

# LED

# NEON FLEX

## NSF0612







**Features**

- Color options: Single color, WN.
- Adopt high quality components with stable and reliable performance.
- Side bending, suitable for many shapes and good weather resistance.
- Support the use of a controller or a dimmer.
- Warranty: 5 years indoor, 3 years outdoor.
- Customization: multiple spec options, can be customized upon requirements.



**Photo-electric Parameters**

Model No.	Voltage	Beam Angle	CRI	Color	Lm/m	Lm/W	Rated Power (W/m)
NSF0612-Single color	12V DC	113°	>90	2200K	123	10.7	12.0
				2700K	178	16.2	
				2900K	214	18.8	
				3900K	218	19.3	
				4500K	211	18.8	
				4700K	198	18.7	
				5400K	224	19.9	
				5800K	234	21.1	
NSF0612-Single color	12V DC	113°	/	Red	86	7.2	12.0
				Green	114	9.5	
				Blue	39	3.3	
				Yellow	201	16.8	
				W+N	405	32	
NSF0612-WN-12V	12V DC	112°	>80	2900K	206	31	7.2
				5200K	220	33	7.2
				W+N	405	32	14.4
NSF0612-WN-24V	24V DC	112°	>80	2700K	229	31	7.2
				5100K	233	32	7.2
				W+N	459	31	14.4

**Other Parameters**

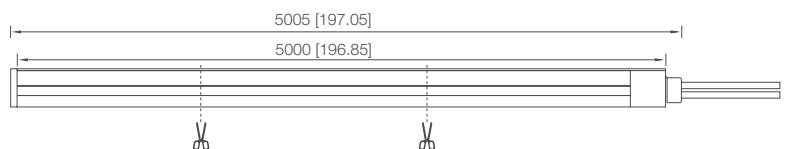
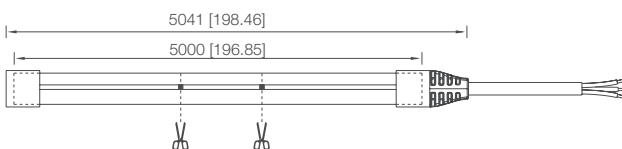
Model No.	LED QTY (pcs/m)	Standard Run	Min. Cuttable Length	Working Temperature	Storage Temperature
NSF0612-Single color	120	5000mm	25.0mm	-20~+60°C	-20~+70°C
NSF0612-WN-12V	240	5000mm	25.0mm		
NSF0612-WN-24V	240	10000mm	50.0mm		

**Profile Drawings**

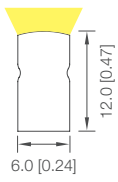
Unit:mm[inch]

Glue Process (IP67)

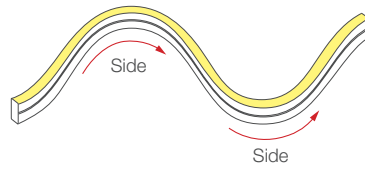
Molding Pressed (IP67)



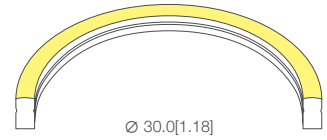
Sectional view



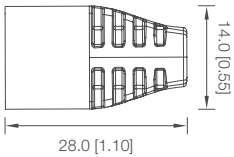
Bend direction



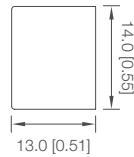
Bending Diameter



Front cap



Closing End-cap

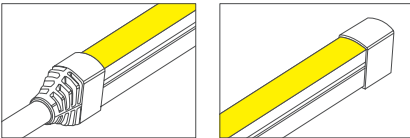


Notes:

within 5m, the strip can be customized according to the integer multiple of the Min. cuttable length.

IP67: suitable for rainy environment or short-term soaking environment; the depth ≤ 1m, the time ≤ 1h. (factory assembly only)

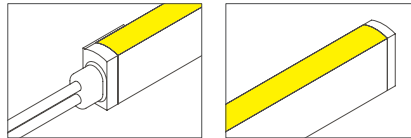
Glue Process (IP67)



**Color**  
Single color / WN

**Outlet Direction**  
Straight / Left / Right / Bottom

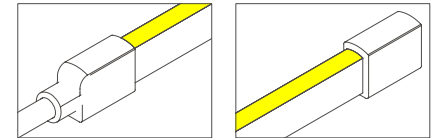
Molding Pressed (IP67)



**Color**  
Single color / WN

**Outlet Direction**  
Straight

Molding Pressed (IP68)



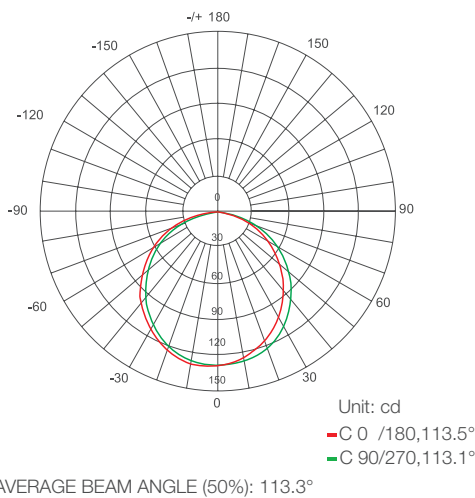
**Color**  
Single color / WN

**Outlet Direction**  
Straight

- Glue process the end cap after cutting, warranty will be provided upon IP65 rated.
- No warranty will be provided if the injection moulded(IP68) end cap destroyed or reprocessed.
- Corresponding molding equipment and mold needed for self-processing injection moulded end cap, contact the sales for more information.

Luminous Intensity Distribution Diagram

Average Illumination



Height	Flux Out: 148.1lm	Avg, Emax	Beam Angle: 112.46°	(CCT=5200K)	Diameter
0.5m	79.5,280.9lx				149.56cm
1.0m	19.9,70.2lx				299.12cm
1.5m	8.83,31.2lx				448.68cm
2.0m	4.97,17.6lx				598.24cm
2.5m	3.18,11.2lx				747.79cm
3.0m	2.21,7.80lx				897.35cm
3.5m	1.62,5.73lx				1046.91cm
4.0m	1.24,4.39lx				1196.47cm
4.5m	0.98,3.47lx				1346.03cm
5.0m	0.80,2.81lx				1495.59cm

Note: for other data, please consult sales rep.

Recommended power supply upon working length

NSF0612-Single color

Working Length	Current	Rated Voltage	Measured Power	Recommended Power Supply	Power Supply Mode
1m	1.0A	12DC V	12.0W	18W	Single Feed
5m	3.6A	12DC V	43.2W	60W	Single Feed

NSF0612-WN-12V

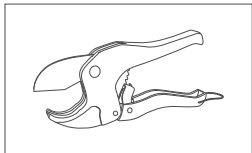
Working Length	Current	Rated Voltage	Measured Power	Recommended Power Supply	Power Supply Mode
1m	1.2A	12DC V	14.4W	18W	Single Feed
5m	4.0A	12DC V	48.0W	60W	Single Feed

NSF0612-WN-24V

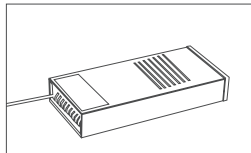
Working Length	Current	Rated Voltage	Measured Power	Recommended Power Supply	Power Supply Mode
1m	0.6A	24DC V	14.4W	24W	Single Feed
10m	6.0A	24DC V	144W	200W	Single Feed

Note: Test the strip and external power together

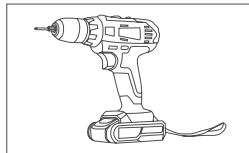
Products and Tools



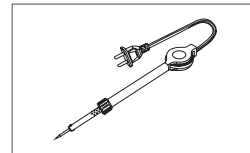
Cutter



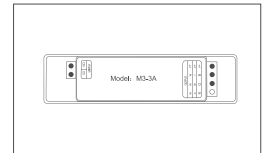
LED power supply



Electric drill



Electric iron



Controller (optional)

Product accessories



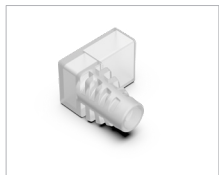
**ASY-NSF0612-N00NNH-EC**

Item: Front cap  
 Dimensions L\*W\*H: 28\*14\*9.23mm  
 Quantity (5m): 3pcs  
 Free/Optional: Free



**ASY-NSF0612-N00NNX-EC**

Item: Closing End-cap  
 Dimensions L\*W\*H: 13\*14\*8mm  
 Quantity (5m): 3pcs  
 Free/Optional: Free



**ASY-NSF0612-N00NNS-EC**

Item: Front cap (Side)  
 Dimensions L\*W\*H: 23\*20\*14mm  
 Quantity (5m): --  
 Free/Optional: Optional



**ASY-NSF0612-N00NNB-EC**

Item: Front cap (bottom)  
 Dimensions L\*W\*H: 2.5\*4\*10mm  
 Quantity (5m): --  
 Free/Optional: Optional



**ASY-NSF0612-A3NN0035-MT**

Item: Aluminum track  
 Dimensions L\*W\*H: 35\*7.80\*13.5mm  
 Quantity (5m): --  
 Free/Optional: Optional



**ASY-NSF0612-A1NN1000-MT**

Item: Aluminum channel  
 Dimensions L\*W\*H: 1000\*7.80\*13.5mm  
 Quantity (5m): --  
 Free/Optional: Optional



**ASY-NSF0612-P1NN0014-MT**

Item: Plastic Clip  
 Dimensions L\*W\*H: 12\*10\*12mm  
 Quantity (5m): 12pcs  
 Free/Optional: Optional



**WR-7516**

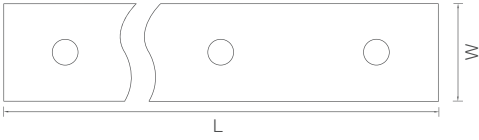
Item: Silicone Glue  
 Dimensions: 45g/pc  
 Quantity: 1pc  
 Free/Optional: Optional



**PA3**

Item: Screws  
 Dimensions L\*W\*H: PA3\*10mm  
 Quantity: 12pcs  
 Free/Optional: Optional

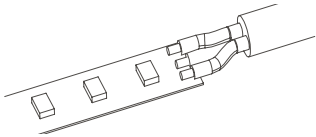
**Accessories diagram**



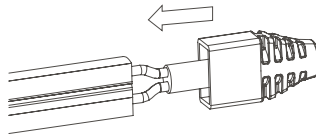
Name	L(mm)	W(mm)	Type
Aluminum channel	1000	7.8	Optional
Aluminum channel X	X	--	Customized

**Installation**

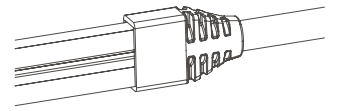
**Front cap installation**



Weld the wire to the PCB board.

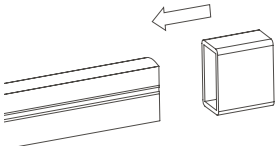


Apply waterproof glue to the front cap, then push the cap into the strip.



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

**Closing-end cap installation**

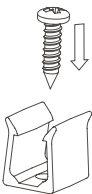


Apply waterproof glue to the end cap, then push the cap into the strip.

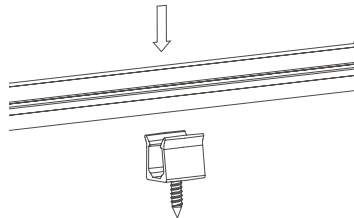


Wipe off the excess glue and wait for the glue to solidify.

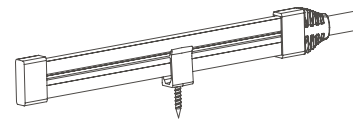
**Plastic clip installation**



Fix the clip with screws



Put the strip into the clip



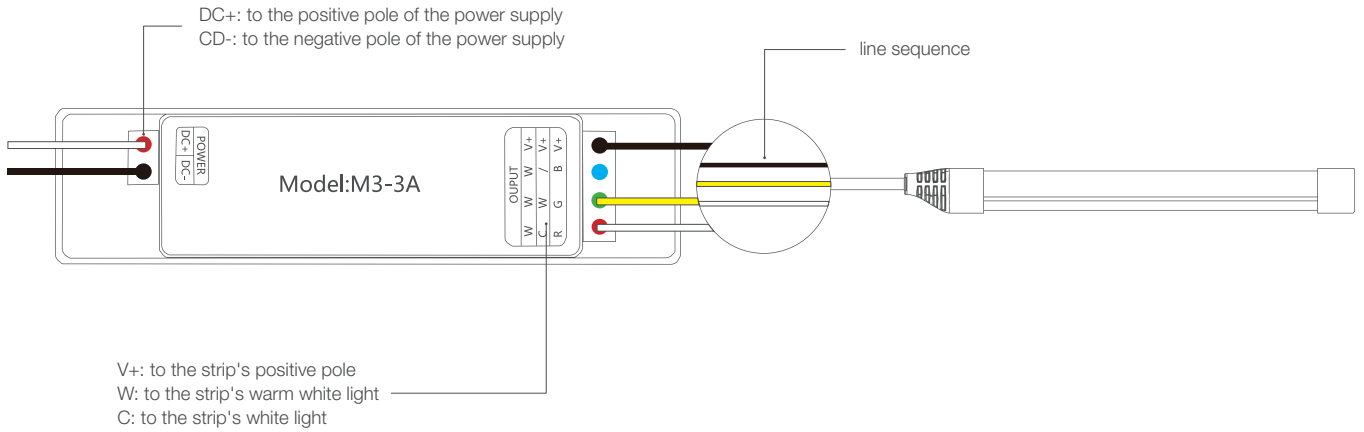
Finished

Notes:

- During welding, 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;

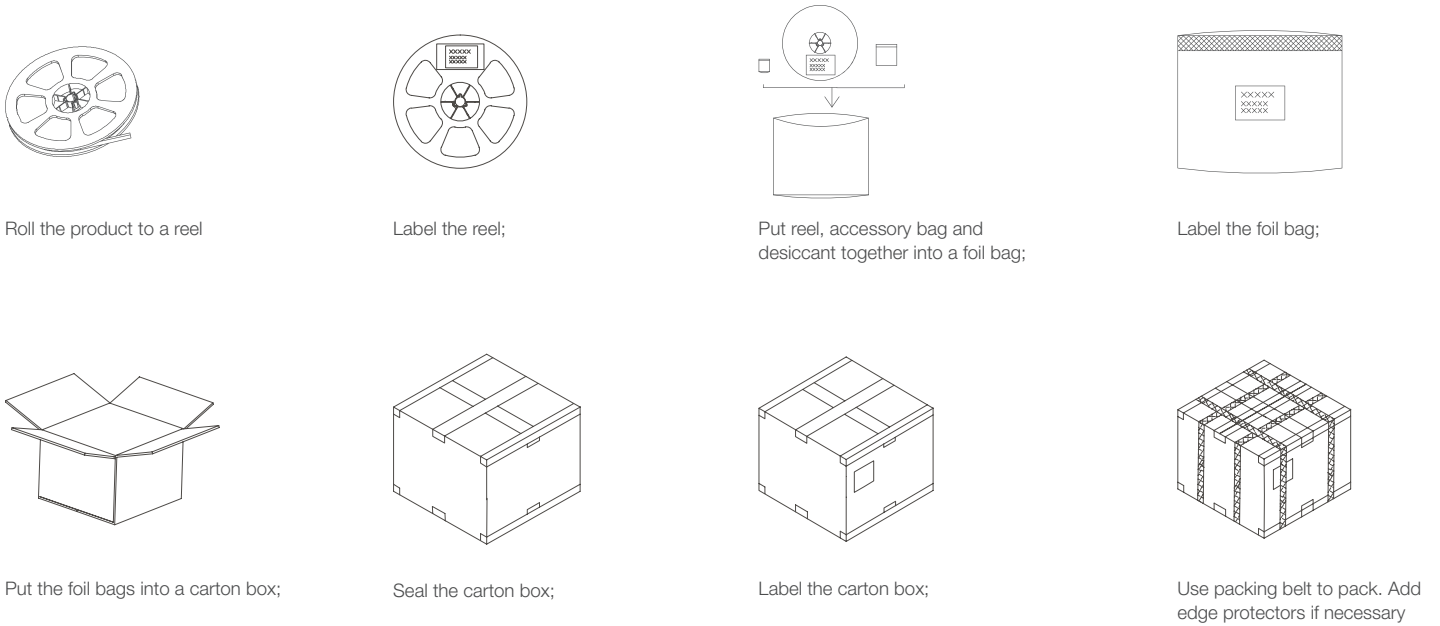


Controller wiring diagram



- 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's working voltage: DC12-24V

Packaging Information



Packaging information

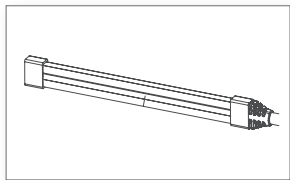
Model No.	Product Size L*W*H (mm)	Carton Size (mm)	Meter/Reel	Reel/Carton	Gross Weight (kg)
NSF0612	5000*6*12	390*390*325	5	20	14.30(1± 10%)
NSF0612-WN-24V	10000*6*12	390*390*325	10	15	17.55(1± 10%)

- One piece product(5/10m) per reel, and the reel is packed in an aluminum foil bag, and finally in an 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.

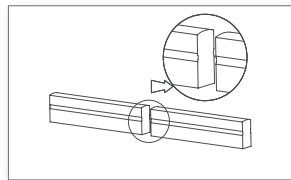
Reliability test

Project	Reference standards	Category	Test conditions	Outcome
Environmental test	Blueview standard	PTC test	Test temperature -40°C to 60°C, cycle once every 2h (temperature holding time 15min, heating and cooling time 45min)	Pass
		Room temperature aging test	TH=25°C, continuous power on	
		Temperature cycling test	Th = 60°C/4h, Ta =20°C/1H, TL=- 40°C/4h,continuous cycle lighting	
		High temperature resistance test	Simulated TH=60 °C, continuous power on	
Mechanical strength testing	Blueview standard	Room temperature bending test	Bending diameter 10cm, T=25°C, continuous power on	Pass
		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.	

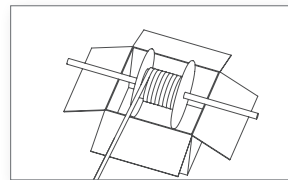
Warning Mark



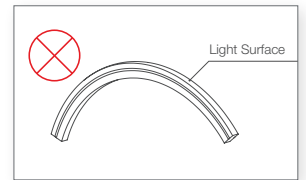
Cuttable identifier



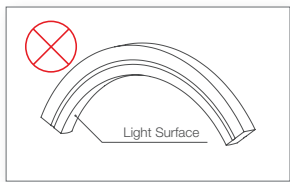
Neat and smooth cut



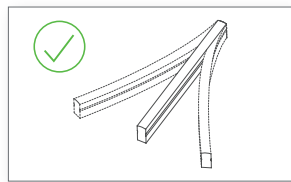
Slide a spindle into the roll and then place the roll with spindle on top of the box provided.



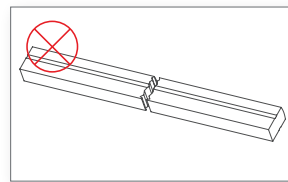
Do not use in convex direction



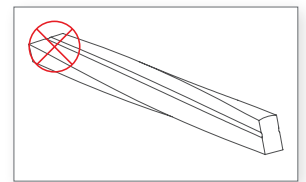
Do not use in concave direction



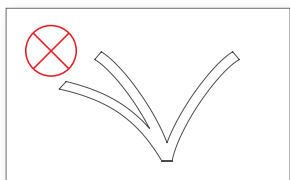
Side bending



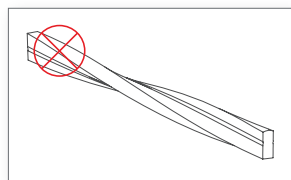
Do not make irregular cuts.



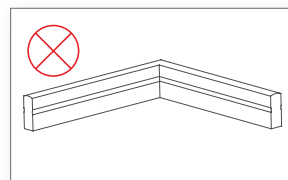
Do not use in distortions



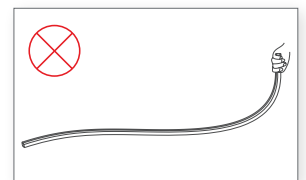
Do not bend many times, for it can endanger electronic lines.



Do not use on wringing (twist)



Do not bend at right angles



Do not throw or pull when taking products

Note:

The cutting mark is on the PCB, and the cutting position can be identified in the product cutting line window or the laser mark on the product surface; After unpacking, use warning signs during handling and installation, and rigorous operation can bring a pleasant experience;

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.

### Attentions before installation

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- 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

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#### 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.
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#### Recycling

- LED lighting products belongs to electronic products, please do recycling treatment according to the relevant WEEE directives.
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#### BLUEVIEW ELEC-OPTIC TECH CO.,LTD

Tel: +86-28-8148 0011  
 Fax: +86-28-8148 1258

Web.: Web.: [www.blueviewled.com](http://www.blueviewled.com)  
 Email: [sales@blueviewled.com](mailto:sales@blueviewled.com)

Add.: No. 1000, Section 2, Konggang 2nd Road, Shuangliu, Chengdu 610207, Sichuan, CHINA

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