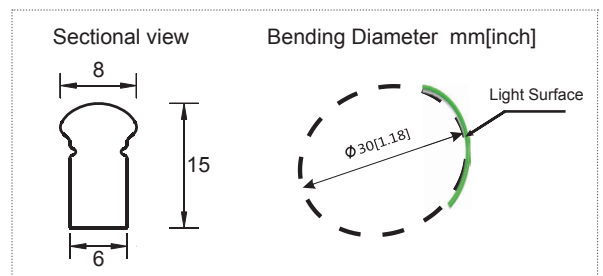


## Features

- Single LED cuttable
- High quality circuit for stable and reliable performance
- Color LED with color surface and white LED with color surface available
- Side bending and small size for easy modeling
- IP67 protection with high performance silicone
- Dimmable



## Application

Landscape lighting, building outline, steps, bridges, courtyards, roads, etc.

## Installation

by clips

## Specification

Model No.	Light Color	Color Temperature/ Wavelength(K/nm)	Beam Angle	Luminous Flux (lm/m)	Ra	Efficacy (lm/W)	Voltage (DC V)	Power (W/m)
NSR2-6MD-H Color LED with color surface	W	2900-25000	139°	284	80+	23	12	11.52
	R	620-625		36	--	2.9		
	G	520-525		138	--	15		
	B	465-470		39	--	3.6		
White LED with color surface	Y	590-595	139°	62	--	5.6	12	11.52
	O	605-610		86	--	7.5		

## Other Parameters

Model No.	LED Quantity (pcs/m)	Product Size (mm)	MaxRun (m)	Min Cuttable Length(mm)	Working Temperature	Storage Temperature
NSR2-6MD-H	96	5000*8*15	5	10.4	-20~+60°C	-20~+70°C

### NOTE:

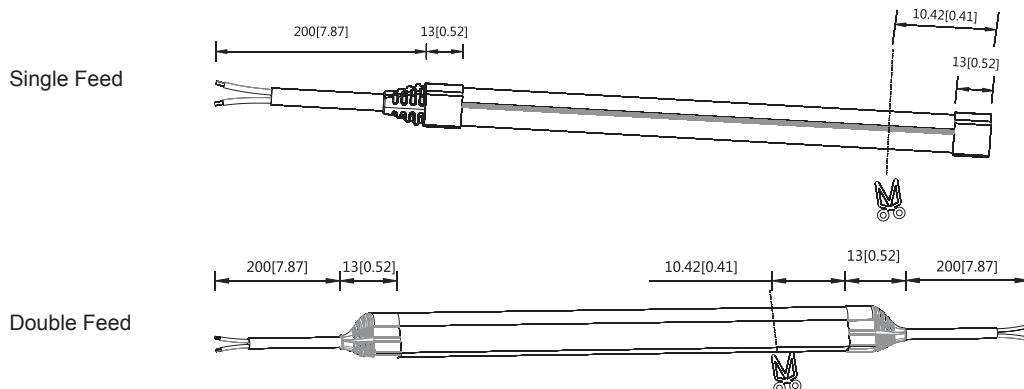
- Test environment temperature : 25±2°C.
- For color LED with color surface, the data are tested with LEDs that have same color with the surface.
- The above data is typical values, and the actual data of each single product may differ from the typical values. The data is subject to change without notice.
- Different color temperature will make luminous flux different. The typical color temperature is 6500K.
- 5m max run in single feed and 10m in double feed.

## Working Length vs. Recommended Power Supply

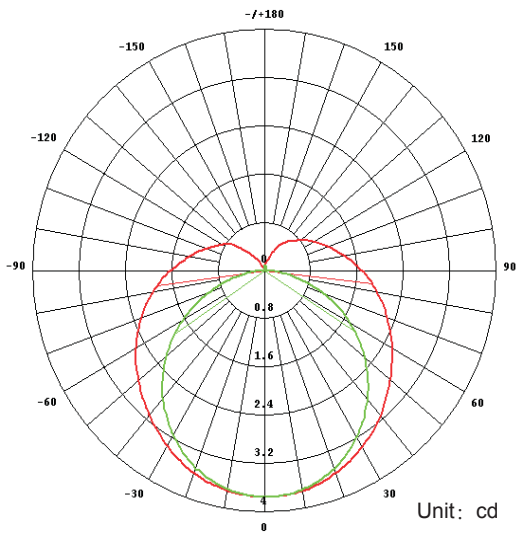
Model No.	Working Length (m)	Rated Current (A)	Rated Voltage (V)	Rated Power (W)	Recommended Power Supply(W)	Power Supply Mode
NSR2-6MD-H	1	0.96	12	10.42	15	Single Feed
	5	4.8		52.1	65	Single Feed
	10	9.6		104.2	120	Double Feed

## Profile Drawings

Unit:mm

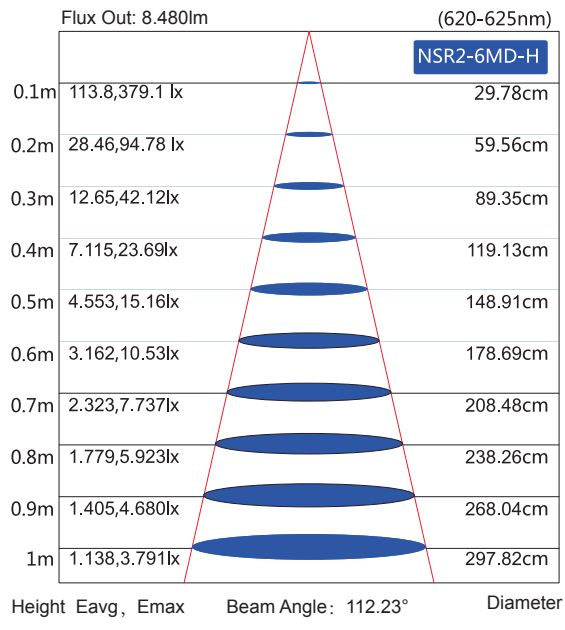


**Luminous Intensity Distribution Diagram**



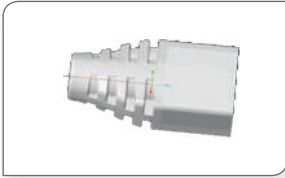
Unit: cd  
 — C0/180,165.8°  
 — C90/270,112.9°  
**AVERAGE BEAM ANGLE(50%): 139.3°**

**Average Illumination**



**Note:** The above data are tested at wavelength 620-625nm of the LED, and surface color is red. Please ask the sales for data of other specifications or color temperatures.

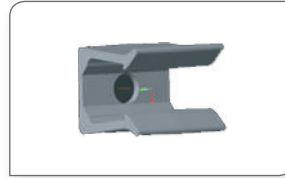
## Product accessories



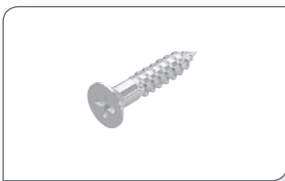
End cap with hole (FREE)  
Quantity(5m):3pcs



End cap without hole (FREE)  
Quantity(5m):3pcs



Installation track (FREE)  
Quantity(5m):10pcs



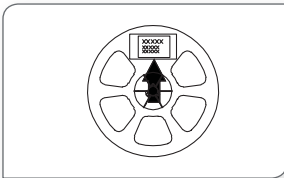
Screw(FREE)  
Quantity(5m):10pcs



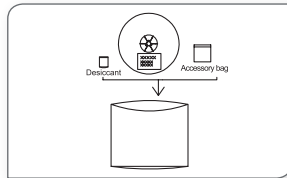
Silicone glue(FREE)  
Quantity(5m):1pcs

Note: more accessories can be provided according to customer requirements

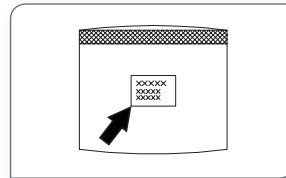
## Packaging Information



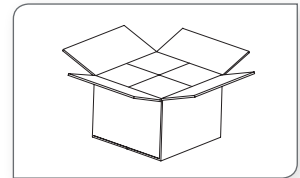
Label the reel;



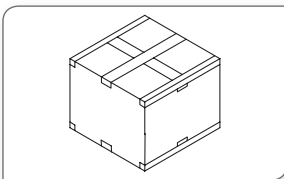
Put reel, accessory bag and desiccant together into static shielding bag;



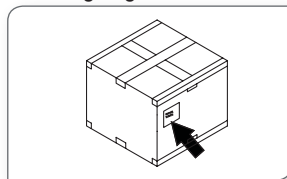
Seal and label the static shielding bag;



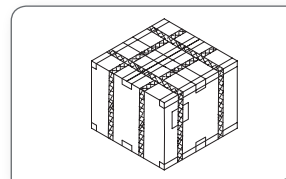
Put the packed static shielding bag into carton box;



Seal the carton box;



Label the box;



Use packing belt to pack. Add edge protectors if necessary.

### Packaging information

Model No.	Product Size (mm)	Carton Size (mm)	Meter/Reel	Reel/Carton	Net Weight(kg)	Gross Weight(kg)
NSR2-6MD-H	5000*8*15	390*390*325	5	18	11.48(1±10%)	14.68(1±10%)

#### Note:

Every 5m for a reel, one reel for a static shielding bag.

The above quantity and weight are only for the illustrated packaging method. There will be differences in the quantity and weight with other packaging methods.

## Installation

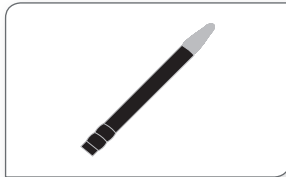
### 1. Tools



Cutter



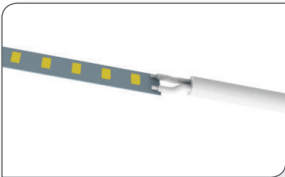
Electric batch



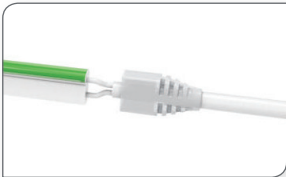
Brush

### 2. Installation steps

#### Details of installation operation at input end



Weld the wire to the PCB board.

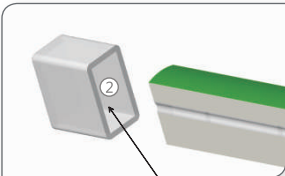


First put waterproof glue inside of the plug, then push into the tape light.

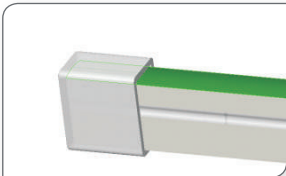


Wipe off the excess glue and wait for the glue to solidify.

#### Details of installation operation at the end part



First put some glue inside of the plug, then push into the tape light

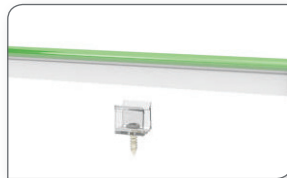


Wipe off the excess glue and wait for the glue to solidify.

### 3. Operation details of installation card



Screw the aluminum track to the installation position.



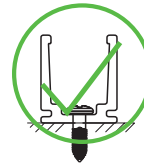
Then slowly press the tape light into the aluminum track.



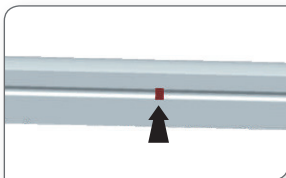
The tape light is flatly and firmly stuck on the aluminum track.

#### Note:

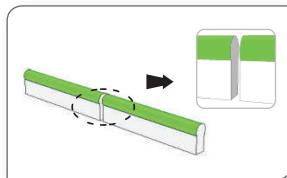
1. At welding part, note the positive and negative poles of lines and board and the corresponding colors on the board; positive to positive and negative to negative
2. Each connection point must use 10g silica gel, and treat waterproof and insulation well;
3. The screw of installation card must perpendicular to installation surface and be fastened, as shown in the right.



### Attentions



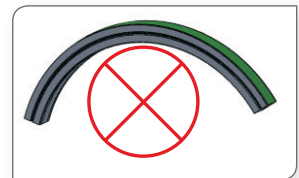
cuttable identifier



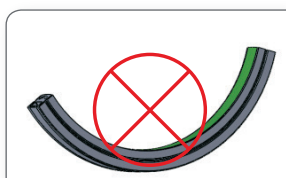
Neat and smooth cut



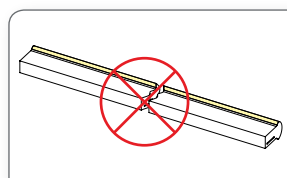
Insert a stick on the reel and place it on the packing box, and rotate the reel to get the product.



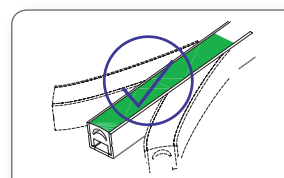
Do not use in convex direction



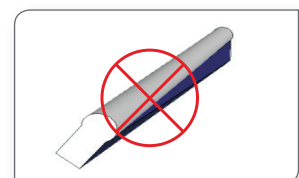
Do not use in concave direction



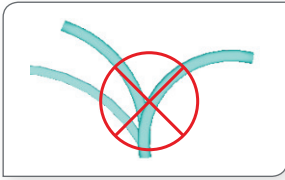
Do not make irregular cuts.



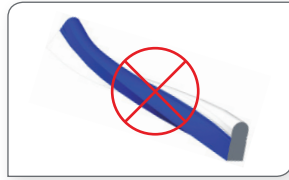
Can be bend left and right



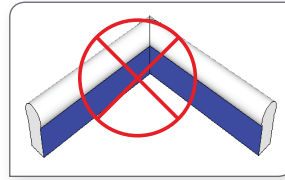
Do not use in distortions



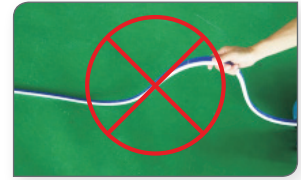
Do not bend many times, for it can endanger electronic lines.



Do not use on wringing (twist)



Do not bend at right angles



Do not throw or pull when taking products

**Note:**

- Cutting marks are on the PCB and can be seen in the bottom of the product.
- The above diagram only shows the correct or wrong way of operation. The product should be based on the actual product.

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**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 led module 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 insulation, waterproof and anti-corrosive treatment.

## Common Faults and Troubleshoot

Quick Guide		
Problems	Reasons	Solutions
All LEDs can not light on.	No electric supply.	Fix the short circuit problem.
	Automatic power protection from the open or short circuit in output of the power supply.	Fix the short circuit problem.
	Wrong connection of power supply.	
LEDs can not light on partly.	Some switching mode power supplies are not powered.	Check the power supply system to fix it.
	Power supply line error.	
	Mistaken wire connection of some of products	Correctly connection
Brightness of LED is inconsistent tor insufficient.	Power overloaded.	Replace with more powerful power
	Power supply circuit excessive consumption.	Make sure the working voltage of the product within $\pm 5\%$ of standard voltage, or keep balance by circuit power consumption.
	Excessive quantities in series connection of the product	Reduce the quantities of the product in series connection to meet requirement.
LED flicker.	Connection point fault.	Remove bad connection point.
	Switching power supply failure.	Replace a new power supply.
	Wrong Installation or use of products	Please follow the instructions

### ⚠ 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.

## Common Faults and Troubleshoot

### Statements:

Repair should be operated by a qualified technician, 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.