SurMountor

Flex Led Neon Light

N1615D-TOP
FC-N1615D-TOP

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

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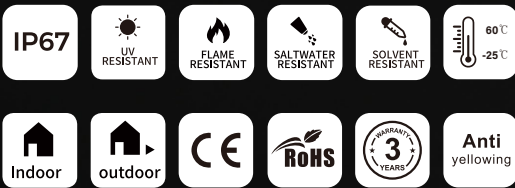
Product Specification
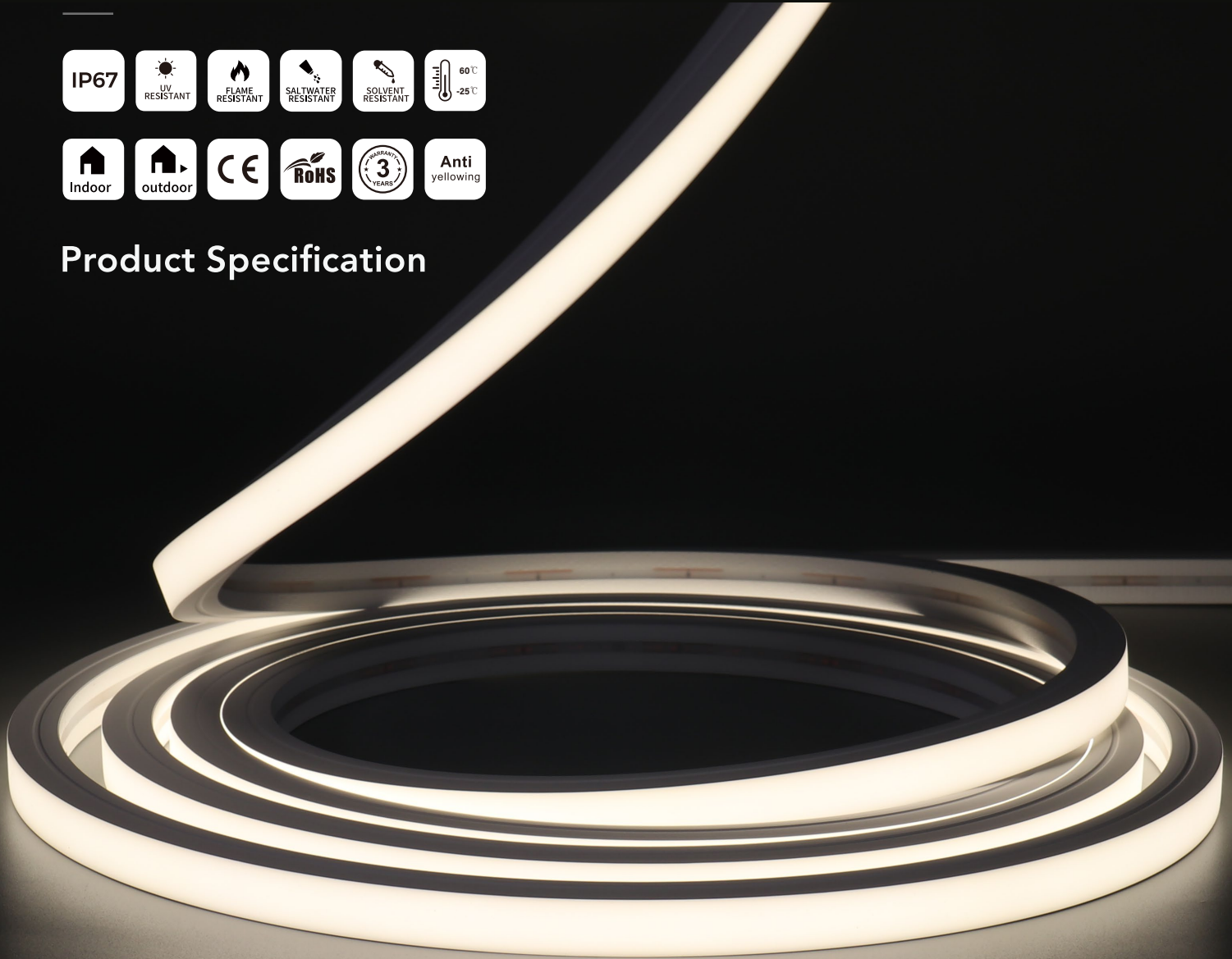
LED strip colloid specifications comparison

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

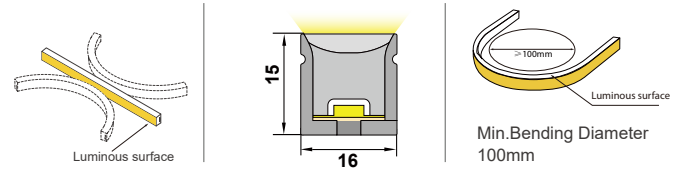- Anti-yellowing and heat resisting silicone glue, chemical resistance acid and alkaline,available for extremely terrible outdoor environment.
- Uniform and soft luminance, no light spot.
- Super brightness large chip, golden wire welded and copper led holder for quicker heat dissipation, higher stability,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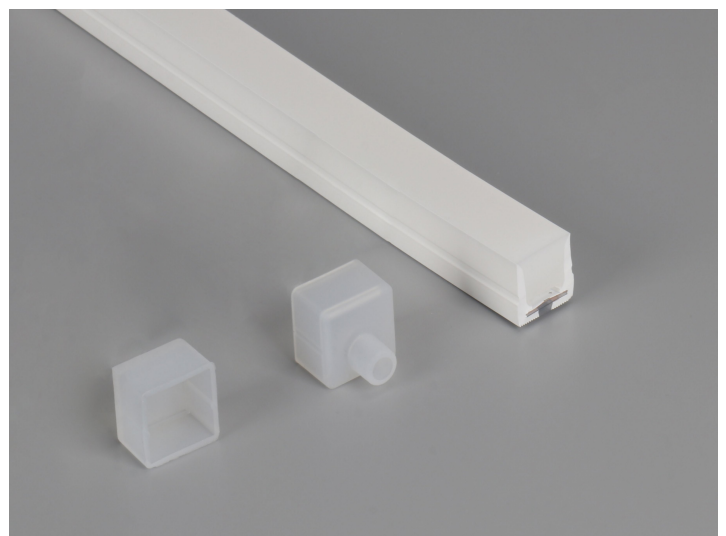
Specification

Bending (Silicone)

Min.Bending Diameter 100mm

15

16

IP67 — IP67 Protection
Flame Resistant
UV Resistant
Solvents Resistant
Saltwater Resistant

Dirt Resistant
CRI90
3 Years Warranty
Ambient Working — 60℃ / -25℃
Anti yellowing — Anti Yellowing

Model Number	N1615D-TOP	Size (mm)	16*15
PCB Limited (mm)	12mm	IP Grade	IP67
Working Temperature	–25 to 60°C	N.W.(G/M)	330g

Dimensions of light

300mm | L≈5000mm | 300mm

15mm

16mm
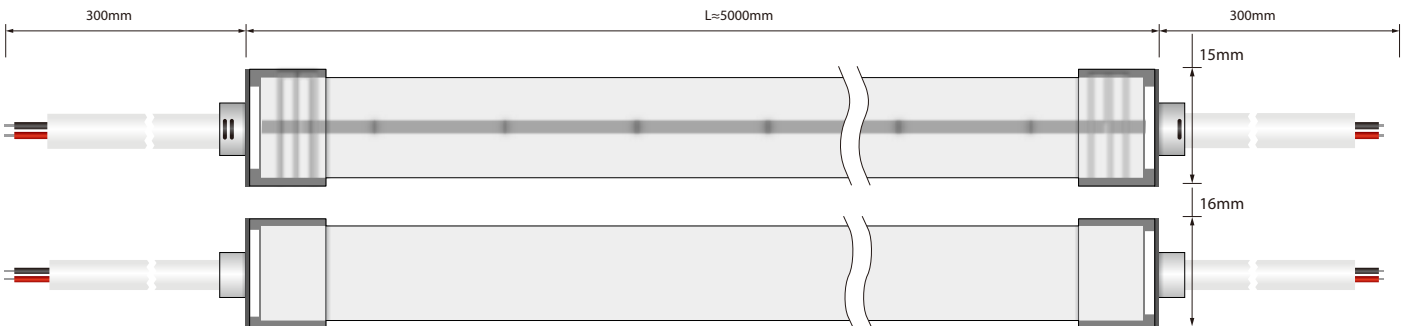
VARIOUS CONNECTIONS

Injection molded endcap.

front cable entry

side cable entry

bottom entry

closed

Silicone glue endcap

front cable entry

side cable entry

bottom 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
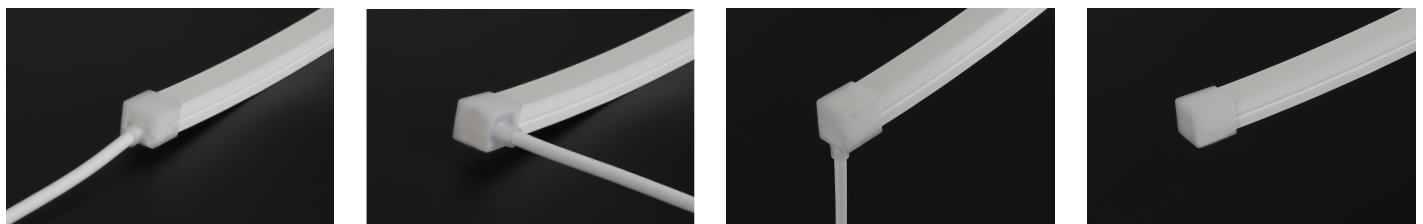
VARIOUS CONNECTIONS

Field install endcap

front cable entry

closed

Recommend LED strip parameters

(1) N1615D-TOP 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	901	811	50mm	6	120	24V	14.4W	5 meters from one end
	NW	952	857						
	CW	935	842						

(2) N1615D-TOP 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	1294	1165	50mm	8	160	24V	14.4W	5 meters from one end
	4000K	1344	1210						
	6000K	1417	1275						

(3) N1615D-TOP 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	395	356	50mm	6	120	24V	7.2W	5 meters from one end
	CW	404	364						

(4) N1615D-TOP RGB

3838RGB LED Strip,120LED/Meter								
Part number	Color	Lumen/M	Unit cut	Cut every (LEDS)	LED Qty/M	Voltage	Power/M	Max run length
SUR-3838RGB-120-24V	Red	76	50mm	6	120	24V	4.8W	5 meters from one end
	Green	227						
	Blue	48						

Recommend LED strip parameters

(5) N1615D-TOP RGBW

5050RGBW, 96LED/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	🟥	62	62.5mm	6	96	24V	3.75W	5 meters from one end
	Green	🟩	173						
	Blue	🟦	33						
	WW	🟨	175						
	NW	⬜	184						
	CW	⬜	181						

(6) N1615D-TOP SPIRGB

5050RGBIC, 84LED/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	🟥	80	71.43mm	6	84	24V	5W	5 meters from one end
	Green	🟩	238						
	Blue	🟦	50						

(7) N1615D-TOP RGBW-DMX512

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						

(8) FC-N1615D-TOP WHT
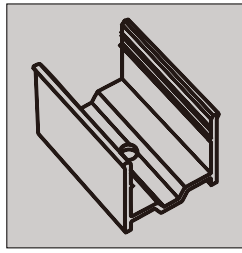
SMD2835, 180LED/meter

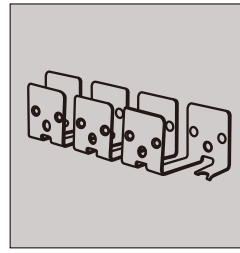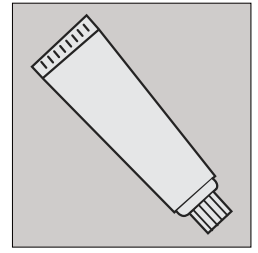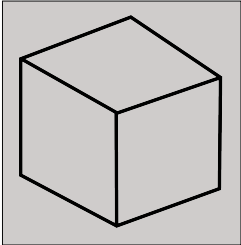| Part number	Color		Lumen/M CRI 80	Lumen/M CRI 90	Unit cut	Cut every (LEDS)	LED Qty/M	Voltage	Power/M	Max run length
SUR-2835FW180-24V	WW	🟨	960	864	cut anywhere	1	180	24V	14.4W	5 meters from one end
	NW	⬜	1011	910						
	CW	⬜	994	895						

N1615D-TOP-Accessories
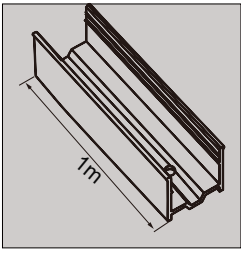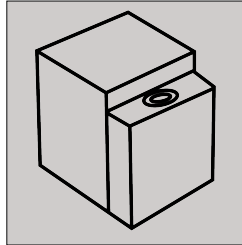
LED profile:
1m/pc

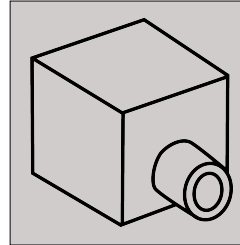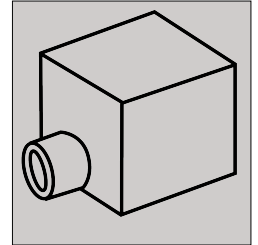Mounting clip
(Optional)

Curved profile
1m/pc

Glue

Closed silicone
endcap

Silicone endcap
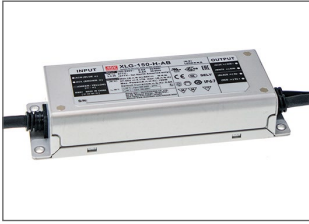-bottom

Silicone endcap
-front

Silicone endcap
-side

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

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: 4.5mm /Inner core: 20AW/G	●●●●	Red V+,Blue&Black GND,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.

ShenZhen Surmountor Lighting Co., LTD

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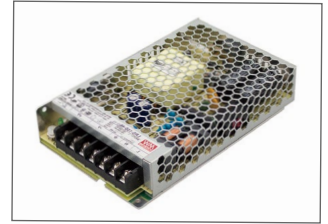
Driver & Cotronller

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 128MB-32GB

For RGB IC- SP105E Magic controller
*For more info please contact our
sales

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. .

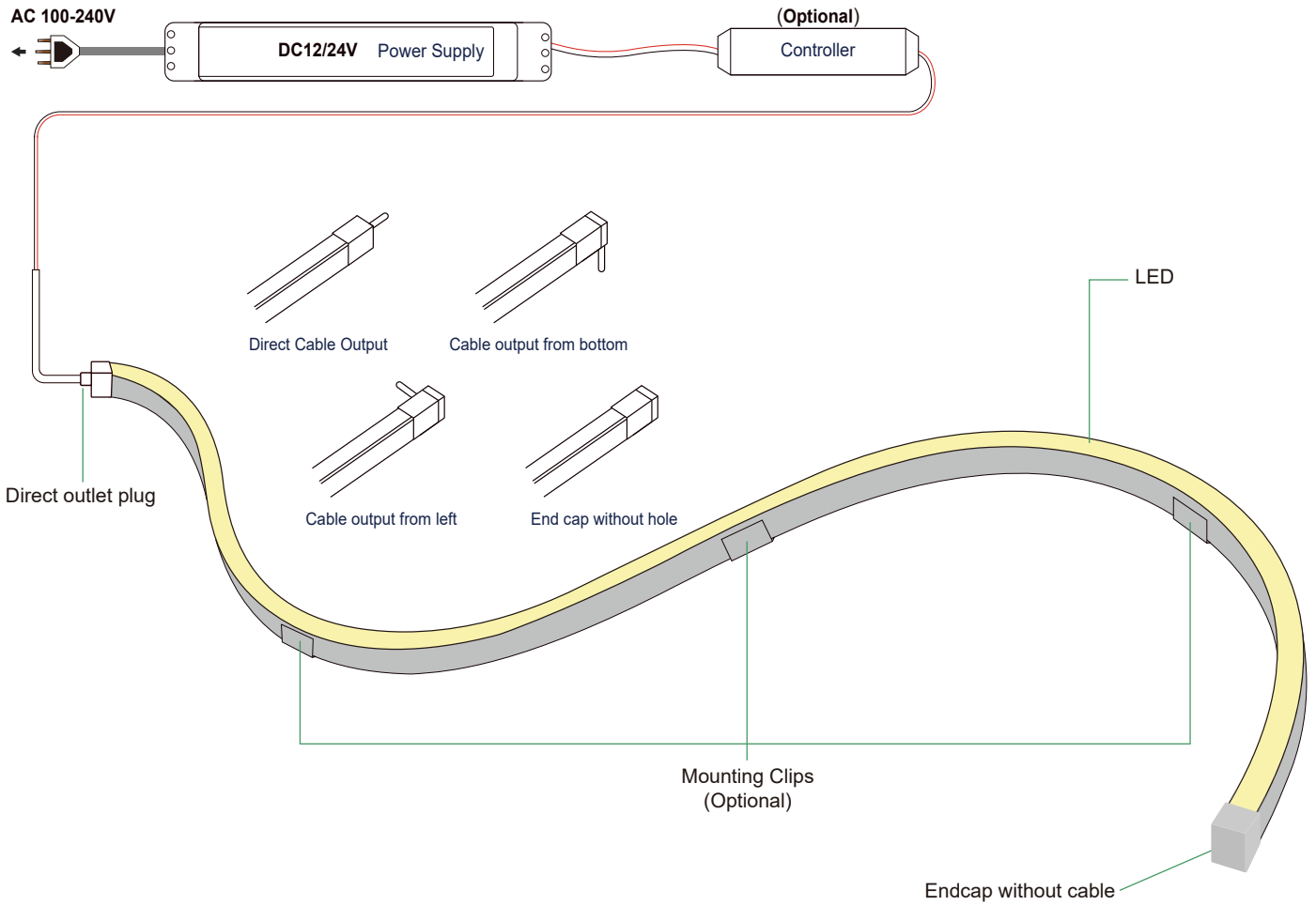Dimmer:1 Channel DC12V/24V, 6A,
Dimmer, RF remote with finger touch
ring.

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 Cable Output

Cable output from bottom

Cable output from left

End cap without hole

Direct outlet plug

Mounting Clips
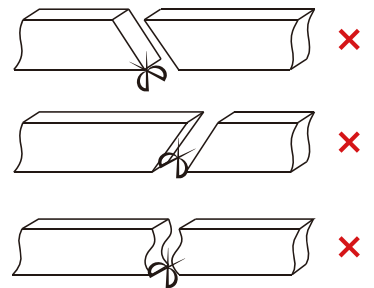(Optional)

Endcap without cable

Cut mark

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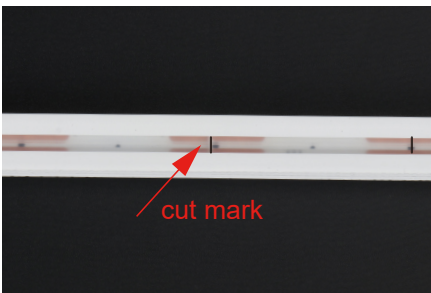
Remarks: There is a transparent window at the bottom of the light strip,

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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×

×

Installation

This product is suitable for surface mounting or embedded sealing installation. Recommended slot size: Width 16mm, Depth 15mm, gently press the neon sleeve into the slot.

16mm
15mm

Recessed mounted

Keel type installation

Clip-on installation
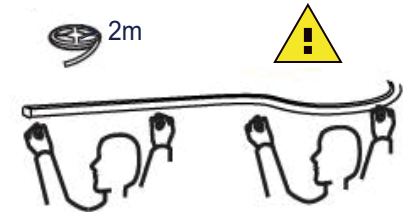
Aluminium profile installation
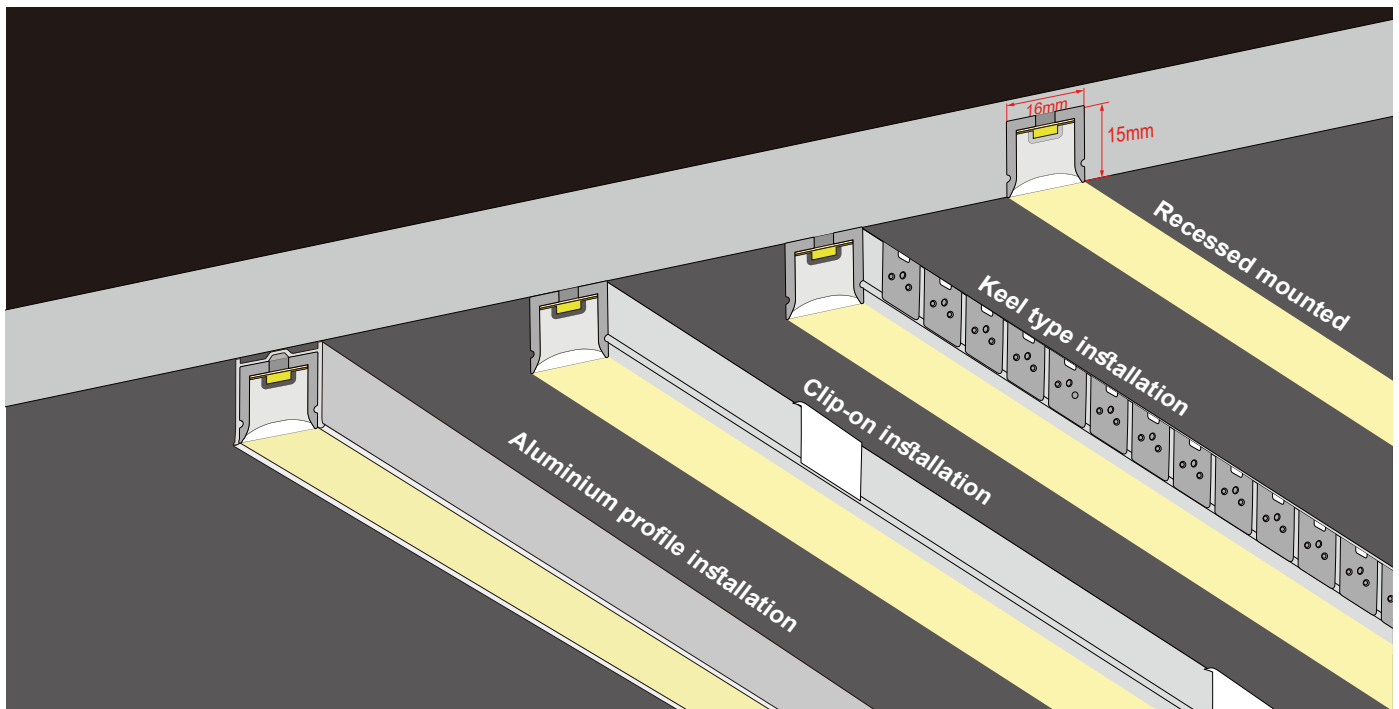
Installation of carrier

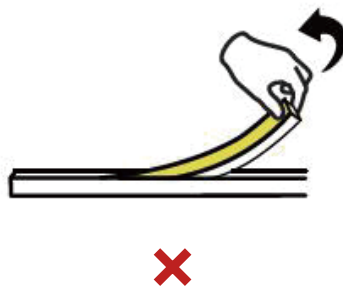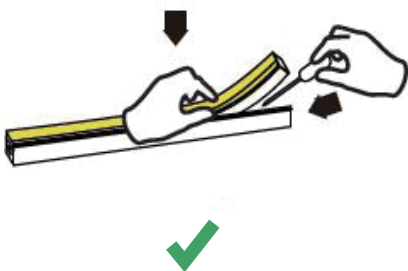1. When installing the LED strip, install it from both ends at the same time, installation from one direction is prohibited.
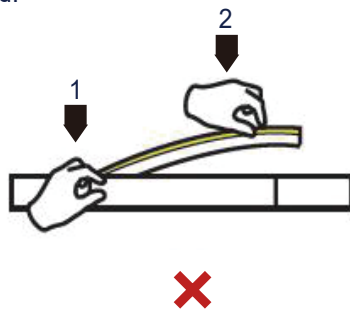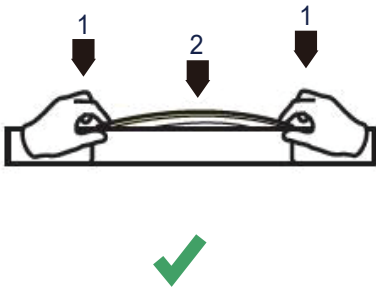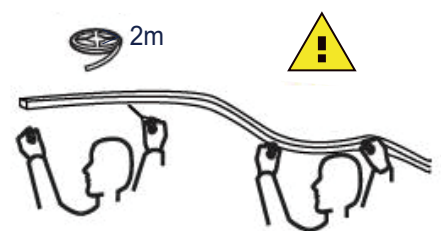

⚠ If the length of LED strip is over 2m, it is recommended to install by two persons.

2m

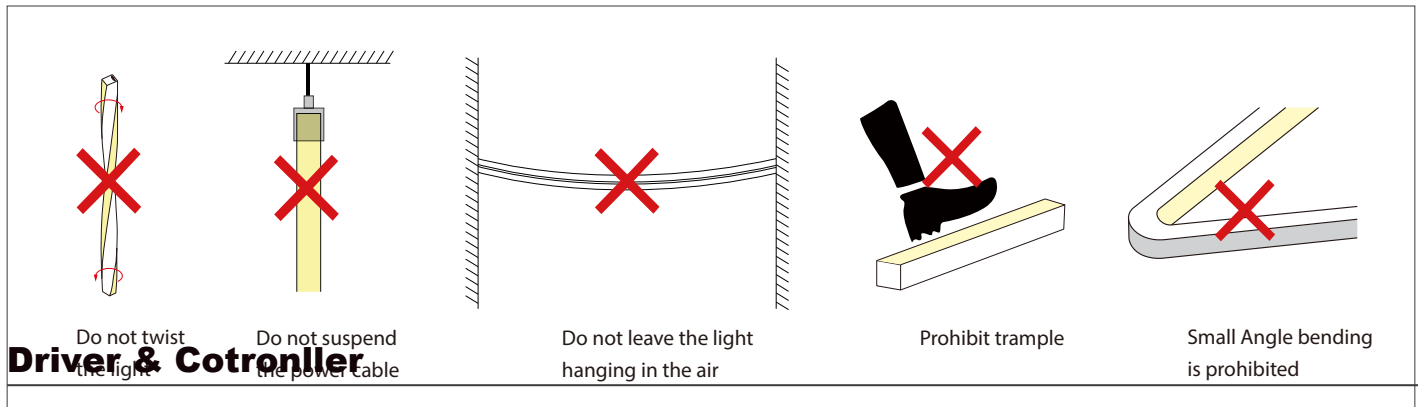2. Use tool to disassemble carefully,and do not pull the LED strip directly.

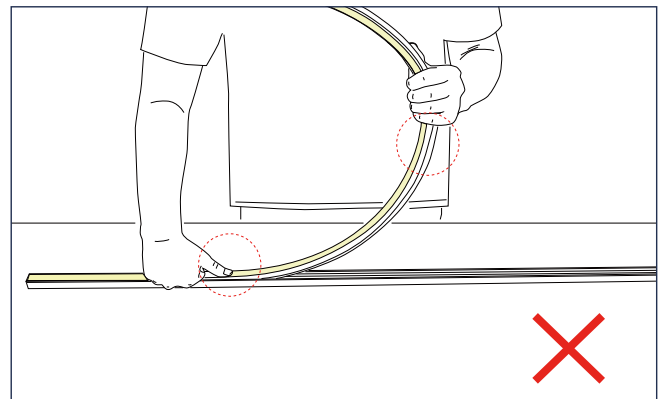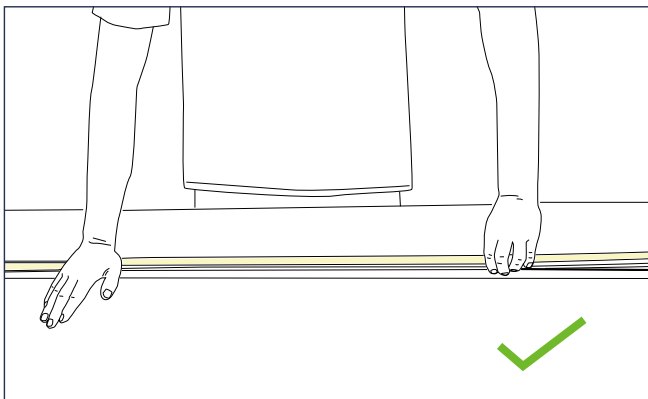⚠ If the length of LED strip is over 2m, it is recommended to disassemble by two persons.

2m

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 |

Driver & Cotronller

Correct bending way

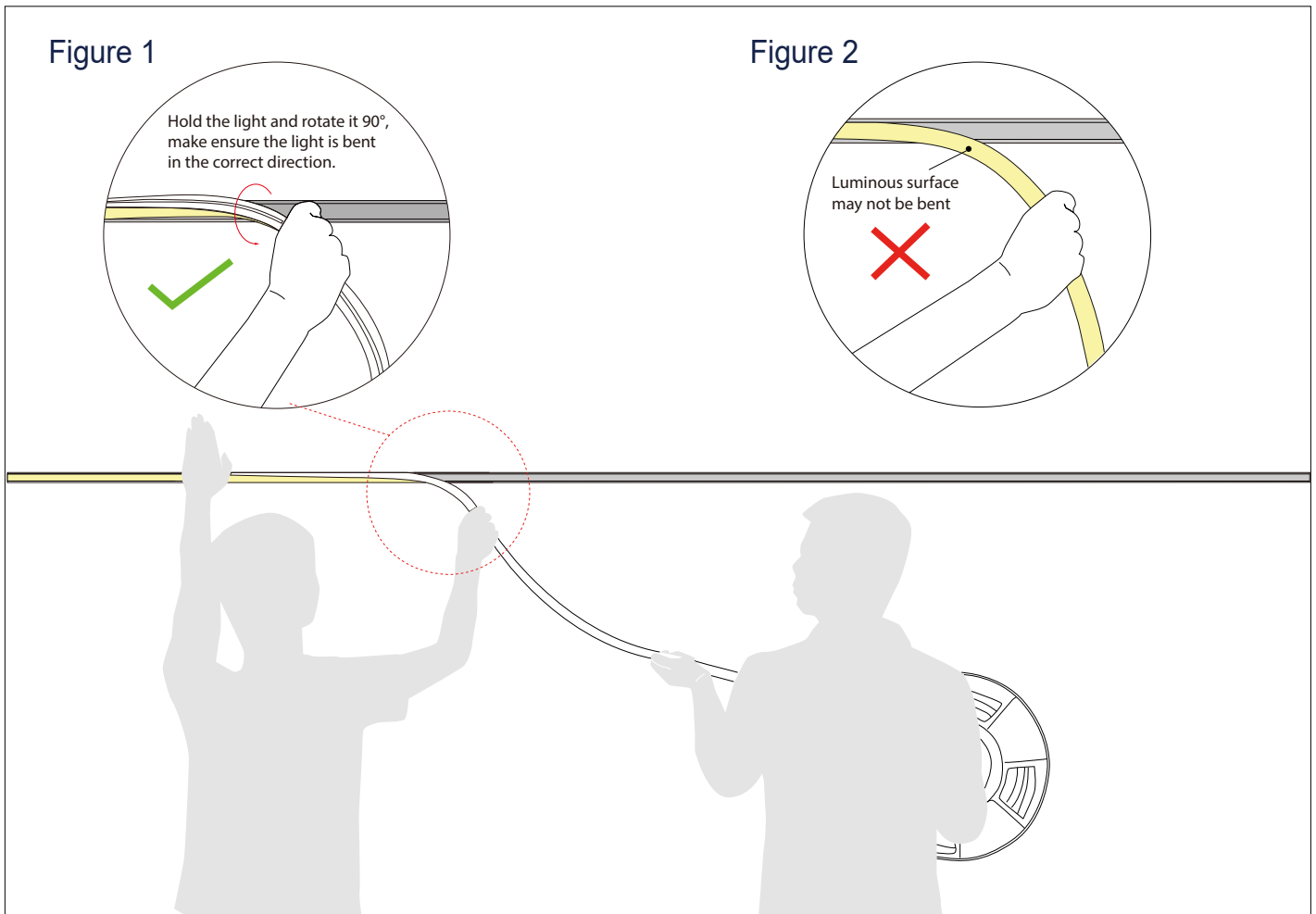- Please press the led strip with your palm to slowly insert the led strip into the groove, and gently straighten the led strip above the groove with your right hand.
- Try to keep the led strip in a flat state during the installation process.

- 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

Hold the light and rotate it 90°, make ensure the light is bent in the correct direction.

Figure 2

Luminous surface may not be bent

✕

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.

- Do not bend the luminous surface to the side. 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