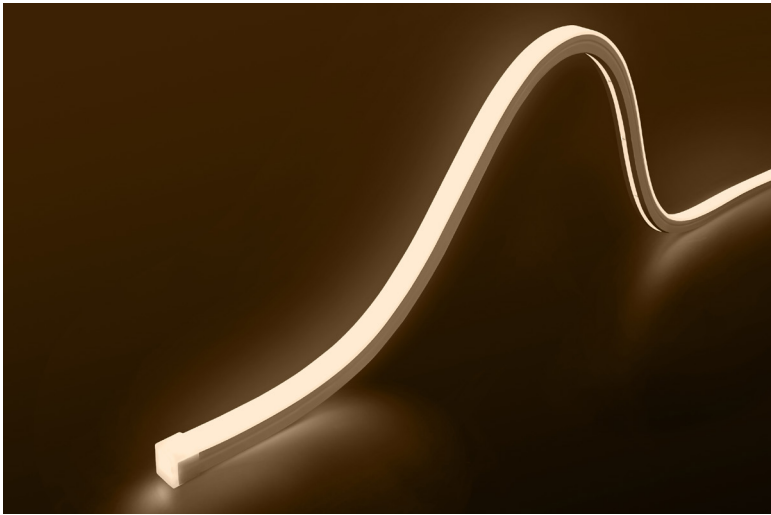


# LED

## NEON FLEX

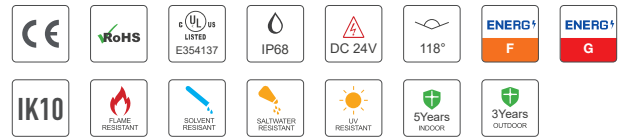
### N2-8 Pro





Features

- Color options: Single color;
- Strong weather resistance, stable performance;
- Two options: long run series and high brightness series;
- Available in both top and side bending, perfectly fixing for many irregular structures;
- PCB designed in parallel with function of skipping the broken cuttable unit;
- Constant current models (Diode) support PWM dimming up to 10KHz; constant voltage models support PWM, 0~10V, DALI, and DMX dimming.
- Warranty: 5 years indoors, 3 years outdoors;



Optical & Electrical Parameters

Constant current (Diode)

Model No.	Voltage	CRI	CCT	Lm/m	Lm/W	Energy efficiency class	W/m
N2-8 Pro (H)-CC	24V DC	>90	2700K	698	45	<b>G</b>	15.36
			3000K	744	48	<b>F</b>	
			4000K	775	50	<b>F</b>	
			5000K	772	50	<b>F</b>	
			6000K	714	47	<b>F</b>	
			R	164	11		
			G	357	23		
			B	72	5		
			Y	147	10		
			O	198	13		
N2-8 Pro(L)-CC	24V DC	>90	2700K	458	48	<b>F</b>	9.6
			3000K	469	49	<b>F</b>	
			4000K	498	52	<b>F</b>	
			5000K	491	51	<b>F</b>	
			6000K	483	50	<b>F</b>	
			R	101	11		
			G	255	27		
			B	46	5		
			Y	104	11		
			O	137	14		

Constant voltage

Model No.	Voltage	CRI	CCT	Lm/m	Lm/W	Energy efficiency class	W/m
N2-8 Pro(H)-CV	24V DC	>90	2700K	725	47	<b>F</b>	15.36
			3000K	774	50	<b>F</b>	
			4000K	796	52	<b>F</b>	
			5000K	814	53	<b>F</b>	
			6000K	801	52	<b>F</b>	
N2-8 Pro(L)-CV	24V DC	>90	2700K	471	49	<b>F</b>	9.60
			3000K	500	52	<b>F</b>	
			4000K	506	53	<b>F</b>	
			5000K	521	54	<b>F</b>	
			6000K	517	54	<b>F</b>	

Basic Parameters

Constant current (Diode)

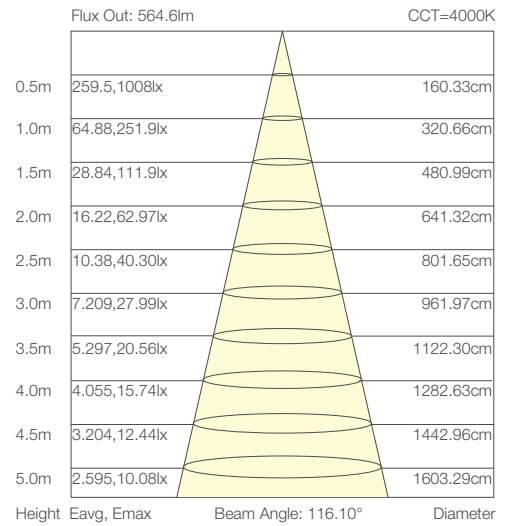
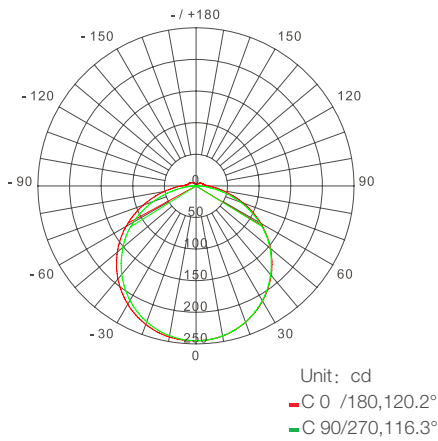
Model No.	LED QTY	Standard Run	Min. Cuttable Length	Working Temperature	Storage Temperature
N2-8 Pro(H)-CC	96pcs/m	10.0m	62.5mm	-20~+70°C	-20~+70°C
N2-8 Pro(L)-CC	96pcs/m	30.0m	62.5mm	-20~+70°C	-20~+70°C

Constant voltage

Model No.	LED QTY	Standard Run	Min. Cuttable Length	Working Temperature	Storage Temperature
N2-8 Pro(H)-CV	96pcs/m	10.0m	62.5mm	-20~+70°C	-20~+70°C
N2-8 Pro(L)-CV	96pcs/m	15.0m	62.5mm	-20~+70°C	-20~+70°C

Luminous Intensity Distribution Diagram

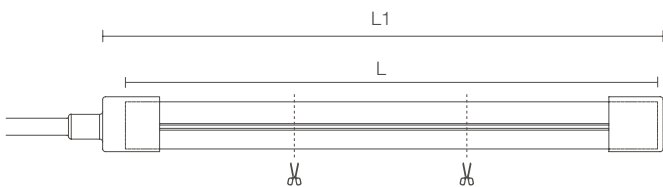
Average Illumination



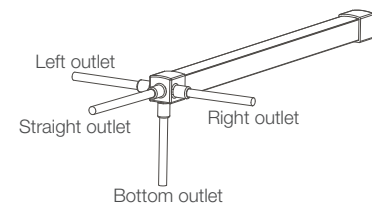
Note: the above two figures are tested with the sample N2-8 Pro-CC at CCT 4000K. For other data, please consult sales rep

Profile Drawings

Molding pressed (IP68)

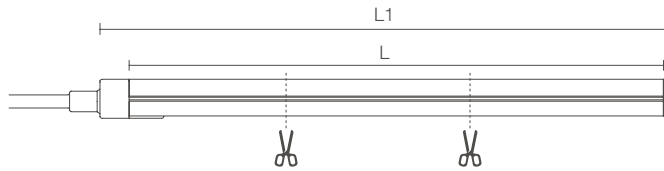


End Cap - Outlet Direction



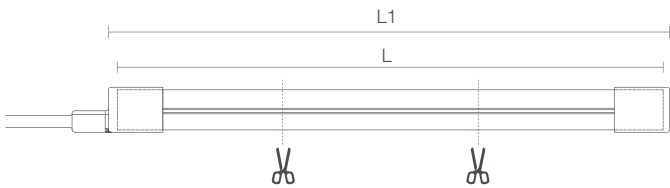
Model No.	L (mm / inch)	L1 (mm / inch)
N2-8 Pro(H)	10000±10 / 393.70±0.39	10010±10 / 394.04±0.39
N2-8 Pro(L)	15000±15 / 590.55±0.59	15010±15 / 590.94±0.59
N2-8 Pro(L)	30000±30 / 1181.10±1.18	30010±30 / 1181.50±1.18

Molding pressed (IP67)

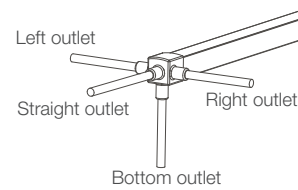


Model No.	L (mm / inch)	L1 (mm / inch)
N2-8 Pro (H)	10000±10 / 393.70±0.39	10012±10 / 394.17±0.39
N2-8 Pro (L)	15000±15 / 590.55±0.59	15012±15 / 591.02±0.59
N2-8 Pro (L)	30000±30 / 1181.10±1.18	30012±30 / 1181.57±1.18

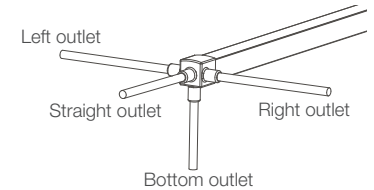
Glue Process (IP67)



End Cap - Outlet Direction



End Cap - Outlet Direction (Long Run Strip: length exceeds 20m)

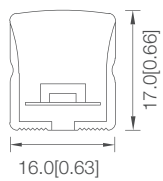


Model No.	L (mm / inch)	L1 (mm / inch)
N2-8 Pro (H)	10000±10 / 393.70±0.39	10007±10 / 393.98±0.39
N2-8 Pro (L)	15000±15 / 590.55±0.59	15007±15 / 590.83±0.59
N2-8 Pro (L)	30000±30 / 1181.10±1.18	30007±30 / 1181.38±1.18

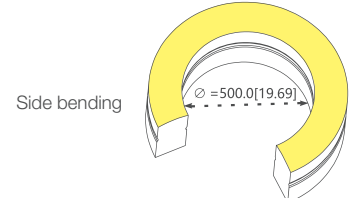
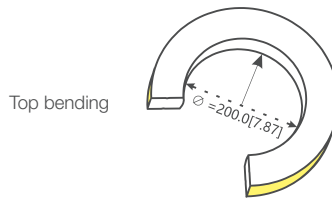
Note:

Within 10/15m, customizable lengths are multiples of the min cuttable length.  
Considering the voltage dropping, the length of the outlet wire should short than 1m.

Sectional view

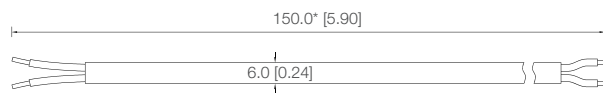


Bending diameter:

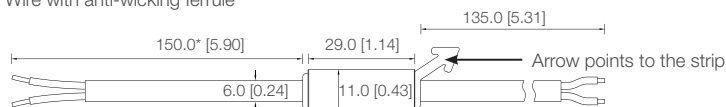


Wire Spec

General Wire



Wire with anti-wicking ferrule



Notes:

- You can choose one of the above two wires.
- 2/3/4/5 cores are available.
- The wire length marked with "\*" supports customization.
- Don't suggest ferrule in the water avoiding Oxidation.
- Do not disassemble or reprocess the ferrule; otherwise, we will not be responsible for the consequences.

Recommended power supply upon working length

Constant current

N2-8 Pro(H)-CC

Working Length	Measured Current	Rated Voltage	Measured Power	Recommended Power Supply	Power Supply Mode
1m	0.64A	24V DC	15.36 W	20 W	Single Feed
10m	5.6 A	24V DC	134 W	200 W	Single Feed

N2-8 Pro(L)-CC

Working Length	Measured Current	Rated Voltage	Measured Power	Recommended Power Supply	Power Supply Mode
1m	0.4 A	24V DC	9.6 W	15 W	Single Feed
30m	10.36 A	24V DC	248.64 W	300 W	Single Feed

Constant voltage

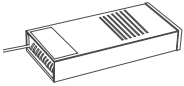
N2-8 Pro(H)-CV

Working Length	Measured Current	Rated Voltage	Measured Power	Recommended Power Supply	Power Supply Mode
1m	0.64A	24V DC	15.36 W	20 W	Single Feed
10m	5.4 A	24V DC	129.6 W	200 W	Single Feed

N2-8 Pro(L)-CV

Working Length	Measured Current	Rated Voltage	Measured Power	Recommended Power Supply	Power Supply Mode
1m	0.4 A	24V DC	9.6 W	15 W	Single Feed
15m	5.3 A	24V DC	127.2 W	200 W	Single Feed

Products and Tools



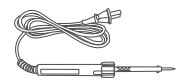
LED power supply



Cutter



Electric drill



Electric iron

Product accessories

Optional



Front cap

Model No.: ASY-N2-8 PRO-N00NNH-EC  
Dimensions: 30\*18\*18mm



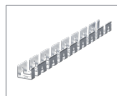
Closing End-cap

Model No.: ASY-N2-8 PRO-N00NNX-EC  
Dimensions: 18\*18\*19mm



Front cap (Side/Bottom Outlet)

Model No.: ASY-N2-8 PRO-N00NNS-EC  
Dimensions: 25\*30\*19mm



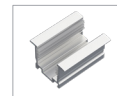
S-type Track

Model No.: ASY-N2-8 PRO-MNN1000-MT  
Dimensions: 1000\*17.4\*16.7mm



Aluminum Channel 35mm

Model No.: ASY-N2-8 PRO-A6NN0035-MT  
Dimensions: 35\*20\*21mm



Aluminum Channel 35mm (with wings)

Model No.: ASY-N2-8 PRO-A7NN0035-MT  
Dimensions: 35\*20\*30mm



Aluminum Channel 1000mm (with wings)

Model No.: ASY-N2-8 PRO-A7NN1000-MT  
Dimensions: 1000\*20\*30mm



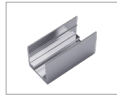
Aluminum Channel 1000mm

Model No.: ASY-N2-8 PRO-A6NN1000-MT  
Dimensions: 1000\*20\*21mm



Aluminum Channel 1000mm

Model No.: ASY-N2-8 PRO-A1NN1000-MT  
Dimensions: 1000\*19.3\*18.7mm



Aluminum Channel  
Model No.: ASY-N2-8 PRO-A3NN0035-MT  
Dimensions: 35\*19.3\*18.7mm



Aluminum Channel (with metal spring)  
Model No.: ASY-N2-8 PRO-A4NN0035-MT  
Dimensions: 35\*21.2\*19mm



Aluminum channel (with metal spring)  
Model No.: ASY-N2-8 PRO-A2NN1000-MT  
Dimensions: 1000\*21.2\*19mm

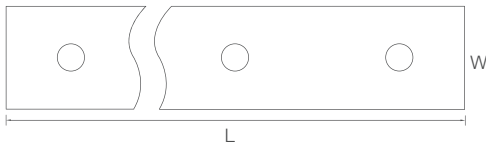


Silicone Glue  
Model No.: WR-7516  
Dimensions: 45g/pc



Screws  
Model No.: PA3  
Dimensions: PA3\*10mm

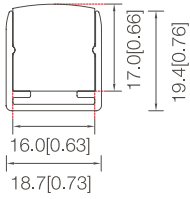
Aluminum channel diagram



Name	L(mm)	W(mm)	Type
S-type track	1000	17.4	Optional
Aluminum channel	35/1000	20	Optional
Aluminum channel X	X	/	Customized

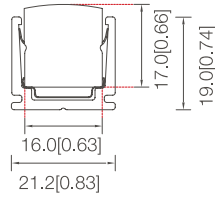
Note: The accessory quantity is changeable according to customers' needs

Profile Drawings (neon + aluminum channel)



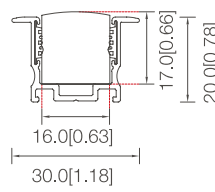
Aluminum channel (Aluminum clip)

ASY-N2-8 Pro-A1(A3)NNXXXX-MT



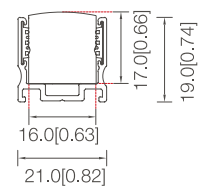
Aluminum channel (with metal spring)

ASY-N2-8 Pro-A2(A4)NNXXXX-MT



Aluminum channel with silicone (with wings)

ASY-N2-8Pro-A7NNXXXX-MT



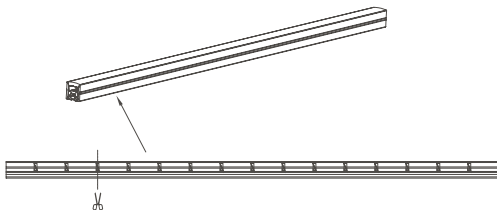
Aluminum channel with silicone (no-wings)

ASY-N2-8Pro-A6NNXXXX-MT

Installation Methods and Steps

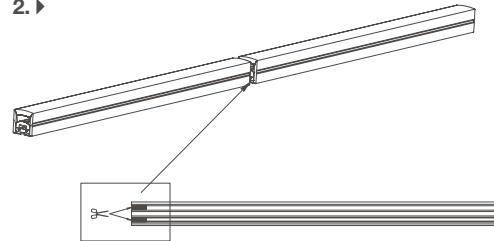
Cutting and Welding Guidance

1. ▶



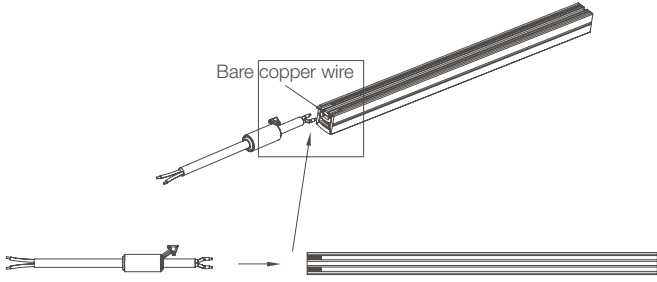
Find the designated cutting position on the neon strip and cut it in the middle. (Note: Ensure a flat and even cut.)

2. ▶



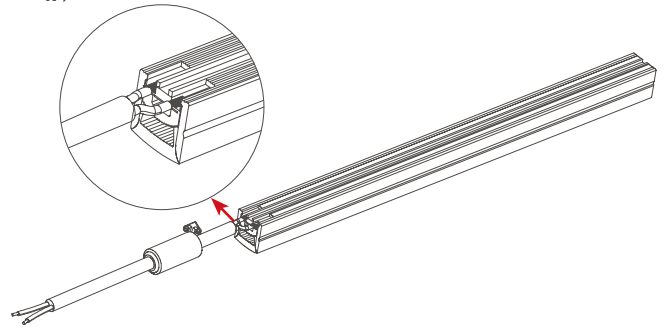
Use scissors to create two notches, 3.5mm wide and 6mm long, at the cutting position on the bottom of the neon strip (as shown in the diagram), exposing the bare copper wires inside the neon strip.

3. ▶



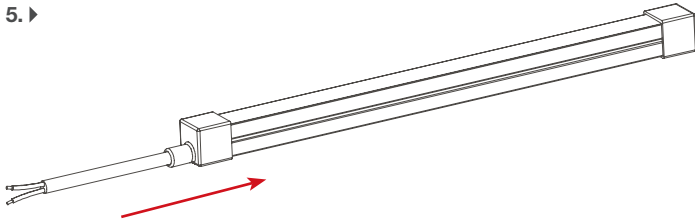
Apply solder to coat the exposed bare copper wires' surface, then carefully solder the wire to the bare copper wires. (Note: Pay attention to the positive and negative terminals.)

4. ▶



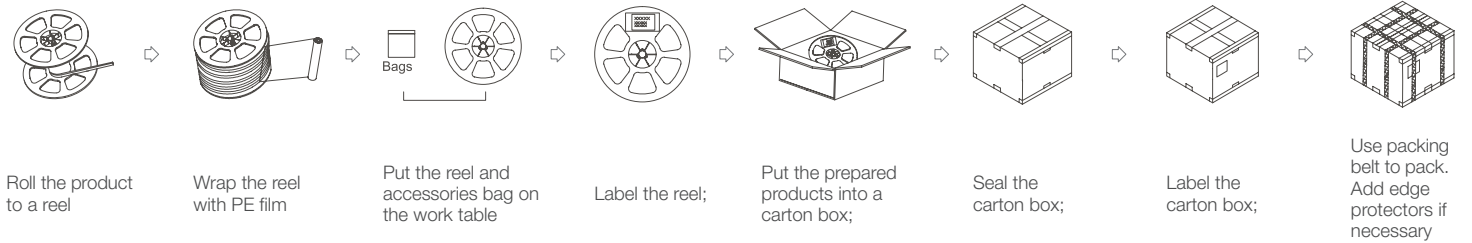
Ensure a secure and solid connection without any loose or weak joints.

5. ▶



Install the end cap, and then power on.

Packaging Information



Constant current

Model No.	Product Size (mm)	Carton Size (mm)	Meter/Reel	Reel/Carton	Gross Weight (kg)
N2-8 Pro(H)	10000*16*17	390*390*325	10	3	15.50 (1± 10%)
N2-8 Pro(L)	30000*16*17	390*390*325	30	1	15.10 (1± 10%)

Constant voltage

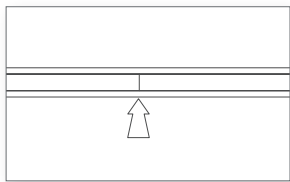
Model No.	Product Size (mm)	Carton Size (mm)	Meter/Reel	Reel/Carton	Gross Weight (kg)
N2-8 Pro(H)	10000*16*17	390*390*325	10	3	15.50 (1± 10%)
N2-8 Pro(L)	15000*16*17	375*375*200	15	1	7.90 (1±10%)

- Notes:
- For other customized length packaging, please ask our sales rep.
  - The above-mentioned packaging quantity and weight are only for the illustrated packaging method. For other packaging methods, the packaging quantity and weight will be different. The actual weight is subject to the actual product.

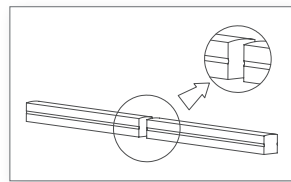
Reliability test

Project	Reference standards	Category	Test conditions	Outcome
Environmental test	Blueview standard	PTC test	The temperature of -40°C/60°C is constant for 15 minutes respectively, the temperature of -40°C/60°C is reduced for 45 minutes and increased for 45 minutes respectively and the lamp lights on for 5 minutes and off for 5 minutes for each 2 hours	Pass
		PTC test	High temperature 60°C & humidity 90%, continuously powered on and lit	
		High Temperature Resistance Test	Continuously power on and light up in the working environment with simulated high temperature of 80°C	
		UV Resistance Test	UV wavelength is 315-400nm and the radiation intensity is 0.83 W/M2 50°C irradiation for 5 hours and water spray for 1 hour continuous cycle	
		Normal Temperature Aging Test	Continuous lighting at room temperature	
		Waterproof Performance Test	IPX8: the sample is 1 meter away from the water surface with 24 hours test time and powered on and lit continuously	IP68
Other tests	Blueview standard	IK10 Impact Test	Weight of impact ball: 1.7 KG Impact energy: 20J Relative height of impact ball: 1.2 M (20J/1.7KG* 9.8M/S)	IK10
Mechanical strength testing	Blueview standard	Tensile Test	Fix the sample on the testing equipment and record the test value when the sample doesn't work	Pass
		Twist Test	Continuously light on, twist 360°/time, repeat 10 times	
		Lifting Test	Fix the sample on the mounting carrier, place down the side mounted with strip for 1h, and observe whether the strip falls off.	
		Outdoor Installation Test	Two pcs, 30m/pc, one installed on a guard house and another installed on a administrative building	

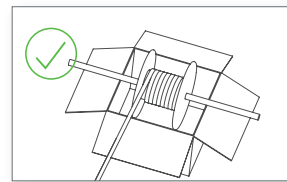
Warning Mark



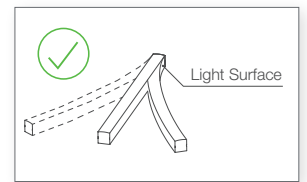
Cuttable identifier



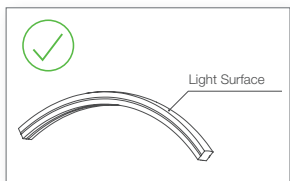
Neat and smooth cut



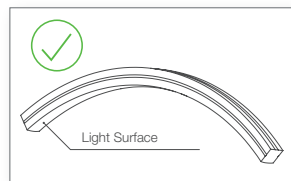
Insert a stick on the reel and place it on the packing box, and rotate the reel to get the product.



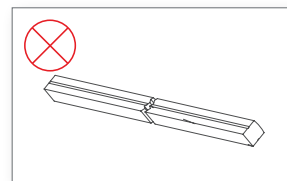
Side bending



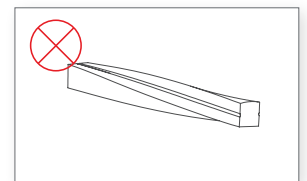
use in convex direction



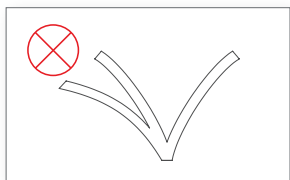
use in concave direction



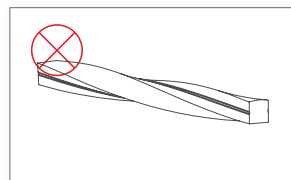
Do not make irregular cuts.



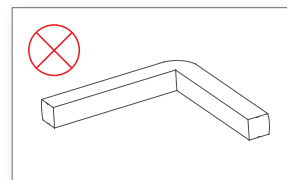
Do not use in distortions



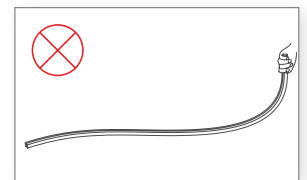
Do not bend many times, for it can endanger electronic lines.



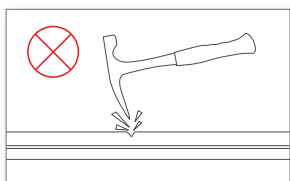
Do not use on wringing (twist)



Do not bend at right angles



Do not throw or pull when taking products



Avoid touching sharp objects

Notes:

- There are cutting marks on the FPCB;
  - Please pay attention to the above warnings during transportation and mounting;
- If the product is pierced by sharp objects, leading to quality issues, our company bears no responsibility.



## Warning

- Do not disassemble or retrofit the light. Do not touch the surface of the light with a sharp object.
- Do not do live-line working during installation, especially for high voltage product.
- Do not use any organic chemical solvents.
- Use neutral glass adhesive to fix this product and it needs to be dried 4 hours in the open environment after operation.
- Treat the ends and the circuit connection points that are not connected to the main line with insulation, waterproof, and anti-corrosion in the installation.
- Use 18AWG (0.75mm<sup>2</sup> cross-sectional area) or thicker core wire to avoid adverse consequences caused by overheating, if the power cable need to lengthen.
- Make sure the input voltage meets the requirements and lines are connected correctly before lighting on
- This product is for signage, and do not use as general lighting.
- Series connection within the max run.
- The length of the power cable between the power supply and the led strip should not exceed 2 meters. Otherwise, large circuit loss will lead to inconsistent brightness.
- Installation, maintenance and repair should be operated by a qualified technician.

## Attentions before installation

- Before installation, check that the product parameters are consistent with the requirements (Seeing product specifications or product labels)
- Load voltage, current, power and power supply should be matched with the product.
- Follow the instructions of wiring diagram (first connect the load and then the power supply) to avoid short circuit
- Make sure the correct connection of positive and negative poles between products and power supply. Otherwise, the light will not be on.
- Make sure the power cord firmly screwed into the terminal and it should not be pulled out by hands.
- The terminal should have waterproof and anti-corrosive treatment.

## Statements and Recycling

### Statements

- Repair should be operated by a qualified technician or supplier, if the external circuit or main line of this product is damaged.
- The parameters given in this manual are typical values and for reference only
- All illustrations and drawings in this manual are for reference.
- This product is subject to change without notice.

### Recycling

- LED lighting products belongs to electronic products, please do recycling treatment according to the relevant WEEE directives.

Version	Content	Date
A1.9	Update: Basic Parameters	2024-5-10

### BLUEVIEW ELEC-OPTIC TECH CO.,LTD

Tel: +86-28-8148 0011     Web.: www.blueviewled.com     Add.: No. 1000, Section 2, Konggang 2nd Road, Shuangliu, Chengdu 610207, Sichuan, CHINA  
 Fax: +86-28-8148 1258     Email: sales@blueviewled.com