

# Neon Flex Specification

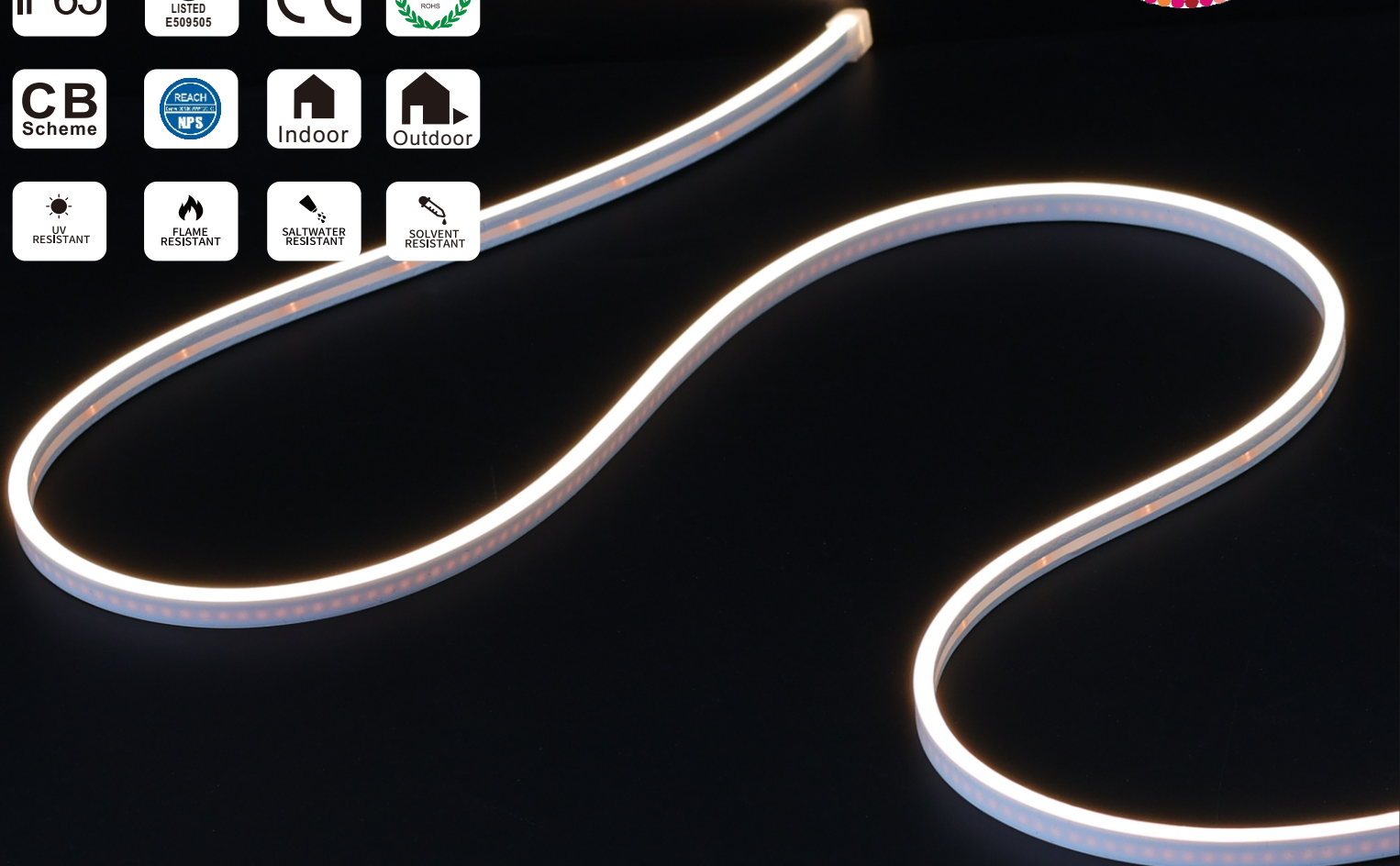
N003240UC1LZ(3X6)Side View



IP65



CB  
Scheme



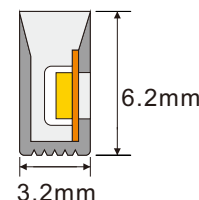
## Product Parameter

- 3x6 single-sided side viewing 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;



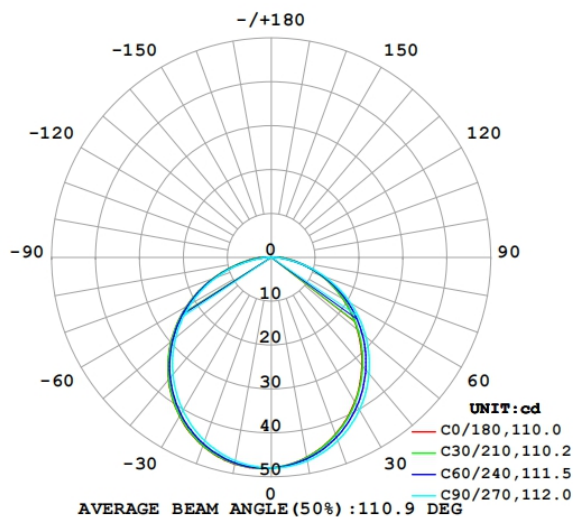
## Photoelectric parameters

PN	Color	CCT	LED Qty/M	Voltage	Power	Cutting Length	CRI	Brightness (lm/m)	Standard Length	Max Length
N003240UC1LZ Side view (N0306)	W	2500±250K	SMD1515 240pcs/m	DC24V	7W/m	4.17mm	≥90	105lm	5010 ±15mm	5m
		3500±300K						112lm		
		4600±450K						115lm		

### Remarks:

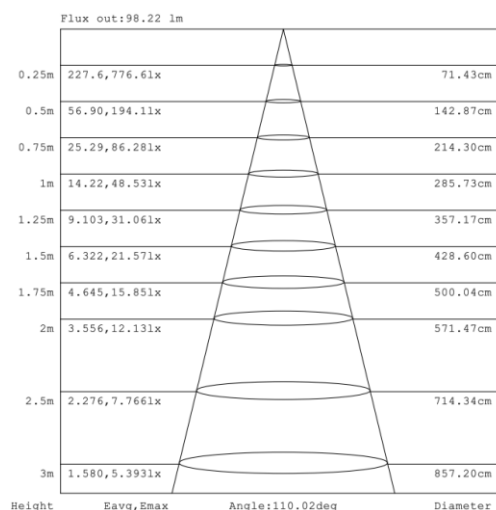
1. The above parameters are tested based on 1M standard products;
2. The luminous flux is allowed to have an error range of ±10%;
3. The above parameters are typical values;
4. When this neon led is longer than 5 meters to 10 meters, it needs power from both ends;
5. Subject to change without prior notice.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

## Product light distribution curve



Light distribution curve

Note: the above data is based on monochrome 3000K color temperature



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

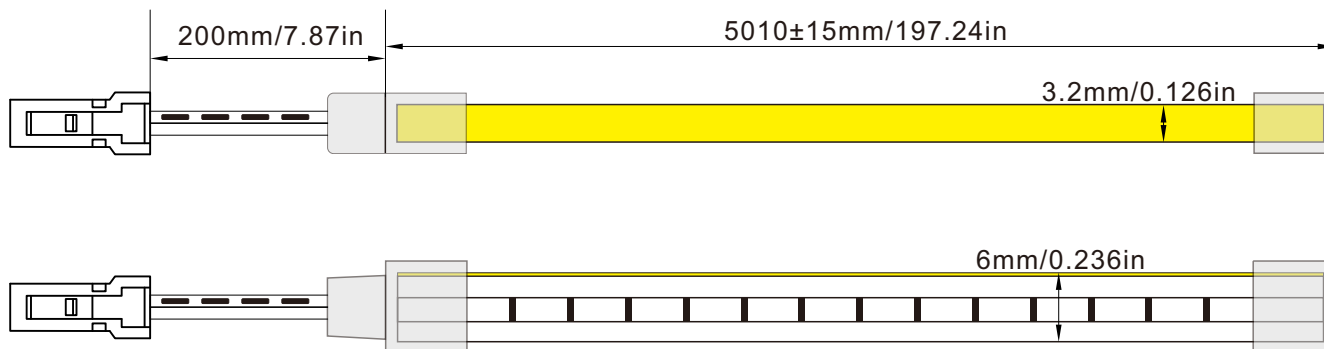
Effective average illumination

## Mechanical parameters

### Silicone end cap - Straight outlet

The end cover is sealed with adhesive bonding for waterproofing

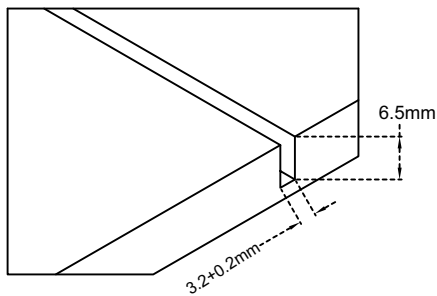
Unit: mm/in



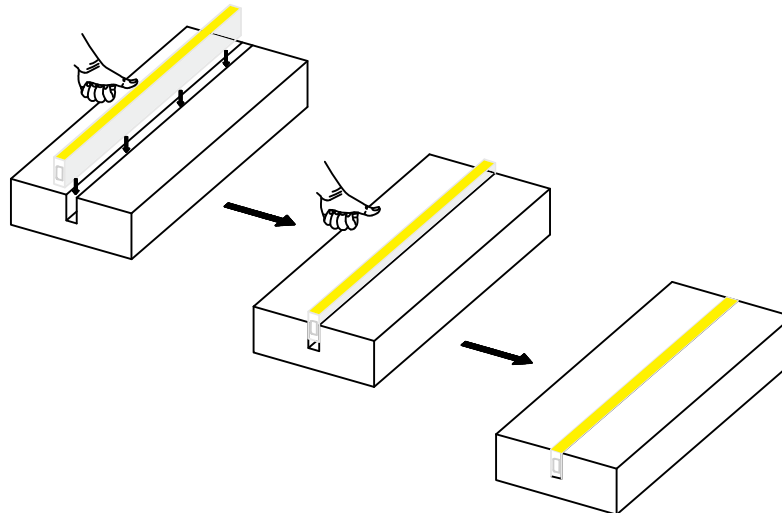
Note: Length tolerance applies. Actual product dimensions may vary.

## 0306 Installation diagram

1. First, identify the area where the light strip will be installed and use tools to create a groove, as shown in Figure 1.

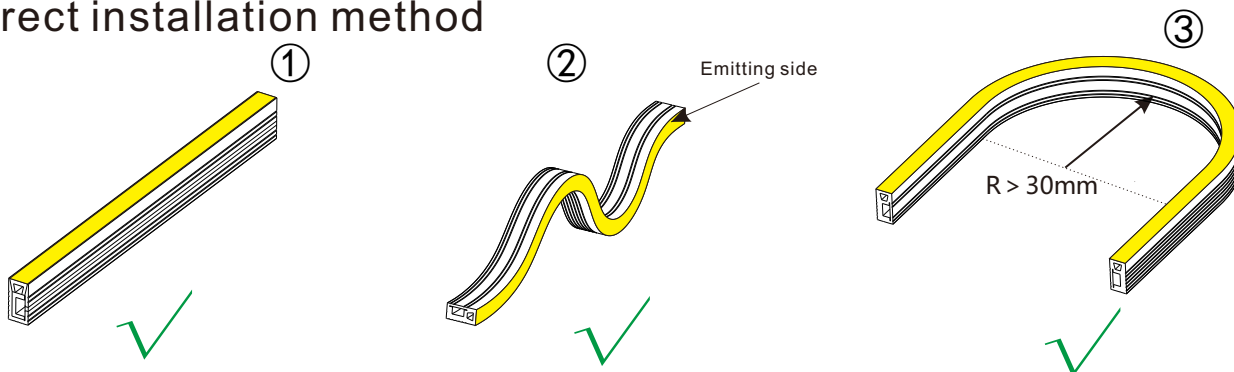


2. Install the light strip into the pre-cut slot. The installation is completed, as shown in Figure 2.

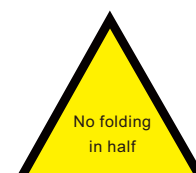
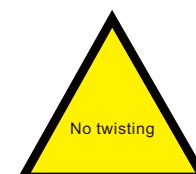
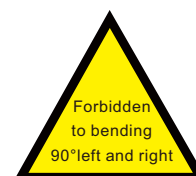
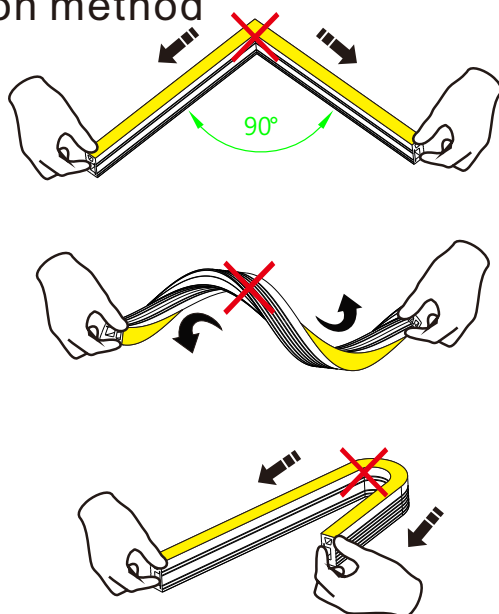


Precautions: Before installation, ensure the position, groove size, and other installation conditions are correct. Avoid repeated installation and removal, as the PCB board can be easily damaged.

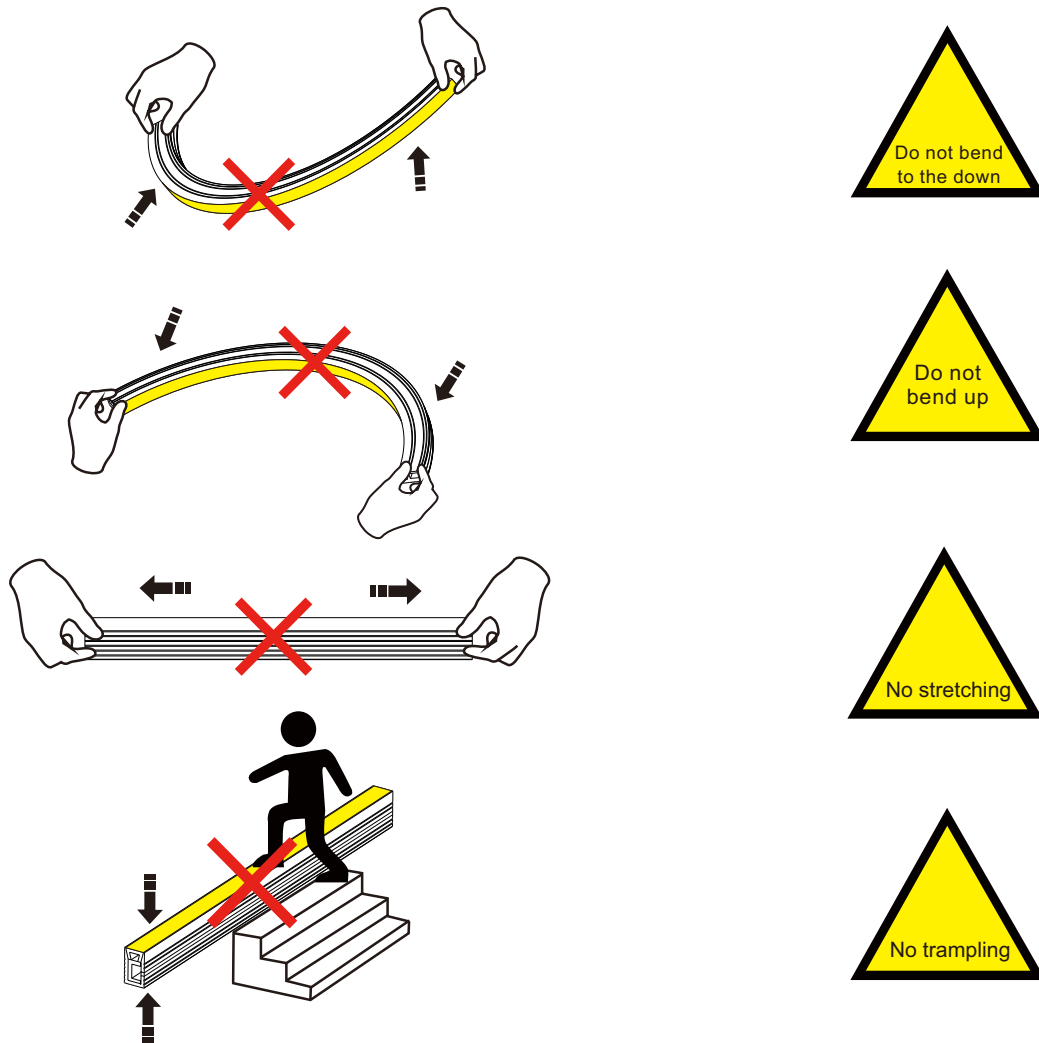
## Correct installation method



## Error installation method



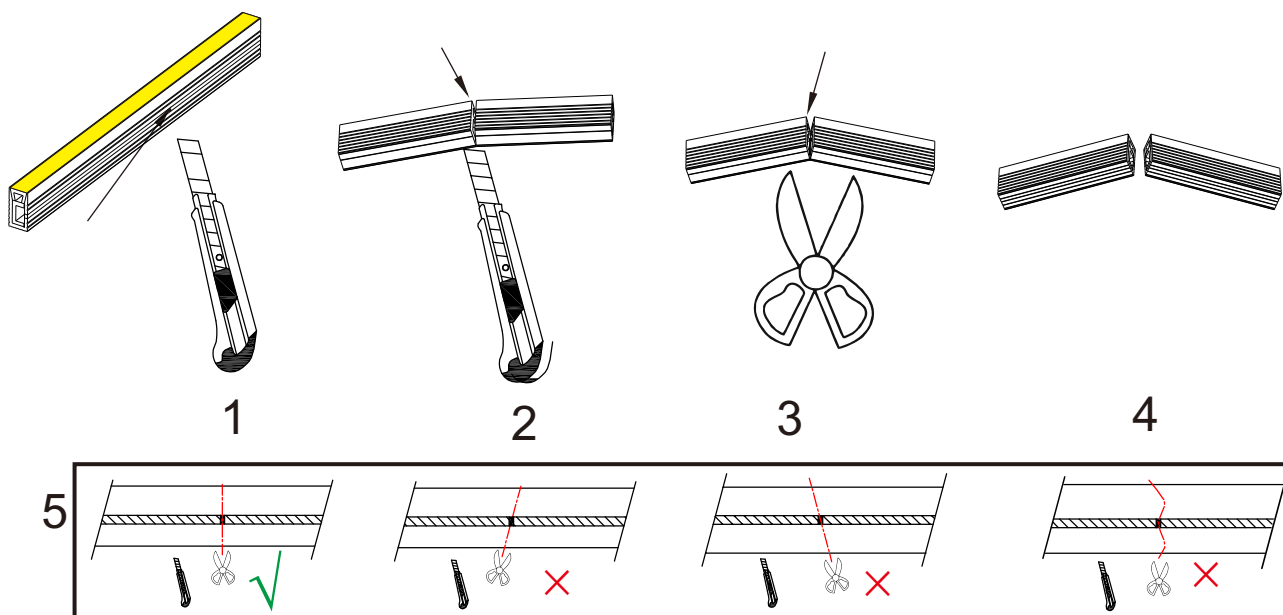




### Cutting and the waterproof treatment of both ends

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

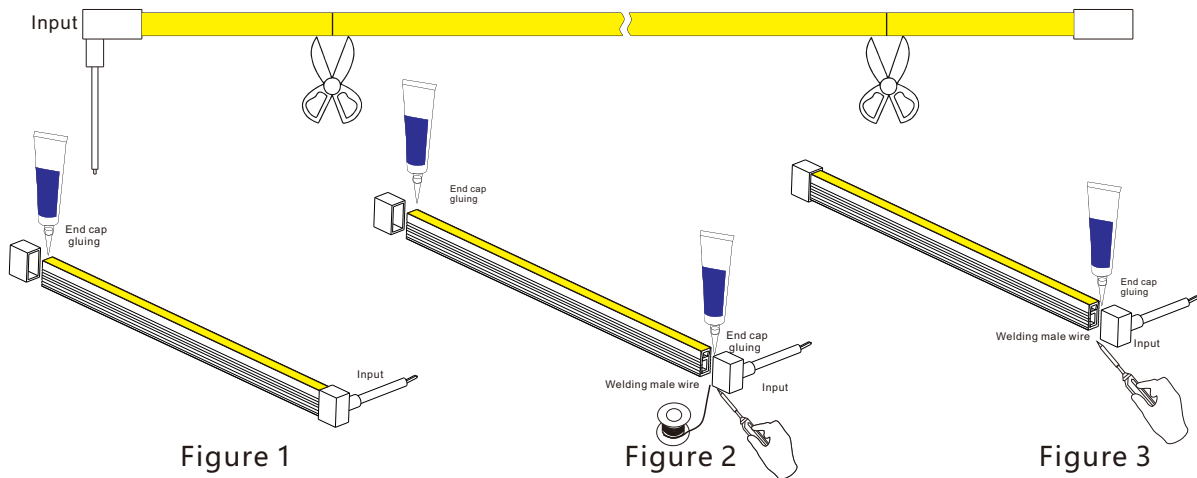
If the customer has to cut and assemble on site, we can provide some end caps with holes and end caps without holes (all sections can be used). However, please note that in this case, the front and rear ends must be glued for waterproof treatment.



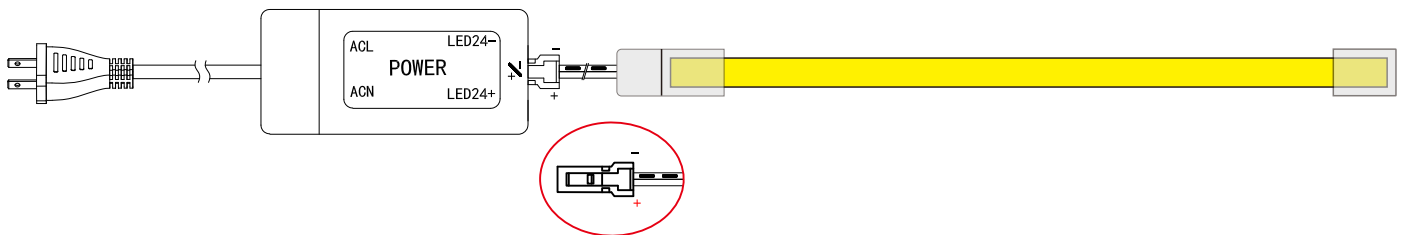
### Cutting precautions

## 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).





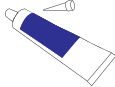


## Connection diagram



## 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 IP 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
Straight outlet end cap	Silicone front outlet end cap		40401-0361-00	0.3g	L14.5xW7.5xH5	Silicone
Seal the end cap	Silicone sealing end cap		40401-0362-00	0.2g	L8xW7.5xH5	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.



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.



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*3*6mm	5m*8	40m	0.43	3.4	3.9	320*320*110
Wooden case	Customized to order	/	/	0.43/5m	/	/	/

## 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