Flex Led Neon Light

N1220T

IP67	UV RESISTANT	FLAME RESISTANT	SALTWATER RESISTANT	SOLVENT RESISTANT	60℃ -25℃

Indoor	outdoor	CE	RoHS	WARRANTY 3 YEARS	Anti yellowing
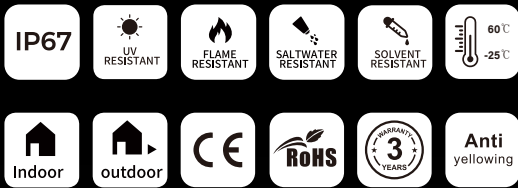
Product Specification
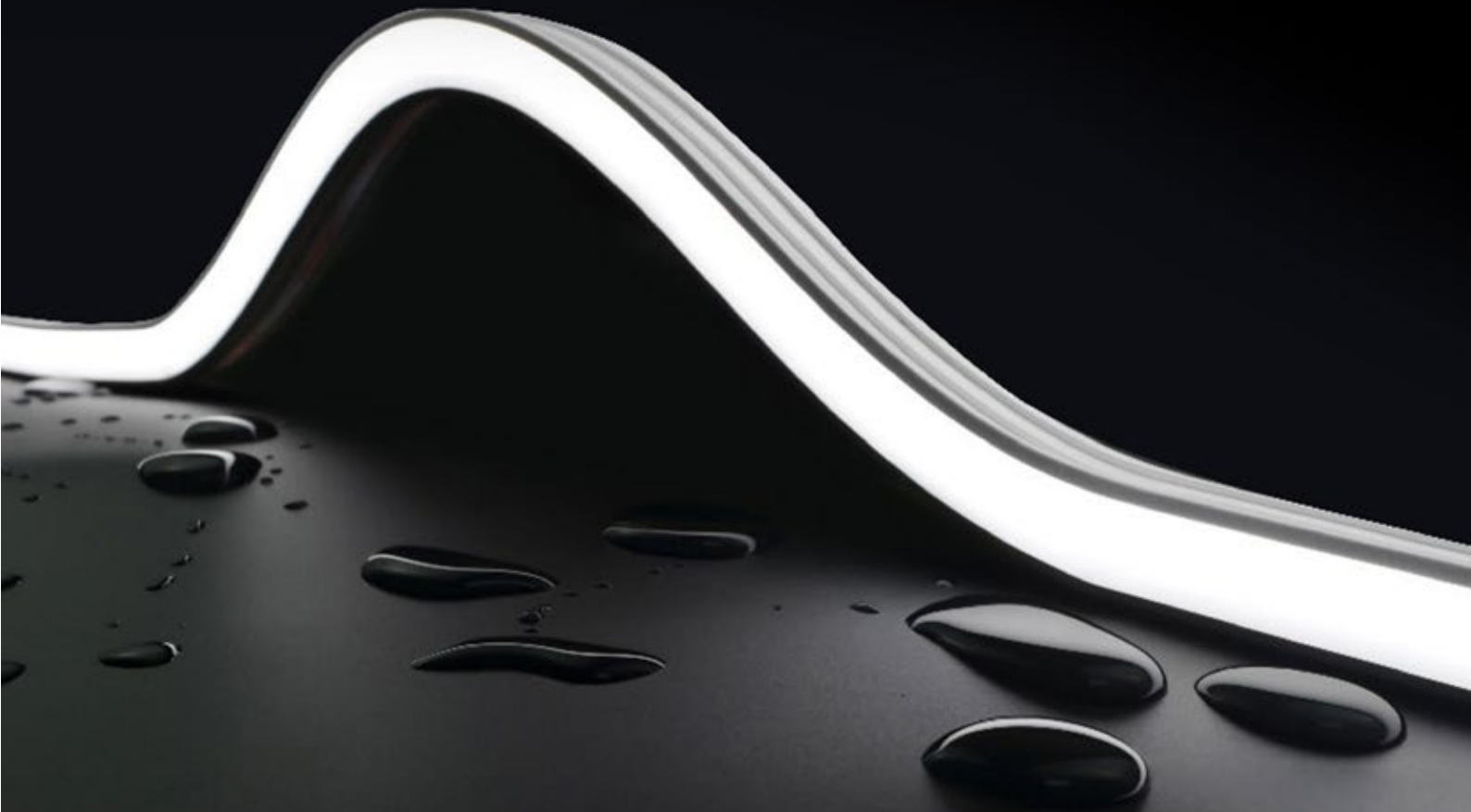
LED strip colloid specifications comparison

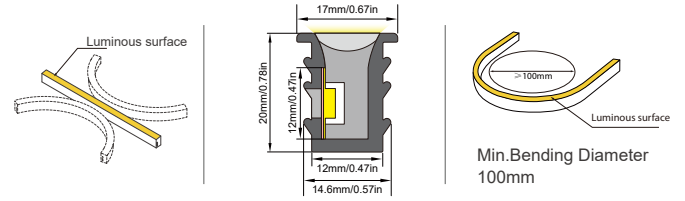| Materials / Main parameters	Silicone flexible led strip	PVC flexible led strip	Notes
Colloid features in -40℃	No crack after 30 days	Totally cracked	The low temperature resistant of silicone is superior than PVC or epoxy materials
Colloid features in 120℃	No obvious change after 72 hours	Colloid changed into yellow and deformed after 2 hours	The high temperature resistant of silicone is superior than PVC or epoxy
Colloid features in 180℃	No obvious change after 72 hours	Colloid changed into brown and some melted after 20 minutes	Over 150℃, PVC is easily hydrolyzed, Viscosity becomes weaken and easily seperated
Steadily lighted in Seawater for 72 hours	No obvious change	Serious atomization on the surface	The waterproof grade of silicone led strip can reach to IP67, high resistance to acidic alkali and salt properties
Thermal conductivity	Good thermal conductivity	No thermal conductivity	Pvc and epoxy cannot conduct heat, while silicone has good thermal conductivity

Product features

• Anti-yellowing and heat resisting silicone glue, chemical
  resistance acid and alkaline,available for extremely
  terrible outdoor environment.
• Uniform and soft luminance, no light spot.
• Super brightness large chip, golden wire welded and
  copper led holder for quicker heat dissipation, higher
  stability, longer life span.
• Leadless SMT technique (RoHS certificated), smooth
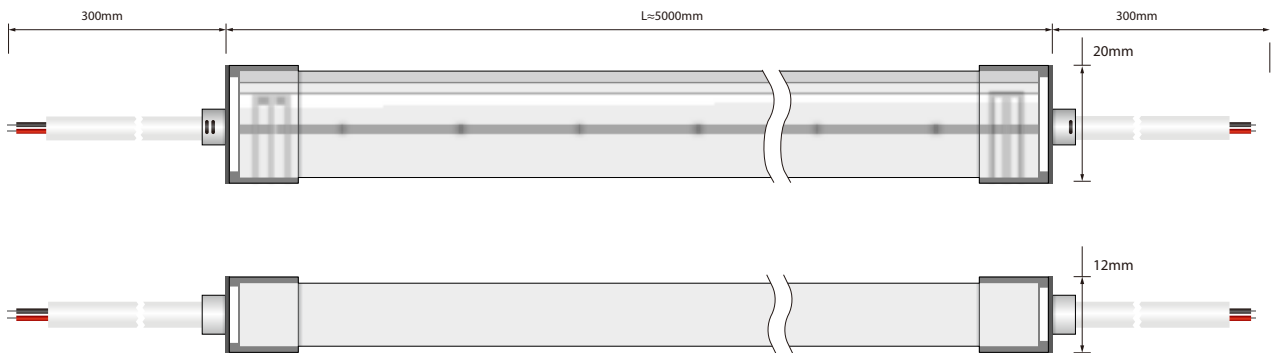 welding joint, firm connection of led and pcb.

ShenZhen Surmountor Lighting Co., LTD

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01

Specification

Built-in PET sheet to prevent the neon tube from being elongated

Bending (Silicone)

Luminous surface

17mm/0.67in
20mm/0.78in
12mm/0.47in
12mm/0.47in
14.6mm/0.57in

Min.Bending Diameter 100mm

>100mm
Luminous surface

IP67 Protection	**Flame Resistant**	**UV Resistant**	**Solvents Resistant**	**Saltwater Resistant**
Dirt Resistant	**CRI90**	**3 Years Warranty**	**Ambient Working**	**Anti Yellowing**

Model Number	N1220T	Size (mm)	12*20
PCB Limited (mm)	12mm	IP Grade	IP67
Working Temperature	−25 to 60°C	N.W.(G/M)	310g

Dimensions of light

300mm   L≈5000mm   300mm
20mm
12mm

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Recommend LED strip parameters

(1) N1220T WHT

SMD2835, 120LED/meter									
Part number	Color	Lumen/M CRI 80	Lumen/M CRI 90	Unit cut	Cut every (LEDS)	LED Qty/M	Voltage	Power/M	Max run length
SUR-2835FW120-24V	WW	611	550	50mm	6	120	24V	14.4W	5 meters from one end
	NW	645	581						
	CW	634	571						

(2) N1220T WHT

SMD2835, 160LED/meter									
Part number	Color	Lumen/M CRI 80	Lumen/M CRI 90	Unit cut	Cut every (LEDS)	LED Qty/M	Voltage	Power/M	Max run length
SUR-2835FW160-24V	3000K	878	790	50mm	8	160	24V	14.4W	5 meters from one end
	4000K	911	820						
	6000K	956	860						

(3) N1220T TW

SMD3527, 120LED/meter, Dual color.									
Part number	Color	Lumen/M CRI 80	Lumen/M CRI 90	Unit cut	Cut every (LEDS)	LED Qty/M	Voltage	Power/M	Max run length
SUR-3527FW120-24V	WW	268	241	50mm	6	120	24V	7.2W	5 meters from one end
	CW	274	247						
	WW+CW							14.4W	

(4) N1220T RGBW

5050RGBW, 96 LED/Meter								
Part number	Color	Lumen/M	Unit cut	Cut every (LEDS)	LED Qty/M	Voltage	Power/M	Max run length
SUR-5050RGBW-96-24V	Red	42	62.5mm	6	96	24V	3.75W	5 meters from one end
	Green	117						
	Blue	23						
	WW	119						
	NW	125						
	CW	123						
	RGBW						15W	

Recommend LED strip parameters

3838RGB LED Strip,120 LED/Meter

Part number	Color		Lumen/M	Unit cut	Cut every (LEDS)	LED Qty/M	Voltage	Power/M	Max run length
SUR-3528RGB-120-24V	Red	■	52	50mm	6	120	24V	4.8W	5 meters from one end
	Green	■	154						
	Blue	■	33						
	RGB							14.4W	

5050RGBIC, 84 LED/Meter

Part number	Color		Lumen/M	Unit cut	Cut every (LEDS)	LED Qty/M	Voltage	Power/M	Max run length
SUR-5050RGBIC-84-24V	Red	■	54	71.43mm	6	84	24V	5W	5 meters from one end
	Green	■	160						
	Blue	■	34						
	RGB							15W	

4040RGBW, 96LED/Meter

Part number	Color		Lumen/M	Unit cut	Cut every (LEDS)	LED Qty/M	Voltage	Power/M	Max run length
SUR-4040RGBW-96-24V	Red	■	59	125mm	12	96	24V	4W	5 meters from one end
	Green	■	177						
	Blue	■	38						
	WW	■	149						
	NW	■	156						
	CW	□	153						
	RGBW							16.8W	

SMD2835, 180LED/meter

Part number	Color		Lumen/M CRI 80	Lumen/M CRI 90	Unit cut	Cut every (LEDS)	LED Qty/M	Voltage	Power/M	Max run length
SUR-2835FW180-24V	WW	■	651	586	cut anywhere	1	180	24V	14.4W	5 meters from one end
	NW	■	685	617						
	CW	□	674	607						

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04

Installation steps
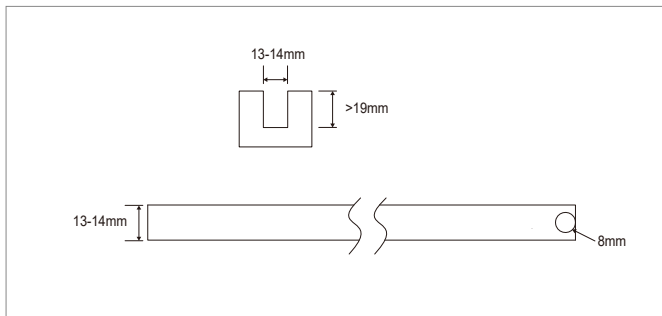
1. Make grooves and outlet holes according to the dimensions shown in the picture
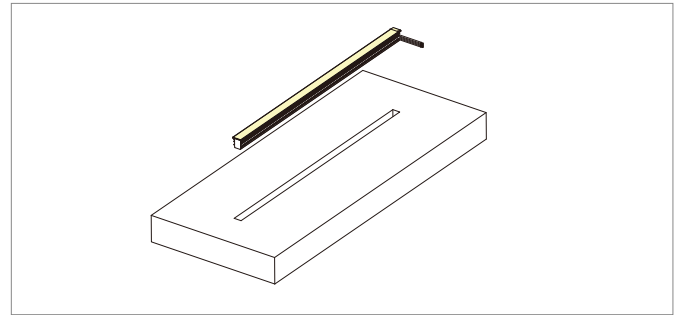
2. Pass the cable of the light through the reserved hole as shown in the figure

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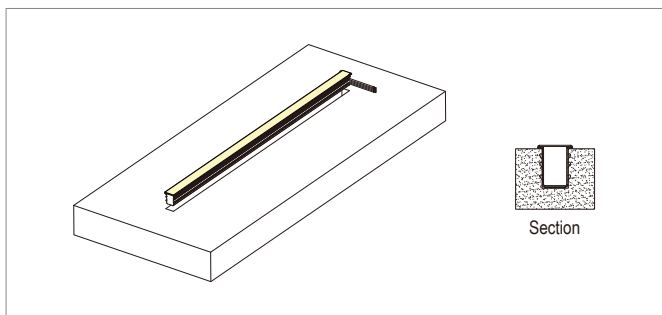
3. Align the light to the groove, press the glowing surface of the light, and fully embed the light into the groove.

4. Completed.

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05
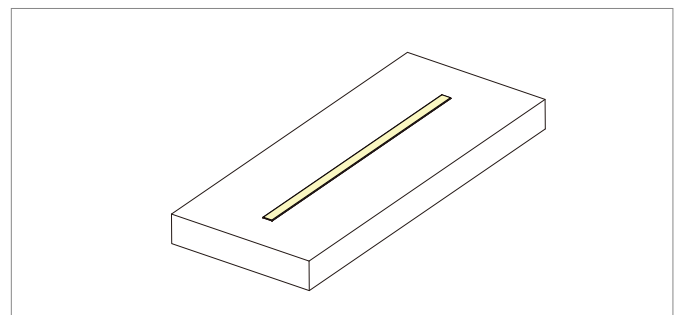
Cable

Cable Type	Schematic Diagram	Specification	Core
PVC Cable		0D: 4.0mm /Inner core: 20AW/G	●●
		0D: 4.5mm /Inner core: 20AW/G	●●○
		0D: 4.5mm /Inner core: 20AW/G	●●●
		0D: 4.5mm /Inner core: 20AW/G	●●●●
		0D: 6.0mm /Inner core: 20AW/G	●○●●●

Cable Type	Schematic Diagram	Specification	Core	Electrical Properties
Silicone Cable		0D: 6.0mm /Inner core: 18AW/G	●●	Red V+,Black V-
		0D: 6.0mm /Inner core: 20AW/G	●●○	Black V+,White W,Yellow WW
		0D: 6.0mm /Inner core: 20AW/G	●●●	Black V-,Red V+,Green DATA
		0D: 6.0mm /Inner core: 20AW/G	●●●●	Black V+,Blue B,Green G,Red R
		0D: 6.6mm /Inner core: 20AW/G	●○●●●	Black V+,White W,Blue B,Green G,Red R

Note: For more accessories, please contact our sales.
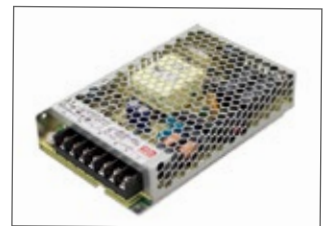
Driver & Cotronller

Order code: XLG-150-24-A
AC100-305V DC24V 150W
IP67, Global certification.
Non Dimmable.

Order code: ELG-150-24B
AC100-305V DC24V 150W
IP67, Global certification
3in1 dimming function: 0-10Vdc,
10V PWM signal and resistance.

Order code: ELG-150-24DA
AC100-305V DC24V 150W
IP67, Global certification
Dali control technology.

Order code: ELG-150-24DA
AC100-305V DC24V 150W
IP67, Global certification
Dali control technology.

SD Card programe controller.
SMD Capacity supports

For RGB IC- SP105E Magic
controller *For more info please

RGB+W controller： 4 Channel
DC12V/24V, 6A, RGB+W, RF
remote with finger touch ring.

RGB Controller： 3 Channel
DC12V/24V, 6A RGB controller,
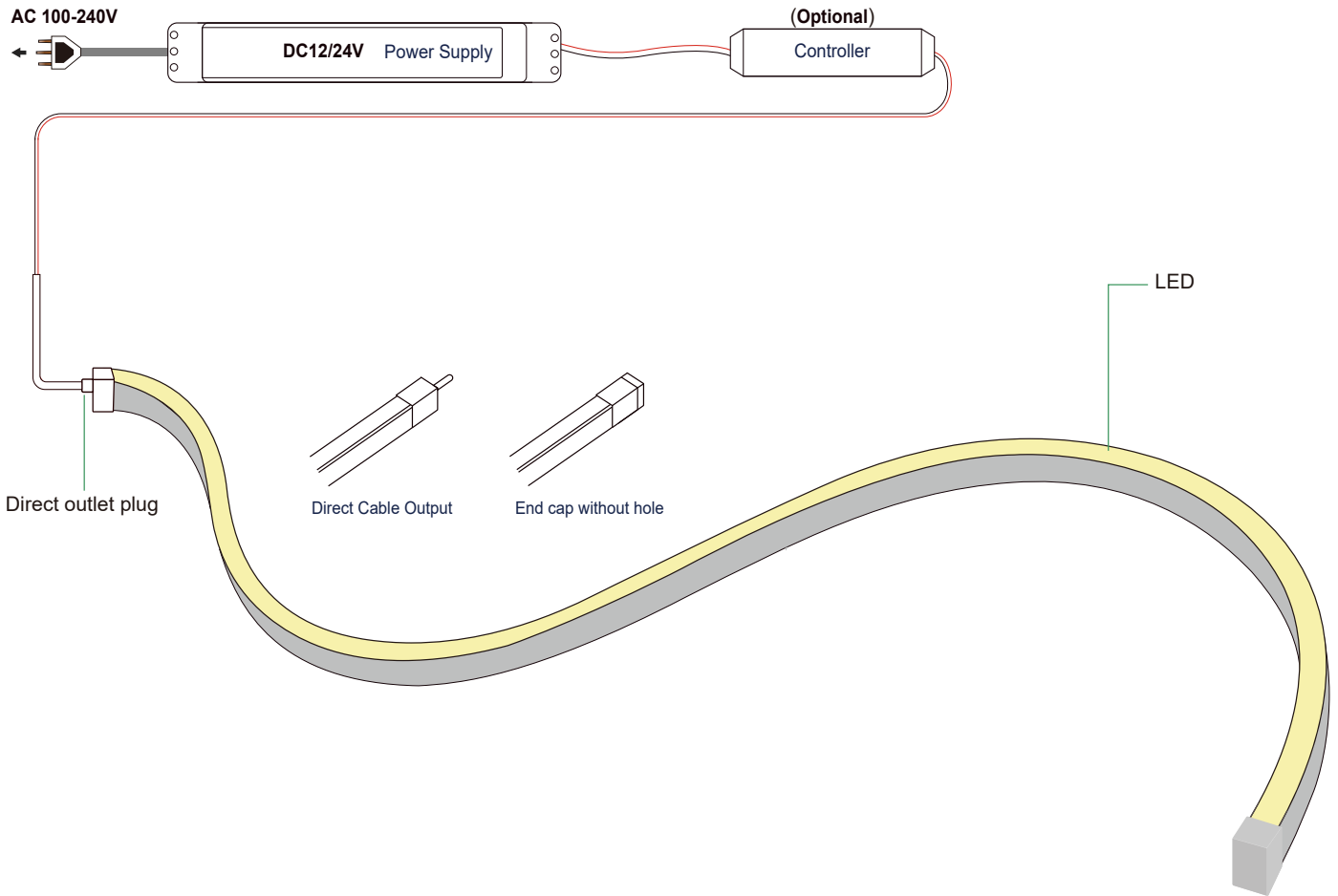RF remote with finger touch ring. .

Dimmer:1 Channel DC12V/24V,
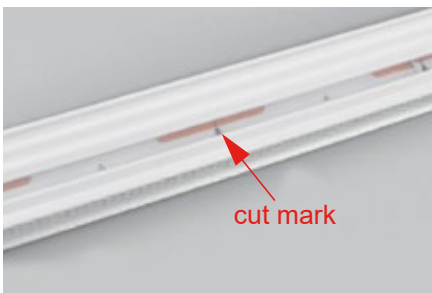6A, Dimmer, RF remote with
finger touch ring.

CCT Adjustable- 2 Channel
DC12V/24V,6A, CCT adjustable,
RF remote with finger touch ring.

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Product system solutions

AC 100-240V

DC12/24V Power Supply

(Optional)
Controller

LED

Direct outlet plug

Direct Cable Output

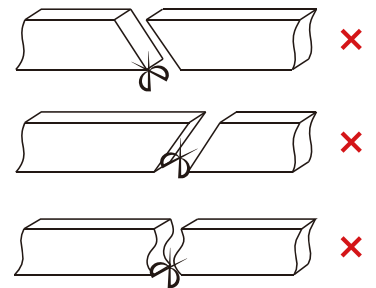End cap without hole

Cut mark

cut mark

Remarks: There is a transparent window at the bottom of the light strip,


Make precise vertical cuts at the exact cut position of the light strip.

Please do not arbitrarily cut or cut into a bevel and arc section.

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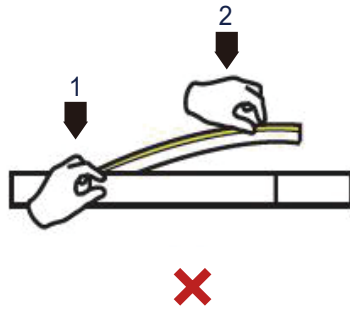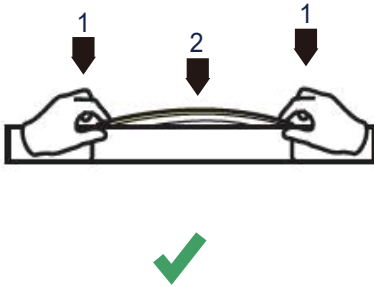
07

Installation

This product is suitable for surface mounting or embedded sealing installation. Recommended slot size: Width 12mm, Depth 20mm, gently press the neon sleeve into the slot.
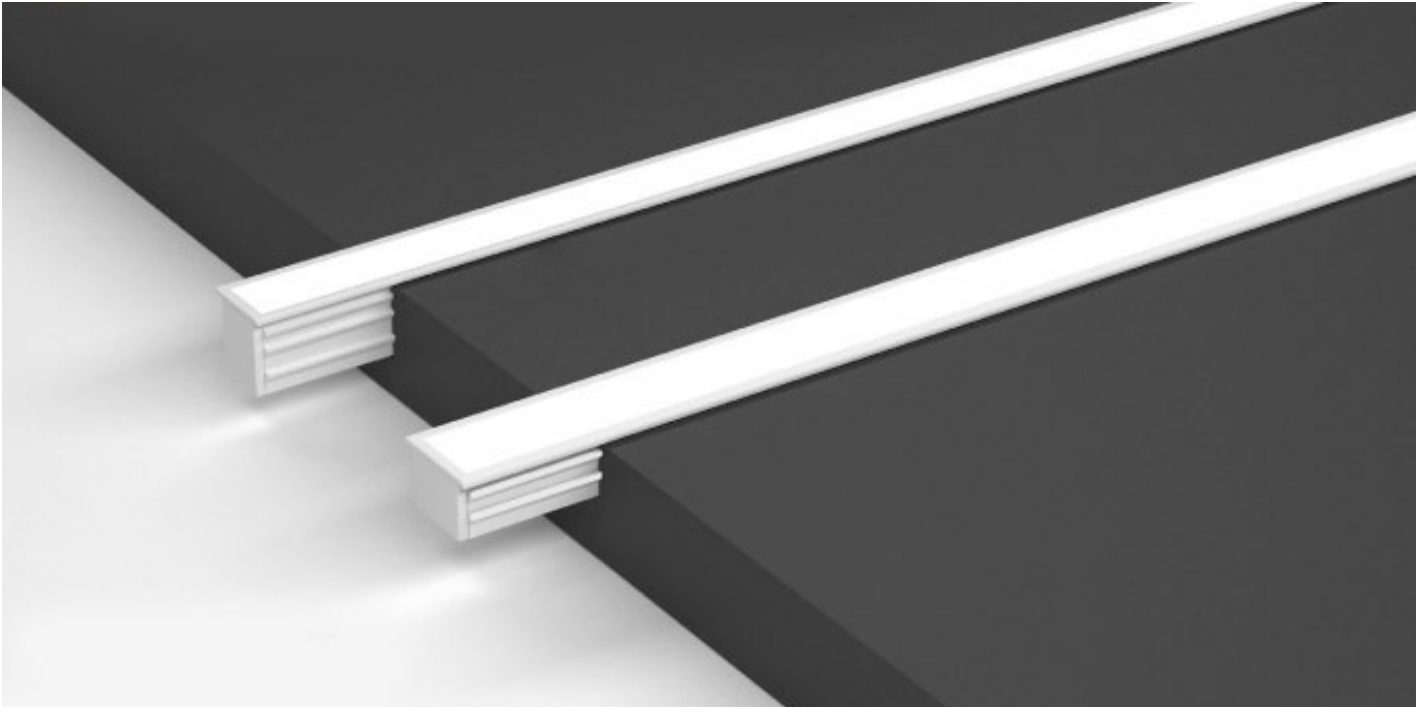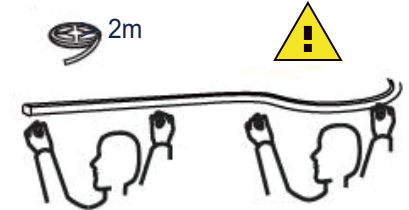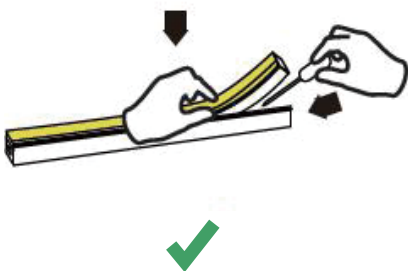

Installation of carrier

1. When installing the LED strip, install it from both ends at the same time, installation from one direction is prohibited.
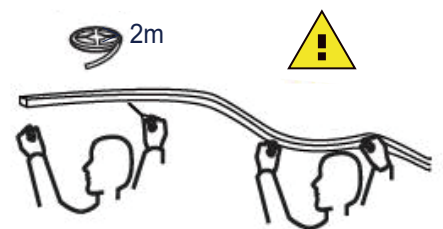

⚠ If the length of LED strip is over 2m, it is recommended to install by two persons.

2. Use tool to disassemble carefully, and do not pull the LED strip directly.
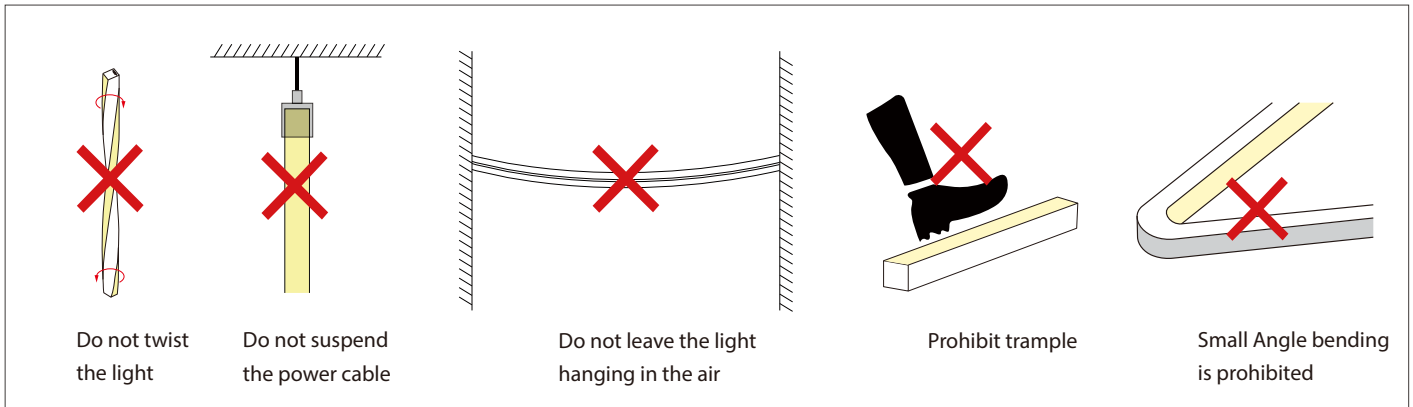

⚠ If the length of LED strip is over 2m, it is recommended to disassemble by two persons.
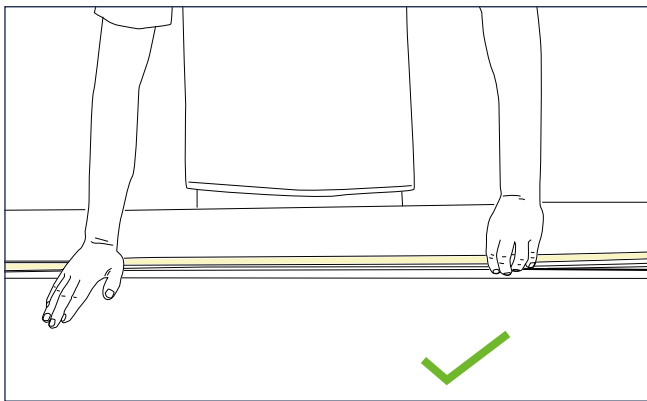
Cautions

- Please notice that the strips are not bendable to all directions. As the appropriate specific shape and degree, please follow the following instruction.

- LED strips are low voltage products, you must use the power supply (transformer). Please don't connect the led strip directly to the AC 110V or AC 220V. Otherwise, it will burn out the LED strips and lead to safety (security) accidents.

- Please read the specifications thoroughly before installation by professional staff to make sure the safe use.

Wrong bending way

| Do not twist the light | Do not suspend the power cable | Do not leave the light hanging in the air | Prohibit trample | Small Angle bending is prohibited |

Correct bending way

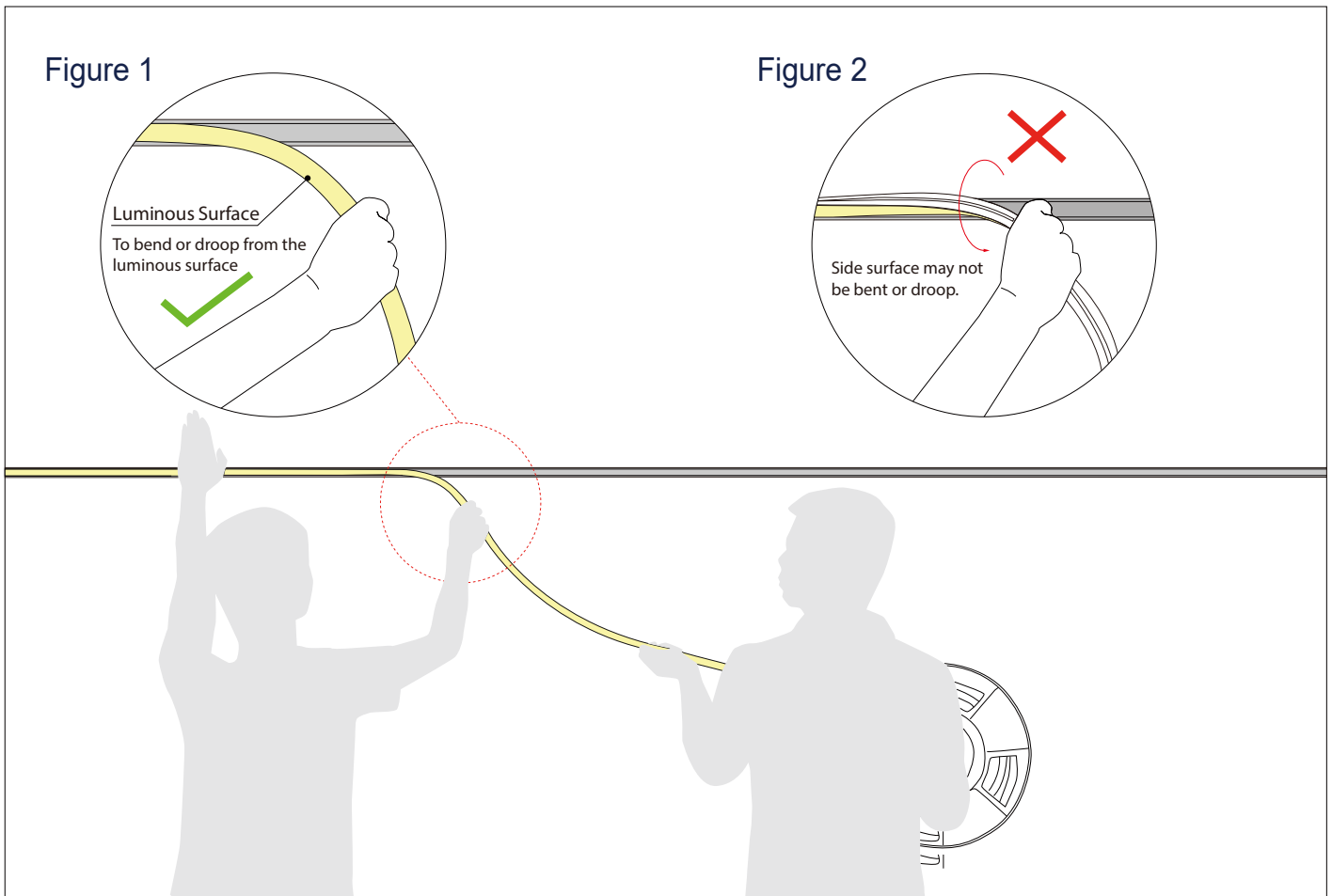- Please press the led strip with your palm to slowly insert the led strip into the groove, and gently straighten the led strip above the groove with your right hand.
- Try to keep the led strip in a flat state during the installation process.
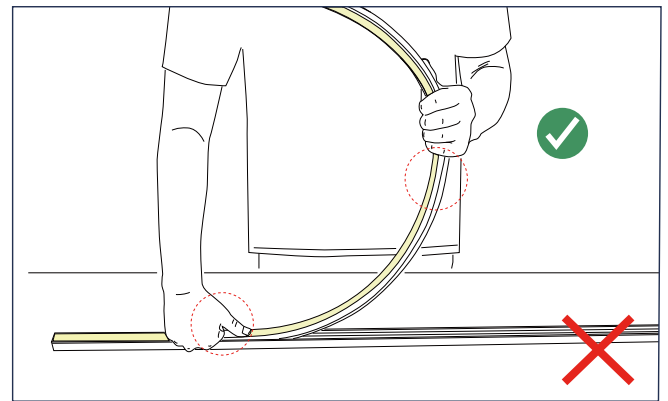
- Do not press the led strip with a single finger, it is easy to damage the internal parts of the led strip.
- The bent arc of the led strip should not be too large during installation.

Installation Precautions -- Side Mounted

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

Figure 1

Luminous Surface

To bend or droop from the luminous surface

✓

Figure 2

✗

Side surface may not be bent or droop.

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.

Package of neon strip (5M/Roll)

5m/Roll

Pack in Anti-Static bag

Put 15 plates per carton

Pack with Outer Carton
Size: L41*W41*H32CM