Flex Led Neon Light

N1023D
FC-N1023D

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

Indoor | outdoor | CE | RoHS | WARRANTY 3 YEARS | Anti yellowing
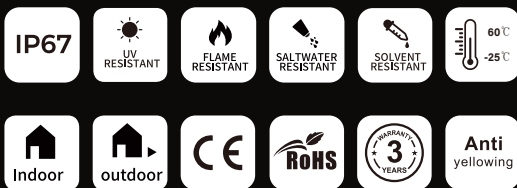
Product Specification

LED strip colloid specifications comparison

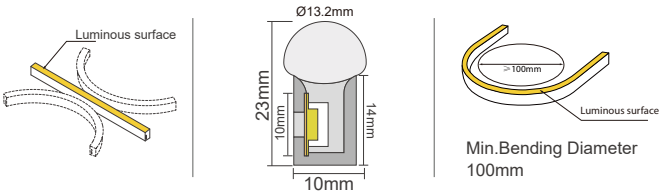| Main parameters \ Materials	Silicone flexible led strip	PVC flexible led strip	Notes
Colloid features in -40℃	No crack after 30 days	Totally cracked	The low temperature resistant of silicone is superior than PVC or epoxy materials
Colloid features in 120℃	No obvious change after 72 hours	Colloid changed 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.

Specification

Bending (Silicone)

Ø13.2mm
23mm
10mm
14mm
10mm

Min.Bending Diameter
100mm

Luminous surface
>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	N1023D	Size (mm)	10*23
PCB Limited (mm)	10mm	IP Grade	IP67
Working Temperature	–25 to 60°C	N.W.(G/M)	295g

Dimensions of light

300mm
L≈5000mm
300mm
23mm
10mm
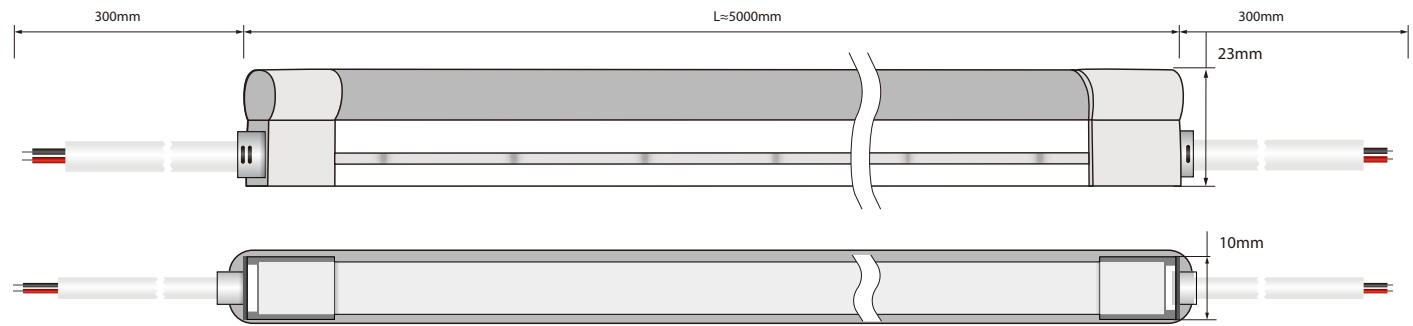
VARIOUS CONNECTIONS

Injection molded endcap.

front cable entry

closed

ShenZhen Surmountor Lighting Co., LTD

TEL: +86-0755-27926119/27926326   E-mail: sales@surmountor.com   ADD:4/F, No.2 Factory Building, Dayang, No.4 Tangwei Industrial Avenue, FuHai Street, Bao'an, Shenzhen, China
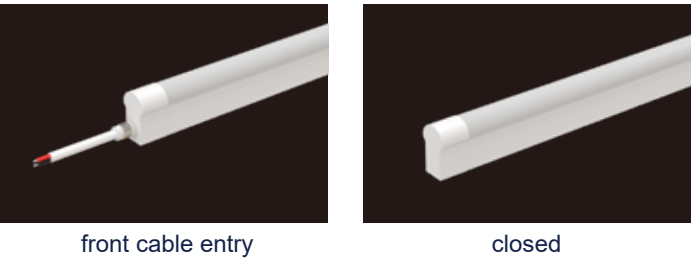
Silicone glue endcap

front cable entry	side cable entry	bottom entry	closed

N1023D-Accessories
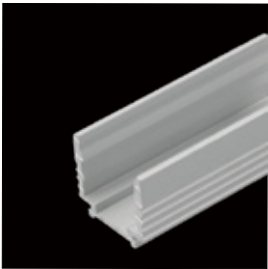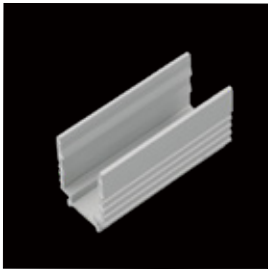
LED profile: 1m/pc	Mounting clip (Optional)	Curved profile 1m/pc	Glue
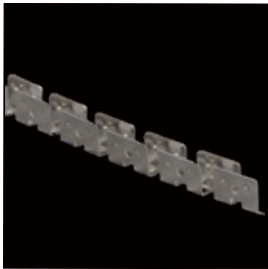
Closed silicone endcap	Silicone endcap -bottom	Silicone endcap -side	Silicone endcap -front

Cable

Cable Type	Schematic Diagram	Specification	Core	Electrical Properties
PVC Cable		0D: 4.0mm /Inner core: 20AW/G	●●	Red V+,Black V-
		0D: 4.5mm /Inner core: 20AW/G	●●○	Black V+,White W,Yellow WW
		0D: 4.5mm /Inner core: 20AW/G	●●●●	Red V+,Blue&Black GND,Green DATA
		0D: 4.5mm /Inner core: 20AW/G	●●●●	Black V+,Blue B,Green G,Red R
		0D: 6.0mm /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.

Recommend LED strip parameters

(1) N1023D-WHT

SMD2835, 120 LED/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		671	604	50mm	6	120	24V	14.4W	10 meters from one end
	NW		710	639						
	CW		697	627						

(2) N1023D-WHT

SMD2835, 160 LED/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		967	870	50mm	8	160	24V	14.4W	10 meters from one end
	4000K		1000	900						
	6000K		1056	950						

(3) N1023D-TW

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		253	228	50mm	6	120	24V	7.2W	10 meters from one end
	CW		285	257						
	WW+CW								14.4W	

SMD3527,120LED/meter, Dual color.

(4) N1023D-RGB

3838 RGB 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-3838RGB120-24V	Red		57	50mm	6	120	24V	4.8W	10 meters from one end
	Green		169						
	Blue		36						
	RGB							14.4W	

(5) N1023D-RGBW

5050 RGBW, 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		46	62.5mm	6	96	24V	3.75W	10 meters from one end
	Green		129						
	Blue		25						
	WW		130						
	NW		137						
	CW		135						
	RGBW							15W	

(6) N1023D-SPIRGB

5050 RGB, 84 LED/Meter

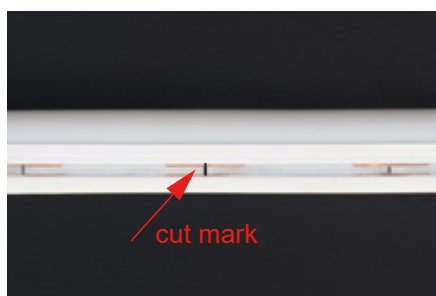| Part number	Color		Lumen/M	Unit cut	Cut every (LEDS)	LED Qty/M	Voltage	Power/M	Max run length
SUR-5050RGBIC-84-24V	Red		59	71.43mm	6	84	24V	5W	10 meters from one end
	Green		176						
	Blue		37						
	RGB							15W	

(7) FC-N1023D WHT

SMD2835, 180 LED/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		716	644	cut anywhere	1	180	24V	14.4W	10 meters from one end
	NW		754	679						
	CW		741	667						

Product system solutions

AC 100-240V

DC12/24V   Power Supply

(Optional)
Controller

Direct Cable Output

Cable output from bottom

Cable output from left

End cap without hole

LED

Direct outlet plug

Mounting Clips
(Optional)

End cap without hole
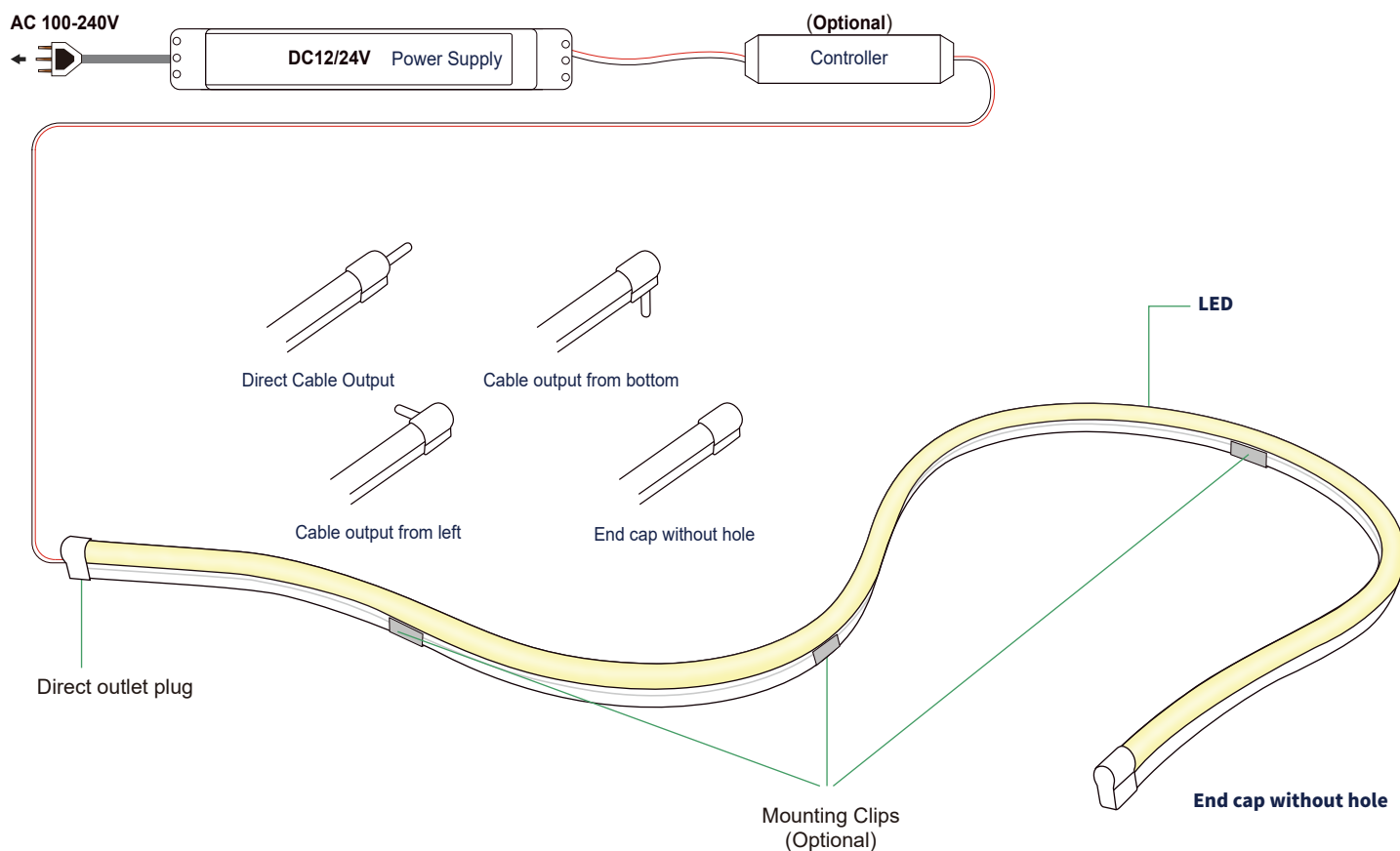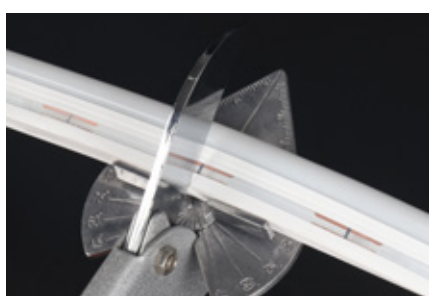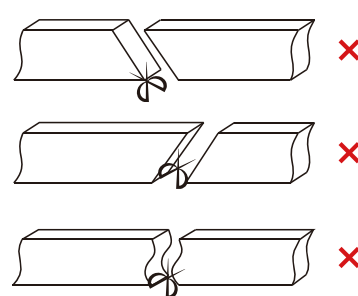
Cut mark

cut mark

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

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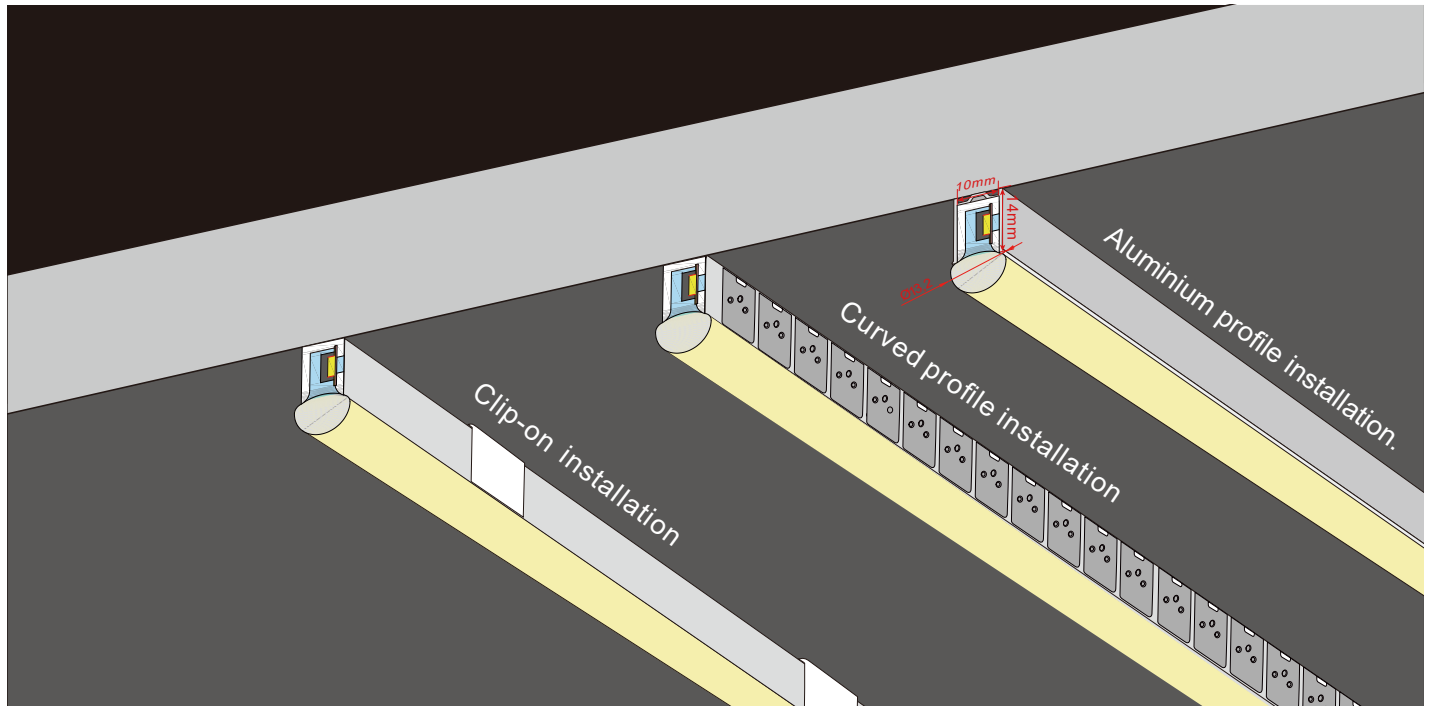exact cut position of the light strip.

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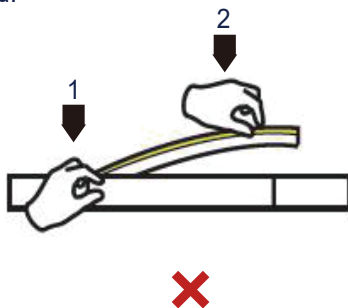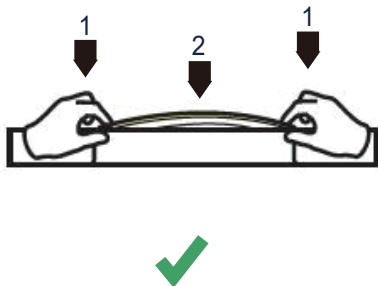into a bevel and arc section.

Installation

This product is suitable for surface mounting.

Clip-on installation
Curved profile installation
Aluminium profile installation.
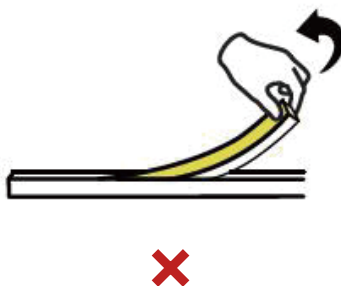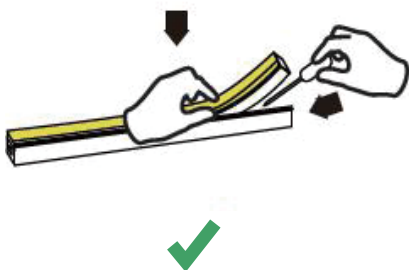
Installation of carrier

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.

2m

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.

2m

ShenZhen Surmountor Lighting Co., LTD

TEL: +86-0755-27926119/27926326   E-mail: sales@surmountor.com   ADD:4/F, No.2 Factory Building, Dayang, No.4 Tangwei Industrial Avenue, FuHai Street, Bao'an, Shenzhen, China   07
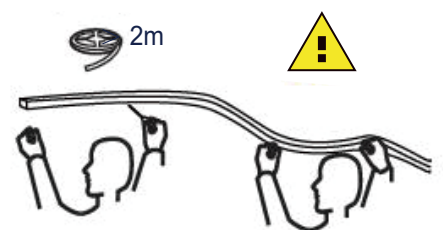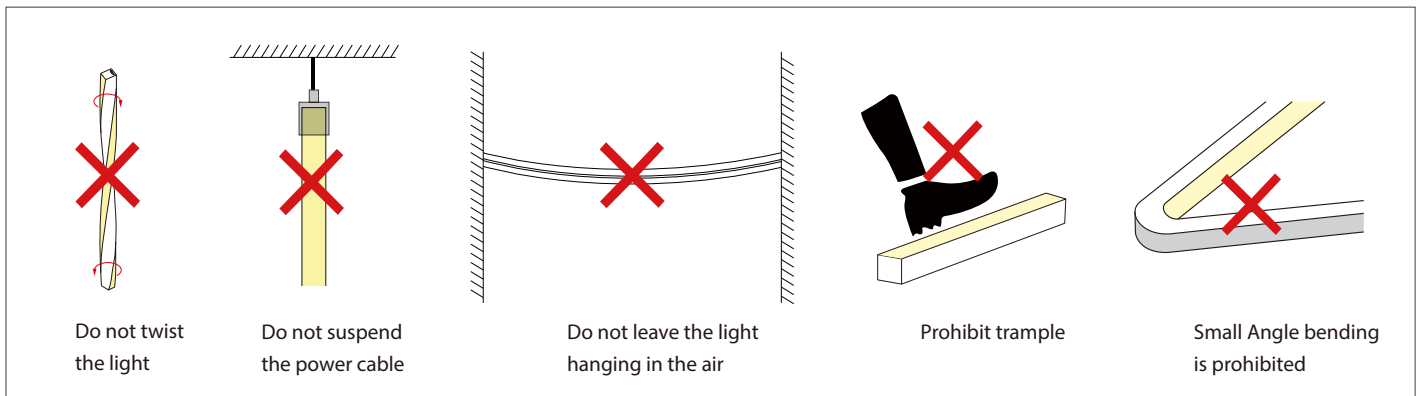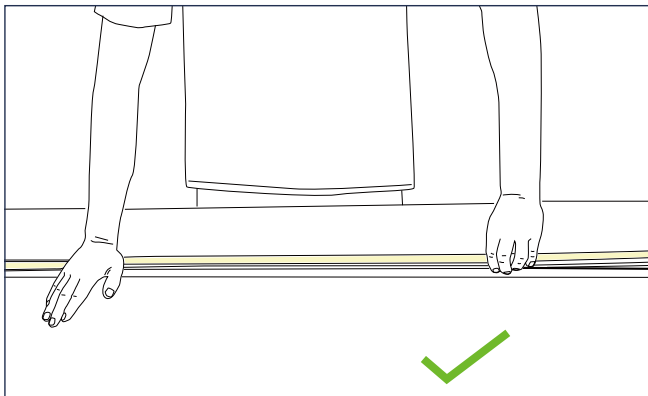
Cautions

- 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

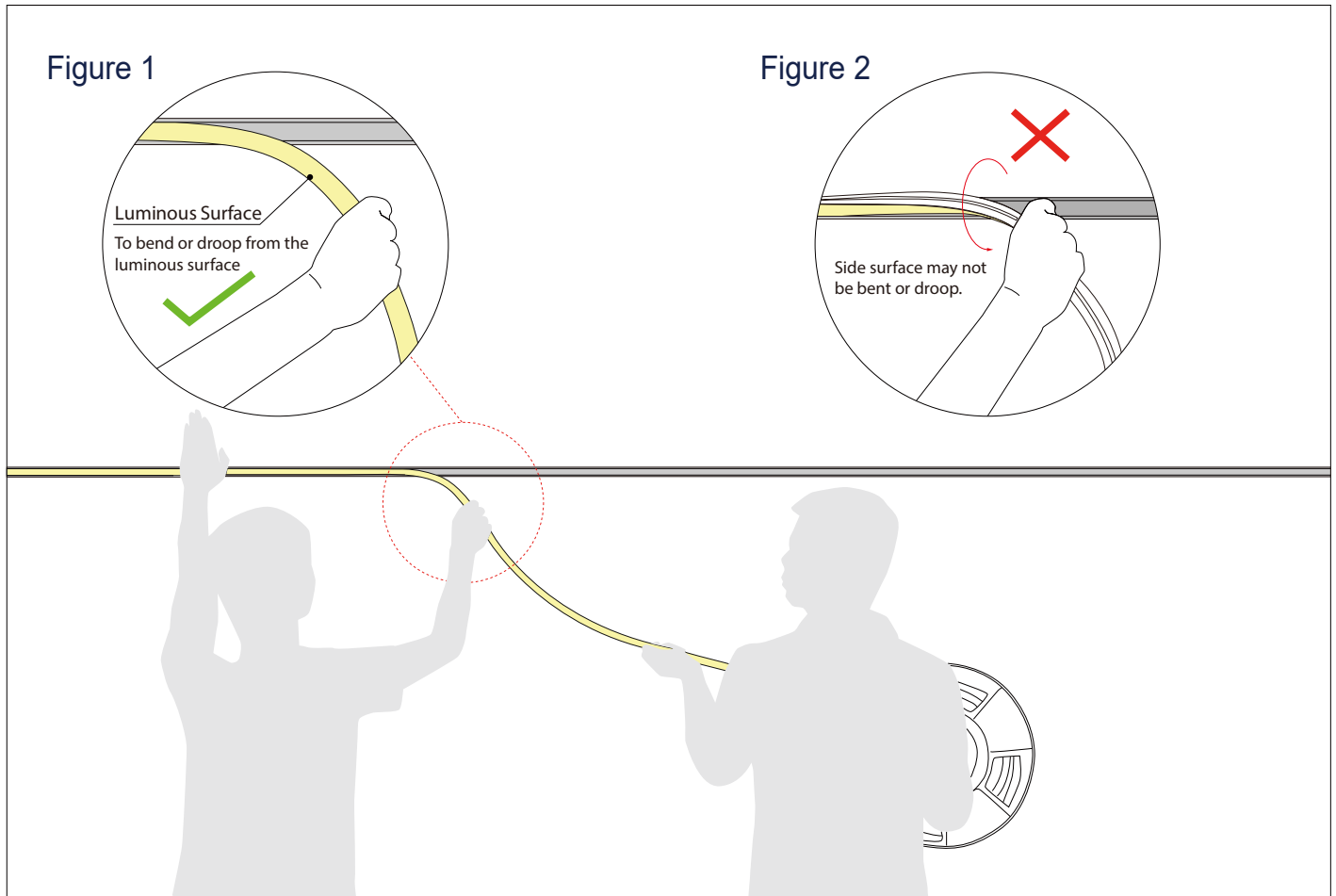| Do not twist the light | Do not suspend the power cable | Do not leave the light hanging in the air | Prohibit trample | Small Angle bending is prohibited |

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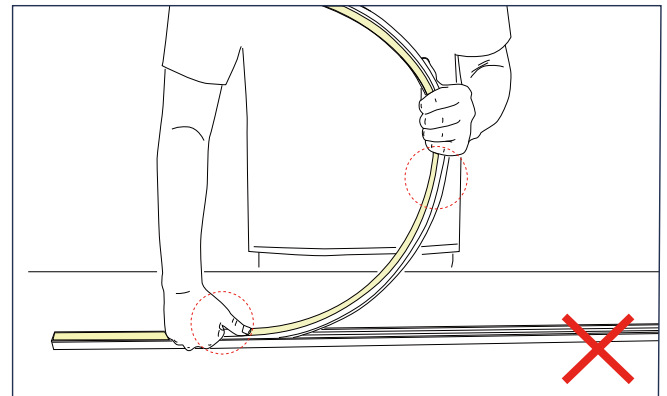
- Do not press the led strip with a single finger, it is easy to damage the internal parts of the led strip.
- The bent arc of the led strip should not be too large during installation.

ShenZhen Surmountor Lighting Co., LTD

TEL: +86-0755-27926119/27926326   E-mail: sales@surmountor.com   ADD:4/F, No.2 Factory Building, Dayang, No.4 Tangwei Industrial Avenue, FuHai Street, Bao'an, Shenzhen, China   08

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