

Neon Flex Specification

N008232XC1LZ(8X8)Side View



IP67

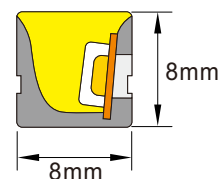


CB
Scheme



Product Parameter

- 8x8 single-sided side emitting neon strip, can be bent left and right ;
 - Light source: high-efficiency lamp beads;
 - Process material: high light transmittance environmental protection grade silicone material, good flexibility of silicone material;
 - Optical design: Unique optical light distribution structure design, uniform light on the surface without shadows, No spot, very soft light;
 - Appearance design: simple and stylish, exquisite and unique, bringing better lighting performance for indoor/outdoor applications;
 - Product certification: UL, CE, RoHS;
- Environmental characteristics: resistance to salt liquid, acid and alkali corrosion resistance, flame retardant, UV resistance;
- Working/storage temperature: Ta: -25~55°C / 0°C ~ 60°C;
 - Product application: signboard lighting, outdoor/interior decorative lighting, architectural contour applications;



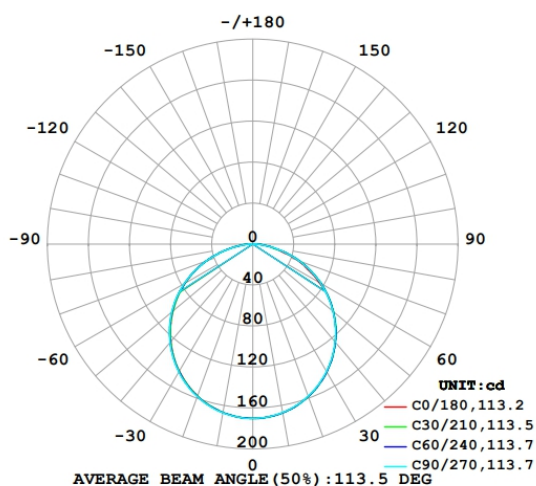
Photoelectric parameters

| PN | Color | CCT | LED Qty/M | Voltage | Power | Cutting Length | CRI | Brightness (lm/m) | Standard Length | Max Length |
|--------------------------------------|-------|-----------|---------------------|---------|-------|----------------|-----|-------------------|-----------------|------------|
| N008232XC1LZ Side view (N0808) | W | 2800±200K | SMD2219 232pcs/m | DC24V | 8W/m | 4.31mm | ≥90 | W:450lm | 5010 ±15mm | 10m |
| | | 3600±300K | | | | | | | | |
| | | 5000±450K | | | | | | | | |

Remarks:

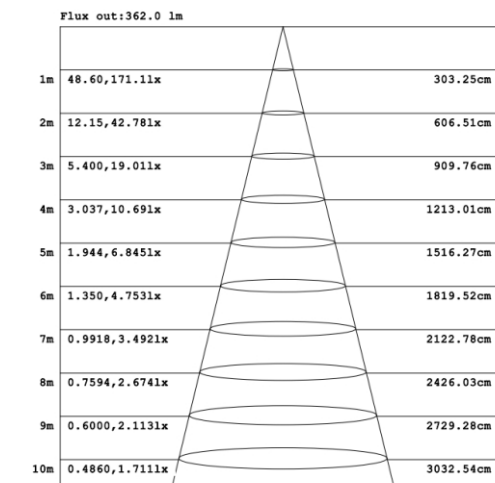
1. The above parameters are tested based on 1M standard products;
2. The luminous flux is allowed to have an error range of ±10%;
3. The above parameters are typical values;
4. When this neon led is longer than 5 meters to 10 meters, it needs power from both ends;
5. Subject to change without prior notice.
- 6.Length tolerance applies. Actual product dimensions may vary.

Product light distribution curve



Light distribution curve

Note: the above data is based on monochrome 4000K color temperature



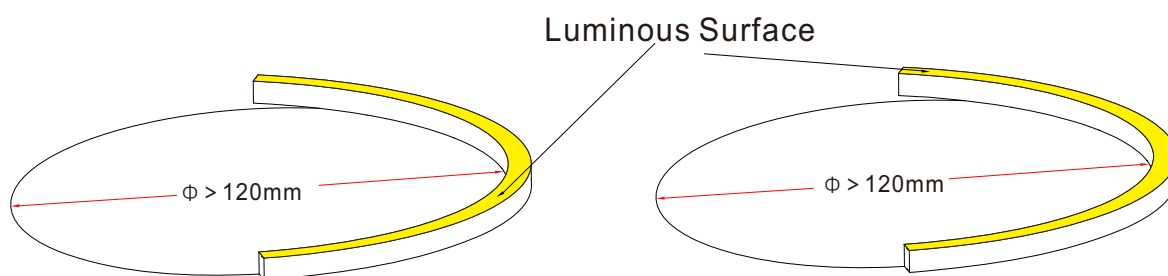
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

Note: the curve is the illumination area and the average illumination within the area of the lamp under different projection distance

Effective average illumination

Minimum Bend Diameter

Unit: mm

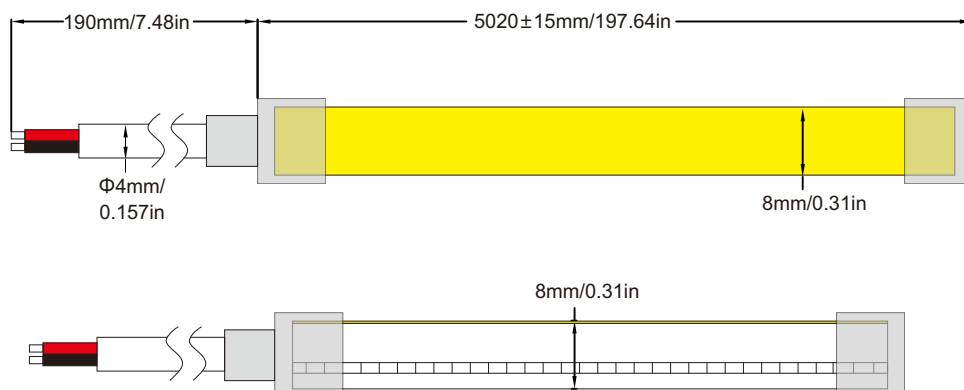


Mechanical parameters

Silicone end cap - Straight outlet

The end cover is sealed with adhesive bonding for waterproofing

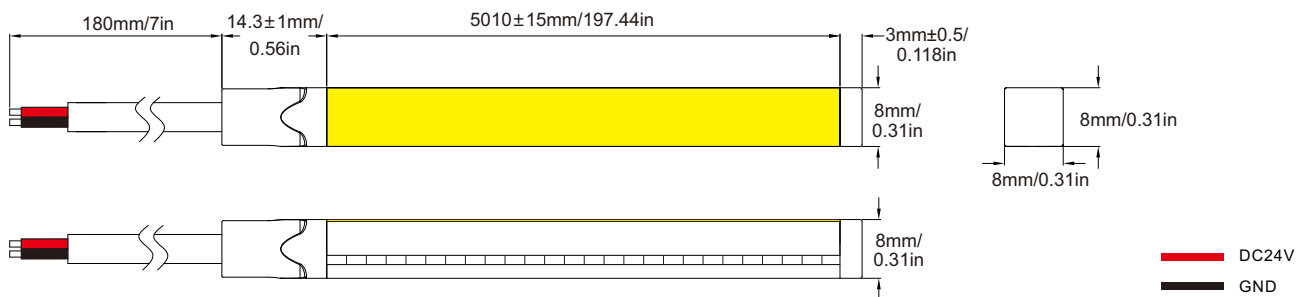
Unit: mm/in



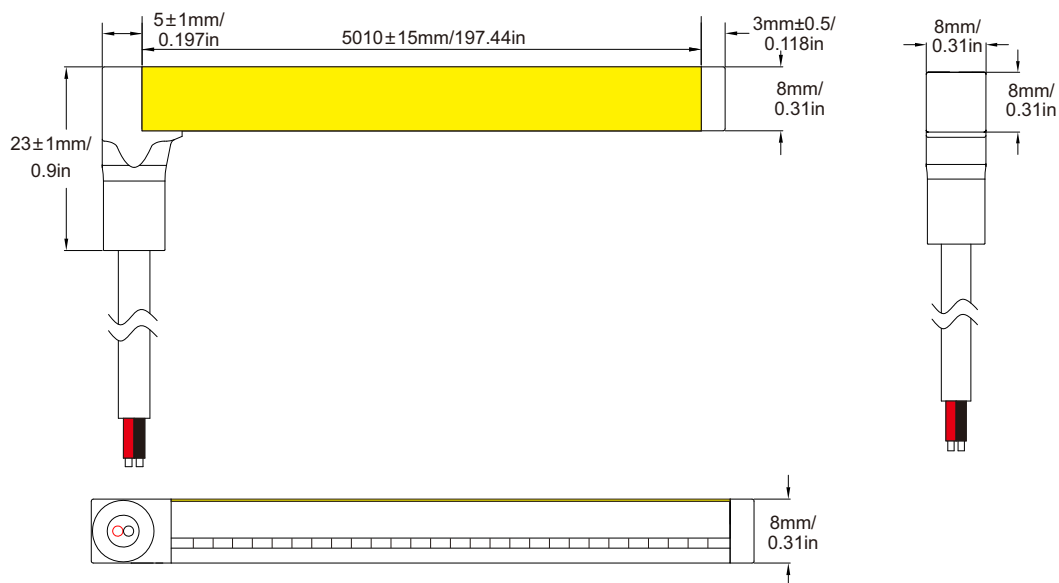
Note: Length tolerance applies. Actual product dimensions may vary.



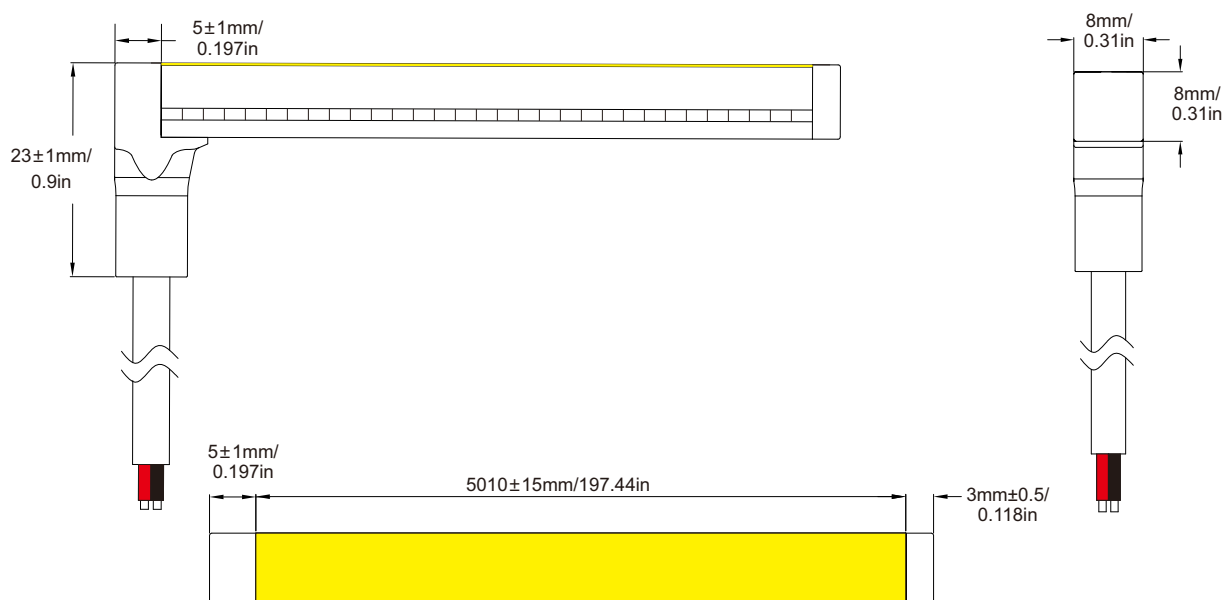
Mold injection end cap - Straight outlet



Mold injection end cap - Side outlet



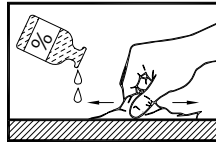
Mold injection end cap - Bottom outlet



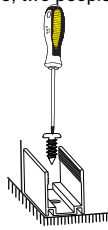


0808 Installation diagram

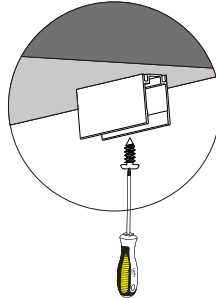
Wipe the dust on the installation luminous surface with clean water.



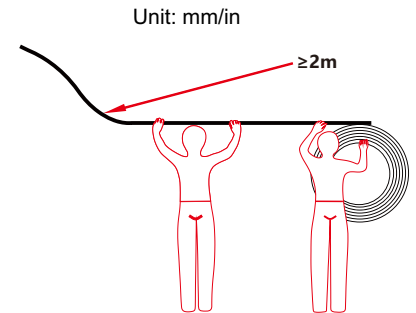
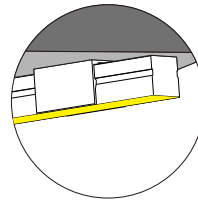
First fix the buckle with screws, and then clip the neon light strip into the buckle. When the length of the neon light strip is greater than 2 meters, two people are required to install it together. (refer to the figure below)



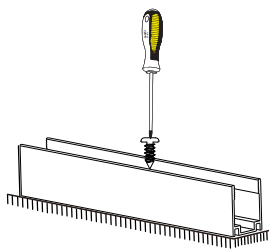
Clip



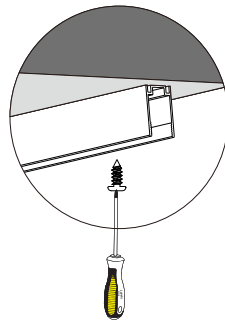
Surface



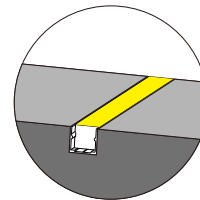
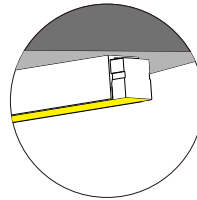
When the length of neon light strip is more than 2 meters, two people are required to install it together.



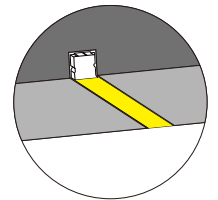
Aluminum profile



Surface

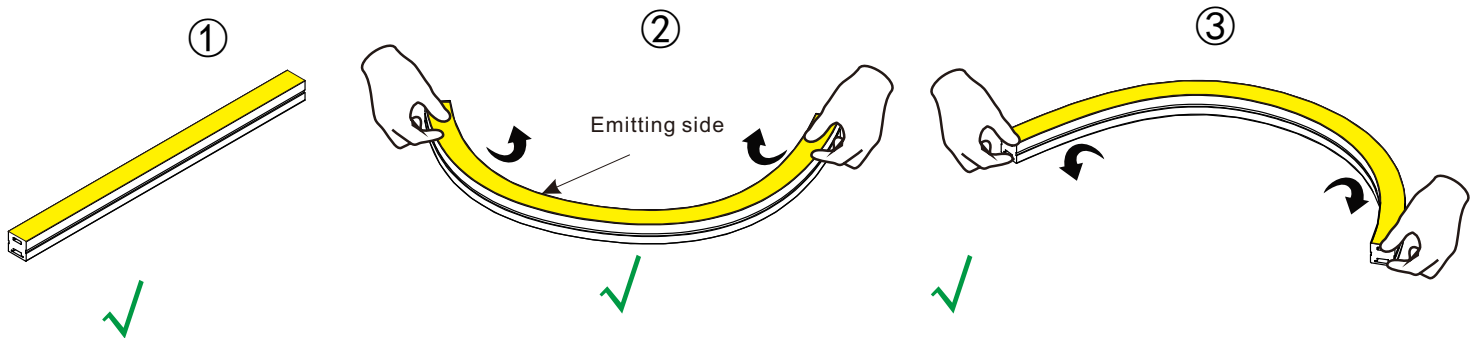


Mounted embedded

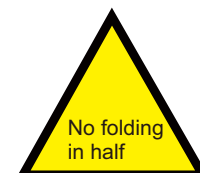
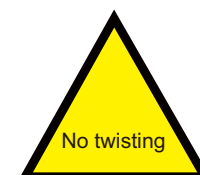
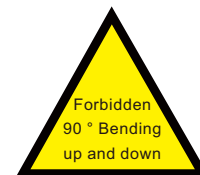
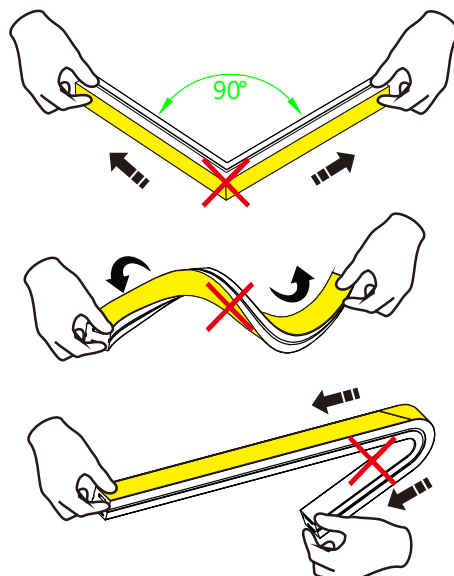


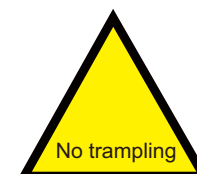
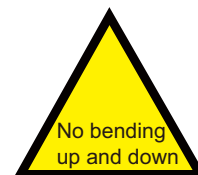
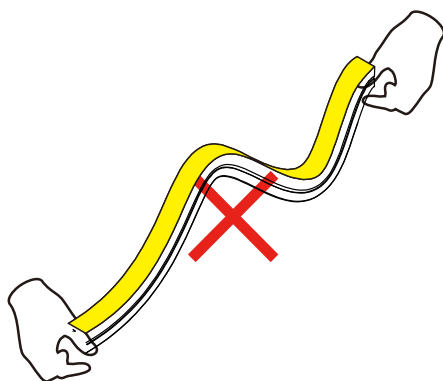
Mounted embedded

Correct installation method



Error installation method



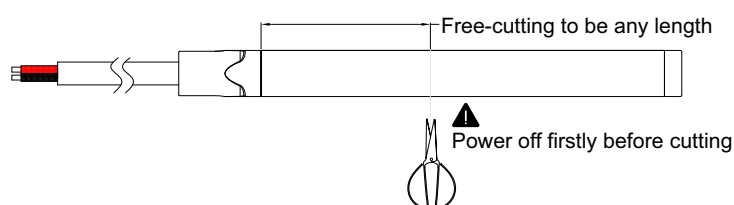


Cutting and the waterproof treatment of both ends

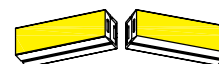
By default, our products will be shipped in regular lengths according to customer requirements.

If the customer has to cut and assemble on site, we can provide some end caps with holes and end caps without holes (all sections can be used). However, please note that in this case, the front and rear ends must be glued for waterproof treatment.

Cutting method

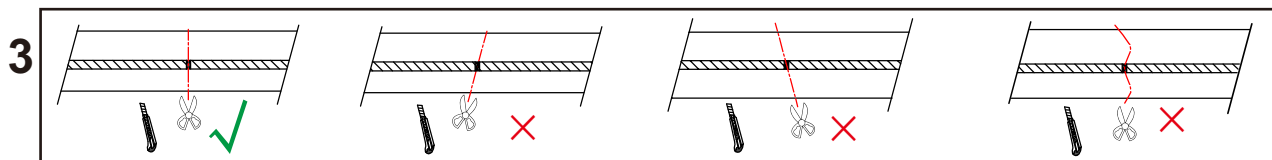


FPC Cutting



1

2



Cutting precautions

Waterproof treatment after cutting

1. The cut output end is glued and plugged with a non hole end cap (Fig. 1);
2. If there is no welding cable at the head and tail ends after cutting, first thread the male wire through the end cap, then weld it to the head end of the LED neon flex, and then apply glue for waterproof treatment (Fig. 2);
3. If there is no cable at the input end of cutting, and the male input cable must be welded (Fig. 3).

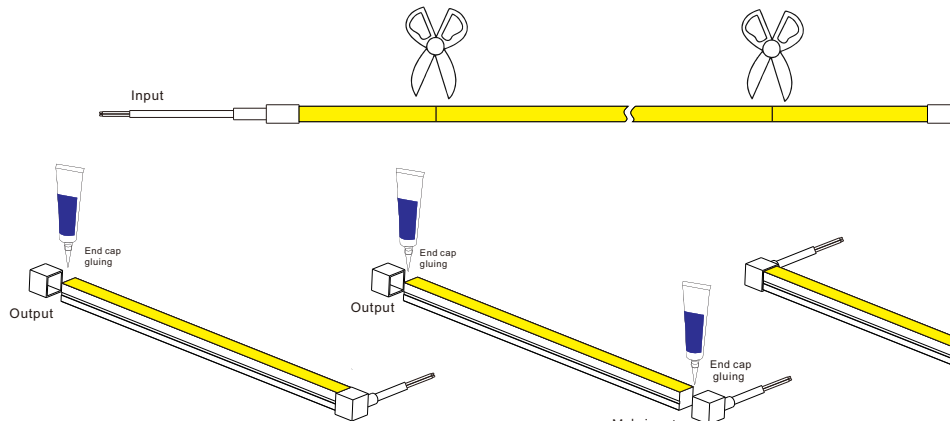


Figure 1

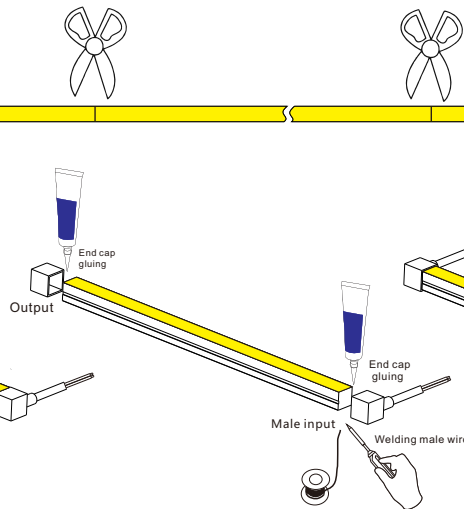


Figure 2

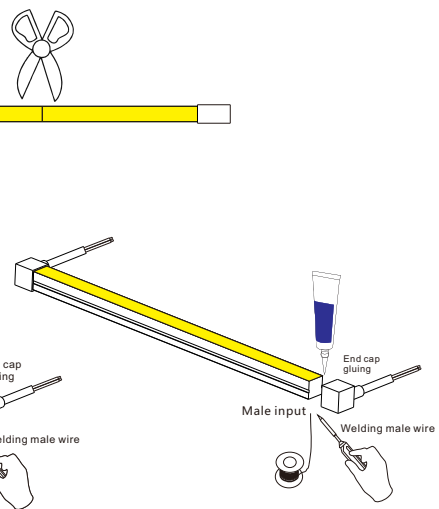
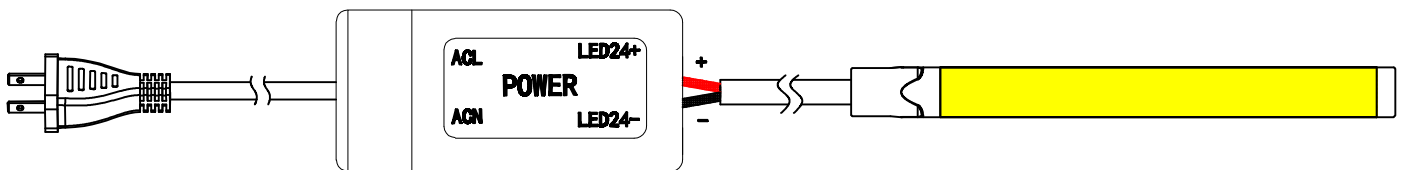


Figure 3






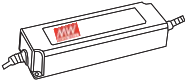

Connection diagram



matters needing attention

- Please use DC24V isolation power supply according to the actual LED light strip, and the ripple of the constant voltage source is less than 5%. The LED light bar can not be used to use the resistance to lower voltage pressure, non -isolation and other types of power supply.
- In practical application, the power supply should reserve 20% margin (it is recommended to use only 80% power) to ensure sufficient voltage to drive products.
- Please operate carefully. When the power is connected, do not touch the AC power terminal to prevent electric shock.
- Pay attention to the positive and negative poles of the power line. Do not connect them incorrectly. Check whether the voltage of the power supply is consistent with that of the product to avoid product damage.
- Please avoid scratching, twisting and irregular bending of the product during installation, otherwise it may cause irreparable damage to the product.
- In order to ensure the service life and reliability of the led neon flex, please do not bend in the arc with a radius of less than 80 mm. Too small bending radius will damage the product itself.
- If the actual application length exceeds the specified length, it will lead to overload, heating, uneven brightness and other phenomena.
- In order to protect your eyes from injury, try to avoid staring at the luminous surface of the led neon flex for a long time.
- Non professional personnel are forbidden to install, disassemble and repair the product.
- It is strictly prohibited to use any acidic or alkaline adhesive to fix the product (including but not limited to glass adhesive, etc.).
- The use scenarios of different I P grades of products are different, and IP67 is not suitable for immersion environment.
- Due to structural differences of products with different sizes and specifications under the same color temperature value, the final color of the product is slightly deviated, which shall be confirmed before use.
- Please use professional cutting tools when cutting.

Product Accessories

| Name | Describe | Picture | Product item No | Net weight (g) | Product size (mm) | Remarks |
|-------------------------|----------------------------------|---|-----------------|----------------|-------------------|-------------|
| Alum LED Profile | Pre installation slot |  | 40301-0274-00 | 50g | L1000xW9.6xH9.7 | Aluminum |
| Alum LED Profile | Pre installation slot |  | 40301-0266-00 | 1.5g | L30xW9.6xH9.7 | Aluminum |
| Straight outlet end cap | Silicone front outlet end cap |  | 40401-0286-00 | 0.5g | / | Silicone |
| Seal the end cap | Silicone sealing end cap |  | 40401-0287-00 | 0.5g | / | Silicone |
| Filling glue | 300h mono molecular silica gel |  | 70101-0009-00 | 125g | / | Liquid glue |
| Power supply | 240W waterproof power supply |  | 11401-0105-00 | 1.15Kg | L228xW68xH38 | / |
| Power supply | 350W Non-waterproof power supply |  | 11401-0040-00 | 0.34Kg | L129 xW97 x H30 | / |

Product packaging

· Standard packaging

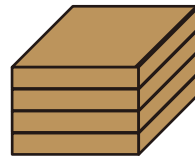
1. For single carton packaging, the line label is pasted 80mm away from the end of the line, the information label is pasted on the product, and the product information label and box number label are pasted on the side of the carton, QC inspection stamp.



Voltage & input line identification



Product information label



2. For wooden case packaging, the line label is pasted 80mm away from the line end, the information label is pasted on the product, and the product information label and box number label are pasted on the side of the carton, QC inspection stamp.



Voltage & input line identification



Product information label



| Name | Size | Quantity / box | Quantity / box | Net weight of single product (kg) | Net weight of each box (kg) | Gross weight (kg) | Outer box size (mm) |
|-------------|---------------------|----------------|----------------|-----------------------------------|-----------------------------|-------------------|---------------------|
| Carton | L5010*8*8mm | / | 20 | 0.4 | 8 | 9.2 | 320*320*220 |
| Wooden case | Customized to order | / | / | 0.4 | / | / | / |

Reliability testing

| Test item | Test requirement | Test standard | Test method or condition |
|--------------------------------|---|--------------------|--|
| Mechanical reliability test | Distortion test | Internal standards | Twist clockwise for 5 turns and then relax. Repeat for 100 times |
| | Falling test | Internal standards | 100 times of wrestling |
| Environmental reliability test | High temperature storage | GB/T 2423.2 | 60°C, 168 hours |
| | Low temperature storage | GB/T 2423.1 | -30°C, 168 hours |
| | High temperature and humidity operation | GB/T 2423.3 | 60°C, 85%RH |
| | Salt spray Test | GB/T 2423.17 | 5% salt solution concentration, 24h |
| | Dust and water proof test | GB-7000.1 | IP67 |
| | Normal temperature aging | Internal standards | 25°C, 6000 hours |
| | Switching impulse | Internal standards | 10s on, 10s off, 10000 times |