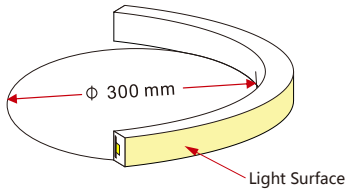
⚠ WARNING **DO NOT CONNECT DIRECTLY TO AC/DC HIGHT VOLTAGE POWER!**
Read all warnings and installation instructions thoroughly.

SFTETY & WARNINGS

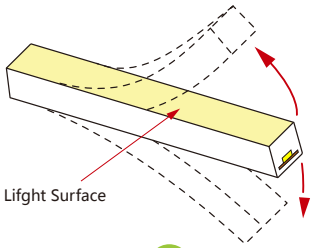
- Before you are making any cuts, installation, maintenance or connection, and be sure the light is disconnected!
- The Light's voltage must match that of the power supply, and input voltage must be constant voltage DC24V;
- Don't connect directly the light to AC Power and high volatge ,failure to do so could burn the circuit board and cause a fire;
- Don't install and light up and use the light under water, Only IP67 application places can be used for this light;
- To extend lifespan of the light, do not operate the lights in temperatures excceding 60°C (140°F);
- Operating&Installation temperature: -25°C-~60°C (-13°F ~140°F), and LED PIN temperature: max. 65°C (149°F);
- Incorrect cutting will damage the light, and do not power the light for over 30 minutes in one coil packaging;
- When doing any cutting and bending and installation, and must operate the light according to the manual instruction

1. Bending Guide

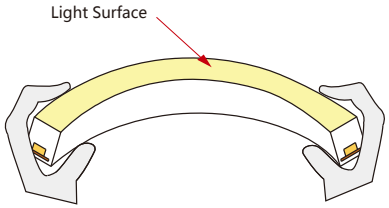
- **Pict. 1**: Min. bend diameter over ϕ300mm Only bend horizontally (opposite bend along to "Ligth Surface");
- **Pict. 2**: The light can only bent vertically (opposite bend along to "Light Surface");
- **Pict. 3**: Forbbiden that horizontal bend along to "Light Surface"), caused to electronic components broken;
- **Pict. 4**: Forbbiden to 360° Twisting (the twisting angle below 45°), and don't twist the neon light when power on;



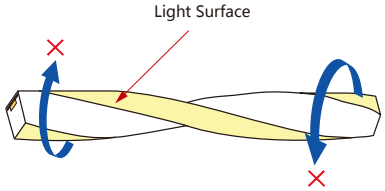
Pict. 1



Pict. 2



Pict. 3

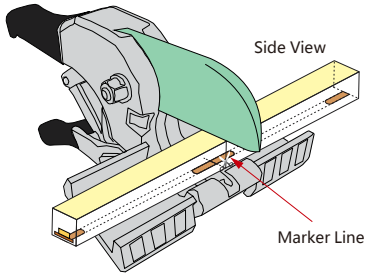


Pict. 4

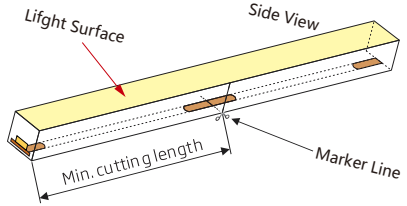
2. Cutting Guide

- Check out the mark line at back side of the light before cutting, and each one segment cuttable;
- Place the light horizontally, and "light surface" facing upwards, and the blade alignment the mark line, when cutting it;
- Use only factory-recommended cutting nippers(Pict.1), and cutting the light according to the following instructions;
- Any incorrect cutting operations will damage the circuity and inner electronic components, like pict. 2/3/4 indicating;

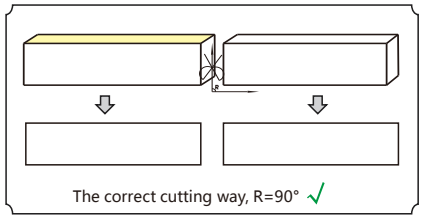
Cutting Nippers



Pict. 1

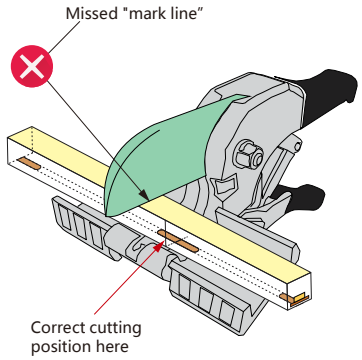


Note: The bottom of the light has transparent window,and the black marker line is the cutting position

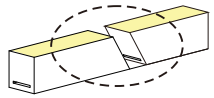


Note: Use only factory-recommended cutting nippers, and must hold 90 degree vertical cut the light.

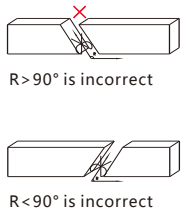
Cutting Nippers

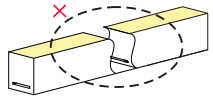


Pict. 2

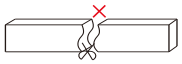


Pict. 3





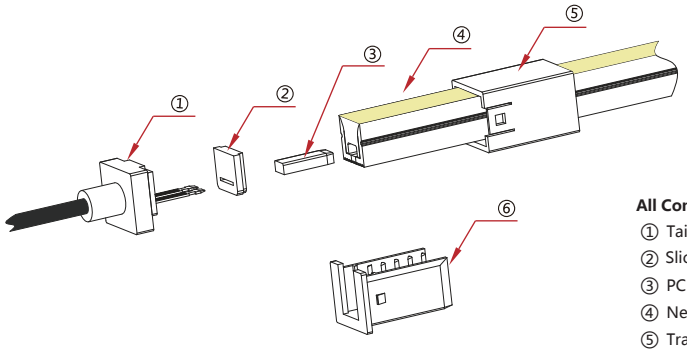
Pict. 4



CAUTION: do not make R<90°/R>90° cutting, or make wave cutting, otherwise the inner circuitry will be broken.

3. Tail Connector Assembly

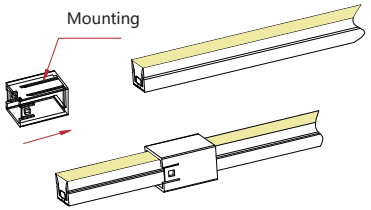
- Never wet the assembly units or assemble with wet hands.
- Repeated assembly or Repeated using of the components may cause in waterproof failure.
- Please ignore these steps if the tail connector has been assembled before delivery.



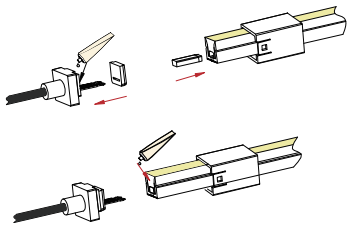
Explosion Diagram

All Components of the Tail Connector:

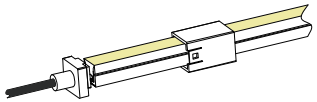
① Tail Plug *1pcs
② Slicone pad *1pcs
③ PC pad *1pcs
④ Neon Light *1pcs
⑤ Transperant PC locker *1pcs
⑥ White PC end cap *1pcs



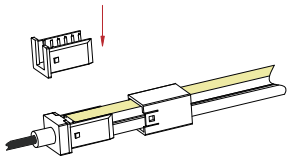
Step 1: insert the ⑤ PC locker into ④ the neon light, pls make sure the direction are same as the explosion diagram.



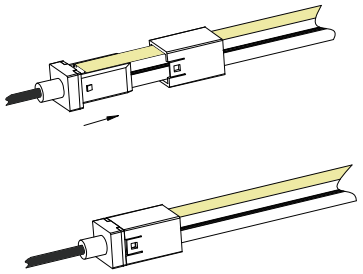
Step 2: Inser③ the transperant PC Pad into ④the neon light, inser ② the silicone pad into ① the tail plug , and put some silicone glue on the neon light.



Step 3: insert ① the tail plug into ④ the neon light.

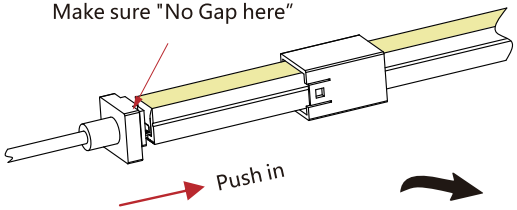


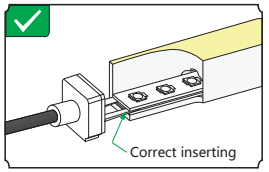
Step 4: put ⑥ the PC end cap on the tail and locked.



Step 5: Push the ⑤ PC locker toward ① the Tail Plug until it was locked well.

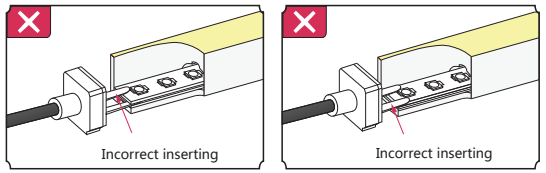
Tail Connector Assembly





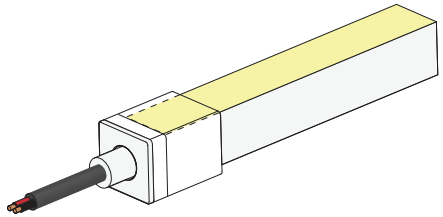
Note: The 2 Pin must insert between FPC and PET

Note: Make sure the two pins install correctly.



Note:
Tighten the screws according to the screw tightening sequence so that the connector does not become skewed in any direction, and take care not to over tighten the screws.

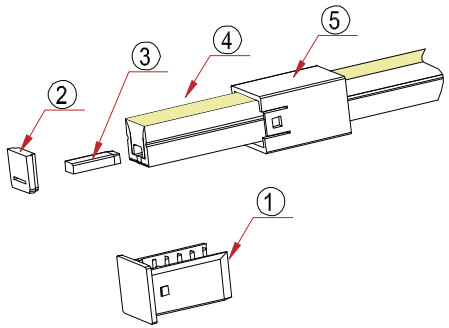
After finishing the assembly completed, and check and test the all components, and check its functionality and do waterproof reliablity testing(The waterproof is IP67 maximum, and pls don't). use and install the light underwater.



Assembly Completed

4. End Cap Assembly

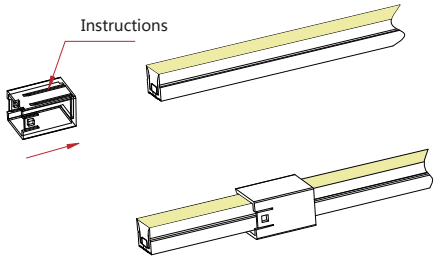
- Never wet the assembly units or assemble with wet hands.
- Repeated assembly or Repeated using of the End Cap may cause in waterproof failure.
- Please ignore these steps if the end cap has been assembled before delivery.



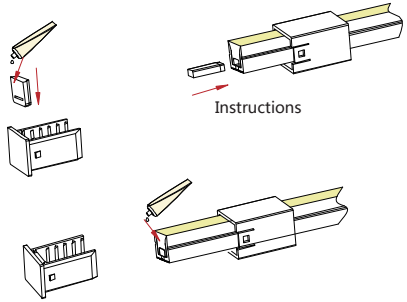
Explosion Diagram

All Components of the end cap:

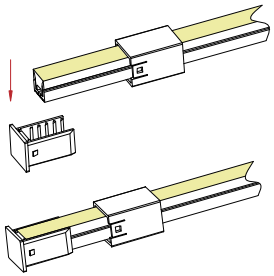
① PC end cap *1pcs
② Silicone Pad *1pcs
③ PC Pad *1pcs
④ Neon light *1pcs
⑤ Transperant PC locker *1pcs



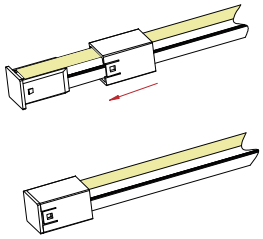
Step 1: insert the ⑤ PC locker into ④ the neon light, pls make sure the direction are same as the explosion diagram.



Step 2: Inser③ the transperant PC Pad into ④the neon light, inser ② the silicone pad into ① the PC endcap, and put some silicone glue on the neon light.



Step 3: Put ④the neon light into ①the end cap, make sure the end side of neon light contact with ② the slicone pad well.

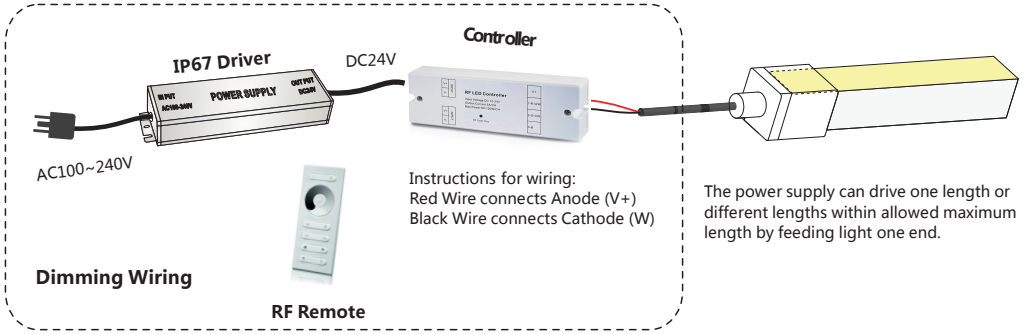


Step 4: Push the ⑤ PC locker toward ① the endcap until it was locked well.

5. General Wiring Diagrams

- This LED Neon Flex Ribbon must be used in conjunction with DC24V power supply;
- Always observe proper polarity, Polarity symbols should match on each component;
- Avoid the voltage drop, and do not use excessive lengths of wire between the powr supply and light fixture;
- Ensure to add 20% buffer when sizing power supply, the power cable carried current is no greater than 80% of its capacity;

5.1 Monochrome Light Wiring Diagrams

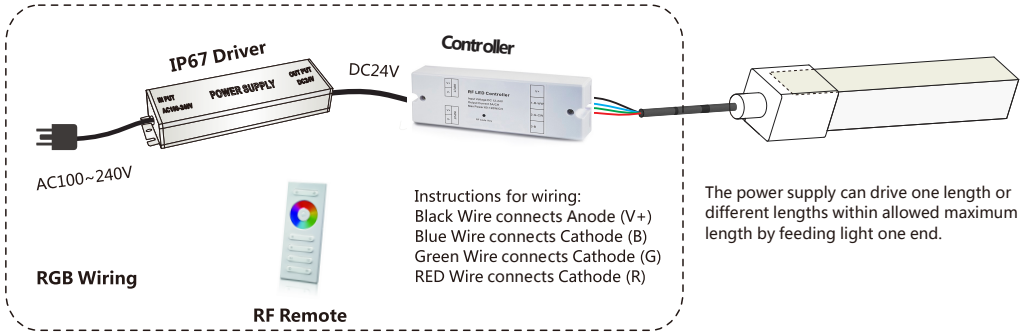


Maxi. Loading of Length

Single End Power

Artical No.	Power/m	
72277	10 W/m	10m
72307	10W/m	10m
72407	10 W/m	10m

5.2 RGB Color Wiring Diagrams



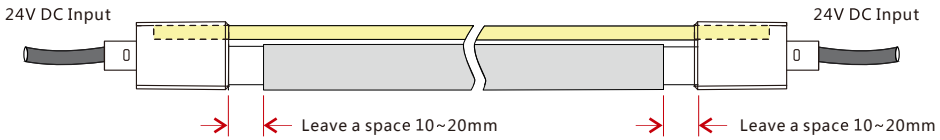
Maxi. Loading of Length

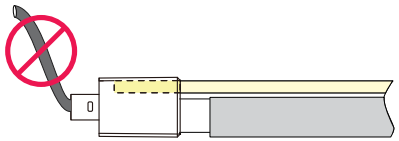
Single End Power On

Artical No.	Power/m	RGB
72437	10 W/m	10m

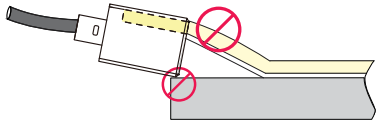
Mounting Guide

- Make sure the tail connector (top end) and end cap to be installed out the profile;
- Leave a space 10~20mm between the end of AL profile & the end of the connector, and forbidden below 10mm;
- forbidden to curl or pull the connector cable with excessive force, and Mechanical stress on cable shall be avoided;

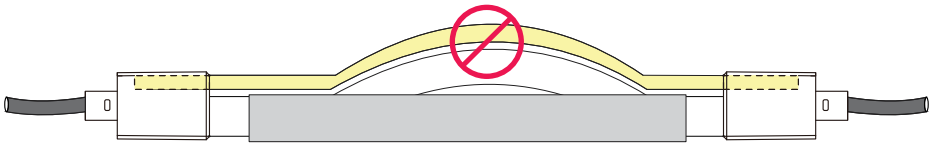




Note: forbidden to curl or pull the connector cable with excessive force



Note: forbidden to bend the light at a sharp angle and the connector must be out the AL profile.



Note: To avoid warping in the center, only install the fixture from one end to the other.

Troubleshooting & Disclaimer

The Entire fixture doesn't work:

- Check power supply is plugged in, switched on, and connector is inserted into backside of PCB and properly assembled;
- Check all light, controller connection from the power supply to LED Neon Flex Ribbon, polarity of all wire connections;
- Make sure input output voltage is 24V DC, Check front connector is inserted into backside of PCB and properly assembled;

If the first segment doesn't work:

- Make sure units properly cut. If it has been cut wrong, remove the first segment, cutting it off properly,
- Check for damage done to the first LED from improper installation of the connector. If damage has been done, cut out the first segment and properly assemble the connector.

LED Neon Flex Ribbon is flashing on and off:

- Check that connector is properly installed with good contact with the copper PCB, and check all controller connected;
- Check the power supply to ensure it supports the length you are using. Select the appropriate strength or install an additional power supply to support your installation.

Warranty Terms and Conditions:

- We provides a standard 3 year (36-month) limited warranty including all compoents, and this limited warranty covers manufacturer defects in the material and workmanship, and is valid under doing all operations directed by this manual, and not covered by this warranty are those considered as parts which are prone to failure due to normal wear and tear.
- We will not cover damage by abuse, misuse, curvature past the recommended bend radius, punctures, cuts, shortening or splicing outside of the designated cutting marks, disregard for proper cleaning, faulty installation, including for feiting the use of a surge protector, or any repairs not carried out by certified LED lighting professionals.