Shenzhen Rayou Lighting (HK) Co.,Limited

Rayou Lighting Data Sheet for Flexible SMD Strips
3528 Single Color Series 12V (300 pieces)

Rayou**'s High Quality Flexible LED strip** is the perfect solution to light up areas in a linear format.

Thanks to its **white(yellow/black is available) printed circuit board** with 3M adhesive tape back, it can be easily installed. It includes a DC connector so you can light it up with power supplies that in.

We install in each Flexible led strip, **300 surface mounted 3528 LED Chips**, that are individually picked by BIN Number in order to have a very steady color rendering in a big production line.

Rayou's Flexible LED strip operates at 12V,can be DC24V as well,because the LED strip can operate at a lower current, which maximizes its estimated lifetime of 50,000 Hrs.

Another advantage of Rayou's Flexible LED strip, is its White colored printed circuit board,which gives it a better finishing look compared to traditional LED Strips.

There are thousands of uses for LED strip, such as:

- **Cove Lighting**
- **Under cabinet LED lighting**
- **Architectural LED Lighting**
- **Automotive LED Lighting**
- **RV LED Lighting**
- **Backlights**
- **Window edging.etc**

We back up this product with a 2 years warranty

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Features:

3528 SMD **4.5-6.5lm/LED High Quality** Flexible LED Strips

1) 60leds/m 5meters/reel; can be cut by 3 LED per unit (DC12V) or 6LED per unit (24V)

And connect again by our accessories.

Input voltage: DC12V/0.18-0.2A/2.2W/M, DC24V/0.18-0.2A/2.2W/M

2) Viewing angle: 120°

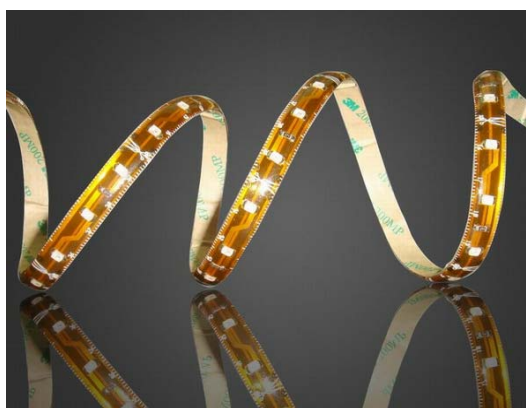3) Available PCB color: yellow; white; black(Special)

Product Information:

Item No	CCT	Λd(nm)/Tc(K)	Flux(±5%)	LED Qty	Watt / ft.	Size(MM)
RL-W_F12400-60T2	White	5000-6500K	1439lm			
RL-WW_F12400-60T2	Warm white	2700-3500K	1340lm			
RL-B_F12400-60T2	Blue	465-470nm	328.4lm	300pcs/reel	1.44W/ 120mA	1000*8/10
RL-G_F12400-60T2	Green	520-525nm	1198lm			
RL-Y_F12400-60T2	Yellow	585-590nm	482.1lm			
RL-R_F12400-60T2	Red	620-625nm	135.2lm			

1. The above data is under the test condition of Ta =25 degree, DC 12V, 60Led/Meter RH 85%

2. Tolerance of measurement of luminous intensity is ±10%

3. The dominant wavelength   λd is derived from the CIE chromaticity diagram and represents the single wavelength which defines the color of the device.

4. Specifications are subject to change without notice.

5. θ1/2 is the off-axis angle at which the luminous intensity is half the axial luminous intensity.

This Flexible Strips can be in waterproof:
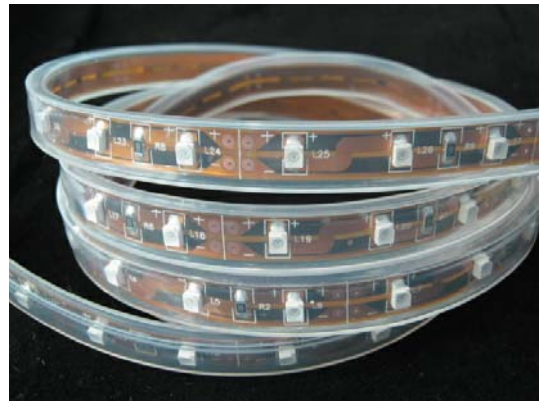
A: Waterproof IP65(WF): glue dropped type

B: Waterproof IP67(TF): silicon tube type

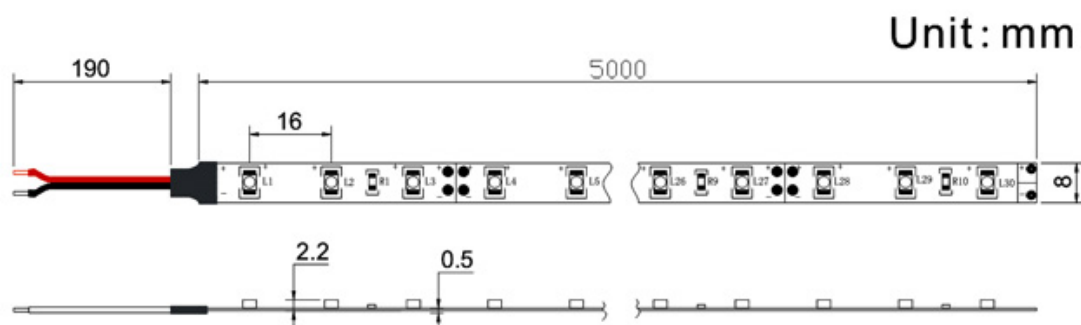# Shenzhen Rayou Lighting (HK) Co.,Limited

C: **Waterproof IP68(KF):** PVC sleeve type

All strips come with 3M self adhesive back for easy installation. We recommend that you use hot melt/glass cement or equivalent to be achieve maximum adhesion. Besides in order to be stronger for strips installation and more convenient for our customers, IP67 and IP68 waterproof strips will be fixed with screws and clips. It is easy to help strip installation with our accessories

Dimension Drawing:

Tolerance of measurement of length and width is ±10%
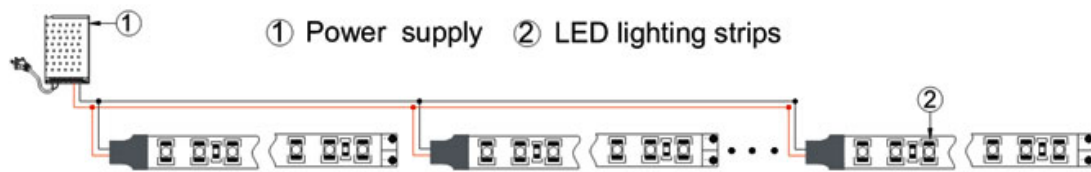
Connect Drawing:

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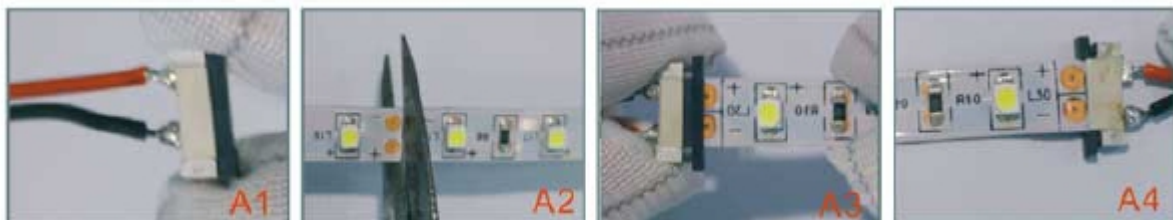
① Power supply ② LED lighting strips

Accessories:

Q1: waterproof connector
Q2: Silicon Glue
Q3: Silicon Glue
Q4: Silicon end cap without hole
Q5: Silicon end cap with hole
Q6: Environment Screws

Power Supply:

How to connect non-waterproof strips:

Step A 1: Pull out the black clip carefully.

Step A 2: Cut the high output led strip at the mark "scissors" or by every 3 SMD LED's (DC 12V).

Step A 3: Put the high output led strip in the space between the clip and connector.
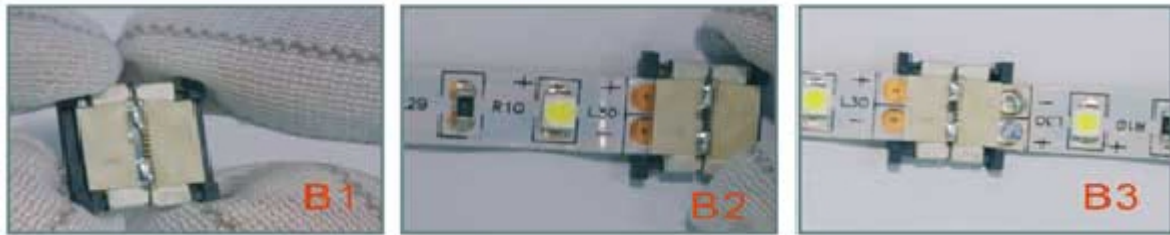
Step A 4: Push the clip in original position

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Email:info@rayoulighting.com   Website:www.rayoulighting.com
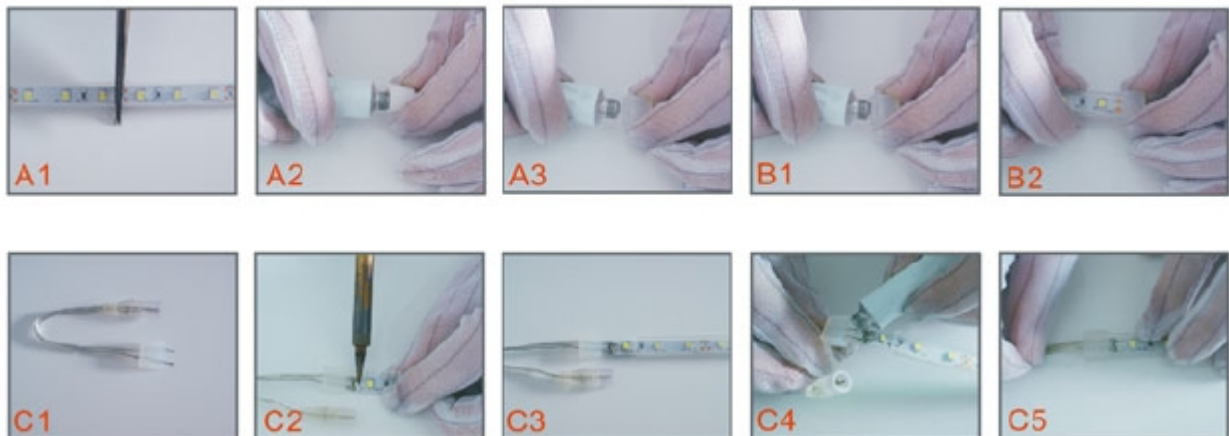
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Step B 1: Pull out the black clip of each side carefully.

Step B 2: Pull the high output led strip in the space between the clip and connector at one side.

Step B 3: Put the high output led strip in the space between the clip and connector at the other side, and push the clip in original position

How to connect waterproof strips:

To cut and seal at one end, please follow the steps: A1 A2 A3 B1 B2

To cut and install waterproof connector at one end, please follow the steps: A1 A2 A3 C1 C2 C3 C4 C5

A1: Cut the light strip at the icon " scissors" or by every 3 LED's.

A2: Screw to open the glue cap.

A3: Use the thrust (another side of glue cap) to puncture the surface.

B1: Inject the silicon gel into the end cap without holes.

B2: Push the strip into the cap and let gel dry for 1 hour.

C1: Put the connector wire through the end cap holes.

C2: Solder the wire onto the PCB.

C3: after solder the two wires, push the strip into the end cap with wires carefully.

C4: Inject the silicon glue at the end of strip and cap.

C5: Make sure end cap and strip are connected well and let gel dry for 1 hour.
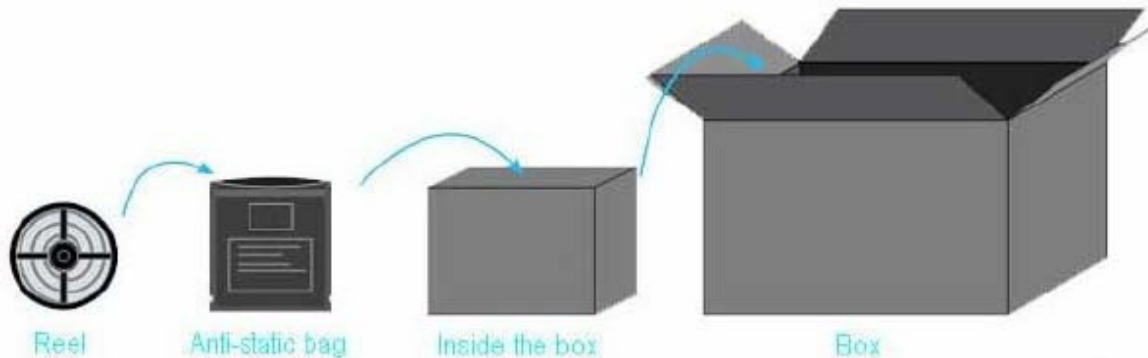
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Package:

Reel   Anti-static bag   Inside the box   Box

Installation Precautions:

1). Connect the lines correctly as shown in the diagram above. It is best to connect 10 meters

2). the working parameters can not over the rate in the limitation in the Absolute Maxing Rating form.

3). the surface upon which the strips are to be installed must be flat and clean, otherwise the LED strip will not properly adhere.

4). Always protect against electrostatic discharge during installation and use of the strip. Never allow a knife or other sharp objects to touch the product.

Payment:
For bulk order T/T is preferred

Delivery Time:

3-4 working days (non waterproof)
4-5 working days (waterproof) after received payment

Freight:
Freight will vary depending on destination, weight, courier or forwarder. We use courier like DHL, UPS, TNT,

FEDEX, EMS. Customer can assign the courier.We will choose the cheapest one but safe transportation for

customer

Warning

- Please note the careful operation, in the power source connection's situation, will touch the alternating current supply end possibly to cause your safety.
- In the actual application, the power source should retain 20% remainders, guaranteed that the sufficiency the voltage lightens LED.
- Installs as far as possible the product in the appropriate environment.
- Pays attention to the power cable in the installment process positive and negative extremely, please do not wrong, power source and product voltage to be whether correct, in order to avoid creates the product the damage.