![Signcomplex | Light and Smart]

SC-TSE1228-3S
3-Side emitting Silicon Neon

Available colors

W	WW	NW	R	G	B	RGB

CE RoHS Warranty 3 years

Features

◉ High brightness 2835 SMD LED (single color & RGB color)
◉ CRI80 or CRI90
◉ High efficiency up to 130LPW
◉ 12*12mm Dimension & Minimum bending radius can be 60mm
◉ Top-View & 3-Side emitting
◉ Dot-free illumination and high uniformity
◉ UV-resistant high quality silicon material
◉ Extrusion process & injection moulding for end cap make IP67
◉ Special window-design makes cutting convenient and easy
◉ Providing accessories for cutting and installation

Application

◉ Outdoor contour/boundary lighting,
◉ Building contour decoration lighting.

Technical parameters

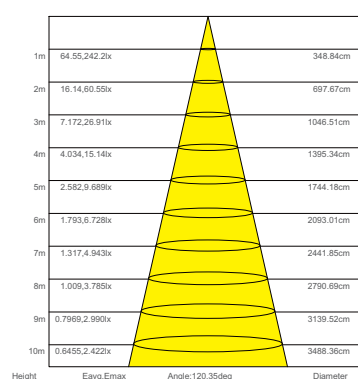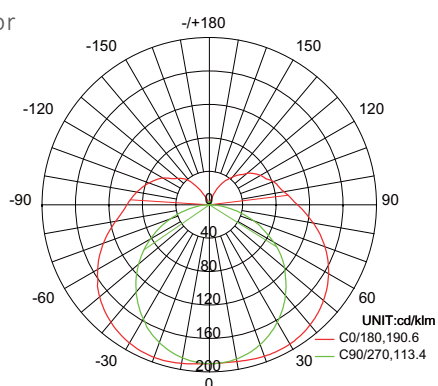| Model	Wave Length & CCT Range(for LED only)		Luminous Flux (lm/M)	CRI	LED Type	LED Qty. (PCS/M)	Rated Watt (W/M)	DC Voltage (V)	Min. Length(MM)	Max. Length(M)	PCB Width (MM)	IP
SC-TSE1228-3S-128-XX-24V	WW	2800-3200K	1178	80	2835	128	9.6	24	62.5	5	8	67
	NW	3800-4500K	1260									
	W	6200-6700K	1220									
	R	620-630nm	301	/								
	G	515-530nm	1110									
	B	460-470nm	205									
SC-TSE1228-3S-120-RGB-24V	RGB	N/A	420	/	2835/RGB	120	14.4	24	50	5	8	67
	R	620-630nm	102	/								
	G	515-530nm	282	/								
	B	460-470nm	46	/								

* Note :　1. The above data is the testing result of 1M standard product;
　　　　　2. The power and lumens of output data can be vary up to ±10%;
　　　　　3. The above parameters are all typical values.

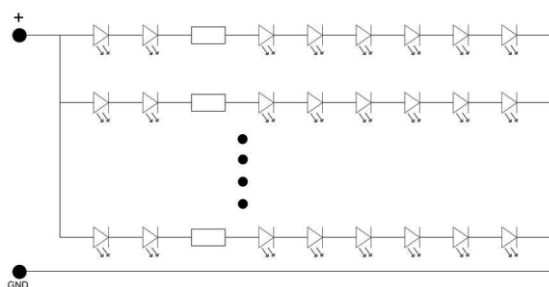| * Note: There will be CCT deviation for white color after the silicon extrusion, below is the table for your reference.			
CCT Deviation table			
Part number	Color	CCT for LEDS(real tested data)	CCT for IP67(real tested data)
SC-TSE1228-3S-128-WW-24V	WW	2983	2908
SC-TSE1228-3S-128-NW-24V	NW	4100	3965
SC-TSE1228-3S-128-W-24V	W	6801	6415

Light Distribution

Single Color

UNIT:cd/klm
C0/180,190.6
C90/270,113.4

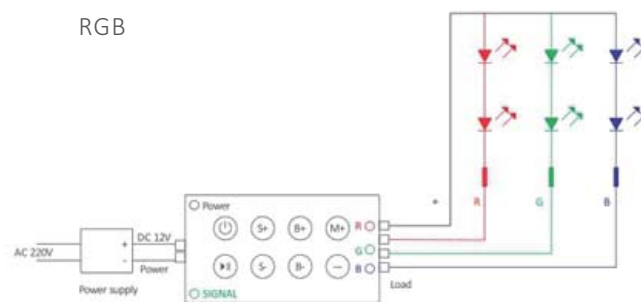| Height	Eavg,Emax	Angle:120.35deg	Diameter
1m	64.55,242.2lx		348.84cm
2m	16.14,60.55lx		697.67cm
3m	7.172,26.91lx		1046.51cm
4m	4.034,15.14lx		1395.34cm
5m	2.582,9.689lx		1744.18cm
6m	1.793,6.728lx		2093.01cm
7m	1.317,4.943lx		2441.85cm
8m	1.009,3.785lx		2790.69cm
9m	0.7969,2.990lx		3139.52cm
10m	0.6455,2.422lx		3488.36cm

Circuit Schematic(DC 24V)
Single Color

RGB

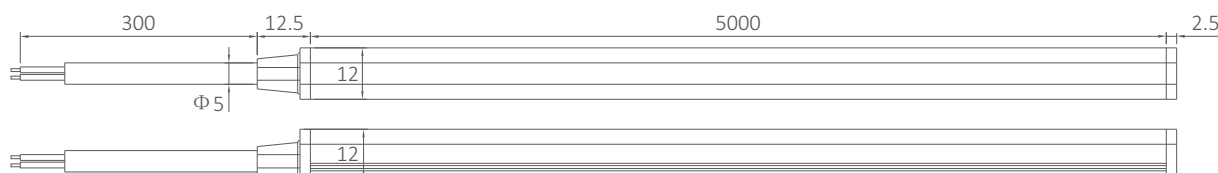# Connection diagram for RGB: as figure 1, use power cabinet(waterproof, moisture proof, dust proof)the cabinet can hold one or more control powers.
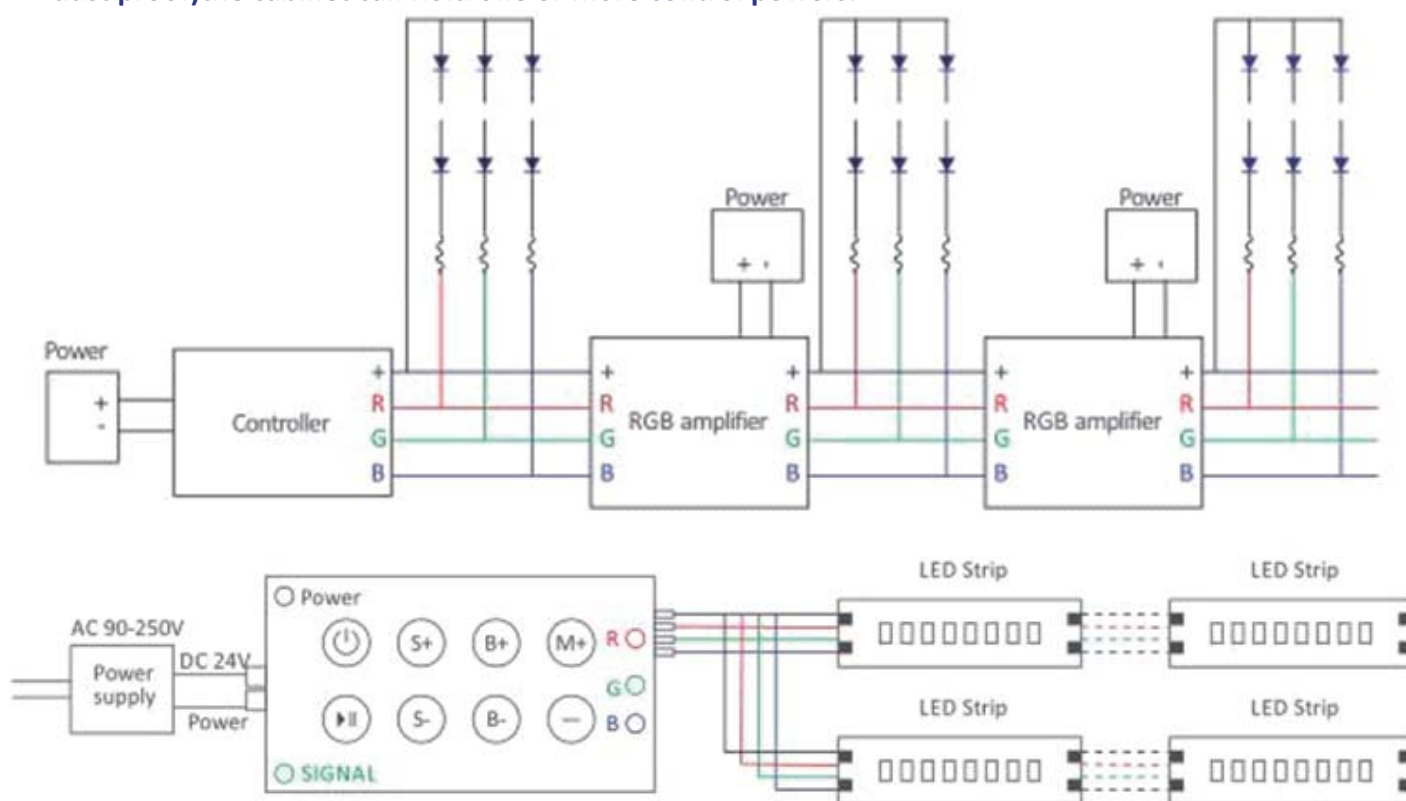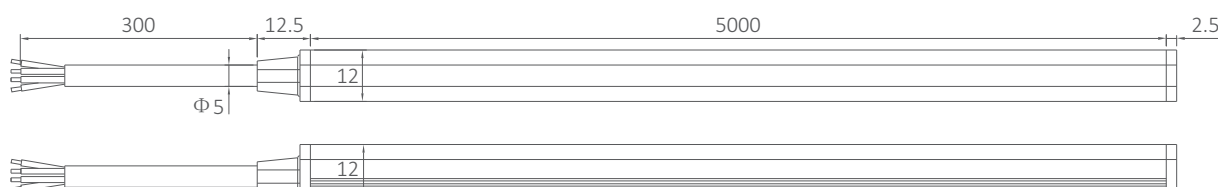
Dimensions

SC-TSE1228-3S-128-XX

SC-TSE1228-3S-128-RGB

Installation diagram

Installation operation

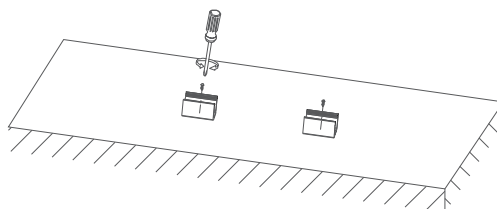1. Fixed the clip in the place where the neon flex installed, as shown in Figure 1

Figure 1

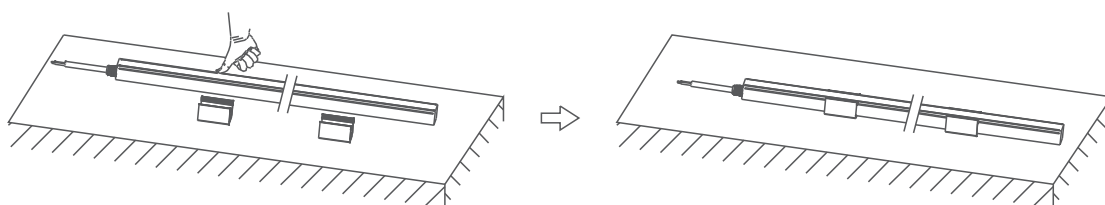2. Install the neon flex into the clip, the installation is complete, as shown in Figure 2

Figure 2

Cutting operation

1. Cut along the cutting line with scissors, as shown in Figure 3.

1:2
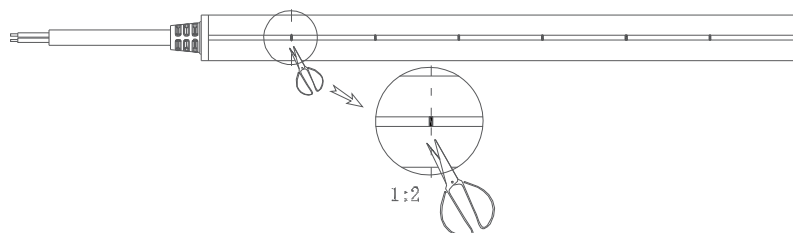
Figure 3

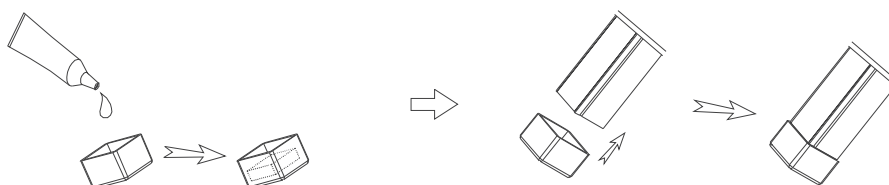2. The plug will be filled with glue, and put the neon flex into the plug, the installation is complete, as shown in Figure 4:

Figure 4

3. Cut off the adhesive on the back of the PCB to reveal the welding points, as shown in Figure 5
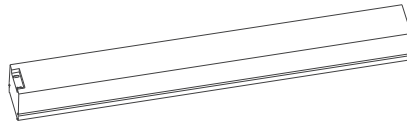
Figure 5

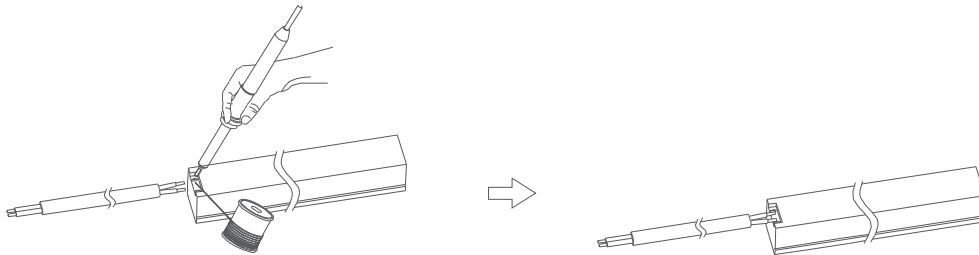4. Use the soldering iron to solder the wire, as shown in Figure 6

Figure 6

4. Put the plug encased into the line, and repeat Figure 4 gluing steps, and then insert the neon flex into the plug, the installation is complete, as shown in Figure 7
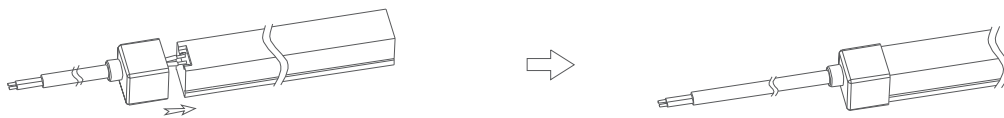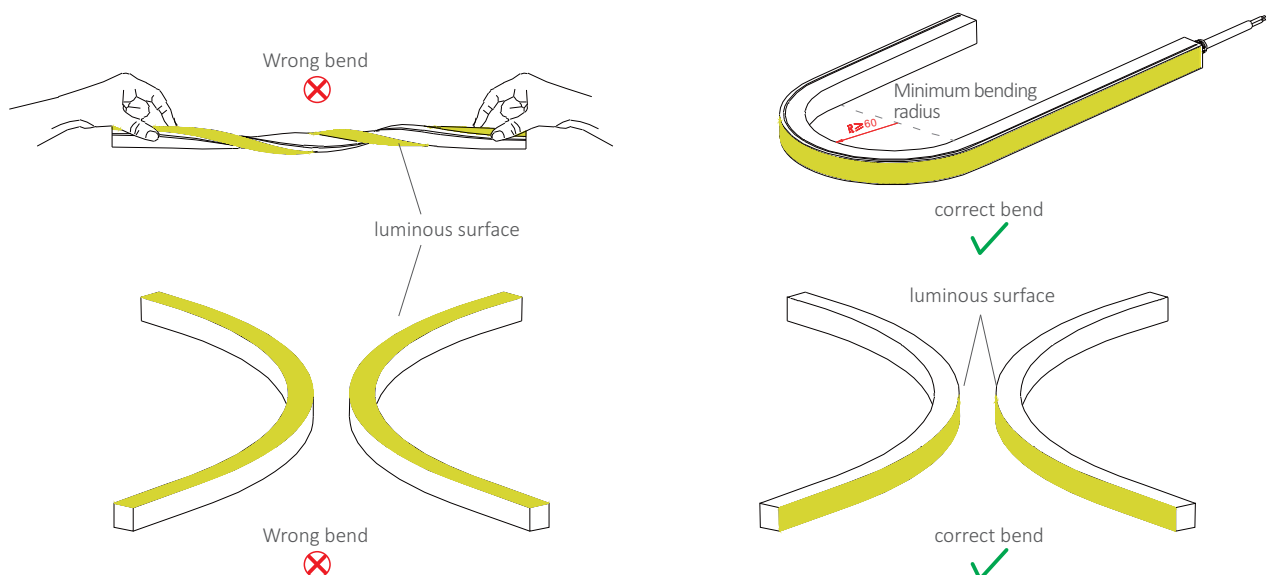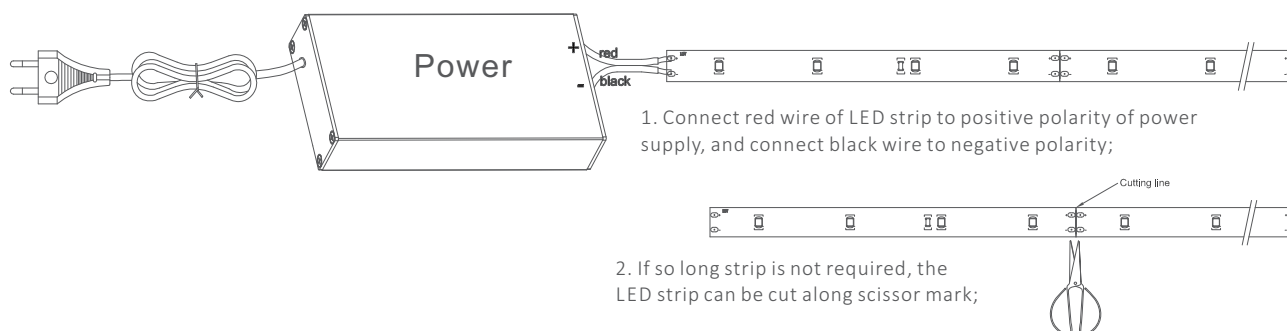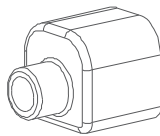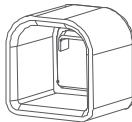
Figure 7
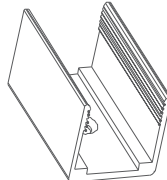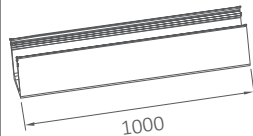
Bending direction and bending radius

Wrong bend ⊗

luminous surface

Wrong bend ⊗

Minimum bending radius

R≥60

correct bend ✓

luminous surface

correct bend ✓

Wiring diagram

Power

+ red
- black

1. Connect red wire of LED strip to positive polarity of power supply, and connect black wire to negative polarity;

Cutting line

2. If so long strip is not required, the LED strip can be cut along scissor mark;

Accessories for IP65 version

Name	End cap with hole	End cap without hole	Mounting clip	Mounting Channel
Picture				1000
Qty.	2pcs/5M	2pcs/5M	20pcs/5M	optional

Packaging information
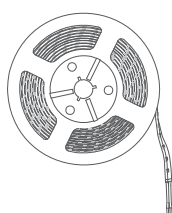
LED strip
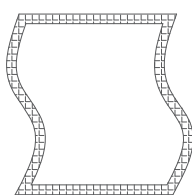
Anti-static bag
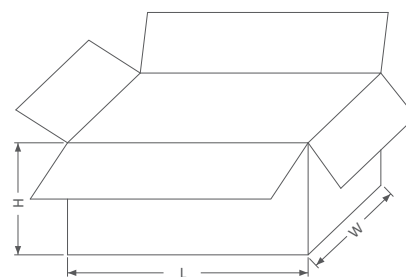
Packing box

LED strip	Anti-static bag	Packing Box		
Part Number	Gross Weight per Reel	QTY per Carton	Size(cm/inch)	Gross Weight
SC-TSE1228-3S-128-XX-24V SC-TSE1228-3S-120-RGB-24V	0.95Kg	20 Reels	35cm*35cm*35.5cm 13.78"*13.78"*13.98"	19.67Kg
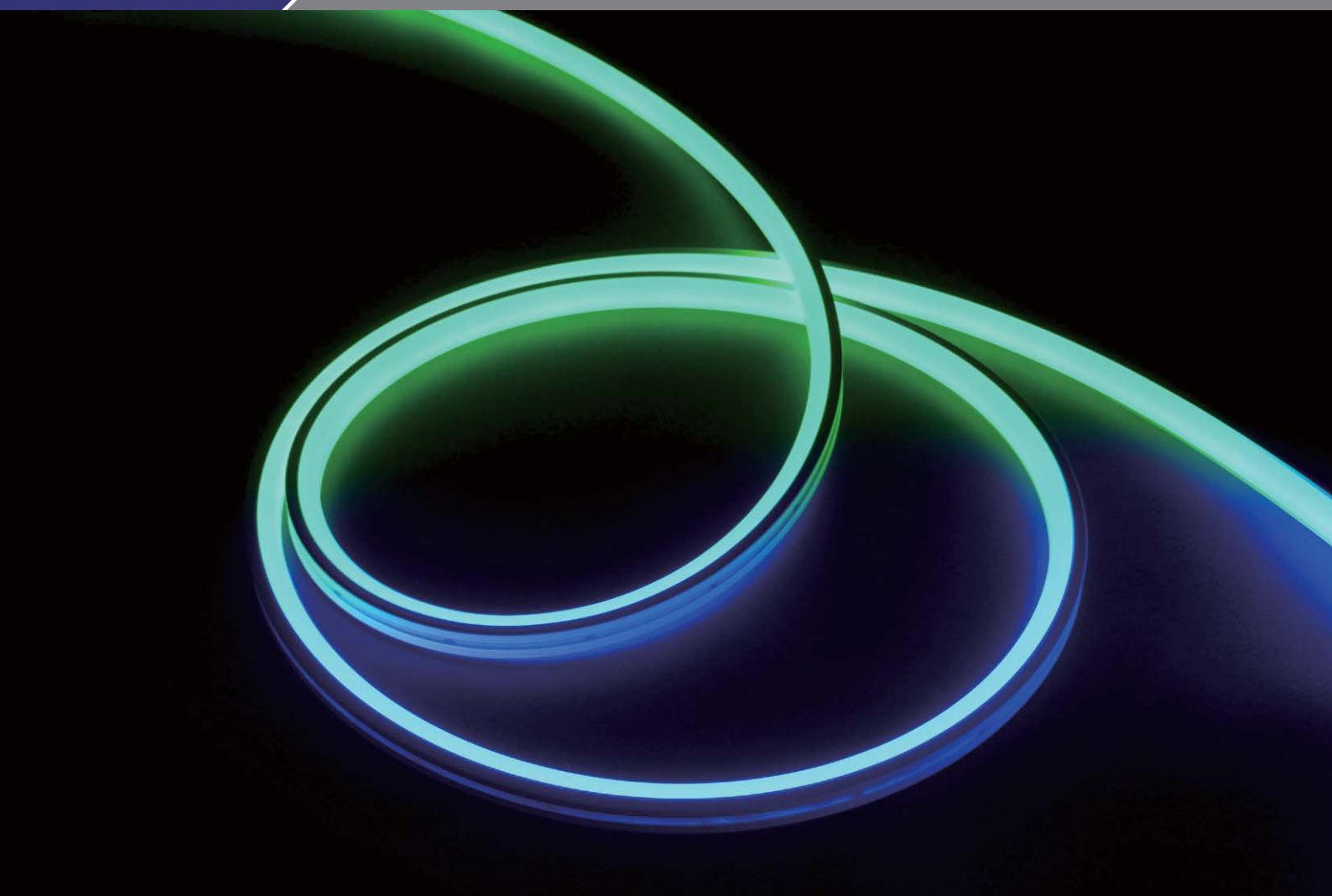
Installation requirement

- ◉ The LED strip and accessories can't be squeezed or folded.
- ◉ PCB conductive parts can't be damaged when installation.
- ◉ Installation must conform to electrical safety standard. The LED strip can only be installed by professionals.
- ◉ Ensure power supply transform operating load with transformer.
- ◉ When install on metal or conductor surface, insulation protection need to be provided to the contact area.
- ◉ Observe positive and negative polarity, ensure correct connection to avoid damaging LED strip.
- ◉ When installation, please prevent static electricity.
- ◉ The product need anti-corrosion environment, such as, avoiding damp, water drop or other adverse elements.