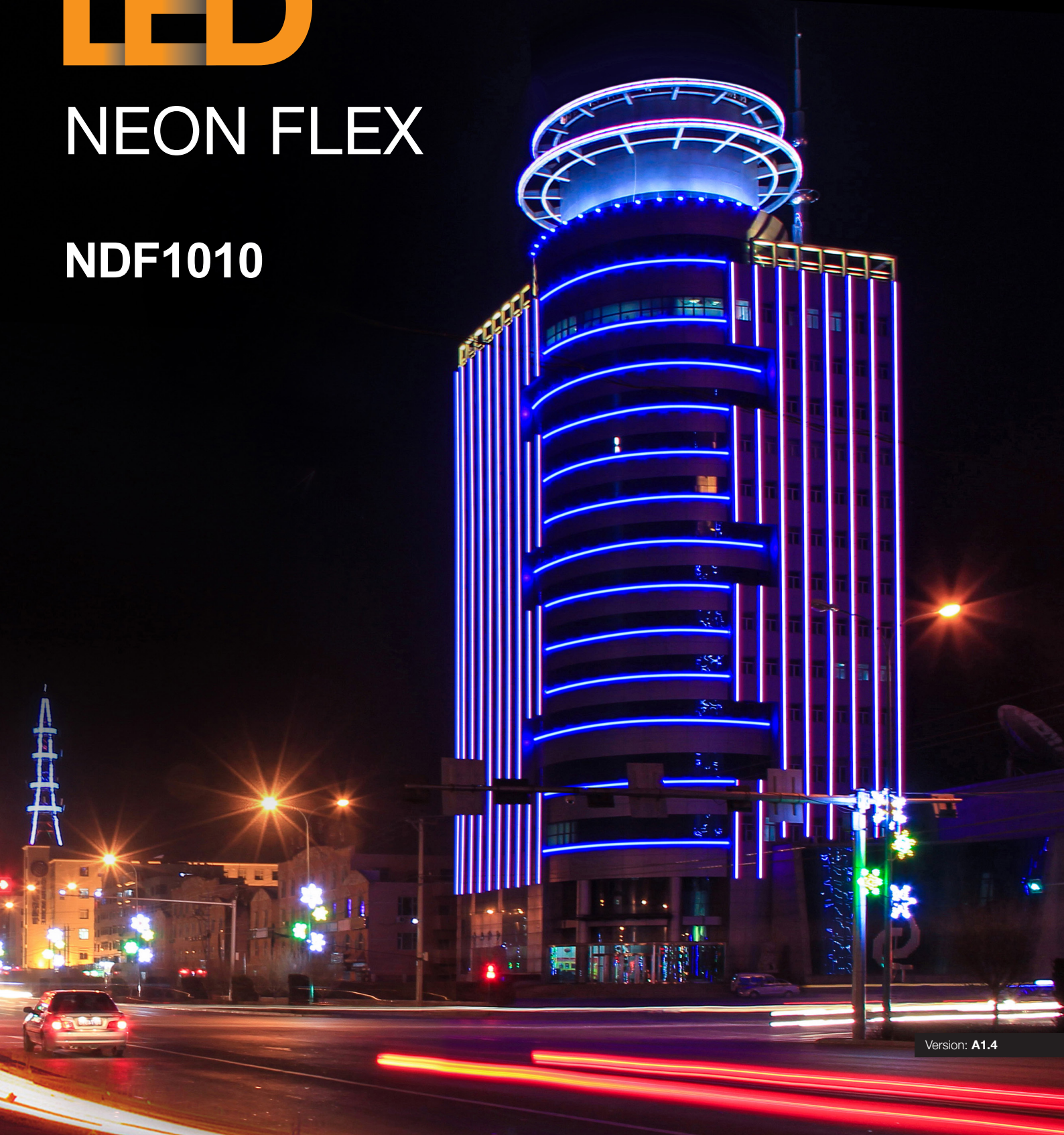
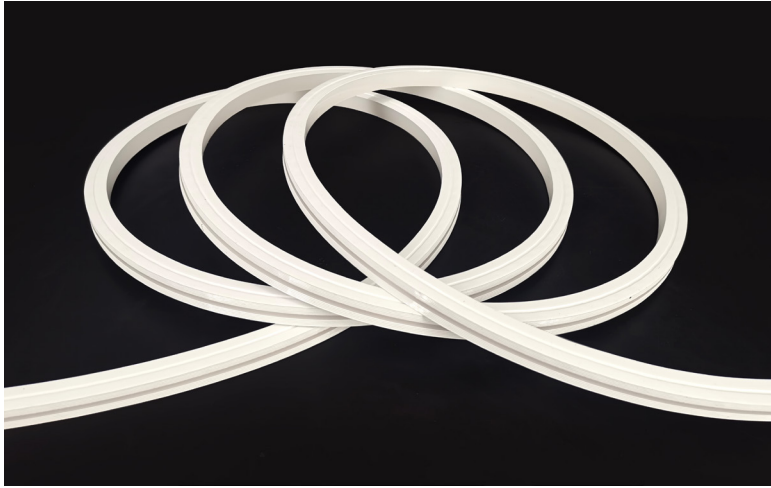


LED

NEON FLEX

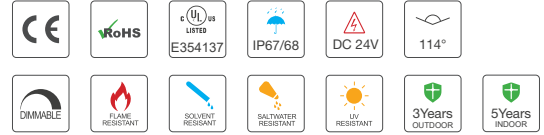
NDF1010





Features

- Color options: Single color
- Good linear effect and better environmental adaptability
- Top bending with good flexibility
- A variety of specifications are available, support customization
- Max. 5m with one end power feeding; Max. 10m with two ends power feeding
- Warranty: 5 years indoors, 3 years outdoors
- Single color supports PWM, 0-10V, DALI and DMX dimming



Optical & Electrical Parameters

Model No.	Voltage	Ra	Color	Lm/m	Lm/W	W/m
NDF1010-Single color	24V DC	>90	2300K	495	64	8.0
			2700K	502	64	
			3000K	530	67	
			3500K	552	70	
			4000K	556	71	
			5000K	554	71	
			6000K	548	70	
NDF1010-Single color	24V DC	/	Red	186	24	8.0
			Green	635	70	
			Blue	116	15	
			Yellow	132	18	
			Orange	200	28	

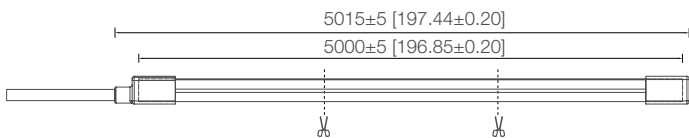
Other Parameters

Model No.	LED QTY (pcs/m)	Standard Run	Min. Cuttable Length	Working Temperature	Storage Temperature
NDF1010-Single color	120	5000.0mm	50.0mm	-20~+60°C	-20~+70°C

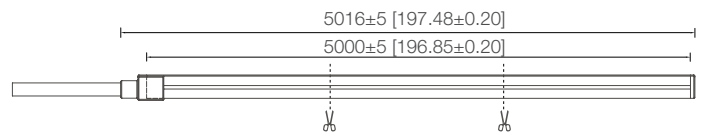
Profile Drawings

Unit: mm[inch]

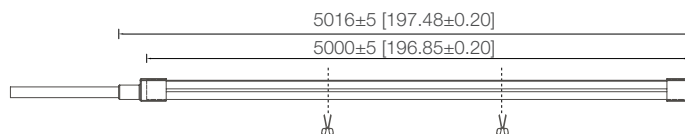
Glue process IP67



Molding pressed IP67

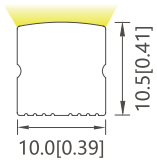


Molding pressed IP68

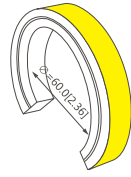


Notes:
 Within 5m, customizable lengths are multiples of the min cuttable length.
 IP67: Temporarily submerged up to 1m for 1 hour, factory assembly only.
 IP68: Temporarily submerged up to 1m, factory assembly only.

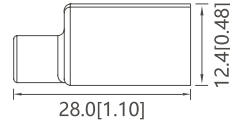
Sectional view



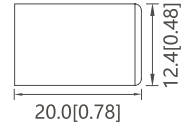
Bending Diameter



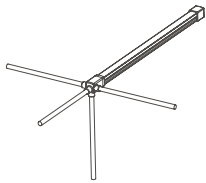
Front cap (Glue process)



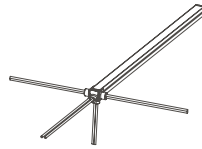
Closing End-cap (Glue process)



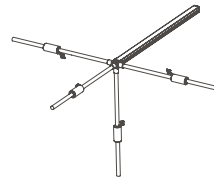
End Cap - Outlet Direction



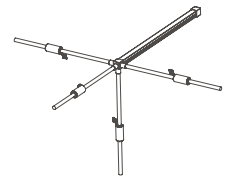
Glue Process (IP67)



Molding Pressed (IP67)



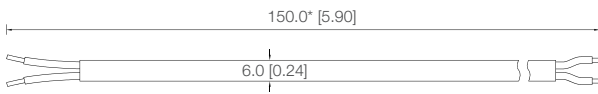
Molding Pressed (IP67)



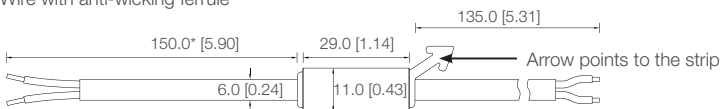
Molding Pressed (IP68)

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.

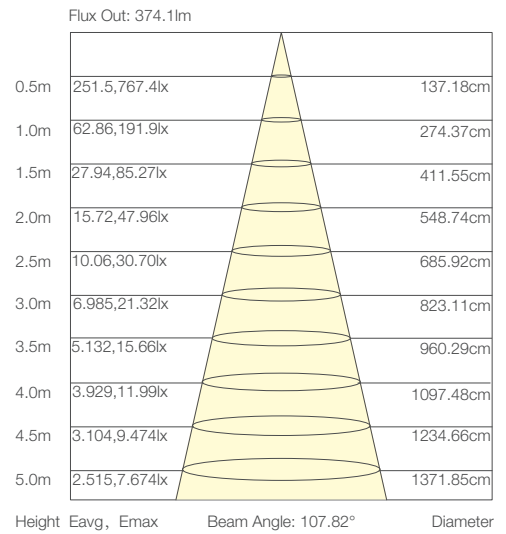
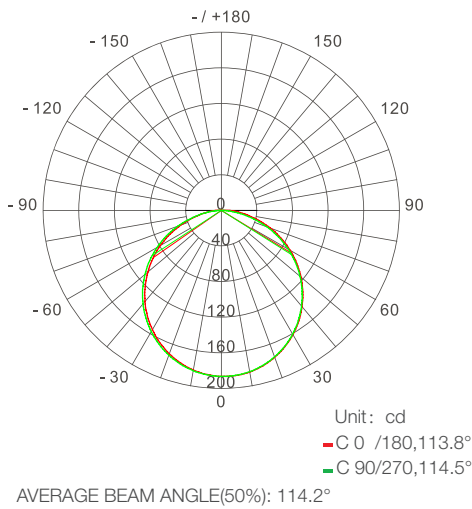
Recommended power supply upon working length

NDF1010-single color

Working Length	Measured Current	Rated Voltage	Measured Power	Recommended Power Supply	Power Supply Mode
1m	0.32 A	24V DC	7.73 W	12 W	Single Feed
5m	1.44 A	24V DC	34.56 W	50 W	Single Feed

Luminous Intensity Distribution Diagram

Average Illumination



Note: above data tested with NDF1010-single color at 2300K , for other data,please consult sales rep.

Product accessories



ASY-NDF1010-N00NNH-EC
 Item: Front cap
 Dimensions L*W*H:
 Quantity / 5m: 1pcs
 Free/Optional: Free



ASY-NDF1010-N00NNX-EC
 Item: Closing End-cap
 Dimensions L*W*H:
 Quantity / 5m: 1pcs
 Free/Optional: Free



ASY-NDF1010-A2NN1000-MT
 Item: Aluminum Channel
 Dimensions L*W*H:
 Quantity / 5m: 5pcs
 Free/Optional: Optional



ASY-NDF1010-A4NN0025-MT
 Item: Aluminum Clip
 Dimensions L*W*H:
 Quantity / 5m: 15pcs
 Free/Optional: Optional

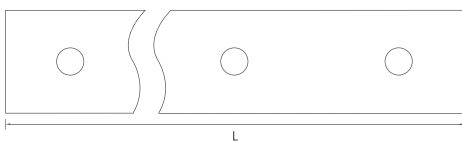


PA3
 Item: Screws
 Dimensions L*W*H: PA3*10
 Quantity / 5m: 30pcs
 Free/Optional: Optional



WR-7516
 Item: Silicone Glue
 Dimensions: 45g/pc
 Quantity / 5m: 1pcs
 Free/Optional: Optional

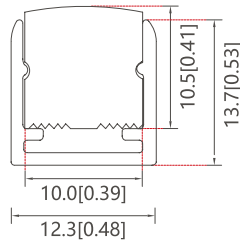
Schematic diagram of installing aluminum groove



Name	L(mm)	W(mm)	Type
Aluminum clip	25	12.3	Optional
Aluminum channel	1000	12.0	Optional

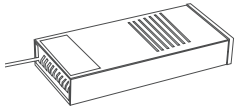
Note:
 The number of accessories can be increased according needs;
 Processing the molded cap needs corresponding molds and molding equipment;
 If customer processes the molded cap themselves, we will not be responsible for the consequences.;

Profile Drawings (neon + aluminum channel)



Aluminum channel/clip
ASY-NDF1010-A1(A3)NNXXXX-MT

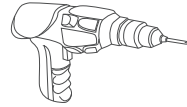
Products and Tools



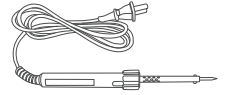
LED power supply



Cutter



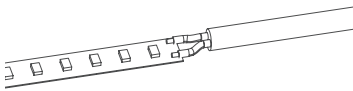
Electric drill



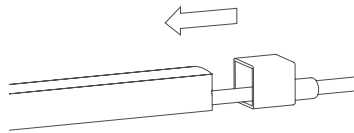
Electric iron

Installation

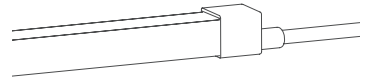
Front cap installation



Weld the wire to the PCB board.

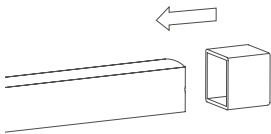


Apply waterproof glue to the end cap, then install the cap.

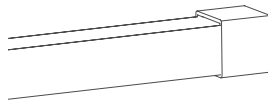


Wipe off the excess glue and wait for the glue to solidify.

Closing-end cap installation

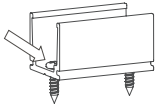


Apply waterproof glue to the end cap, then install the cap.

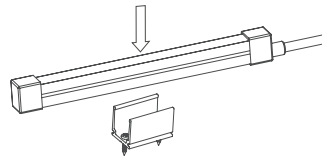


Wipe off the excess glue and wait for the glue to solidify.

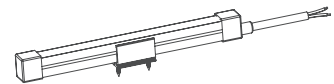
Aluminum channel installation



Fix the installation channel with screws



Put the strip into the channel



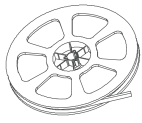
Finished

Note:

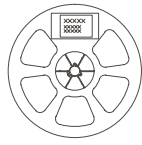
- At the welding place, please pay attention to the positive and negative poles of the wire and the strip;
- Each connection must use 10g silica gel for waterproof and insulating treatment;
- The screws must be vertical to the mounting surface and be fastened, as shown in the figure on the right;
- Please 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;



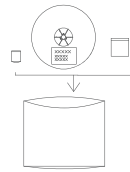
Packaging Information



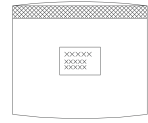
Roll the product to a reel.



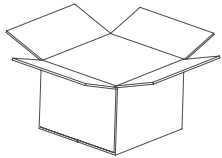
Label the reel;



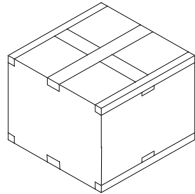
Put the reel and accessories bag on the work table



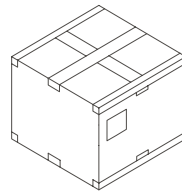
Put the prepared products into a bag;



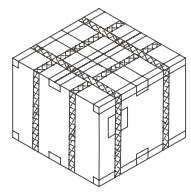
Put the bags into a carton box



Seal the carton box;



Label the carton box;

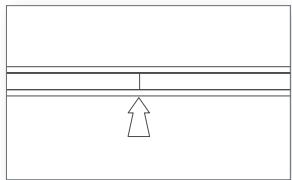


Use packing belt to pack. Add edge protectors if necessary

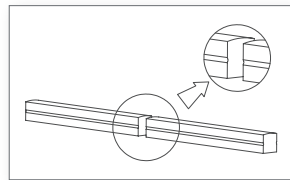
Model No.	Product Size L*W (mm)	Carton Size (mm)	Meter/Reel	Reel/Carton	Gross Weight (kg)
NDF1010	5000*10	390*390*325	5	18	15.50 (1± 10%)

- 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.

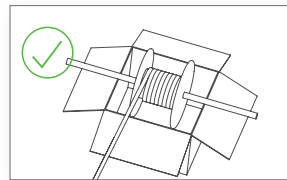
Warning Mark



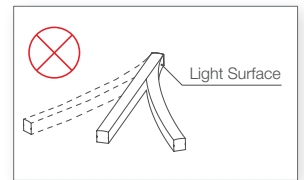
Cuttable identifier



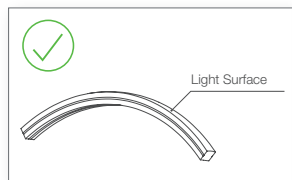
Neat and smooth cut



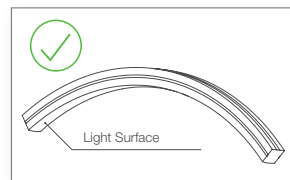
Insert a stick on the reel and place it on the packing box, and rotate the reel to get the product.



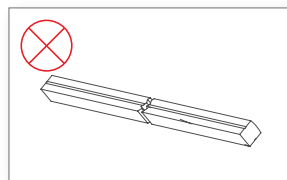
Side bending



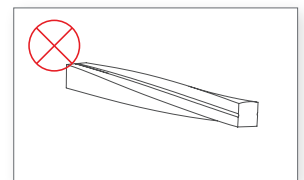
use in convex direction



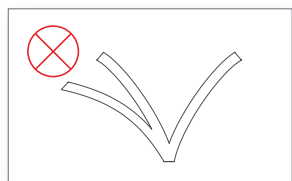
use in concave direction



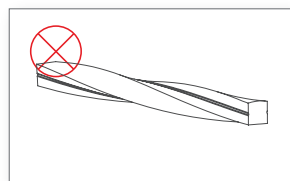
Do not make irregular cuts.



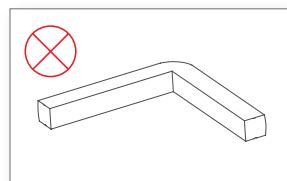
Do not use in distortions



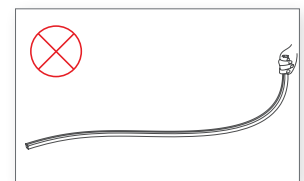
Do not bend many times, for it can endanger electronic lines.



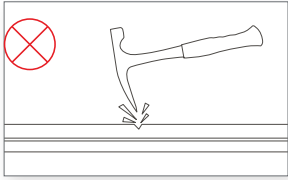
Do not use on wringing (twist)



Do not bend at right angles



Do not throw or pull when taking products



Notes:

1. There are cutting marks on the FPCB;
2. Please pay attention to the above warnings during transportation and mounting;

Avoid touching sharp objects

Reliability test

Project	Reference standards	Category	Test conditions	Outcome
Environmental test	Lumbient standard	Temperature cycling test	Th = 60°C/4h, Ta =20°C/1H, TL=- 40°C/4h,continuous cycle lighting	Pass
		High temperature resistance test	Simulated TH=60 °C, continuous power on	
		Room temperature bending test	Bending diameter 40mm, continuous power on under room temperature	
		PTC test	Test temperature -40°C to 60°C, cycle once every 2h (temperature holding time 15min, heating and cooling time 45min)	
		Room temperature aging test	Ta=25°C, continually light on	
		IP6X	Soaking 1.0m/30min	IP67
Mechanical strength testing	Lumbient standard	Tensile test	Fix both ends of the sample on the upper and lower clamps of the tensile machine and record the tensile value of the product when the light is off.	Pass
		Twisting test	Light on the sample, forward and reverse rotation 360° one time each, a total of 10 times.	

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 (0.75mm² 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

Packaging information

- 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
A1.4	Update: Profile Drawing	2024-3-12