Product Specification

Product Name	WS 2813 LED STRIP
Product Number	HTD-2813XX-5V
Version Number	V1.0
Page	8

CE

RoHS

Product description

WS2813 LED Strip use the FPC(flexible printed circuit board) to be assembly circuit boards, use SMD LED lights and components to be assembled, so that the thickness of the product only just like, Ocuppy a small space, and can be arbitrarily cut, FPC is soft material, can random winding, and wound freely movable in three-dimensional space without breaking, suitable for irregular place and narrow space of places to install, but also as any possible bending, suitable for advertising, decorative lighting, any combination of the kinds of patterns, LED Chip is built-in IC, then the components is less , pixels can be high, can make attractive appearance, and so on.

IC is designed with double signal, two data line, two power lines, 256 gray scale, high brightness, fast data transfer, fast screen refresh, etc. , it have the advantage that when one of the pixel broken, will not affect another led pixel working, with the controller, you can achieve monochrome, gradient, water , horse racing, text, numbers, chase, English, pictures, animations, video, any effection, and so on.
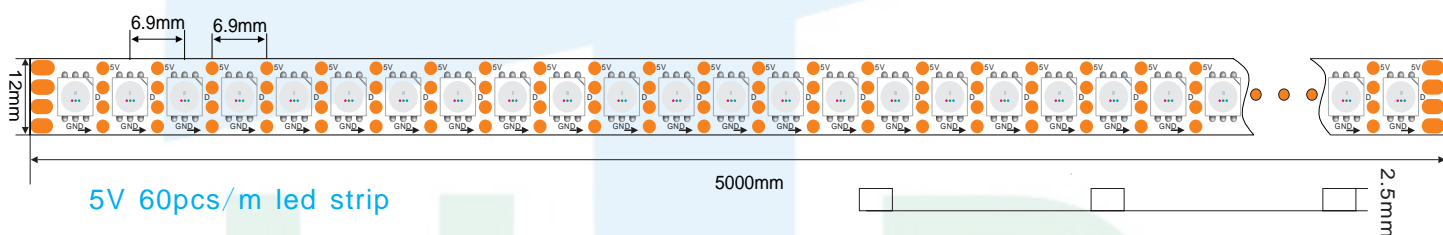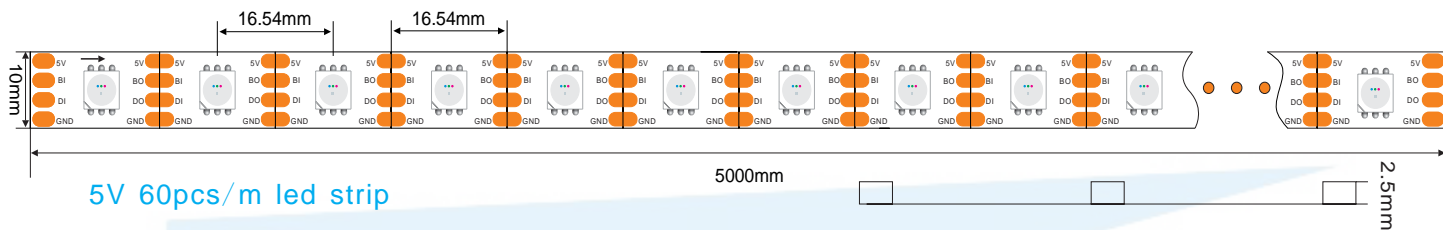
Products using DC5V voltage to power supply, high safety factor, using the import led chip to be the light source , high brightness, light fade is small, maintenance-free, long lifespan , energy-saving and environmental protection, based on the above characteristics, More and more peopel choose led strip as lighting , decoration product .
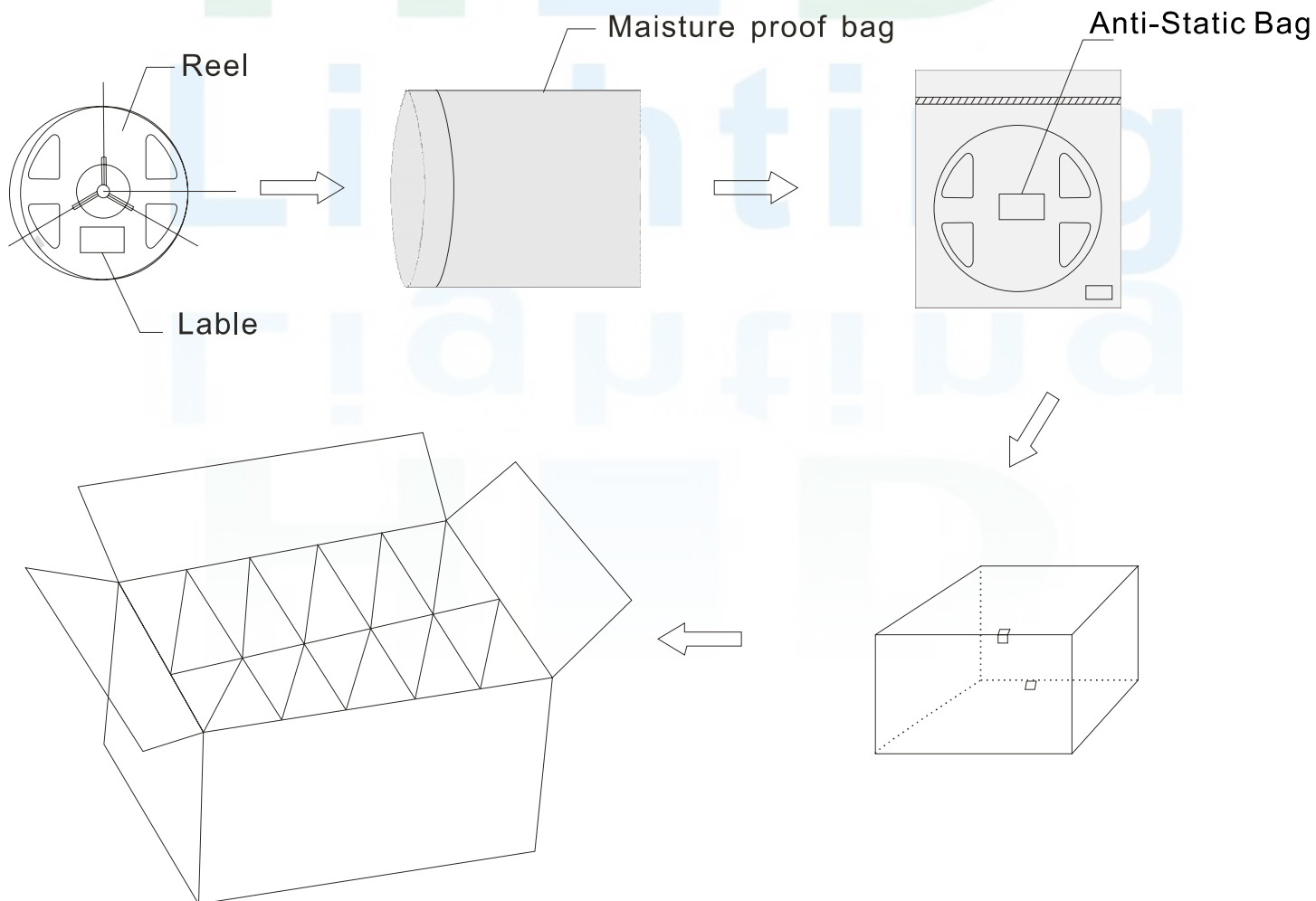
Product Image

Product Features

Adopt international leading manufacturer's chips, high brightness , width angle, color consistency, and stable performance. Each lamp beads form a loop, can be arbitrarily cut according to the needs of the length of the loop, without damaging other parts Convenient to Fix and install, flexible cutting operation make the construction simple, ultra-thin design, low temperature light source, make the selection for the auxiliary material more flexible on installation Energy saving, high brightness, low heat, low energy consumption, Clean, and beautiful;Use DC5V to power supply, more safe on using Protection Rating: IP62 IP65 IP67 IP68, use range is wide Small, multi-colored, no radiation, high shock resistance, is a new generation of green high-tech products

Product Warranty

Warranty is 2 Years

Applications

● City skyline lighting（villas, advertising wall signs, Christmas decorative landscape）

● Irregular design of body decoration（shopping malls, hotels, nightclubs, polygonal wall KTV establishments ceiling cavity design）

● Public lighting lighting（schools, libraries, hospitals, airports, subway stations, railway stations）

● Furniture dark groove trim（door, bar, wine cabinet, wardrobe, TV cabinets, etc.）

● Automotive beauty（body, underbody, wheelbarrow balanced car, etc.）

Project Case

LED Strip dimension

5V 16pcs/m led strip

5V 30pcs/m led strip

5V 60pcs/m led strip

16.54mm   16.54mm

10mm

5000mm

2.5mm

5V 60pcs/m led strip

6.9mm   6.9mm

12mm

5000mm

2.5mm

Packing specification

Reel

Lable

Maisture proof bag

Anti-Static Bag

Specifications

1 meter led strip Specifications

Specifications	Voltage	Power	Angle	IP Rating	Color	Color Temperature		Ra		Lumen			Life
						Min	Max	Min	Max	Min	Average	Max	
HTD–2813X16X-5V	5V	4.8W	120	IP62、IP67 IP65、IP68	🟥🟩🟦⬜🟨	2800K	6500K	Ra>70	Ra>80	R:19.2LM G:48LM B:16LM W:256LM WW:256LM	R:24LM G:64LM B:24LM W:272LM WW:272LM	R:28.8LM G:80LM B:25.6LM W:288LM WW:288LM	50000H
HTD–2813X30X-5V	5V	9.6W	120	IP62、IP67 IP65、IP68	🟥🟩🟦⬜🟨	2800K	6500K	Ra>70	Ra>80	R:36LM G:90LM B:30LM W:480LM WW:480LM	R:45LM G:120LM B:45LM W:510LM WW:510LM	R:54LM G:150LM B:48LM W:540LM WW:540LM	50000H
HTD–2813X60X-5V	5V	18W	120	IP62、IP67 IP65、IP68	🟥🟩🟦⬜🟨	2800K	6500K	Ra>70	Ra>80	R:72LM G:180LM B:60LM W:960LM WW:960LM	R:90LM G:240LM B:90LM W:1020LM WW:1020LM	R:108LM G:300LM B:96LM W:1080LM WW:1080LM	50000H
HTD–2813X144X-5V	5V	43.2W	120	IP62、IP67 IP65、IP68	🟥🟩🟦⬜🟨	2800K	6500K	Ra>70	Ra>80	R:172LM G:432LM B:144LM W:2304LM WW:2304LM	R:216LM G:576LM B:216LM W:2448LM WW:2448LM	R:259LM G:720LM B:230LM W:2592LM WW:2592LM	50000H

Note, the above optical parameters, models X represents optionally, color, water level, the index display. Etc. , please indicate clearly when ordering.

Light decay parameters, test the ambient temperature of 25 degrees, plus or minus 3 degrees

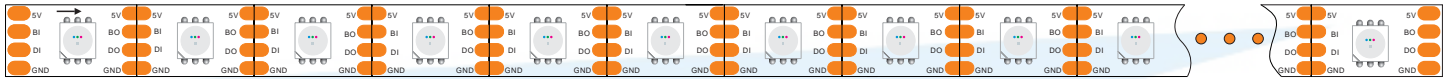| testing time	light fades rate
500H	0%
1000H	0%
2000H	0.5%
4000H	1.2%
6000H	2%

Note, due to the particularity LED product manufacturing process, technical parameters above reflect only the statistics , do not necessarily correspond to the actual parameters of each product, the product may differ from the actual parameters of the above parameters

Due to the use of the special requirements of the following products WS2813

● It is recommended to use, IP65, IP67, IP68 waterproof product on relatively heavy humid environment,

● The product is not recommended to use RGB mixing white for long time

● In special environments, before ordering the product , need to consult our sales representatives or product engineers

Strip cut schematic
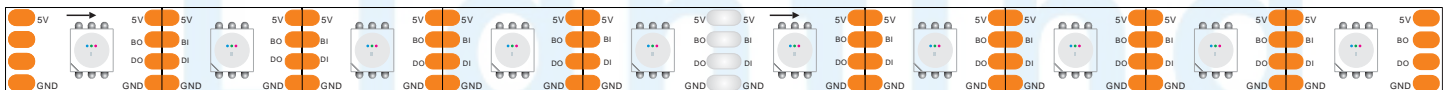
Scissors to cut at the mouth
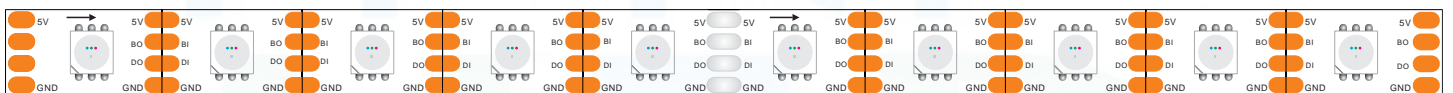

LED STRIP wiring diagram

When using lights outdoors, be sure to do waterproof connectors, waterproof power to do well
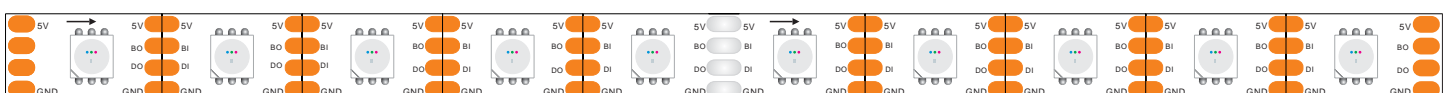

The heat shrink tubing set into the light band, and then the lights welding firm
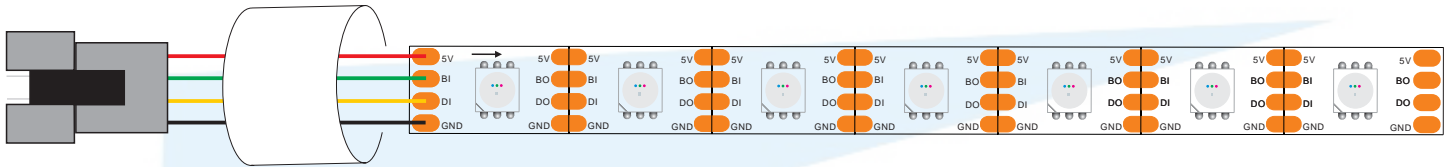

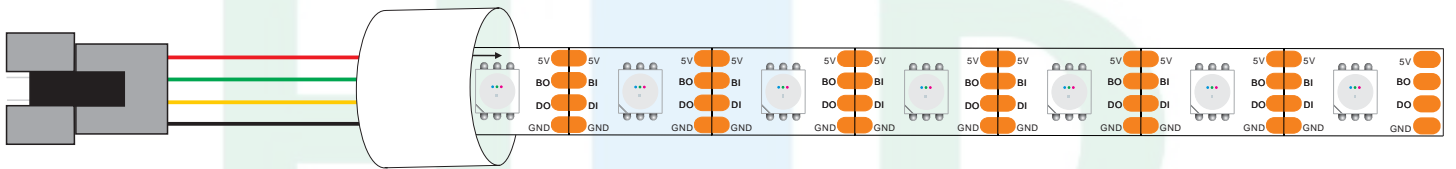Two weld will shrink tubing to move the welding and weld completely wrap

After leaving a good heat shrink tubing, heat shrinkable tube aligned hairdryer to blow completely encased like a light bar
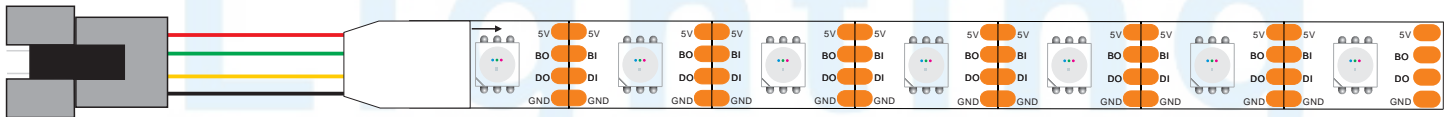
LED Strip wiring diagram

The red, green, yellow and black wires soldered to the
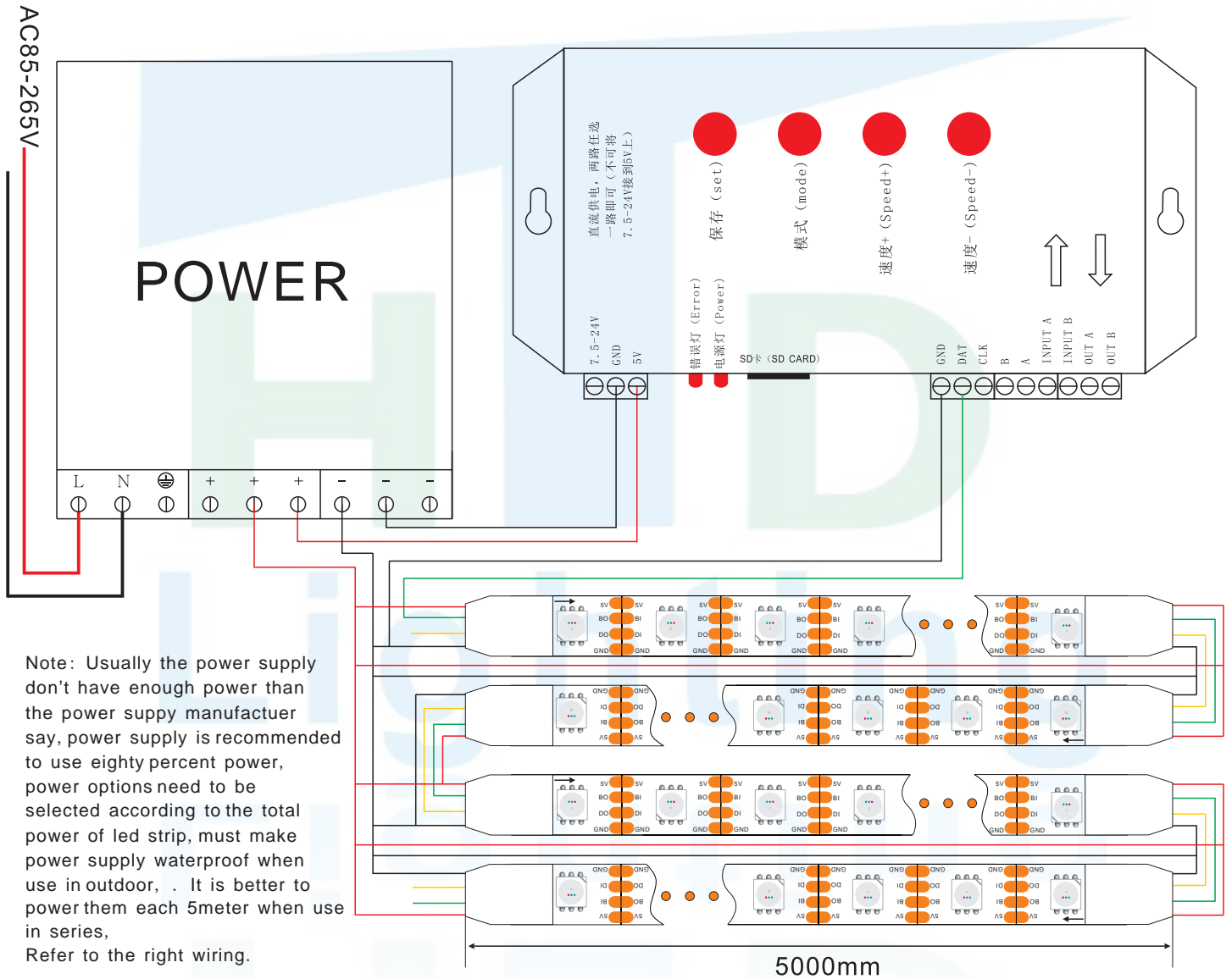lamp terminals tape, then put shrink heat shrink tube

Adjustment shrink tubing, solder joints completely shrink tube

After adjustment shrink tube with hot hair dryer blowing
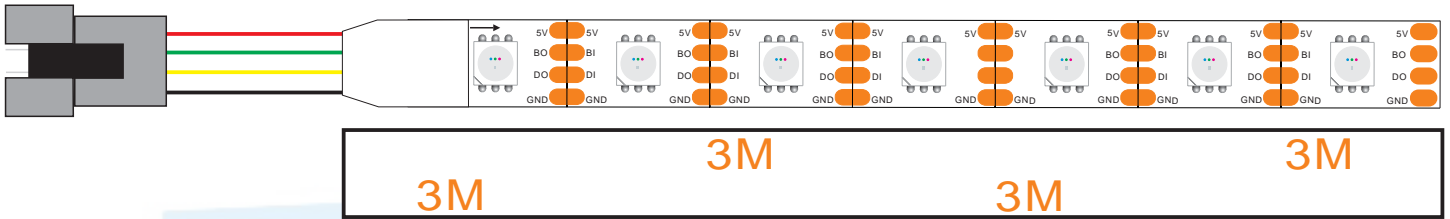shrink sleeve, shrink wrap the joints until completely

Installation wiring diagram

Note：Usually the power supply don't have enough power than the power suppy manufactuer say, power supply is recommended to use eighty percent power, power options need to be selected according to the total power of led strip, must make power supply waterproof when use in outdoor, ．It is better to power them each 5meter when use in series,
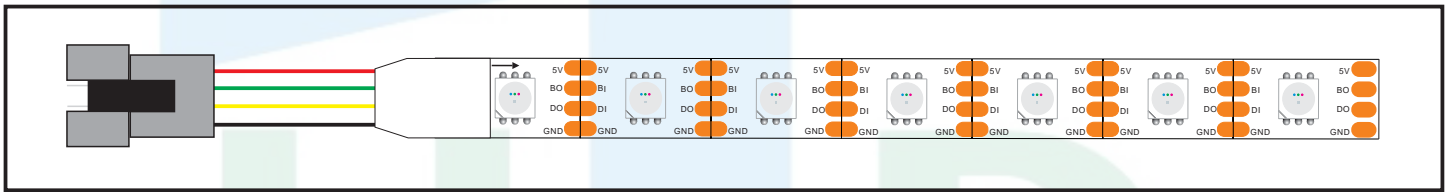Refer to the right wiring.

IP62，IP65 the installation diagram

Clean surface debris, ensure the strip surface clean

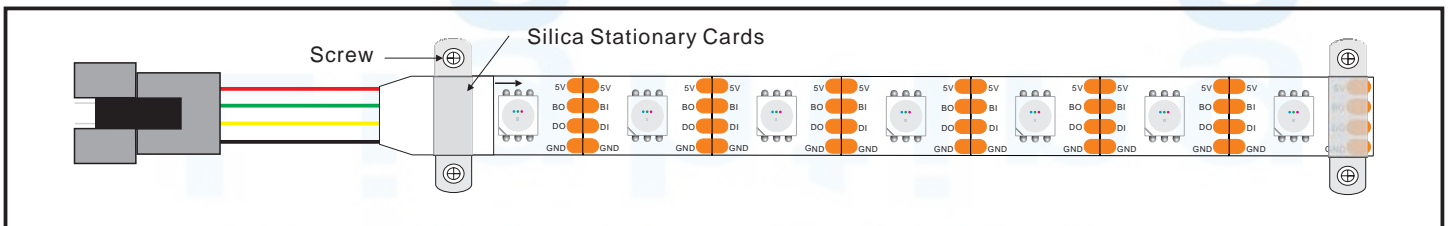Pull the 3m paper out of the back of led strip

The lights straighten directly fixed to the mounting position

IP67, IP68 the installation diagram

Clean surface debris , ensure the strip surface clean

Put the led strip on install place , use screw to fixed ,
each meter need to use 2 silicone snap

Notes

- Please read the specifications and precautions carefully before installation
- Please do not use nails or sharp instruments to intall led strip on the object, use double-sided tape or glue or wall mounted on plywood
- Fixed led strip, you can not use acidic glue, it is recommended to use a neutral glue.
- This product is a constant voltage DC5V, make sure Power is right before installation, after installation, check the wiring is correct or not , so that avoid the product been burned
- This product is recommended use in parallel. when the length is more than five meters, the tail so be power to ensure the brightness is enough or uneven