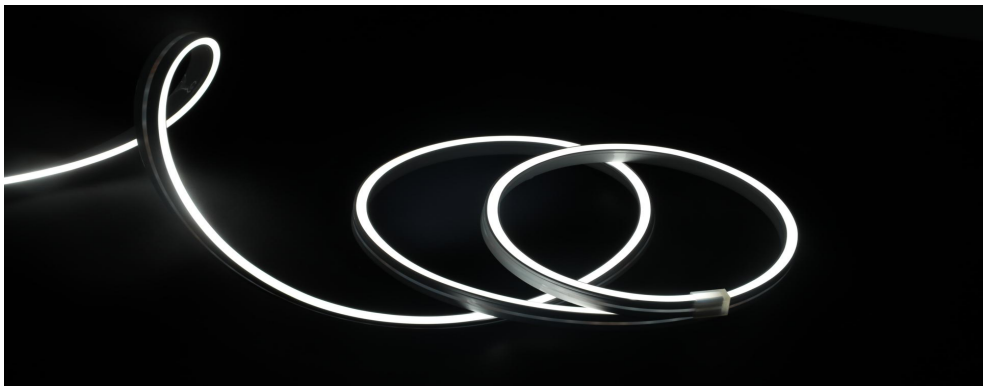
What is LED Strip Light

1. Definition

Led strip light refers to the LED assembly in the FPC flexible circuit board or PCB hard board, because of its product shape like a strip and named.



2.Types

LED Strip Light routinely includes Flexible LED Strip & LED Hard Light Bar.

According to the waterproof level and the use of different regional requirements, Flexible LED strip is divided into:
bare board, drop glue, tube housing/casing, potting and so on.

Its characteristics:
a. can be flexible curling, any cut, extension, easy to outline the shape of the curve
b. small power consumption, high brightness, long life, high security


LED hard light bar with PCB hard board as circuit board, aluminum alloy + PC shell material. Hard light bar is easy to fix and heat dissipation, easy to process and install; the disadvantage is that it can not be bent and cut at will.

3. Light-emitting mode

front light-emitting, three-sided light-emitting, arc light-emitting, side light-emitting, 360 ° full light-emitting

4. Installation

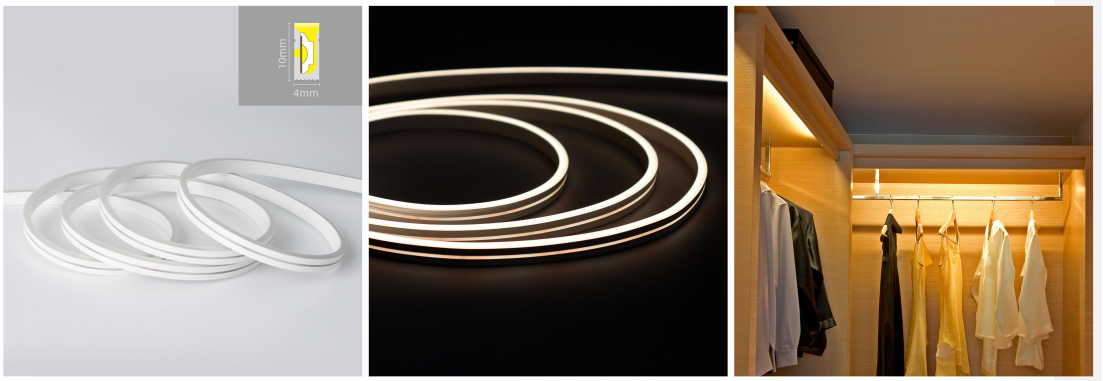
Open installation, Concealed installation

5. Wiring mode

Welding line, No welding pin serve

6. Application

Widely used in furniture, automotive, advertising, lighting, ships, bars and other industries



7. Maintenance instructions

A. Anti-static: the use of static-free soldering iron, the maintenance staff to prepare for the anti-static measures (wear static ring and anti-static gloves).

B. The continuation of high temperature: the use of temperature-controlled soldering iron, limited temperature is prohibited to change at will. Maintenance of the soldering iron can not stay in the LED foot position for more than 10 seconds, otherwise it will burn the LED chip.

C. Short circuit: found that there is not bright position is likely to be due to the foot position at the short circuit, maintenance must be clarified before the cause. Rashly change the LED will lead to power back again when the new LED chip is still short-circuited.

8. Troubleshooting

A. Solder joints brittle cracks, fall off

a. False welding (less solder, not full welding)

b. Poor quality of solder, not using environmentally friendly lead-free tin

c. Circuit board soldermask is too thick

B. Lamp beads are damaged

a. Poor packaging and protection measures, collision during transportation Damage

b. Do not do a good job of electrostatic protection measures, electrostatic burn

C. Installation operation is not standardized

a. Bending angle is too large

b. Oversqueeze products

c. Excessive distortion of the product

9. Identify the quality

LED strip light market is a mixture of good and bad, the price of different qualities vary greatly. Identification:

A. **Look at the solder joints.** Regular use SMT SMD process, with solder paste and reflow soldering production. Solder joints smooth and full

amount of solder welding does not cut corners, solder joints were arc-shaped from the FPC pads to the LED electrode extension.

B. **Look at the FPC.** FPC copper and calendered copper, copper foil protruding from the copper-laying board, calendered copper and the FPC as a single entity, can be bent at will. Too much bending of the copper plate and maintenance temperature is too high will lead to pads off.

C. **Look at the tube housing material.** Soft tape to 100% pure silicone material is optimal, through the waterproof performance and fire test to determine whether the material is PVC or imitation silicone.

D. **Look at the packaging.** Inner packaging protection measures are good, the outer packaging for the K = K carton and package good corner protection.

E. **Look at the label.** Formal LED strip light packaging will have a clear label to identify the product parameters and production date.

F. **Look at the manufacturer's qualifications.** Whether the professional production qualifications, brand patents can be arranged to see the factory.