



Lumbient




LED

NEON FLEX

N2-8




 **ENERGY**

SUPPLIER'S NAME
MODEL IDENTIFIER

A	▶
B	▶
C	▶
D	▶
E	▶
F	▶
G	▶

WXYZ
kWh/1000h

2018/2015





Features

- Color options: Single color;
- 30m long run length with single feed, and good cost performance;
- Available in both top and side bend, perfectly fixing for many irregular structures;
- PCB designed in parallel with function of skipping the broken cuttable unit;
- High strength silicone body with super tensile resistance;
- Single color can not dimming (If using Mean Well ELG/HLG power supply, it supports PWM dimming within 2KHz);
- Warranty: 5 years indoors, 3 years outdoors;



Optical & Electrical Parameters

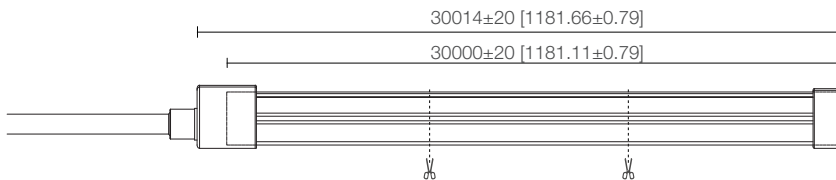
Model No.	Voltage	CRI	CCT	Lm/m	Lm/W	Rated Power
N2-8(Single color)	24V DC	>90	2700K	461	48	9.6W/m
			3000K	491	51	
			4000K	507	53	
			5000K	516	54	
			6000K	519	54	
N2-8(Single color)	24V DC	/	Red	124	13	9.6W/m
			Green	295	31	
			Blue	57	6	
			Yellow	107	11	
			Orange	154	16	

Basic Parameters

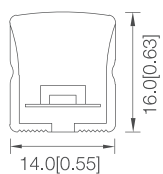
Model No.	LED QTY	Standard Run	Min. Cuttable Length	Working Temperature	Storage Temperature
N2-8(Single color)	96pcs/m	30.0m	62.5mm	-20~+60°C	-20~+70°C

Profile Drawings

Unit: mm[inch]

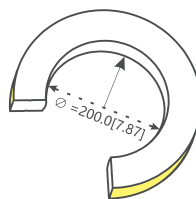


Sectional view

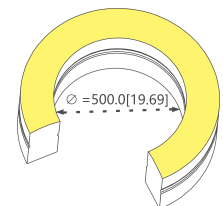


Bending diameter:

Top bending



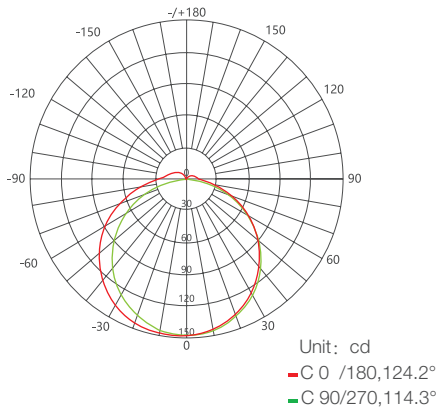
Side bending



Note:
 Within 30m, the strip length support customization,
 Considering the voltage dropping, the length of the outlet wire should short than 1m;

Luminous Intensity Distribution Diagram

Average Illumination



AVERAGE BEAM ANGLE (50%): 119.2°

Flux Out: 335.1lm CCT=6000K

Height	Eavg, Emax	Beam Angle: 114.35°	Diameter
0.5m	166.6,608.9lx		155.03cm
1.0m	41.64,152.2lx		310.07cm
1.5m	18.51,67.66lx		465.10cm
2.0m	10.41,38.06lx		620.13cm
2.5m	6.663,24.36lx		775.16cm
3.0m	4.627,16.91lx		930.20cm
3.5m	3.399,12.43lx		1085.23cm
4.0m	2.603,9.515lx		1240.26cm
4.5m	2.056,7.518lx		1395.30cm
5.0m	1.666,6.089lx		1550.33cm

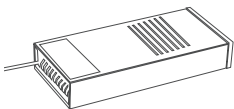
Note: the above two figures are tested with the sample N2-8 at CCT 6000K, for other data, please consult sales rep.

Recommended power supply upon working length

N2-8

Working Length	Measured Current	Rated Voltage	Measured Power	Recommended Power Supply	Power Supply Mode
1m	0.40 A	24V DC	9.60 W	15 W	Single Feed
30m	10.36 A	24V DC	248.64 W	300 W	Single Feed

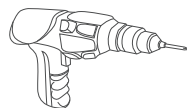
Products and Tools



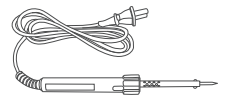
LED power supply



Cutter



Electric drill



Electric iron

Product accessories

Optional



Front cap
 Model No.: ASY-N2-8-N00NNH-EC
 Quantity(30m):
 Dimensions: 26*16*16mm



Closing End-cap
 Model No.: ASY-N2-8-N00NNX-EC
 Quantity(30m):
 Dimensions: 16*16*16mm



Front cap(Side outlet)
 Model No.: ASY-N2-8-N00NNS-EC
 Quantity(30m):
 Dimensions: 19*16*26 mm



Aluminum clip
 Model No.: ASY-N2-8-A3NN0030-MT
 Dimensions: 30*21.8*14mm



Aluminum Channel
 Model No.: ASY-N2-8-A1NN1000-MT
 Dimensions: L*17*21.8mm

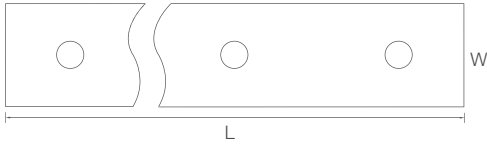


Silicone Glue
 Model No.: WR-7516
 Quantity: --
 Dimensions: 45g/pc



Screws
 Model No.: PA3
 Quantity: --
 Dimensions: PA3*10mm

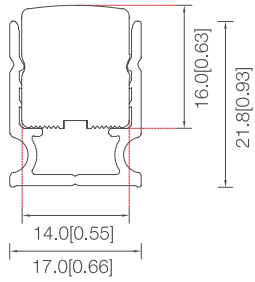
Aluminum channel diagram



Name	L(mm)	W(mm)	Type
Aluminum clip	30	21.8	Optional
Aluminum channel	1000/1200	17.0	Customized
Aluminum channel X	X	/	Customized

Note: accessories can be added according to customer requirements

Profile Drawings (neon + aluminum channel)

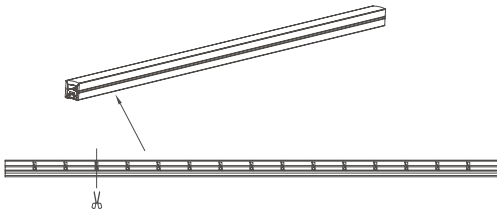


Aluminum channel/ Aluminum clip
ASY-N2-8-A1(A3)NNXXX-MT

Installation Methods and Steps

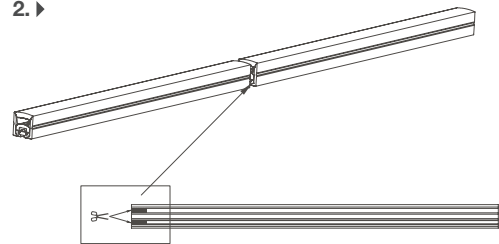
Cutting and Welding Guidance

1. ▶



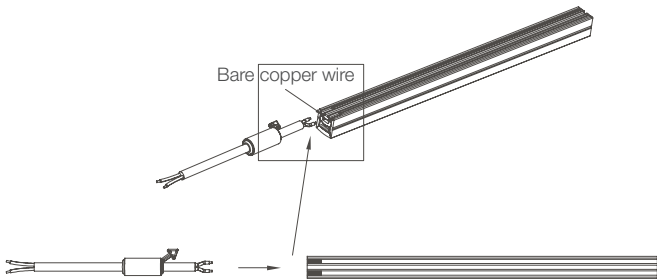
Find the designated cutting position on the neon strip and cut it in the middle. (Note: Ensure a flat and even cut.)

2. ▶



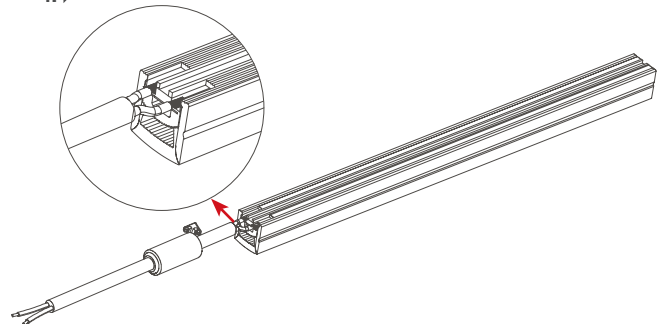
Use scissors to create two notches, 3.5mm wide and 6mm long, at the cutting position on the bottom of the neon strip (as shown in the diagram), exposing the bare copper wires inside the neon strip.

3. ▶



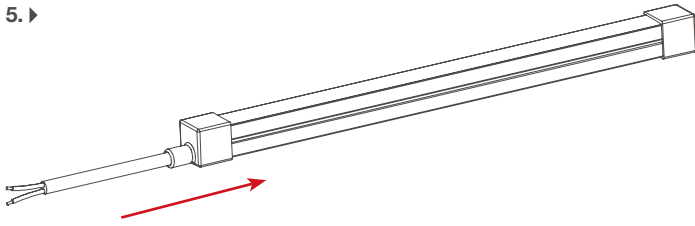
Apply solder to coat the exposed bare copper wires' surface, then carefully solder the wire to the bare copper wires. (Note: Pay attention to the positive and negative terminals.)

4. ▶



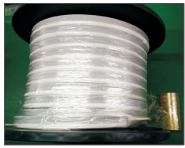
Ensure a secure and solid connection without any loose or weak joints.

5. ▶

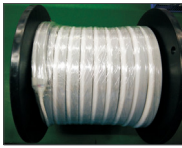


Install the end cap, and then power on.

Packaging Information



Roll the product to a reel



Wrap it with PE film



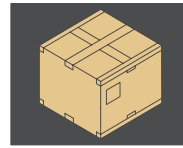
Put the reel and accessories bag on the work table



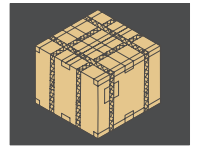
Label the reel;



Put the prepared products into a carton box;



Label the carton box;



Use packing belt to pack. Add edge protectors if necessary

Model No.	Product Size (mm)	Carton Size (mm)	Meter/Reel	Reel/Carton	Net Weight (kg)	Gross Weight (kg)
N2-8	30000*14*16	375*375*200	30	1	-- (1±10%)	11.20 (1± 10%)

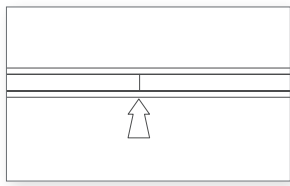
Notes:

- 30m per reel , and finally in a carton box.
- 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.

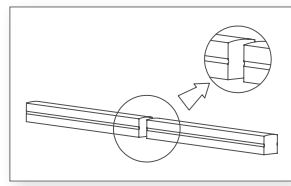
Reliability test

Project	Reference standards	Category	Test conditions	Outcome
Environmental test	Lumbient 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
		High Temperature & Humidity	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		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		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	

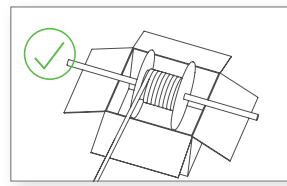
Warning Mark



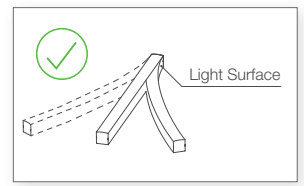
Cuttable identifier



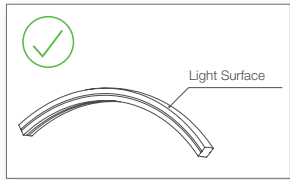
Neat and smooth cut



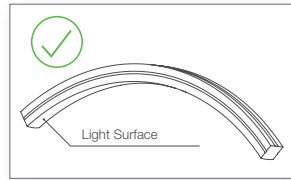
Insert a stick on the reel and place it on the packing box, and rotate the reel to get the product.



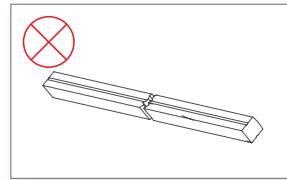
Side bending



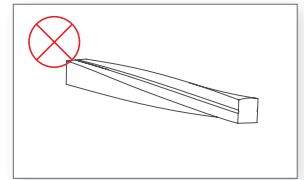
use in convex direction



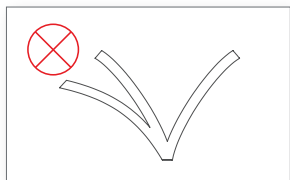
use in concave direction



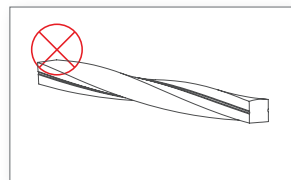
Do not make irregular cuts.



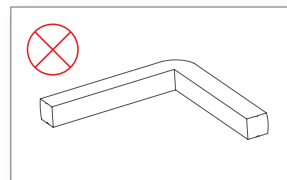
Do not use in distortions



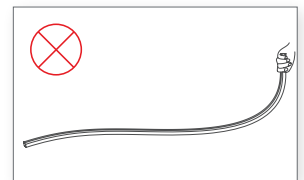
Do not bend many times, for it can endanger electronic lines.



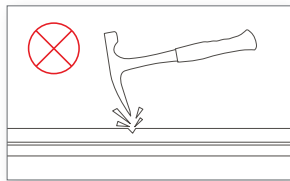
Do not use on wringing (twist)



Do not bend at right angles



Do not throw or pull when taking products



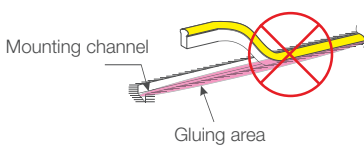
Avoid touching sharp objects

Notes:

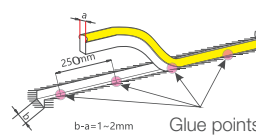
- There are cutting marks on the FPCB;
- Please pay attention to the above warnings during transportation and mounting;

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 (0.75mm² 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.

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
A2.0	Update: Attentions Before Installation	2025-9-29