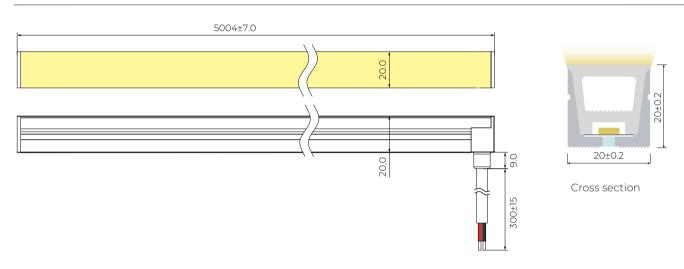


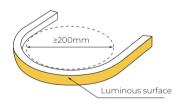
Shenzhen GRILIGHT Technology Co.,Ltd



- It is made of Dow Chemical SILASTIC™ ET-7021 silicone rubber, which provides high transparency and high strength;
- Environmental protection grade silicone material, integrated extrusion molding process;
- Unique optical light distribution structure design, uniform lighting surface and no shadow;
- IP67 protection level, salt solution resistance, acids & alkalis and UV resistance;
- Excellent toughness, simple and stylish appearance, delicate and unique;
- 3-year warranty for pixel models, 5-year warranty for others, long-life LED≥
  50000 hrs

### Dimension structure (Unit: mm)





Min bending diameter

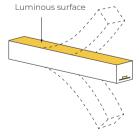
### Electrical Parameter

Voltage	LED PIN Temperature	Storage Temperature	Ambient Temperature
DC24V	Max. 65°C	-25°C ~ 60°C	Min25°C
			Max(Table below)

### Specification

Power	Efficacy	Max Ambient
( w/m )	(Im/w)@4000K	Temperature
10	52.9	45°C

Due to the tolerance of the production and electrical components, output value and electrical power can very up to 10%

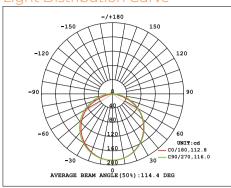


Bend vertical only

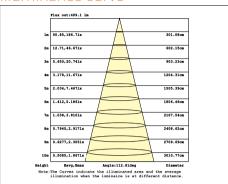
### Length Standard

	Final Ler	ngth ( mm )	Tolerance
Length Range (M)	Integral end cap	Silicone end cap	(mm)
0 <neon strip(l)≤5<="" td=""><td>L+4</td><td>L+3</td><td>±7</td></neon>	L+4	L+3	±7
5 <neon strip(l)≤10<="" td=""><td>L+4</td><td>L+3</td><td>±10</td></neon>	L+4	L+3	±10
10 <neon strip(l)≤15<="" td=""><td>L+4</td><td>L+3</td><td>±13</td></neon>	L+4	L+3	±13
15 <neon strip(l)≤20<="" td=""><td>L+4</td><td>L+3</td><td>±16</td></neon>	L+4	L+3	±16

Light Distribution Curve



### Illuminance curve



Note: The above date is based on 24V ,10W/M, single colour with 4000k colour temperature. If you need IES files for other types. Please contact our sales department.

### Parameter Table





















- The maximum series length refers to the maximum length of the light strip with single-end power supply in series under the standard 30CM cable.
- The given color temperature is the temperature of finished product.
- The given data are typical values due to the tolerances of the production process and the electrical components, values for light output and electrical power can vary up to 10%.

#### Single color

CCT(K)	RA	Voltage	Power(W)	Lumen (LM/M)	Efficiency (LM/W)	Unit Length (mm)	Max. Run Length (M)	CC/CV
2700±150	≥90	DC24V	10	479	47.9	50	17	CC
3000±150	≥90	DC24V	10	492	49.2	50	17	CC
3500±200	≥90	DC24V	10	501	50.1	50	17	CC
4000 +400	≥90	DC24V	10	529	52.9	50	17	CC
5000 <sup>+500</sup> -300	≥90	DC24V	10	529	52.9	50	17	CC
6500±500	≥90	DC24V	10	535	53.5	50	17	CC
Red		DC24V	10	220	22.0	50	18	CC
Green		DC24V	10	550	55.0	50	17	CC
Blue		DC24V	10	113	11.3	50	17	CC
Yellow		DC24V	10	167	16.7	50	18	CC
Orange		DC24V	10	203	20.3	50	18	CC
Pink		DC24V	10	462	46.2	50	17	CC

#### Free Cut

CCT(K)	RA	Voltage	Power(W)	Lumen (LM/M)	(LM/W)	Unit Length (mm)	Max. Run Length (M)	CC/CV
2700±150	≥90	DC24V	10	570	57.0	8.3	5	CV
3000±150	≥90	DC24V	10	580	58.0	8.3	5	CV
4000 +400	≥90	DC24V	10	580	58.0	8.3	5	CV
5000 <sup>+500</sup>	≥90	DC24V	10	590	59.0	8.3	5	CV
6500±500	≥90	DC24V	10	570	57.0	8.3	5	CV

### CCT Tunable

CCT(K)	RA	Voltage	Power(W)	Lumen (LM/M)	Efficiency (LM/W)	Unit Length (mm)	Max Run Length (M)	CC/CV
2700±150	≥90	DC24V	5	267	53.3	62.5	5	CV
6500±500	≥90	DC24V	5	278	55.5	62.5	5	CV
2700+6500	≥90	DC24V	10	540	54.0	62.5	5	CV

#### DOR

CCT(K)	RA	Voltage	Power(W)	Lumen (LM/M)	Efficiency (LM/W)	Unit Length (mm)	Max Run Length (M)	CC/CV
R		DC24V	3.3	55	16.7	83.3	5	CV
G		DC24V	3.3	209	63.2	83.3	5	CV
В		DC24V	3.3	35	10.6	83.3	5	CV
RGB		DC24V	10	295	29.5	83.3	5	CV





















- The given color temperature is the temperature of finished product.
- The given data are typical values due to the tolerances of the production process and the electrical components, values for light output and electrical power can vary up to 10%.

CCT(K)	RA	Voltage	Power(W)	Lumen (LM/M)	Efficiency (LM/W)	Unit Length (mm)	Max Run Length (M)	CC/CV
R		DC24V	3	50	16.8	83.3	5	CV
G		DC24V	3	194	64.8	83.3	5	CV
В		DC24V	3	37	12.3	83.3	5	CV
W: 2700±150	≥90	DC24V	6	319	53.1	83.3	5	CV
RGBW		DC24V	15	588	39.2	83.3	5	CV

CCT(K)	RA	Voltage	Power(W)	Lumen (LM/M)	Efficiency (LM/W)	Unit Length (mm)	Max Run Length (M)	CC/CV
R		DC24V	3	50	16.8	83.3	5	CV
G		DC24V	3	194	64.8	83.3	5	CV
В		DC24V	3	37	12.3	83.3	5	CV
W: 3000±150	≥90	DC24V	6	327	54.5	83.3	5	CV
RGBW		DC24V	15	596	39.7	83.3	5	CV

CCT(K)	RA	Voltage	Power(W)	Lumen (LM/M)	Efficiency (LM/W)	Unit Length (mm)	Max Run Length (M)	CC/CV
R		DC24V	3	50	16.8	83.3	5	CV
G		DC24V	3	194	64.8	83.3	5	CV
В		DC24V	3	37	12.3	83.3	5	CV
W: 3500±200	≥90	DC24V	6	338	56.3	83.3	5	CV
RGBW		DC24V	15	611	40.7	83.3	5	CV

CCT(K)	RA	Voltage	Power(W)	Lumen (LM/M)	Efficiency (LM/W)	Unit Length (mm)	Max Run Length (M)	CC/CV
R		DC24V	3	50	16.8	83.3	5	CV
G		DC24V	3	194	64.8	83.3	5	CV
В		DC24V	3	37	12.3	83.3	5	CV
W: 4000±300	≥90	DC24V	6	350	58.3	83.3	5	CV
RGBW		DC24V	15	617	41.1	83.3	5	CV

CCT(K)	RA	Voltage	Power(W)	Lumen (LM/M)	Efficiency (LM/W)	Unit Length (mm)	Max Run Length (M)	CC/CV
R		DC24V	3	50	16.8	83.3	5	CV
G		DC24V	3	194	64.8	83.3	5	CV
В		DC24V	3	37	12.3	83.3	5	CV
W: 5000±400	≥90	DC24V	6	351	58.5	83.3	5	CV
RGBW		DC24V	15	617	41.1	83.3	5	CV

CCT(K)	RA	Voltage	Power(W)	Lumen (LM/M)	Efficiency (LM/W)	Unit Length (mm)	Max Run Length (M)	CC/CV
R		DC24V	3	50	16.8	83.3	5	CV
G		DC24V	3	194	64.8	83.3	5	CV
В		DC24V	3	37	12.3	83.3	5	CV
W: 6500±400	≥90	DC24V	6	349	58.1	83.3	5	CV
RGBW		DC24V	15	615	41.0	83.3	5	CV



















- The maximum series length refers to the maximum length of the light strip with single-end power supply in series under the standard 30CM cable.
- The given color temperature is the temperature of finished product.
- The given data are typical values due to the tolerances of the production process and the electrical components, values for light output and electrical power can vary up to 10%.

#### Pixel RGB: DMX512

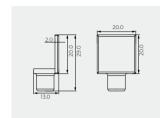
CCT(K)	Voltage	Power(W)	Lumen (LM/M)	Efficiency (LM/W)	Unit length (mm)	Max. Run Length (M)	Pixel (PCS)	IC Model
R	DC24V	5	36	7.2	125	5	8	UCS512C2L
G	DC24V	5	147	29.3	125	5	8	UCS512C2L
В	DC24V	5	25	4.9	125	5	8	UCS512C2L
RGB	DC24V	12	205	17.1	125	5	8	UCS512C2L

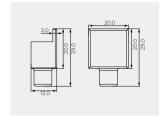
### Pixel RGBW: DMX512

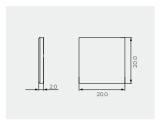
CCT(K)	RA	Voltage	Power(W)	Lumen (LM/M)	Efficiency (LM/W)	Unit length (mm)	Max. Run Length (M)	Pixel (PCS)	IC Model
R		DC24V	5	39	7.8	125	5	8	UCS512C2L
G		DC24V	5	113	22.5	125	5	8	UCS512C2L
В		DC24V	5	34	6.7	125	5	8	UCS512C2L
W:4000 +400 -200	≥80	DC24V	5	142	28.3	125	5	8	UCS512C2L
RGBW		DC24V	15	314	20.9	125	5	8	UCS512C2L

## Cable Entry ( Unit: mm )

### Integral End Cap (IP67)











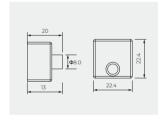


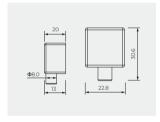
Side Cable Entry

Bottom Cable Entry

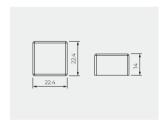
closed end cap

### Silicone end cap (IP67)

















Front Cable Entry

Side Cable Entry

Bottom Cable Entry

closed end cap

### Cable

Cable Type	Schematic Diagram	Specification	Core	Electrical Properties
	<u> </u>	OD:5.0mm / Inner core:20AWG	••	Red V+、Black V-
	=	OD:5.0mm / Inner core:20AWG	• • •	Brown V+、White W、Yellow WW
PVC Cable	=	OD:5.5mm/Inner core:20AWG	••••	Black V+、Blue B、Green G、Red R
	<b>=</b>	OD:5.5mm / Inner core:22AWG	• • • •	Black V+、White W、Blue B、 Green G、Red R
		OD:5.0MM /Inner core:20AWG/ M12 Female connecto	• •	Red V+、Black V-
Waterproof		OD:5.0MM /Inner core:20AWG/ M12 Female connecto	• • •	Brown V+、White W、Yellow WW
Connector with		OD:5.5MM /Inner core:20AWG/ M12 Female connecto	••••	Black V+、Blue B、Green G、Red R
PVC Cable		OD:5.5MM /Inner core:22AWG/ M12 Female connecto	• • • • •	Black V+、White W、Blue B、 Green G、Red R
	15 40	OD:5.5MM/Inner core:22AWG/ M12 Female connecto	•0••	DMX512: Red V+, Green PI/PO, Blue AI/AO, White BI/BO, Black V-0
		OD: 6.0mm /Inner core: 20AWG	• •	Red V+、Black V-
		OD: 6.0mm /Inner core: 20AWG	•0•	Black V+、White W、Yellow WW
Silicone Cable		OD: 6.0mm/Inner core: 20AWG	•••	Black V+、Blue B、Green G、Red R
		OD: 6.4mm/Inner core: Red/Black20AWG Green/Blue/White22AWG	• • • •	Black V+、White W、Blue B、 Green G、Red R
		OD: 6.0mm/Inner core: 20AWG M12Male / Female connecto	••	Red V+、Black V-
		OD: 6.0mm/Inner core: 20AWG M12Male / Female connecto	• • •	Black V+、White W、Yellow WW
Waterproof		OD: 6.0mm/Inner core: 20AWG M12Male / Female connecto	•••	Black V+、Blue B、Green G、Red R
Connector with Silicone Cable		OD: 6.4mm/Inner core: Red/Black20AWG Green/Blue/White22AWG M12Male/Female connecto	• • • •	Black V+、White W、Blue B、 Green G、Red R
	15 145	OD: 6.4mm/Inner core: Red/Black20AWG Green/Blue/White22AWG M12Male/Female connecto	•0••	DMX512: Black V-\White BI/BO\Blue AI/AO\Green PI/PO\Red V+

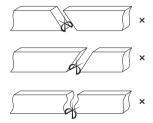
### **Cutting Mark**



Remark: The bottom of the led strip has transparent window, the black marker is the cutting position



Use professional scissors to cut vertically at the cutting mark



Please don't be feel free to cut and cut into an oblique angle or cambered section.

### Accessories (Unit: mm)

#### Aluminium Profile







### Aluminium Mounting clips

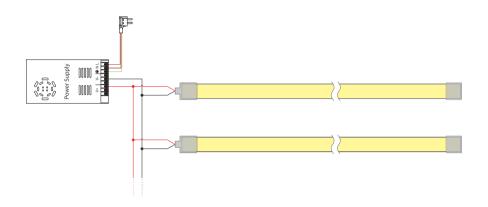




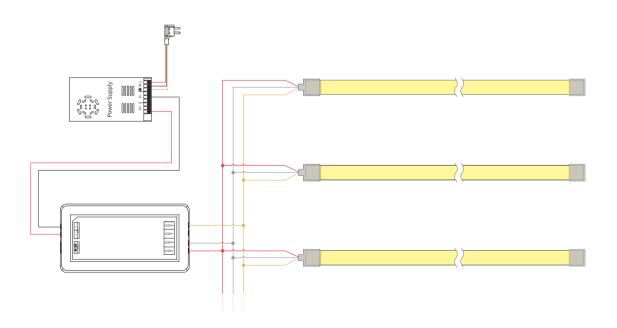


Dimension: 20x23x17.2 Accessories: Screw M3x16 (SUS304)

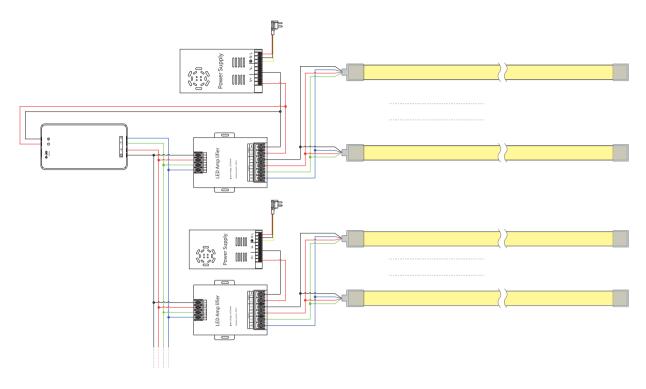
## Single Color Connection Diagram



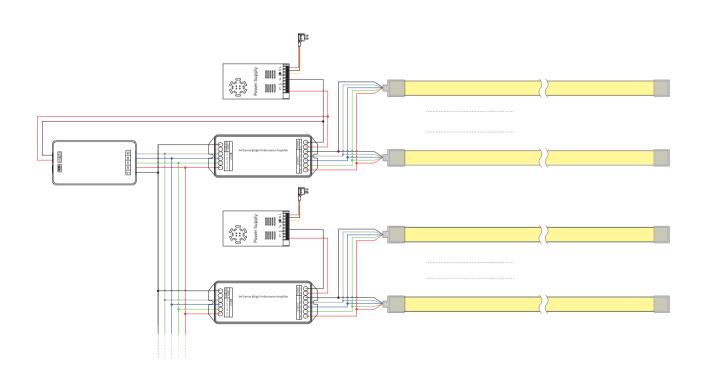
### Tunable white Connection Diagram



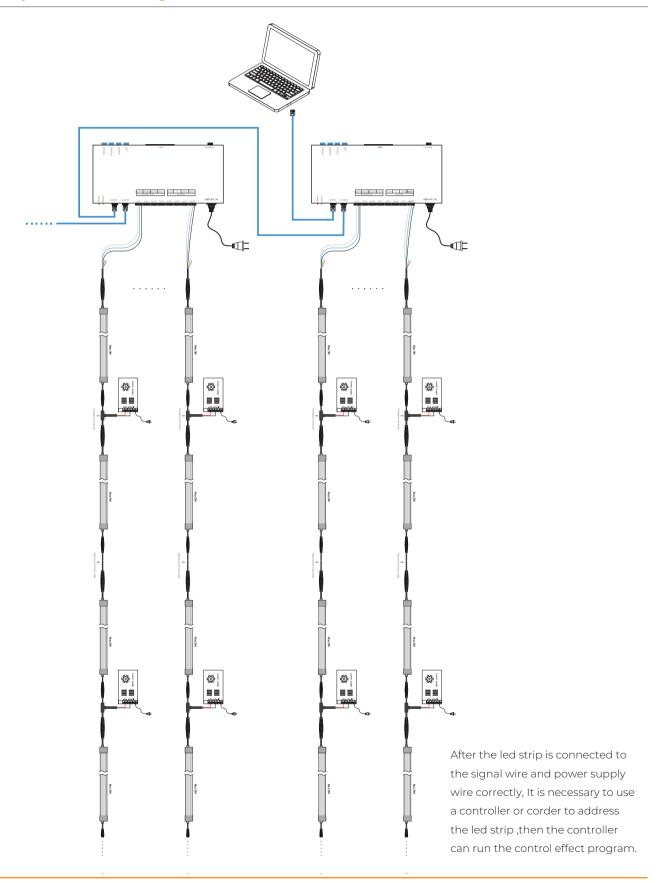
## RGB Connection Diagram



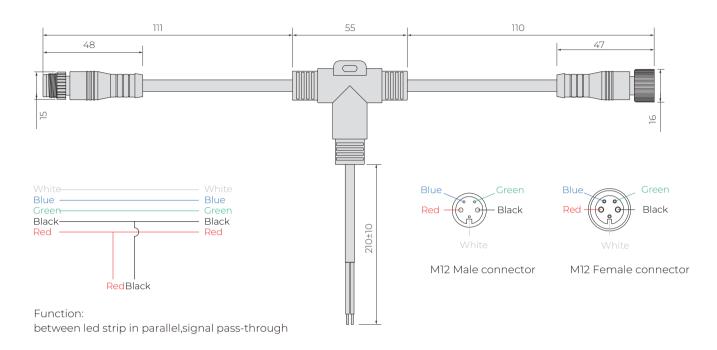
RGBW Connection Diagram



### Control system connection diagram-DMX512



### DMX512 signal type strip light with accessory cable (Unit: mm)

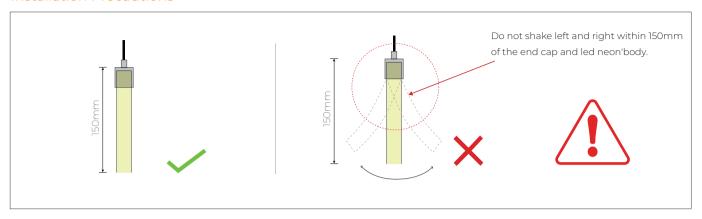


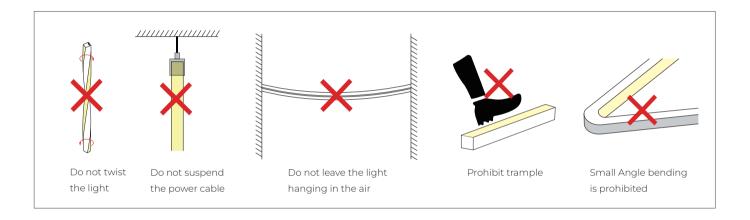
T-type 3 channel connector



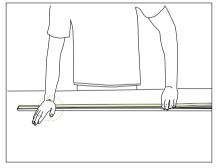
The positive terminal of the power supply is disconnected (avoid two power supplies connected in parallel).

### **Installation Precautions**

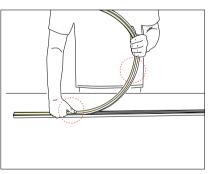




### Put it in the profile



- Please press the led strip with your palm to slowly insert the led strip into the groove, and gently straighten the led strip above the groove with your right hand.
- -Try to keep the led strip in a flat state during the installation process.

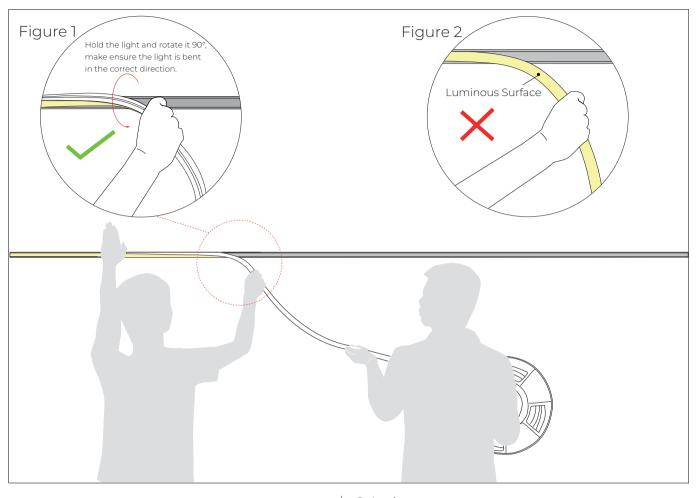




- Do not press the led strip with a single finger, it is easy to damage the internal
- parts of the led strip.
  The bent arc of the led strip should not be too large during installation.

### Installation Precautions -- Side Mounted

( If the length of the light is more than 2 meters, two persons must work together to install it.)



### 1.Installer:

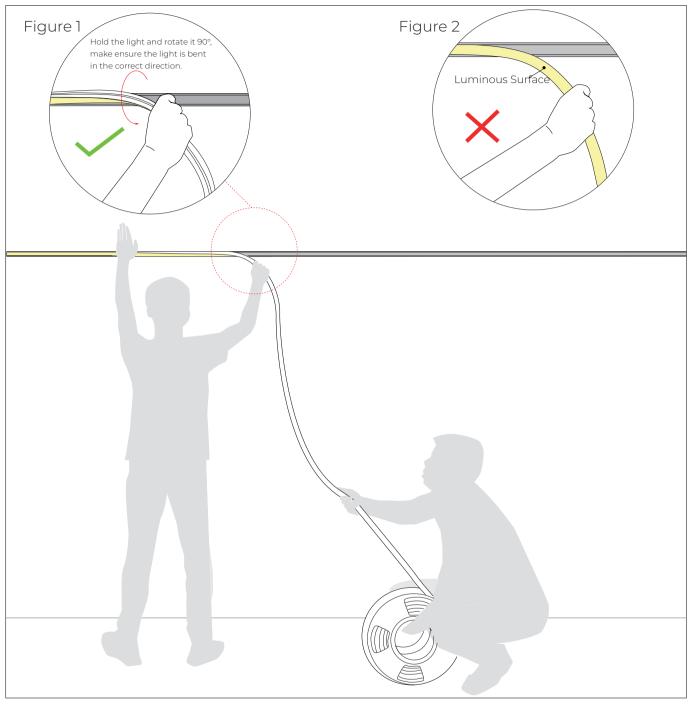
- -Press the light with the palm of the left hand to slowly load it into the slot. Straighten the light with right hand, hold it and rotate it 90  $\,^{\circ}$  to droop it in the direction of your hand. See Figure 1.
- -Do not bend the luminous surface to the side. See Figure 2.

### 2.Assistant:

-Cooperate with the installer to lift the reel of the light, and then slowly deliver the light to installer. Do not pull or twist the light during the installation.

### Installation Precautions -- Side Mounted

( If the length of the light is more than 5 meters, two persons must work together to install it.)



### 1.Installer:

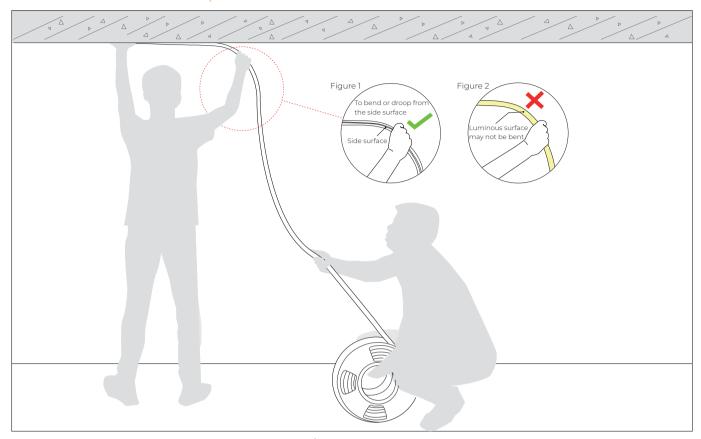
- -Press the light with the palm of the left hand to slowly load it into the slot. Straighten the light with right hand, hold it and rotate it 90  $\,^\circ$  to droop it in the direction of your hand. See Figure 1.
- -Do not bend the luminous surface to the side. See Figure 2.

### 2. Assistant:

-Cooperate with the installer to slowly deliver the light to installer. Do not pull or twist the light during the installation.

### Installation Precautions -- Top Mounted

( If the length of the light is more than 2 meters, two persons must work together to install it.)



### 1.Installer:

- Press the light with the palm of the left hand to slowly load it into the slot. Straighten the light with your right hand so that it droop naturally. See Figure 1.
- -Luminous surface may not be bent. See Figure 2.

### 2.Assistant:

- Cooperate with the installer to slowly deliver the light to installer. Do not pull or twist the light during the installation.

#### Notes

The selection of the cable specification at the output end of the power supply,

it depends on the total current of the load and the length of the cable. It is recommended to select according to the following table:

Current	Specifications of the cable										
of the light	L=1M	L=2M	L=4M	L=6M	L=8M	L=10M	L=12M	L=14M	L=16M		
1A	AWG26	AWG23	AWG21	AWG18	AWG18	AWG17	AWG16	AWG15	AWG15		
2A	AWG23	AWG21	AWG18	AWG16	AWG15	AWG14	AWG13	AWG12	AWG12		
3A	AWG22	AWG18	AWG16	AWG14	AWG13	AWG12	AWG11	AWG11	AWG10		
4A	AWG21	AWG18	AWG15	AWG13	AWG12	AWG11	AWG10	AWG9	AWG9		
5A	AWG20	AWG17	AWG14	AWG12	AWG11	AWG10	AWG9	AWG9	AWG8		
	AWG18	AWG16	AWG13	AWG11	AWG10	AWG9	AWG8	AWG8	AWG7		
7A	AWG18	AWG15	AWG12	AWG11	AWG9	AWG8	AWG8	AWG7	AWG6		
	AWG17	AWG15	AWG12	AWG10	AWG9	AWG8	AWG7	AWG7	AWG6		
9A	AWG17	AWG14	AWG11	AWG10	AWG8	AWG7	AWG7	AWG6	AWG5		
10A	AWG16	AWG14	AWG11	AWG9	AWG8	AWG7	AWG6	AWG6	AWG5		

- \*The unused light should be sealed with the packaging bag to avoid prolonged exposure.
- \*\*Please use DC24V isolated constant voltage power supply with ripple voltage less than 5%. Using other types of power supply may damage the light or cause other safety risks.
- \*In practical application, 20% allowance should be reserved for power supply to ensure the stability of power supply.
- XIt is recommended that professionals connect the power supply. Do not connect the power supply with live power to avoid electric shock.
- \*\*Please confirm whether the voltage of the power supply is consistent with the voltage of the light; Pay attention to the positive and negative poles of the power cord, do not
- connect wrong, so as not to cause product damage;
- \*\* When multiple power supplies are used, ensure that the positive poles of the power supply are not connected in parallel. Otherwise, the power supply system may be unstable or
  - damaged after long-term operation.
- \* If the actual application length exceeds the specified length, it will lead to overload, heating and uneven brightness of the light.
- X During installation, please do not scratch, twist, or bend the light irregularly. Otherwise, the light may be damaged beyond repair.
- imes To ensure the life and reliability of the light, please do not over bend the light, which will damage the product itself.
- × Non-professionals are forbidden to install, disassemble and maintain the product.
- × Do not use any acid or alkaline adhesive to fix the light (including but not limited to glass glue, etc.)
- \*IP67 products are not suitable for long-term immersion in water; IP68 products are only customized by the factory. After cutting and processing by users themselves, there is a
  - risk that IP68 protection level cannot be reached
- \*\* Because of the difference in structure, even if the same color temperature value, different sizes of light will look slightly different colors. Please confirm it before use.

Tests showed that methanol and benzenes will have yellowing effects on silicone.

In the newly decorated interior environment, epoxy floor paint, wall paint, wallpaper adhesive, various decoration materials or new furniture, they are likely to release of methanol and benzenes.

It is recommended to remove methanol and benzenes first, or ventilate for a period of time in the newly decorated interior environment before install the silicone neon light, to avoid affecting the silicone body.

# **BE A TRUSTED LED STRIP MANUFACTURER**

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