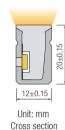


- It is made of Dow Chemical SILASTIC™ ET-7021 silicone rubber, which provides high transparency and high strength.
- Environmental protection grade silicone material, integrated extrusion molding process.
- Unique optical light distribution structure design, uniform lighting surface and no shadow.
- IP67 protection level, salt solution resistance, acids & alkalis, corrosive gases, fire and UV
- Excellent toughness, simple and stylish appearance, delicate and unique
- 5 years warranty, working life ≥50000 hours;

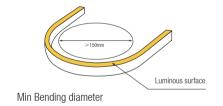
### **Dimension structure**





### **Electrical Parameter**

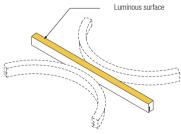
Voltage	LED PIN Temperature	Storage Temperature	Ambient Temperature	RA
DC24V	Max. 65°C	-25 °C ~ 60 °C	Min25°C	>90
			Max(Table below)	



### Specification

Power(w/m)	Efficacy(lm/w)@4000K	Max Ambient Temperature
5 w/m	34.0lm/W	55°C
10 w/m	33.6lm/W	45°C
15 w/m	31.3lm/W	35°C

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



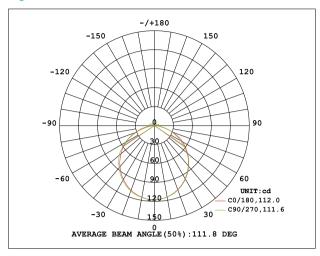
Bend horizontal only

# Length Standard

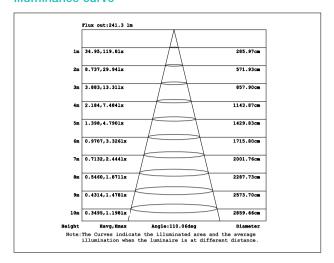
Length Range (M)	Integral end cap	Solder free end cap	Silicone end cap	Tolerance
0M <neon strip(l)≤5m<="" td=""><td>L+6</td><td>L+16</td><td>L+8</td><td>±7</td></neon>	L+6	L+16	L+8	±7
5M <neon strip(l)≤10m<="" td=""><td>L+6</td><td>L+16</td><td>L+8</td><td>±10</td></neon>	L+6	L+16	L+8	±10
10M <neon strip(l)≤15m<="" td=""><td>L+6</td><td>L+16</td><td>L+8</td><td>±13</td></neon>	L+6	L+16	L+8	±13
15M <neon strip(l)≤20m<="" td=""><td>L+6</td><td>L+16</td><td>L+8</td><td>±16</td></neon>	L+6	L+16	L+8	±16
20M <neon strip(l)≤25m<="" td=""><td>L+6</td><td>L+16</td><td>L+8</td><td>±19</td></neon>	L+6	L+16	L+8	±19
25M <neon strip(l)≤30m<="" td=""><td>L+6</td><td>L+16</td><td>L+8</td><td>±22</td></neon>	L+6	L+16	L+8	±22



# **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.













- The maximum series length refers to the maximum single end power supply length of the constant current strip under the condition of standard 30cm wire.
- 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%.
- All products can be dimmed; the dimmer's voltage should conform to the rated voltage of the led light. The output frequency of the dimmer of the constant-current led light should be less than 2K Hz, and the output PWM can control the led light.

# Single color (Lm/m)

CCT(K)	RA	Voltage	Power(W)	Lumen (LM/M)	Efficiency (LM/W)	Unit Length (mm)	Max. Run Length (M)	CC/CV
2100K±150	≥90	DC24V	10	260	26	50	17(CC)	CC/CV
2400K±150	≥90	DC24V	10	295	29.5	50	17(CC)	CC/CV
2700K±150	≥90	DC24V	10	305	30.5	50	17(CC)	CC/CV
3000K±150	≥90	DC24V	10	310	31	50	17(CC)	CC/CV
3500K±200	≥90	DC24V	10	345	34.5	50	17(CC)	CC/CV
4000K <sup>+400</sup> <sub>-200</sub>	≥90	DC24V	10	340	34	50	17(CC)	CC/CV
5000K <sup>+500</sup> <sub>-300</sub>	≥90	DC24V	10	330	33	50	17(CC)	CC/CV
6500K <sup>+200</sup> <sub>-600</sub>	≥90	DC24V	10	330	33	50	17(CC)	CC/CV
Red		DC24V	10	155	15.5	50	18(CC)	CC/CV
Green		DC24V	10	373	37.3	50	17(CC)	CC/CV
Blue		DC24V	10	70	7	50	17(CC)	CC/CV
Yellow		DC24V	10	155	15.5	50	18(CC)	CC/CV
Pink		DC24V	10	150	15	50	17(CC)	CC/CV

Note: -The running length is base on Constant Current 24Vdc LED Strip.

-When use the solder free end cap or waterproof connector, the max run length of 10W/M is respectively 10M.

#### Free Cut

CCT(K)	RA	Voltage	Power(W)	Lumen (LM/M)	Efficiency (LM/W)	Unit Length (mm)	Max. Run Length (M)	CC/CV
2700K±150	≥90	DC24V	10	300	30.0	8.33	5	CV
3000K±150	≥90	DC24V	10	310	31.0	8.33	5	CV
4000K±300	≥90	DC24V	10	330	33.0	8.33	5	CV
5000K±400	≥90	DC24V	10	320	32.0	8.33	5	CV
6500K±400	≥90	DC24V	10	310	31.0	8.33	5	CV

### CCT Tunable (Lm/m)

CCT(K)	RA	Voltage	Power(W)	Lumen (LM/M)	Efficiency (LM/W)	Unit Length (mm)	Max. Run Length (M)	CC/CV
WW	≥90	DC24V	5	172.5	34.5	50	5	CV
W	≥90	DC24V	5	185	37	50	5	CV
W+WW	≥90	DC24V	10	354	35.4	50	5	CV















- The maximum series length refers to the maximum single end power supply length of the constant current strip under the condition of standard 30cm wire .
- 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%.
- All products can be dimmed; the dimmer's voltage should conform to the rated voltage of the led light.
   The output frequency of the dimmer of the constant-current led light should be less than 2K Hz, and the output PWM can control the led light.

## RGB (Lm/m)

#### CC 13m

	CCT(K)	RA	Voltage	Power(W)	Lumen (LM/M)	Efficiency (LM/W)	Unit Length (mm)	Max. Run Length (M)	CC/CV
	R		DC24V	3.7	33	9.0	125	13	CC
_	G		DC24V	3.7	128	34.7	125	13	CC
	В		DC24V	3.7	19	5.1	125	13	CC
_	RGB		DC24V	11	171	15.5	125	13	CC

#### CV 5m

	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	36.3	11	62.5	5	CV
	G		DC24V	3.3	107.3	32.5	62.5	5	CV
	В		DC24V	3.3	23.1	7	62.5	5	CV
-	RGB		DC24V	10	160.0	16	62.5	5	CV

# RGBW (LM/M)

CCT(K)	RA	Voltage	Power(W)	Lumen (LM/M)	Efficiency (LM/W)	Unit Length (mm)	Max. Run Length (M)	CC/CV
R		DC24V	2.5	22.5	9	62.5	5	CV
G		DC24V	2.5	80	32	62.5	5	CV
В		DC24V	2.5	20	8	62.5	5	CV
W(2200-2600K)	≥80	DC24V	2.5	86.25	34.5	62.5	5	CV
RGBW		DC24V	10	200	20	62.5	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	2.5	22.5	9	62.5	5	CV
G		DC24V	2.5	80	32	62.5	5	CV
В		DC24V	2.5	20	8	62.5	5	CV
W(2400-3000K)	≥80	DC24V	2.5	93.75	37.5	62.5	5	CV
RGBW		DC24V	10	220	22	62.5	5	CV

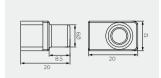
CCT(K)	RA	Voltage	Power(W)	Lumen (LM/M)	Efficiency (LM/W)	Unit Length (mm)	Max. Run Length (M)	CC/CV
R		DC24V	2.5	22.5	9	62.5	5	CV
G		DC24V	2.5	80	32	62.5	5	CV
В		DC24V	2.5	20	8	62.5	5	CV
W(3400-4000K)	≥80	DC24V	2.5	101.25	40.5	62.5	5	CV
RGBW		DC24V	10	220	22	62.5	5	CV

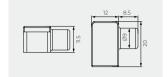
CCT(K)	RA	Voltage	Power(W)	Lumen (LM/M)	Efficiency (LM/W)	Unit Length (mm)	Max. Run Length (M)	CC/CV
R		DC24V	2.5	22.5	9	62.5	5	CV
G		DC24V	2.5	80	32	62.5	5	CV
В		DC24V	2.5	20	8	62.5	5	CV
W(5000-5600K)	≥80	DC24V	2.5	92.5	37	62.5	5	CV
RGBW		DC24V	10	210	21	62.5	5	CV



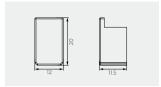
## Cable Entry

### Integral end cap (IP67)















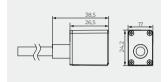
Front Cable Entry

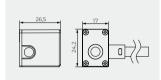
Side Cable Entry

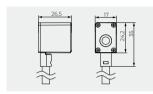
Bottom Cable Entry

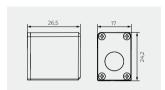
Closed End cap

Solder free end cap (IP67)















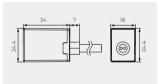


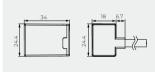
Front Cable Entry

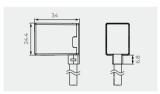
Side Cable Entry

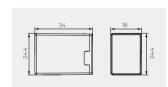
Bottom Cable Entry Closed End cap

### Solder Free End Cap without screws (IP67)















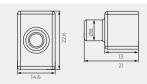


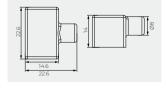
Front Cable Entry

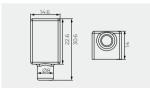
Side Cable Entry

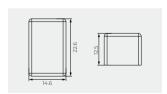
Closed End cap

### 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		
PVC Cable	\ <u>-</u>	OD: 5.0mm / Inner core: 20AWG	••	Red V+、Black V-		
	<b>=</b>	OD: 5.0mm / Inner core: 20AWG	•0•	Brown V+、White W、Yellow WW		
	<b>=</b>	OD: 5.5mm / Inner core: 20AWG	•••	Black V+, Blue B, Green G, Red R		
	≡ ∫	OD: 5.5mm / Inner core: 22AWG	• • • •	Black V+、White W、Blue B、Green G、Red R		
Waterproof Connector with PVC Cable		OD: 5.0mm / Inner core: 20AWG M12Male / Female connecto	••	Red V+√Black V-		
		OD: 5.0mm /Inner core: 20AWG M12Male / Female connecto	• • •	Brown V+、White W、Yellow WW		
		OD: 5.5mm /Inner core: 20AWG M12Male / Female connecto	•••	Black V+, Blue B, Green G, Red R		
	15 40	OD: 5.5mm /Inner core: 22AWG M12Male / Female connecto	••••	Black V+, White W, Blue B, Green G, Red R		
	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	OD: 5.0mm / Inner core: 20AWG	••	Red V+、Black V-		
Silicone Cable		OD: 5.0mm / Inner core: 20AWG	• • •	Brown V+、White W、Yellow WW		
Silicone Gable	<b>(</b> )	OD: 6.0mm/Inner core: 20AWG	••••	Black V+, Blue B, Green G, Red R		
		OD: 6.0mm / Inner core: 20AWG	•0•••	Black V+, White W, Blue B, Green G, Red R		
Waterproof Connector with Silicone Cable		OD: 5.0mm /Inner core: 20AWG M12Male / Female connecto	• •	Red V+√Black V-		
		OD: 5.0mm /Inner core: 20AWG M12Male / Female connecto	• • •	Brown V+、White W、Yellow WW		
		OD: 6.0mm /Inner core: 20AWG M12Male / Female connecto	••••	Black V+, Blue B, Green G, Red R		
	15 15 45	OD: 6.0mm /Inner core: 20AWG M12Male / Female connecto	• • • •	Black V+、White W、Blue B、Green G、Red R		

# Cable's Maximum load capacity

a. Assembled end cap with single-ended power supply, its maximum load power is as follows:

Color	Maximum load current (A)	DC24V Maximum load Power (W)	DC12V Maximum load Power (W)
Single color	4.2	100	50
CCT Tunable	3.5	84	42
RGB	3	72	36
RGBW	3	72	36
Magic	3	72	36

b. When one end of the single color led neon goes out , the power exceeds the wattage listed in the table, it is recommended to use integrated or silicone end cap;



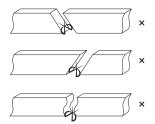
## **Cutting Mark**



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



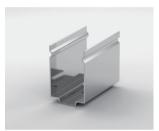
Use professional scissors to cut vertically at the cutting mark

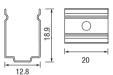


Please don't be feel free to cut and cut into an oblique angle or cambered section.

## **Mounting Way**

### **Mounting Clips**

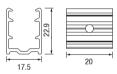




Dimension: 20x12.8x18.9mm Accessories: Screw M3x15mm

#### **Aluminium Mounting clips**





Dimension: 20x17.5x22.9mm Accessories: Screw M3x15mm

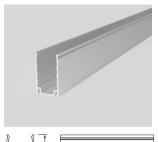
### Aluminium Profile

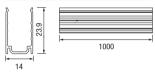
Dimension:

Accessories:

Screw M3x15mm

1000(±5)x14x23.9mm



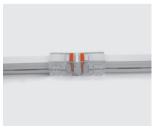


### Suspension Installation



• Use with the profile

### IP67 Connector (No Cable Entry)

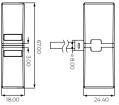




To connect 2pcs of neon after you cut it

# IP67 Connector (Cable Entry)

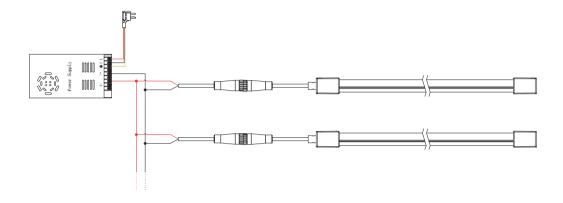




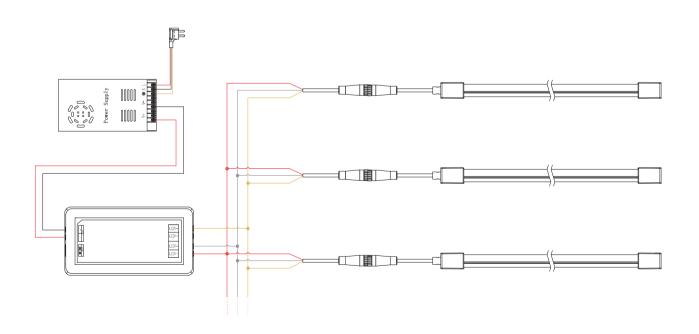
To connect 2pcs of neon after you cut it



# Single Color Connection Diagram

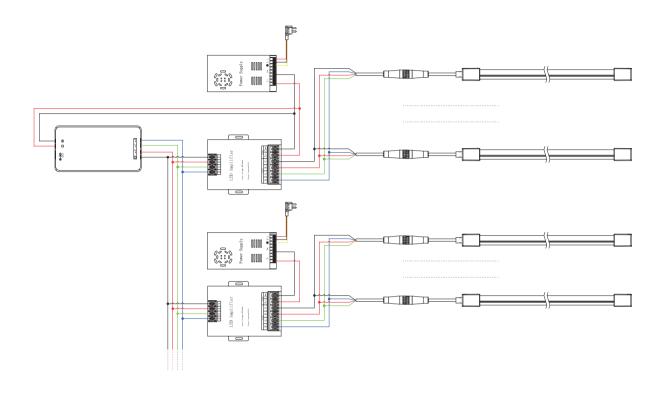


# **Tunable white Connection Diagram**

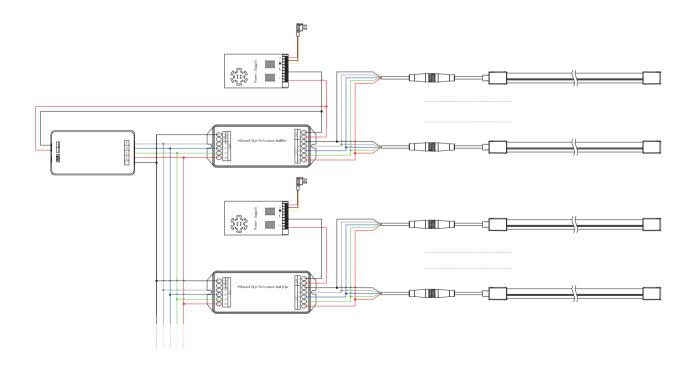




# **RGB Connection Diagram**

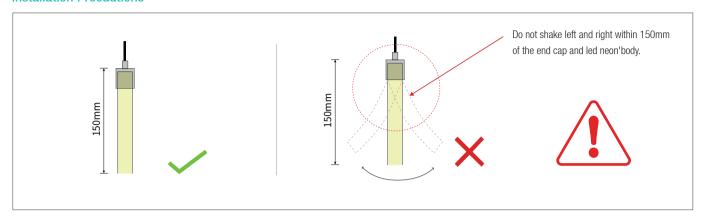


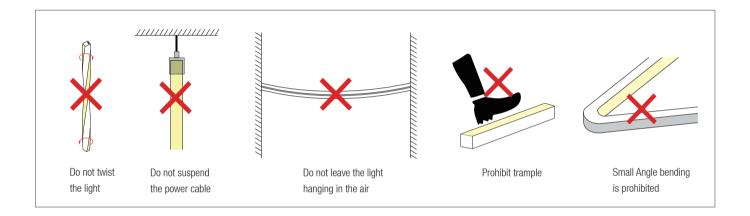
# **RGBW Connection Diagram**



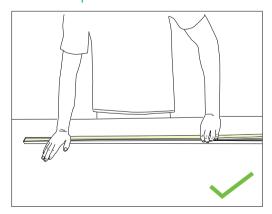


## **Installation Precautions**

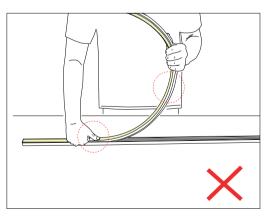




# Put it in the profile



- 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.

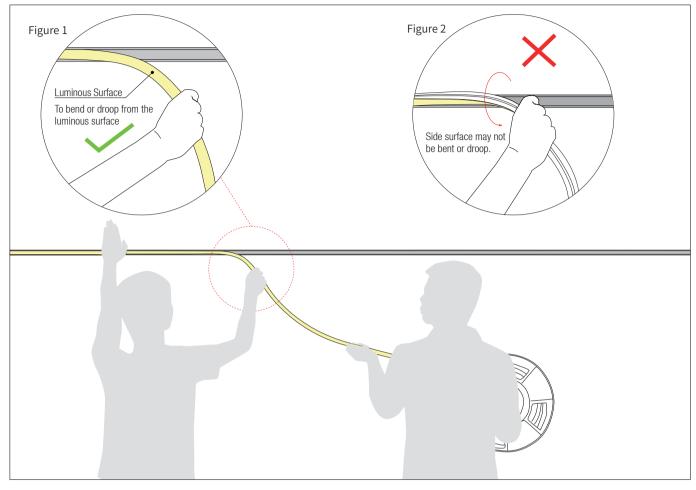


- Do not press the led strip with a single finger, it is easy to damage the internal parts of the led strip.
- -The bent arc of the led strip should not be too large during installation.



## 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 so that it droop it in the direction of your hand. See Figure 1.
- Side surface may not be bent or droop, See Figure 2.

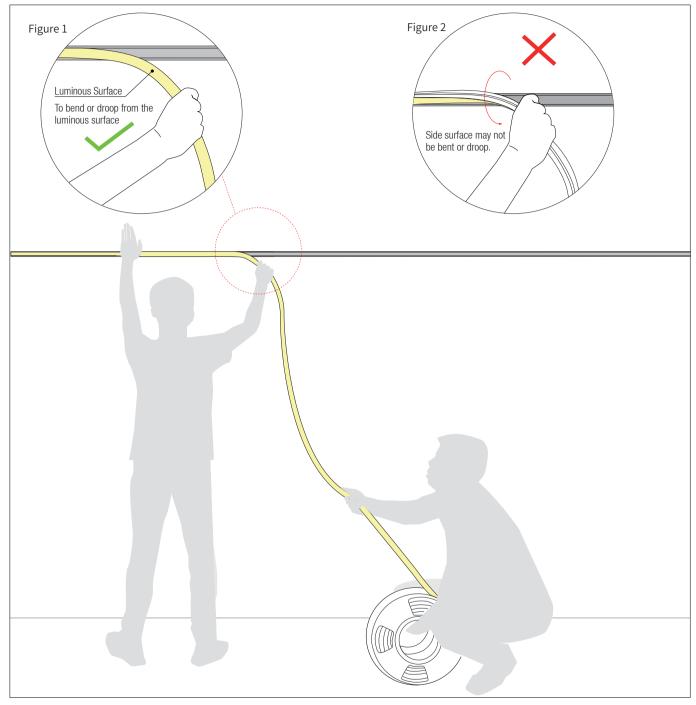
### 2. Assistant:

-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 so that it droop it in the direction of your hand. See Figure 1.
- Side surface may not be bent or droop, See Figure 2.

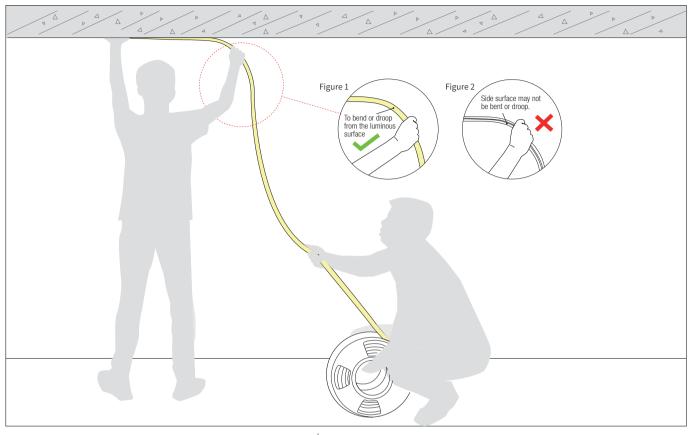
# 2.Assistant:

- 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 right hand, hold it and rotate it 90° to droop it in the direction of your hand. See Figure 1.
- Side surface may not be bent or droop, 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
or the light	L= I IVI	L=ZIVI	L=4IVI	L=0IVI	L=0IVI	L= I UIVI	L= I ZIVI	L= 14IVI	L= I DIVI
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
6A	AWG18	AWG16	AWG13	AWG11	AWG10	AWG9	AWG8	AWG8	AWG7
7A	AWG18	AWG15	AWG12	AWG11	AWG9	AWG8	AWG8	AWG7	AWG6
8A	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.

  \*\*It 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 torm powerfice.
- when multiple power supplies are used, ensure that the posture poles of the power supply are not confidence in parallel. Second 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.

  During installation, please do not scratch, twist, or bend the light irregularly. Otherwise, the light may be damaged beyond repair.

  To ensure the life and reliability of the light, please do not over bend the light, which will damage the product itself.

- To protect your eyes, please avoid staring at the glowing surface of the light for a long time. Non-professionals are forbidden to install, disassemble and maintain the product.

- No 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.