

LED

NEON FLEX

NSR0615





- Features**
- Color options: Single color and tunable white.
 - Side bending with good flexibility.
 - Adopt integrated silicone extrusion molding process, good weather resistance.
 - Warranty: 5 years indoor, 3 years outdoor.
 - Customization: multiple spec options, can be customized upon requirements.
 - Single color supports PWM, 0-10V, DALI and DMX dimming.



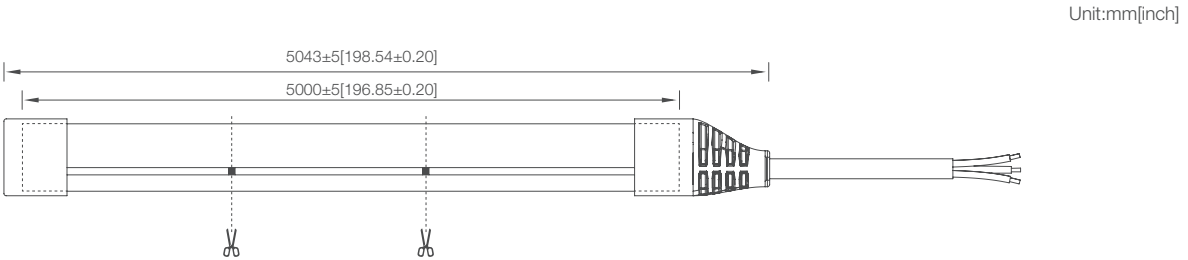
Optical & Electrical Parameters

Model No.	Voltage	Beam Angle	CRI	Color	Lm/m	Lm/W	Rated Power
NSR0615-Single color	12V DC	139°	>90	2100K	66.3	5.8	11.5W/m
			>80	2700K	159.0	14.6	
			>90	3000K	126.4	11.5	
			>80	3500K	166.7	14.9	
			>80	4000K	162.4	14.4	
			>80	5000K	158.1	14.1	
			>80	6000K	167.5	15.3	
			\	Red	36	2.9	11.5W/m
				Green	138	15	
				Blue	39	3.6	
NSR0615-Single color	24V DC	131°	>80	2900-25000K	284	23.6	12W/m
			/	Red	9	0.7	
				Green	210	17.8	
				Blue	14	2.2	
				Yellow	2	0.2	
				Orange	18	3.0	
				Purple	28	6.5	
NSR0615-WN	12V DC	135°	>80	2800K	190	29	7.2W/m
				5000K	200	31	7.2W/m
				W+N	371	29	14.4W/m

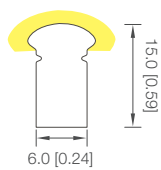
Other Parameters

Model No.	LED QTY	Min. Cuttable Length	Standard Run	Working Temperature	Storage Temperature
NSR0615-Single color(12V)	96pcs/m	10.42mm	5000mm	-20~+60℃	-20~+70℃
NSR0615-Single color(24V)	120pcs/m	50.0mm			
NSR0615-WN	240pcs/m	25.0mm			

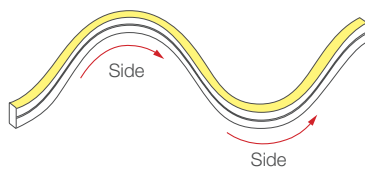
Profile Drawings



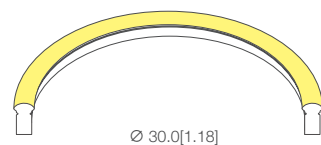
Sectional view



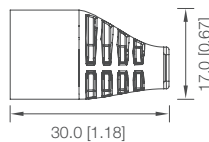
Bend direction



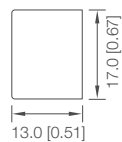
Bending Diameter



Front cap



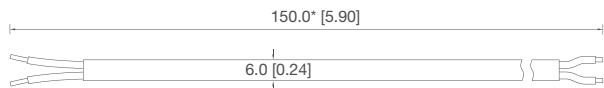
Closing End-cap



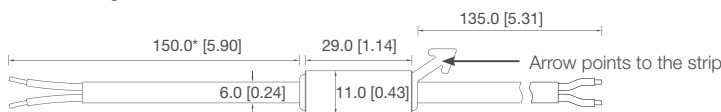
Remarks: "L" is the standard size of the light strip, can be customized according to the multiple of the minimum cutting unit length.

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.

Product accessories

Free



Item: Front cap
Model No.: ASY-NSR0615-N00NNH-EC
Part No.: 01.06.KL18121311
Dimensions L*W*H: 30*9.57*16.4mm
Quantity / 5m: 3pcs



Item: Closing End-cap
Model No.: ASY-NSR0615-N00NNX-EC
Part No.: 01.06.KL18121314
Dimensions L*W*H: 14*10*16mm
Quantity / 5m: 3pcs

Optional



Item: Front cap (Left)
Model No.: ASY-NSR0615-N00NNL-EC
Part No.: 01.06.KL18121312
Dimensions L*W*H: 19*28*17mm
Quantity / 5m: --



Item: Front cap (Right)
Model No.: ASY-NSR0615-N00NNR-EC
Part No.: 01.06.KL18121315
Dimensions L*W*H: 19*9.5*28mm
Quantity / 5m: --



Item: Front cap (bottom)
Model No.: ASY-NSR0615-N00NNB-EC
Part No.: 01.06.KL18121313
Dimensions L*W*H: 26*18*19mm
Quantity / 5m: --



Item: Front cap (Right)
Model No.: ASY-NSR0615-N00NNR-EC
Part No.: 01.06.KL18121315
Dimensions L*W*H: 19*9.5*28mm
Quantity / 5m: --



Item: Aluminum track
Model No.: ASY-NSR0615-A3NN0035-MT
Part No.: 01.08.04201218110035
Dimensions L*W*H: --
Quantity / 5m: --



Item: Aluminum channel
Model No.: ASY-NSR0615-A1NN1000-MT
Part No.: 01.08.04201218111000
Dimensions L*W*H: --
Quantity / 5m: --



Item: Plastic Clip
Model No.: ASY-NSR0615-P1NN0015-MT
Part No.: 01.06.KL17120311
Dimensions L*W*H: 12*9*10mm
Quantity / 5m: 10pcs

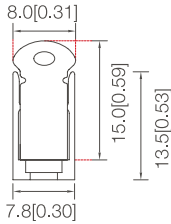


Item: Silicone Glue
Model No.: WR-7516
Part No.: 01.10.0220000187
Dimensions: 45g/pc
Quantity / 5m: 1pc



Item: Screws
Model No.: PA3
Part No.: 01.07.022020A011
Dimensions: PA3*10mm
Quantity / 5m: --

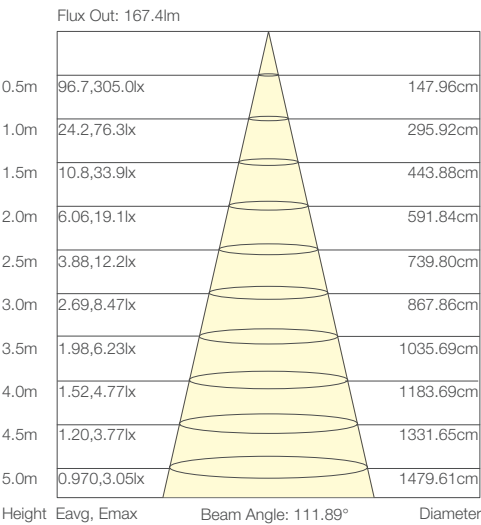
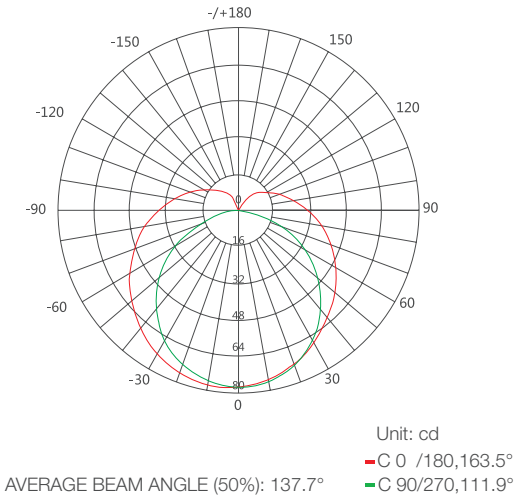
Profile Drawings (neon + aluminum channel)



Aluminum channel (with metal spring)
ASY-NSR0615-A1(A3)NNXXX-MT

Luminous Intensity Distribution Diagram

Average Illumination



Note: The data is the test result of NSR0615-SW+DW. For other data, please consult sales rep.

Recommended power supply upon working length

NSR0615- Single color (24V)

Working Length	Measured Current	Rated Voltage	Measured Power	Recommended Power Supply	Power Supply Mode
1m	0.5 A	24 V DC	12 W	15 W	Single Feed
5m	2.5 A	24 V DC	60 W	75 W	Single Feed
10m	5.0 A	24 V DC	120 W	150 W	Double Feed

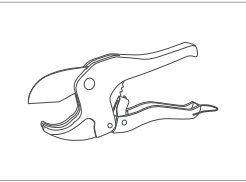
NSR0615- Single color (12V)

Working Length	Measured Current	Rated Voltage	Measured Power	Recommended Power Supply	Power Supply Mode
1m	1.2 A	12 V DC	14.4 W	18 W	Single Feed
5m	4.0 A	12 V DC	48.0 W	60 W	Single Feed

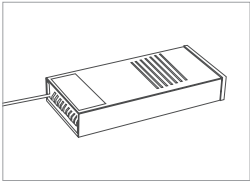
NSR0615-WN

Working Length	Measured Current	Rated Voltage	Measured Power	Recommended Power Supply	Power Supply Mode
1m	1.2 A	12 V DC	14.4W	18 W	Single Feed
5m	4.0 A	12 V DC	48.0 W	60 W	Single Feed

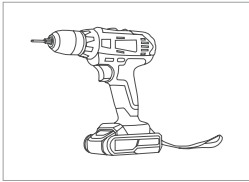
Products and Tools



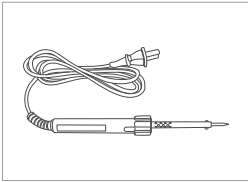
Cutter



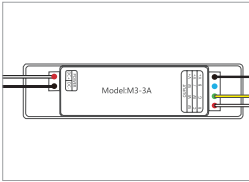
LED power supply



Electric drill



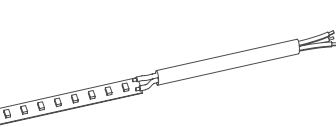
Electric iron



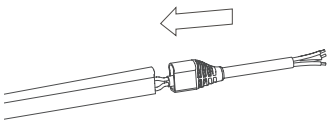
Controller

Installation

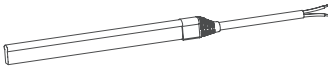
Front cap installation



Weld the wire to the PCB board.

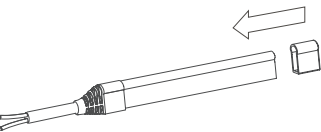


Fill the end cap with glue, then install it to the strip

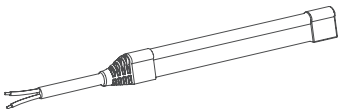


Wipe off the excess glue and wait for drying

Closing-end cap installation

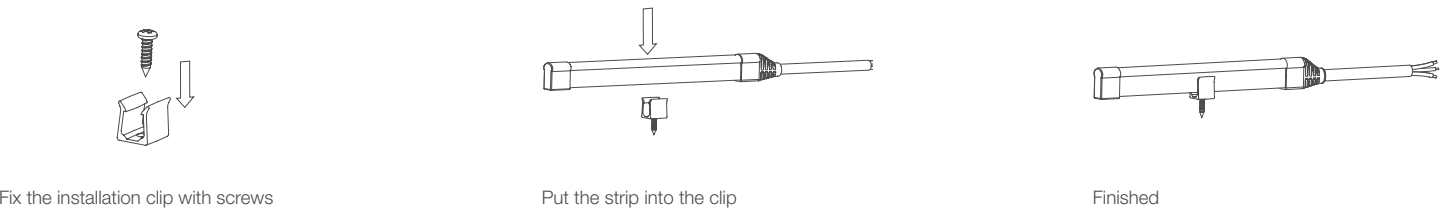


Fill the end cap with glue, then install it to the strip

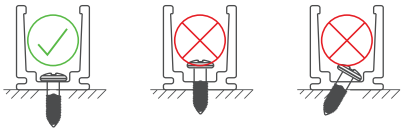


Wipe off the excess glue and wait for drying

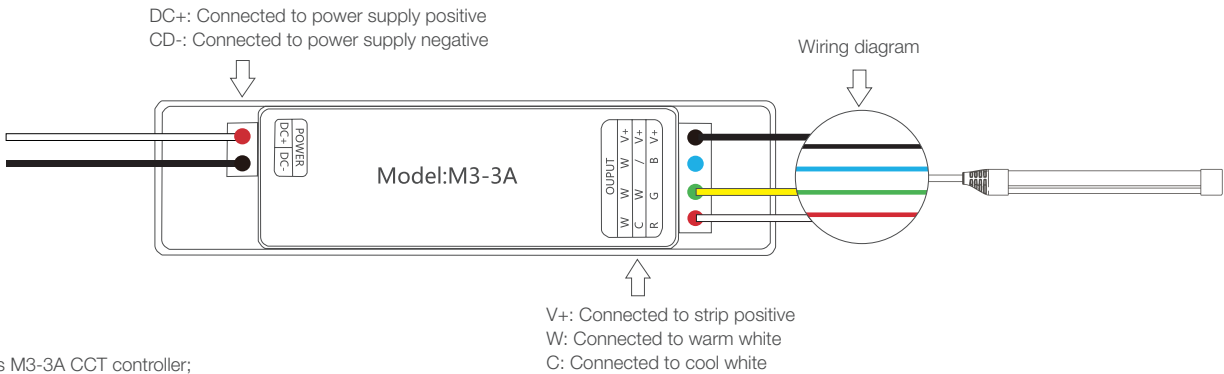
Plastic clip installation



- 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;

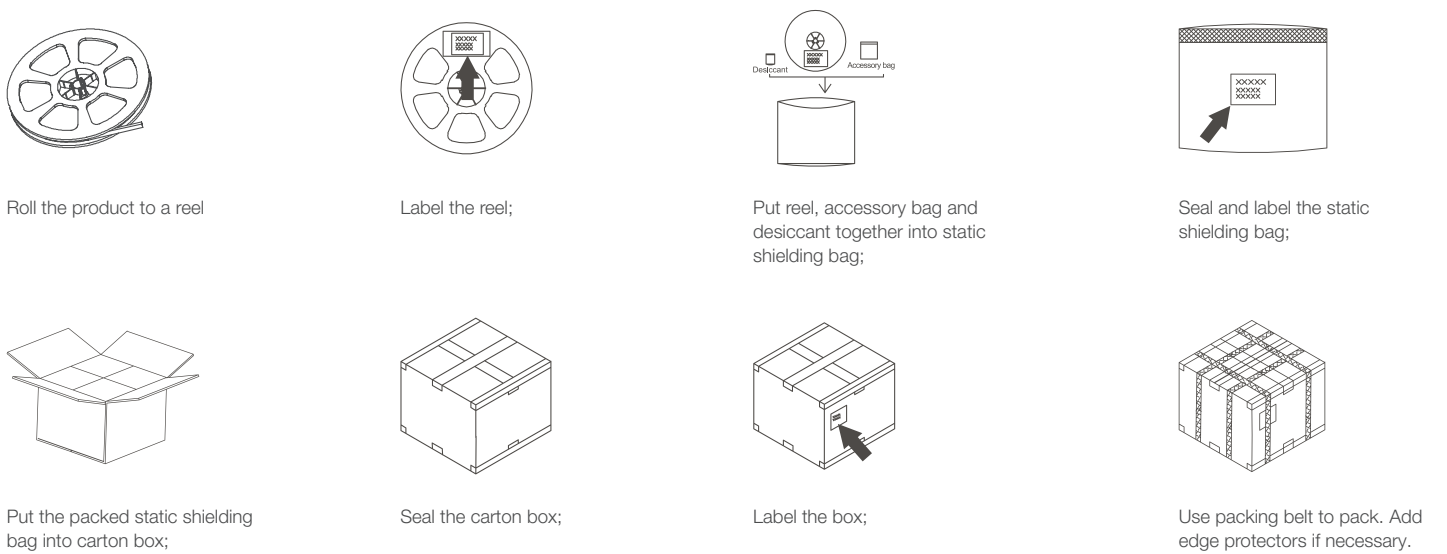


Connection Diagram of Controller



- Notes:
1. The case uses M3-3A CCT controller;
 2. This product supports remote M2 control;
 3. The remote control distance is 30 meters;
 4. M3-3A WN maximum driving power 72W(12V)/144W(24V);
 5. M3-3A controller working voltage: DC12-24V

Packaging Information



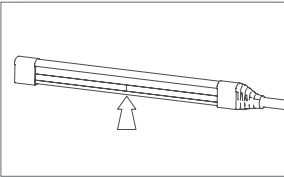
Model No.	Product Size L*W (mm)	Carton Size (mm)	Meter/Reel	Reel/Carton	Net Weight (kg)	Gross Weight (kg)
NSR0615	5000*6*15	390*390*325	5	18	/(1±10%)	14.68 (1± 10%)

- Each roll(5m) of this product is loaded with a reel, and the reel is packed in an aluminum foil bag, and finally in an outer 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.

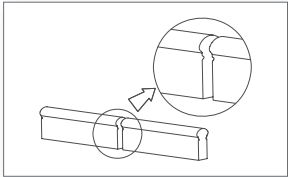
Reliability test

Project	Reference standards	Category	Test conditions	Outcome
Environmental test	Blueview standard	PTC test	TH=-40°C~60°C, cycle every 2h (holding 15min, heating and cooling 45 min)	Pass
		High temperature resistance test	Simulated TH=60°C, continuous power on	
		Room temperature aging test	TH=25°C, continuous power on	
Mechanical strength testing	Blueview standard	Tensile test	Fix the ends of the sample on the tension machine, then power on and record the tension value when the sample is turned off.	
		Twisting test	24V light on; rotate 360° forward and reverse, if the sample still OK, increase the degree of rotation until the sample broken.	

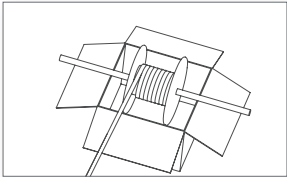
Warning Mark



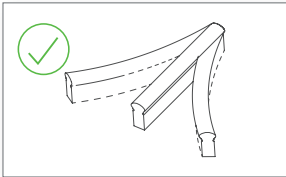
Cuttable identifier



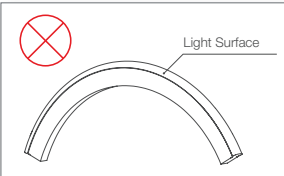
Neat and smooth cut



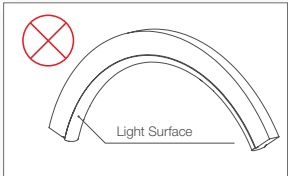
Insert a stick on the reel and place it on the packing box, and rotate the reel to get the product.



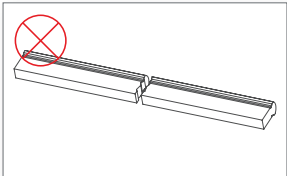
Side bending



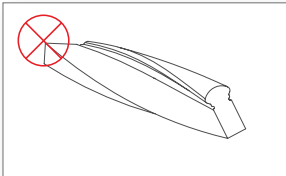
Use in convex direction



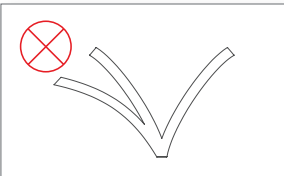
Use in concave direction



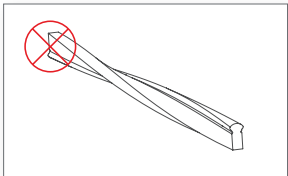
Do not make irregular cuts.



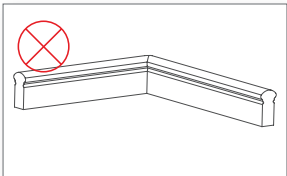
Do not use in distortions



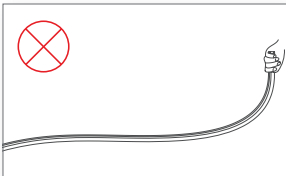
Do not bend many times, for it can endanger electronic lines.



Do not use on wringing (twist)



Do not bend at right angles



Do not throw or pull when taking products

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

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

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
A2.4	Product accessories	2025-11-18