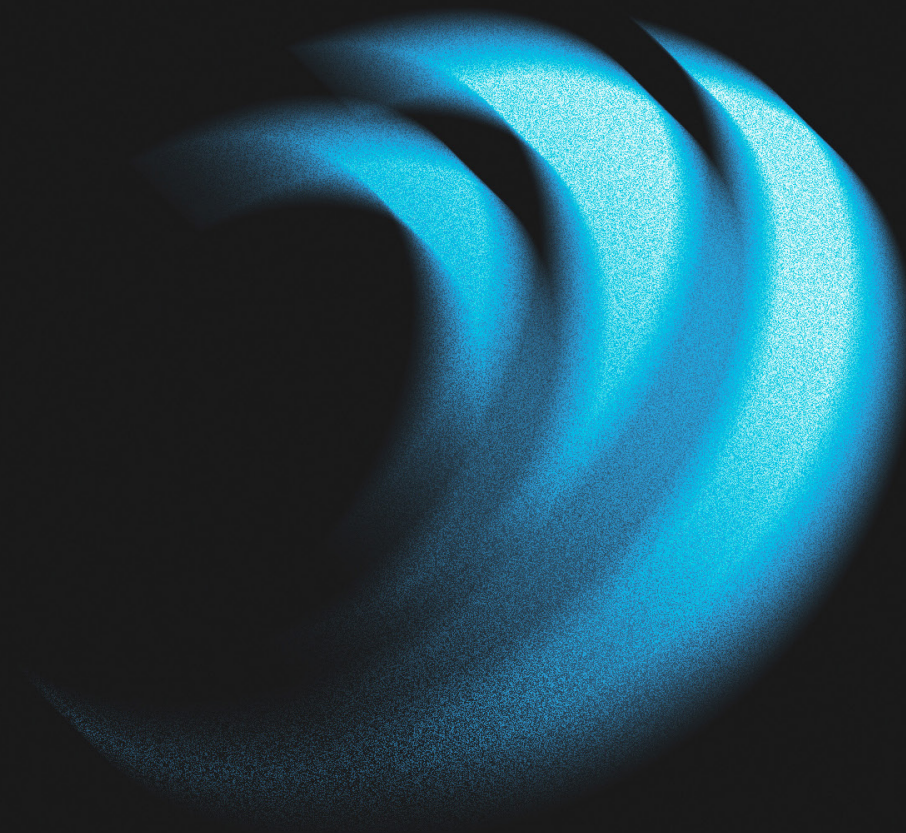




# LED NEON

DC 24V  
FREE CUT

**NDF1617A**

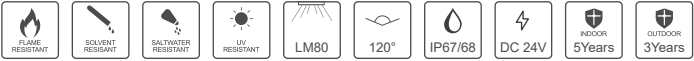




NDF1617A | Free Cut

FEATURES

- Mini size, free cut design
- Top bending with good flexibility.
- Warranty: 5 years indoors; 3 years outdoors.
- Supports PWM, 0-10V, DALI dimming.



OPTICAL & ELECTRICAL PARAMETERS

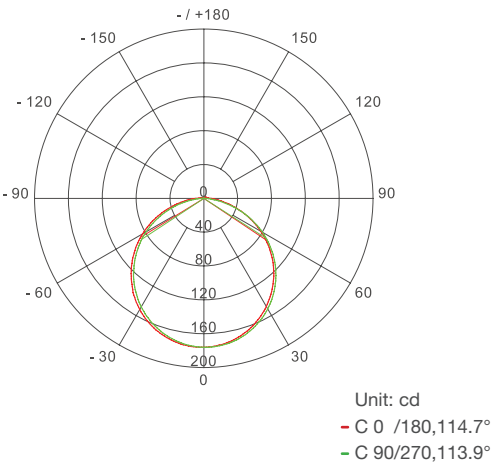
Model No.	Voltage	Ra	Color	Lm/m	Lm/W	W/m
NDF1617A-Single color	24V DC	>90	2500K	518	44	11.76
			2700K	525	44	
			3500K	529	45	
			4000K	544	46	
			5000K	553	47	
			6000K	534	45	

OTHER PARAMETERS

Model No.	LED Qty (pcs/m)	Max Run	Min. cutting unit	Bending Diameter (Top Bending)
NDF1617A-Single color	140	5m	7.14 mm	120 mm

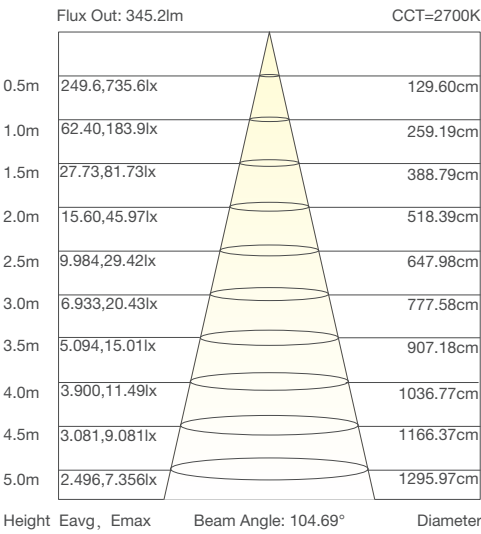
☐ Working Temperature: -40~+60°C      ☐ Storage Temperature: -20~+70°C      ☐ Note: Max run is based on one end power feed.

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



AVERAGE BEAM ANGLE(50%): 114.3°

AVERAGE ILLUMINATION

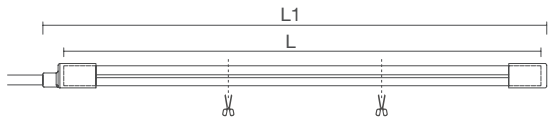


Note: ☐ The data based on NDF1617A-2700K. For other data, please consult sales rep.      ☐ Power and luminous flux tolerance within ±10%.

RECOMMENDED POWER SUPPLY UPON WORKING LENGTH

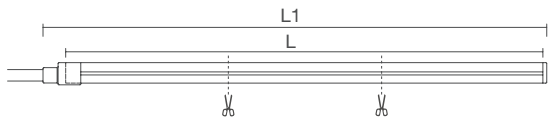
Model No.	Working Length (m)	Current (A)	Voltage	Measured Power (W)	Recommended Power Supply (W)	Power Supply Mode
NDF1617A	1	0.49	DC 24V	11.76	15	Single Feed
	5	2.22		53.28	60	

PROFILE DRAWINGS



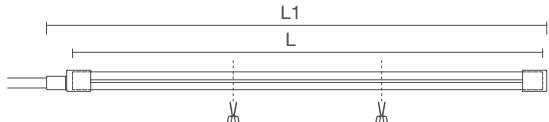
Glue Process (IP67)

Model No.	L (mm / inch)	L1 (mm / inch)
NDF1617A	5000±5[196.85±0.20]	5015±5[197.44±0.20]



Molding pressed (IP67)

Model No.	L (mm / inch)	L1 (mm / inch)
NDF1617A	5000±5[196.85±0.20]	5016±5[197.48±0.20]



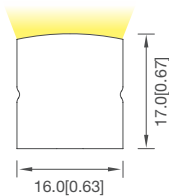
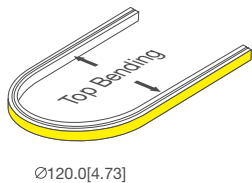
Molding pressed (IP68)

Model No.	L (mm / inch)	L1 (mm / inch)
NDF1617A	5000±5[196.85±0.20]	5016±5[197.48±0.20]

Note:  
IP67: Suitable for humid environments. Temporarily submerged up to 1m for 1 hour, factory assembly only.  
IP68: Suitable for humid environments. Temporarily submerged up to 1m, factory assembly only.

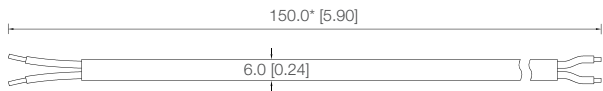
Bending Diameter

Dimension

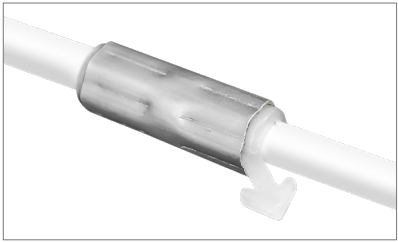
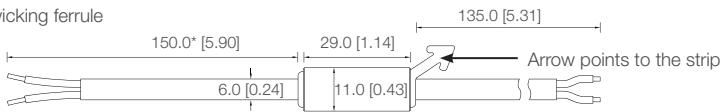


WIRE SPEC

General Wire

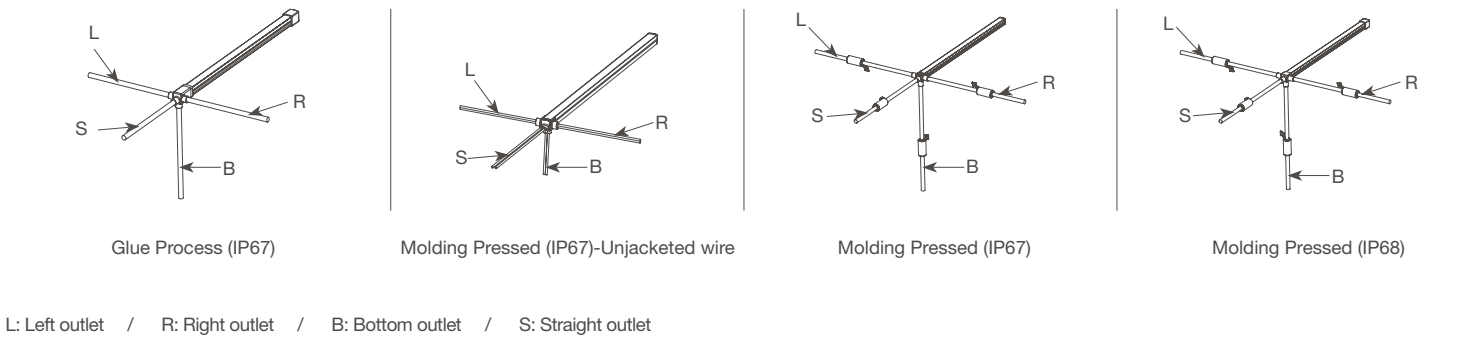


Wire with anti-wicking ferrule

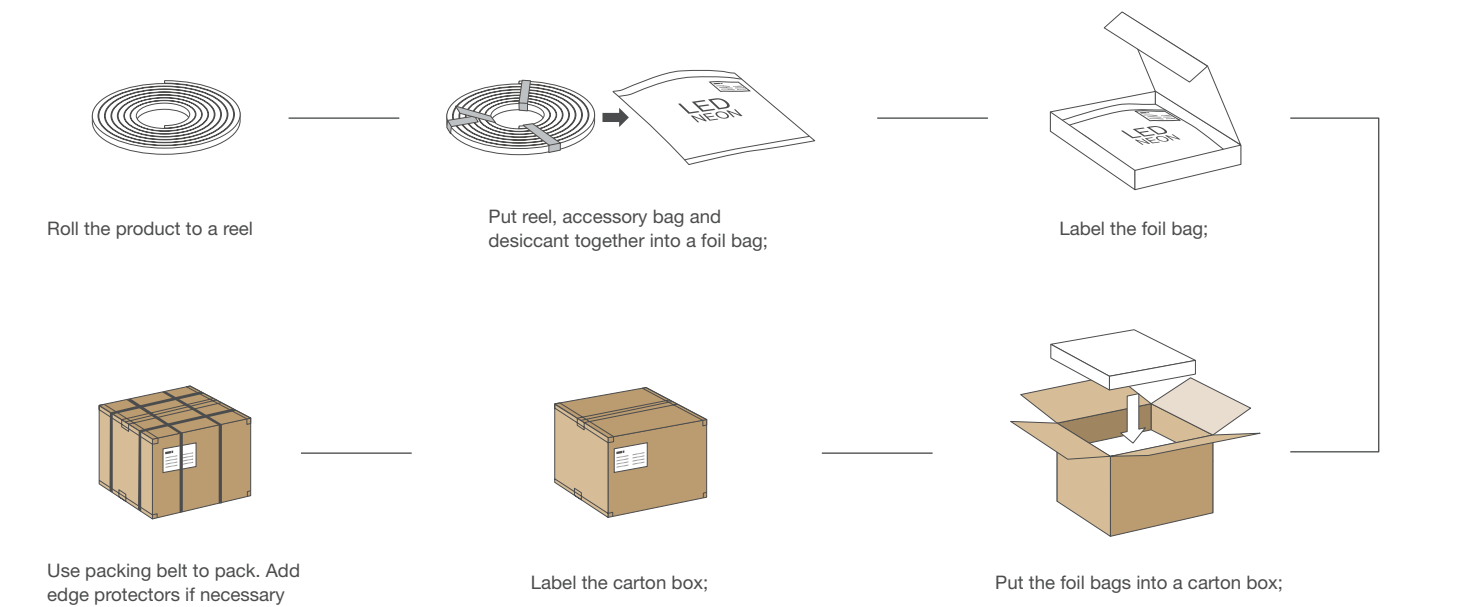


Notes:  
- You can choose one of the above two wires.  
- 2/3/4/5 cores are available.  
- The wire length marked with '\*' supports customization.  
- Don't suggest ferrule in the water avoiding Oxidation.  
- Do not disassemble or reprocess the ferrule; otherwise, we will not be responsible for the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

END CAP - OUTLET DIRECTION



PACKAGING INFORMATION

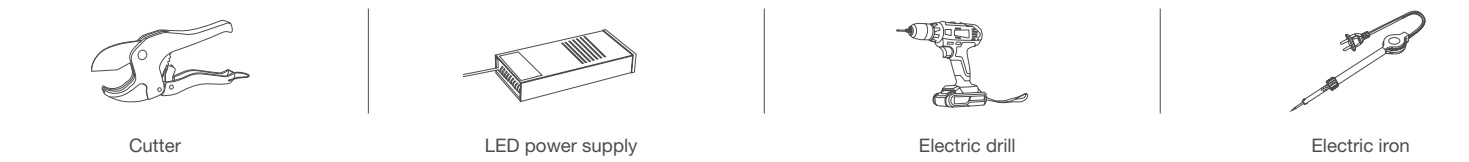


Model No.	Product Size (mm)	Carton Size (mm)	Meter/Reel	Reel/Carton	Gross Weight (kg)
NDF1617A-Single color	5000*16*17	480*445*370	5	13	18.55 (1±10%)


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.

PRODUCTS AND TOOLS

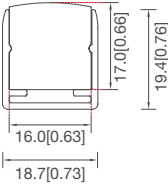
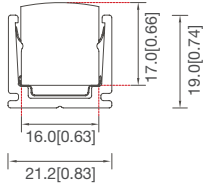
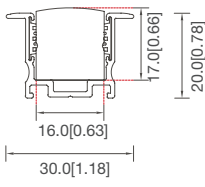
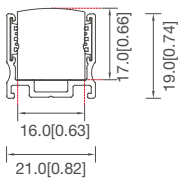


## ACCESSORIES INFORMATION

Picture	Item	Model No.	Part No.	Dimensions L*W*H	Quantity (5/10m)	Free/Optional
	Front cap	ASY-1617-N00NNH-EC	01.06.KL18110611	30*18*18mm	2-4pcs	Free
	Closing End-cap	ASY-1617-N00NNX-EC	01.06.KL18110631	18*19*18mm	2-4pcs	Free
	Front cap (side outlet)	ASY-1617-N00NNS-EC	01.06.KL18110621	25*30*19mm	--	Optional
	S-type Track	ASY-1617-MNN0500-MT	04.Q.04Q0353	500*17.4*16.7mm	--	Optional
	Aluminum clip	ASY-1617-A3NN0035-MT	1.06.JS20061902	35*18.7*19.37mm	--	Optional
	Aluminum Channel	ASY-1617-A1NN1000-MT	01.06.JS20061801	1000*18.7*19.37mm	--	Optional
	Aluminum Clip (with metal spring)	ASY-1617-A4NN0035-MT	01.06.JS20062001	35*21.2*19mm	--	Optional
	Aluminum channel (with metal spring)	ASY-1617-A2NN1000-MT	01.06.PJ19042211	1000*21.2*19mm	--	Optional
	Aluminum Channel (with silicone strip)	ASY-1617-A6NN0035-MT	04.Q.04Q0446	35*20*21mm	--	Optional
	Aluminum Channel (with silicone strip)(with wings)	ASY-1617-A7NN0035-MT	04.Q.04Q0448	35*20*30mm	--	Optional
	Free welding end cap (straight outlet) (IP65)	ASY-NDF1617-F00NNH-EC	01.06.PJ21011406	49*22*23mm	--	Optional
	Free welding end cap (IP65)	SY-NDF1617-F00NNX-EC	01.06.PJ21011412	45*22*23mm	--	Optional
	Free welding end cap (left outlet) (IP65)	ASY-NDF1617-F00NNL-EC	01.06.PJ21011408	53*25*23mm	--	Optional
	Free welding end cap (right outlet) (IP65)	ASY-NDF1617-F00NNR-EC	01.06.PJ21011407	53*25*23mm	--	Optional
	Free welding end cap (bottom outlet) (IP65)	ASY-NDF1617-F00NNB-EC	01.06.PJ21011409	53*22*26mm	--	Optional
	Splicing connector 1 (IP65)	ASY-NDF1617-F00NNM-EC	01.06.PJ21011410	88*22*23mm	--	Optional
	Splicing connector 2 (IP54)	ASY-NDF1617-F01NNM-EC	01.06.PJ21011411	57*23*20mm	--	Optional

Picture	Item	Model No.	Part No.	Dimensions	Quantity (5/10m)	Free/Optional
	Screws	PA3	01.07.022020A011	PA3*10mm	--	Optional
	Silicone Glue	WR-7516	01.10.0220000187	45g/pc	--	Optional

Profile Drawings (neon + aluminum channel)

 <p>Aluminum channel (Aluminum clip) ASY-1617-A1(A3)NNXXXX-MT</p>	 <p>Aluminum channel (with metal spring) ASY-1617-A2(A4)NNXXXX-MT</p>	 <p>Aluminum channel with silicone strip (with wings) ASY-1617-A7NNXXXX-MT</p>	 <p>Aluminum channel with silicone strip (no-wings) ASY-1617-A6NNXXXX-MT</p>
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Aluminum channel diagram

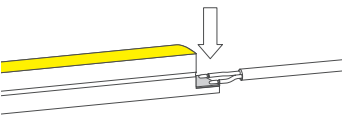
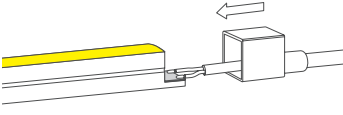
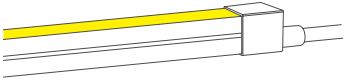
The diagram shows a rectangular aluminum channel with a central slot and two circular holes on either side. The length is labeled L and the width is labeled W.

Name	L(mm)	W(mm)	Type
Aluminum clip	35	18.7	Optional
Installation set	35/1000	21.2	Optional
Aluminum channel	1000	18.7	Optional
Aluminum channel X	X	--	Customized

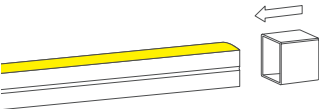
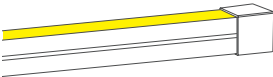
Note: The accessory quantity is changeable according to customers' needs.

INSTALLATION

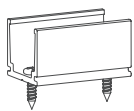
Front cap installation

 <p>Weld the wire to the PCB board.</p>	 <p>Filling the cap with glue, then install to the strip light.</p>	 <p>Wipe off the excess glue and wait to dry</p>
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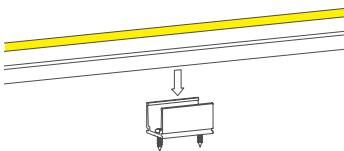
Closing-end cap installation

 <p>Filling the cap with glue, then install to the strip light.</p>	 <p>Wipe off the excess glue and wait to dry</p>
---	---

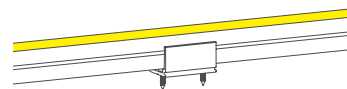
## Aluminum channel installation



Fix the aluminum channel with screws

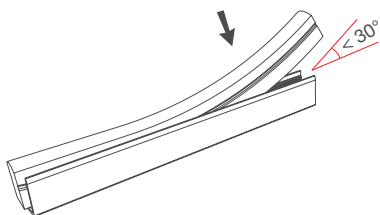


Press the strip into the channel

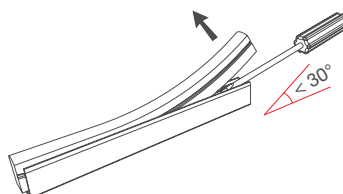


Finished

## Installation



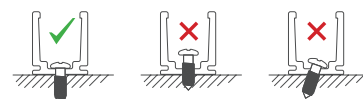
## Removal



Press in/out gently; avoid excessive force; ensure one-time, smooth installation/removal.

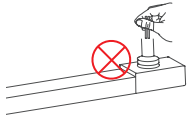
## Notes:

- At the welding place, please pay attention to the positive and negative poles of the wire and the strip;
- Each connection must use 10g silica gel for waterproof and insulating treatment;
- The screws must be vertical to the mounting surface and be fastened, as shown in the figure on the right;
- Please choose suitable operation steps according to the actual needs;
- During mounting, please pay attention to the min bending diameter, and best to use original factory accessories;
- More information, please feel free to consult us;



## WARNING MARK

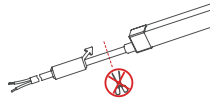
<p>Wrong Correct</p> <p>Cutting line marks</p>	<p>Neat and smooth cut.</p>	<p>Insert stick through reel on box for easy product access.</p>	<p>Keep products neatly stacked.</p>	<p>Top bending</p>	<p>No side bending</p>
<p>Do not pile randomly or too high.</p>	<p>Do not violently unpack.</p>	<p>No throwing from height.</p>	<p>Ensure smooth and vertical cuts.</p>	<p>Avoid twisting.</p>	<p>Avoid deliberate damage to products.</p>
<p>Avoid repeated bending to prevent circuit damage</p>	<p>No twisting or kinking</p>	<p>Avoid right-angle bends</p>	<p>No swinging or pulling</p>	<p>Product longer than 2m, at least two employees are required.</p>	<p>No trampling</p>



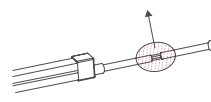
Do not pull the outlet wire.



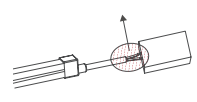
No pulling



Do not cut the wire connecting the waterproof ring to the product.



Waterproofing is needed for wire connections and sections.

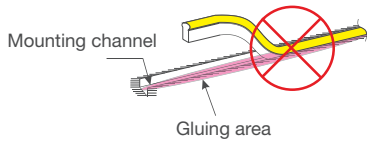


Waterproofing is needed for device connections and wire cross-sections.

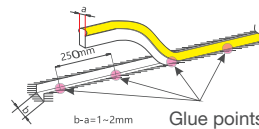
Note: □ There are cutting marks on the PCB; □ Please pay attention to above warnings during transportation and using;

## 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.
- During installation, if components are used, please refer to the relevant parts description and installation methods in the corresponding specification sheet.
- Ensure that there are channels or clips on the installation carrier to provide fixation.
- For IP68 product, it is not recommended for customers to cut it themselves; for IP67 product, customers may cut it themselves and seal it with adhesive to achieve IP65 rating
- It is not recommended to rely solely on glue for fixing the product; gluing serves only as auxiliary fixation.
- Considering the thermal expansion and contraction of the product, sufficient space must be reserved. It is recommended to have a maximum of four glue points per meter of product.



If using glue for extra fixation, avoid filling the mounting channel entirely, as excessive glue may hinder the release of thermal expansion and contraction stress in the product.



Apply glue only as auxiliary fixation. If gluing is necessary, it is recommended to have a maximum of four glue points per meter of product; the amount of glue should be controlled appropriately to ensure secure fixation.

**This product is not suitable for use in environments with strong acids, strong alkalis, diesel, gasoline, or engine oil.**

## 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.

## 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
A1.3	First release	2025-11-27

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