixed in position to avoid cyclic fatigue.

5. Adequate and proper power supply should be applied to run Flex Strip.

6. User can calculate the power consumption according to the electrical data, then decide what power supply should be used.

7. Max 5 meters are recommended as the reasonable connection length of Flex Strip. If more length connected, the brightness will be reduced.

8. Controller is necessary to dim or create an animation for fixed color and RGB version.

Safety Information

1. The LED strip itself and all its components may not be mechanically stressed.

2. Assembly must not damage or destroy conducting paths on the circuit board.

3. Follow electrical and safety standards. Only qualified personnel should be allowed to perform installations.

4. Correct electrical polarity needs to be observed. Wrong polarity may destroy the strip.

5. Parallel connection is highly recommended as safe electrical operation mode.

6. Serial connection is not recommended. Unbalanced voltage drop can cause hazardous overload and damage the strip.

7. Please ensure that the power supply has power to operate the total load. The power supply should be able to load 8A to run 5 meters.

8. When mounting on metallic or otherwise conductive surfaces, there needs to be electrical isolation points between the strip and the mounting surface.

9. Pay attention to standard ESD precautions when installing the strip.

10. Failures caused by corrosion will not be honored as a materials defect claim. It is user's responsibility to provide suitable protection against corrosive agents such as moisture, condensation and other harmful elements.

11. After cutting along the marked line, if you want to connect the cut sections or connect one section to power, you will need to use the waterproof connector (included).