



# SILICONE NEON STRIP

PRODUCT SPECIFICATION

RLLNFSB0612E Side Bend

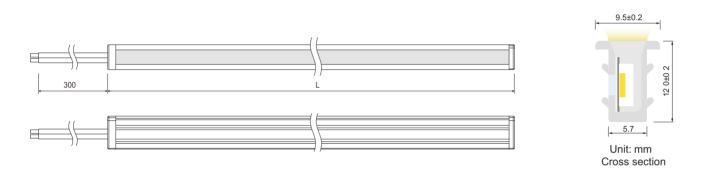
www.rhealedlinear.com





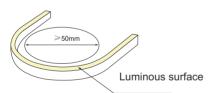
- High light transmittance, environmental protection grade silicone material, integrated extrusion molding process.
- Unique optical light distribution structure design, uniform lighting surface and no shadow.
- IP44 protection level, salt solution resistance, acids & alkalis and UV resistance
- Excellent toughness, simple and stylish appearance, delicate and unique.
- 3 years warranty, working life  $\ge$  30000 hours.

#### **Dimension structure**

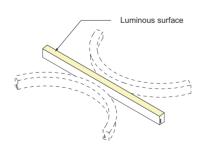


## **Electrical Parameter**

Voltage	LED PIN Temperature	Storage Temperature	Ambient Temperature	CRI
DC24V	Max. 65°C	25°C~ 60°C	Min. 25°C Max(Table belov	≥90 w)



Min bending diameter



Bend horizontal only

#### Specification

Power(w/m)	Efficacy(Im/w)@4000K	Max Ambient Temperature
10 w/m	30.3 lm/w	45°C

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

## Length Standard

Final Length	Tolerance(mm)
L+6	±7
L+6	±10
L+6	±13
L+6	±16
	L+6 L+6 L+6



Resistant

Saltwater

# One B Horizontal Bending Vertical Bending \* $\geq$





- 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 compo nents, 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)	CRI	Voltage	Power(W)	Lumen (LM/M)	Efficiency (LM/W)	Unit Length (mm)	Max. Run Length (M)	CC/CV
2700K±150	≥90	DC24V	10	277	27.7	50	13(CC)	CC/CV
3000K±150	≥90	DC24V	10	282	28.2	50	13(CC)	CC/CV
4000K±300	≥90	DC24V	10	303	30.3	50	13(CC)	CC/CV
6500K±500	≥90	DC24V	10	312	31.2	50	13(CC)	CC/CV
Red		DC24V	10	148	14.8	50	13(CC)	CC/CV
Green		DC24V	10	369	36.9	50	13(CC)	CC/CV
Blue		DC24V	10	86	8.6	50	13(CC)	CC/CV
Yellow		DC24V	10	106	10.6	50	13(CC)	CC/CV
Orange		DC24V	10	145	14.5	50	13(CC)	CC/CV
Pink		DC24V	10	270	27.0	50	13(CC)	CC/CV

# CCT Tunable (Lm/m)

CCT(K)	CRI	Voltage	Power(W)	Lumen (LM/M)	Efficiency (LM/W)	Unit Length (mm)	Max. Run Length (M)	CC/CV
_ 2700±150	≥90	DC24V	5	143	28.6	62.5	5	CV
5500±500	≥90	DC24V	5	157	31.4	62.5	5	CV
4000 <sup>+200</sup> -400	≥90	DC24V	10	297	29.7	62.5	5	CV

## RGB (Lm/m)

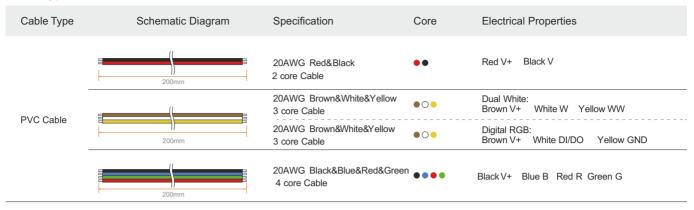
CCT(K)	CRI	Voltage	Power(W)	Lumen (LM/M)	Efficiency (LM/W)	Unit Length (mm)	Max. Run Length (M)	CC/CV
R		DC24V	3.3	28	8.4	50	5	CV
G		DC24V	3.3	87	26.4	50	5	CV
В		DC24V	3.3	16	4.8	50	5	CV
RGB		DC24V	10	132	13.2	50	5	CV

## **Digital RGB**

CCT(K)	Voltage	Power(W)	Lumen (LM/M)	Efficiency (LM/W)	Pixel (PCS)	Signal Type	IC Model	Unit Length (mm)	Max. Run Length (M)
DC24V	4.8 4.8 4.8 12.5	R G B RGB	16 45 8 94	3.4 9.3 1.7 7.5	10	SPI	WS2811	100	5



## Cable Type



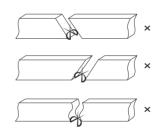
## **Cutting Mark**



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



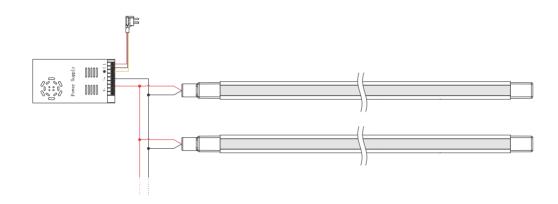
Use professional scissors to cut vertically at the cutting mark



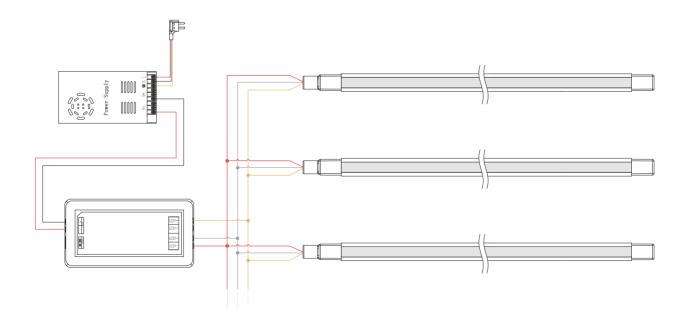
Please don't be feel free to cut and cut into an oblique angle or cambered section.



# Single Color Connection Diagram

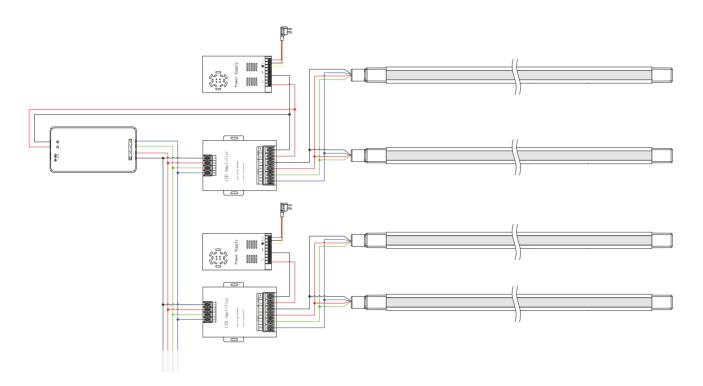


# Tunable white Connection Diagram



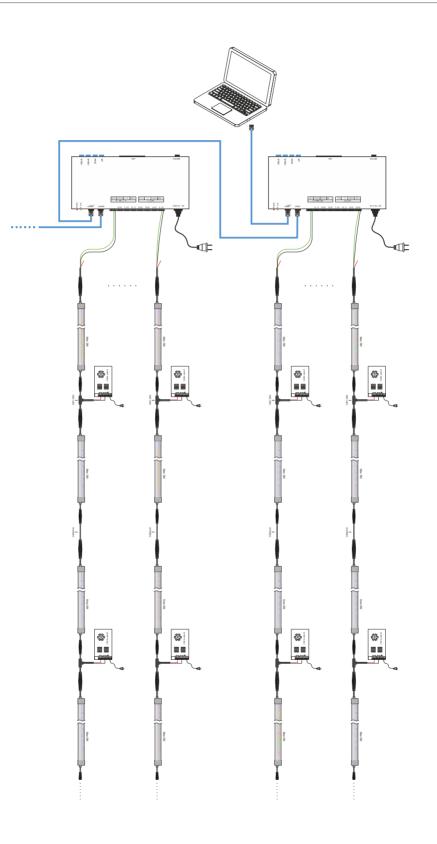


# **RGB** Connection Diagram



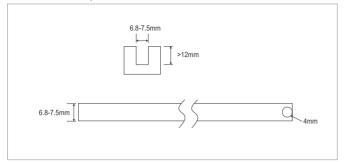


# Control system connection diagram-SPI Signal



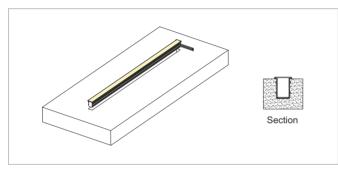


## **Installation Steps**

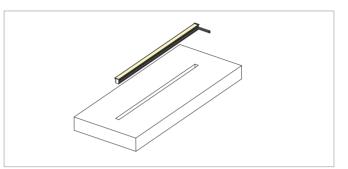


1.Make grooves and outlet holes

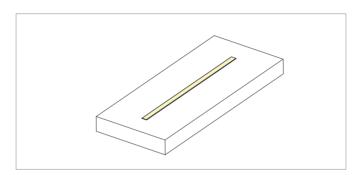




3.Align the light to the groove, press the glowing surface of the light, and fully embed the light into the groove.



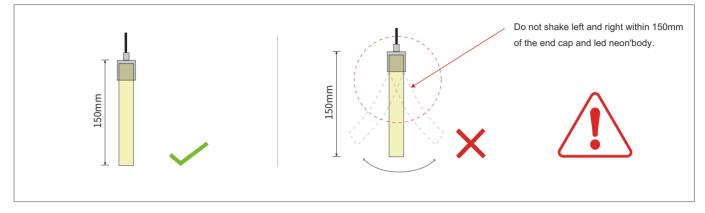
2. Pass the cable of the light through the reserved hole as shown in the figure.

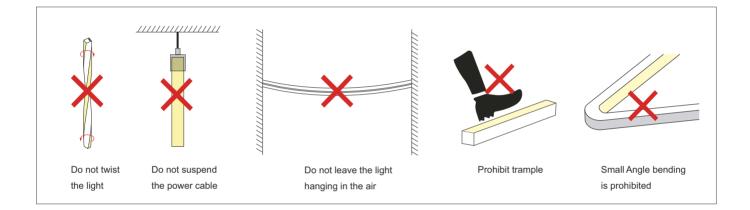


4.Completed.

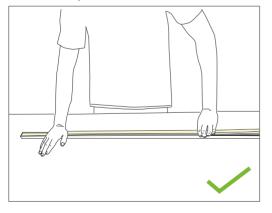


## Installation Precautions



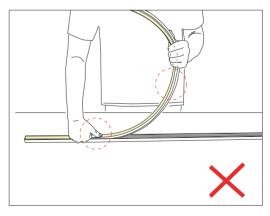


## Put it in the profile



Please press the led strip with your palm to slowly insert the led strip into the groove, and gently straighten the led strip a bove the groove with your right hand.

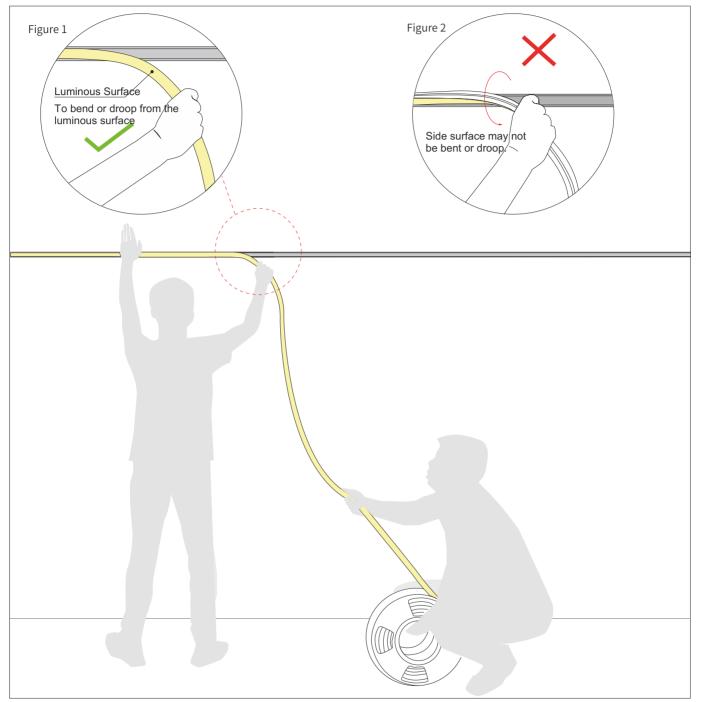
Try to keep the led strip in a flat state during the installation process.



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 5 meters, two persons must work together to install it.)

## 1.Installer:

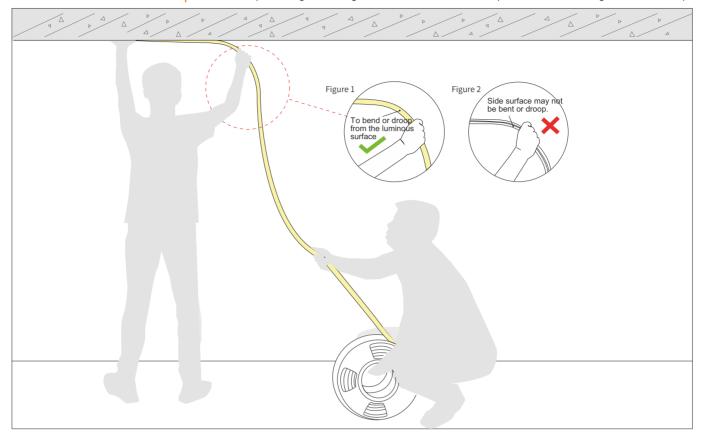
Press the light with the palm of the left hand to slowly load it into the slot. Straighten the light with right hand so that it droop it in the direction of your hand. See Figure 1.

## 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	s 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
ЗA	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

- 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.

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  It is recommended that professionals connect the power supply. Do not connect the power supply with live power to avoid electric shock
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   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
- Prease commit whether the voltage of the power supply is consistent with the voltage of the light, Fay 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
- 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 o damaged after long-term operation.
- The unused light should be sealed with the packaging bag to avoid prolonged exposure.
- 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.
- 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.