











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.
- 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.

























Photo-electric Parameters

Model No.	Voltage	Beam Angle	Ra	Color	Lm/m	Lm/W	(W/m)
NSF0612-Single color	12V DC	113°	>90	2200K	123	10.7	12.0
			>80	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	
			/	Red	86	7.2	12.0
				Green	114	9.5	
				■ Blue	39	3.3	
				Yellow	201	16.8	
NSF0612-Single color	24V DC	113°	>90	2200K	374	38	9.84
				2700K	383	39	
				2900K	393	40	
				3900K	393	40	
				4500K	433	44	
				4700K	423	43	
				5400K	413	42	
			/	Red	128	13	9.84
				Green	383	39	
				■ Blue	88	9	
				Yellow	69	7	
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-12V	120	5m	25.0mm	-20~+60°C	-20~+70°C
NSF0612-Single color-24V	140	13m	50.0mm		
NSF0612-WN-12V	240	5m	25.0mm		
NSF0612-WN-24V	240	10m	50.0mm		



Profile Drawings

Unit:mm[inch]

Glue Process (IP67)

Molding Pressed (IP67)

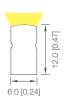


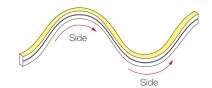


Sectional view

Bend direction

Bending Diameter







Wire Spec





Wire with anti-wicking ferrule



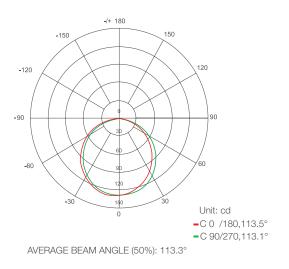


Notes:

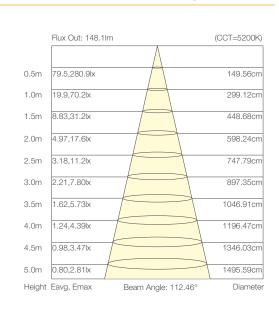
- You can choose one of the above two wires.
- 2/3/4/5 cores are available.
- The wire length marked with '*' supports customization.
- Don't suggest ferrule in the water avoiding Oxidation.
- Do not disassemble or reprocess the ferrule; otherwise, we will not be responsible for the consequences.

Luminous Intensity Distribution Diagram

Average Illumination



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

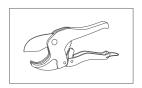
Working Length	Current	Rated Voltage	Measured Power	Recommended Power Supply	Power Supply Mode
1m	1.2A	12DC V	14.4W	18W	Single Feed
5m	4.0A	12DC V	48.0W	60W	Single Feed

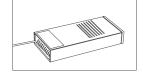
NSF0612-WN-24V

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

Note: Test the strip and external power together

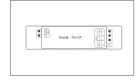
Products and Tools











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

 Part No.:
 01.06.KL17120321

Quantity (5m): 3pcs Free/Optional Free



ASY-NSF0612-N00NNX-EC

 Item:
 Closing End-cap

 Dimensions L*W*H:
 13*14*8mm

 Part No.:
 01.06.KL17120331

Quantity (5m): 3pcs Free/Optional Free



ASY-NSF0612-N00NNS-EC

 Item:
 Front cap (Side)

 Dimensions L*W*H:
 23*20*14mm

 Part No.:
 01.06.KL18092912

Free/Optional Optional



ASY-NSF0612-N00NNB-EC

Item: Front cap (bottom)
Dimensions L*W*H: 2.5*4*10mm
Part No.: 0.106.KL18092911

Free/Optional Optional



ASY-NSF0612-A3NN0035-MT

 Item:
 Aluminum track

 Dimensions L*W*H:
 35*7.80*13.5mm

 Part No.:
 01.08.04201218110035

Free/Optional Optional



ASY-NSF0612-A1NN1000-MT

 Item:
 Aluminum channel

 Dimensions L*W*H:
 1000*7.80*13.5mm

 Part No.:
 01.08.04201218111000

Free/Optional Optional



ASY-NSF0612-P1NN0014-MT

 Item:
 Plastic Clip

 Dimensions L*W*H:
 12*10*12mm

 Part No.:
 01.06.KL17120311

Quantity (5m): 12pcs Free/Optional Optional



WR-7516

 Item:
 Silicone Glue

 Dimensions:
 45g/pc

 Part No.:
 01.10.0220000187

Quantity: 1pc Free/Optional Optional





PA3

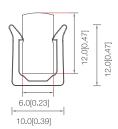
Item:ScrewsDimensions L*W*H:PA3*10mmQuantity:12pcsFree/OptionalOptional

Accessories diagram



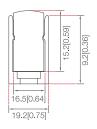
Name	L(mm)	W(mm)	Type
Aluminum channel	1000	7.8	Optional
Aluminum channel X	X		Customized

Profile Drawings (neon + aluminum channel)



Aluminum channel (Aluminum clip)

ASY-NSF0612-P1NNXXXX-MT

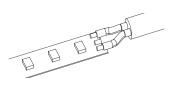


Aluminum channel (Aluminum clip)

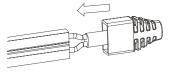
ASY-NSF0612-A1(A3)NNXXXX-MT

Installation

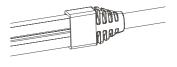
Front cap installation



Weld the wire to the PCB board.

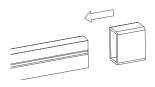


Apply waterproof glue to the front cap, then push the cap into the strip.

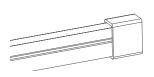


Wipe off the excess glue and wait for the glue to solidify.

Closing-end cap installation

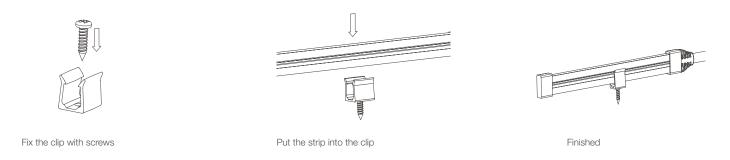


Apply waterproof glue to the end cap, then push the cap into the strip.



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

Plastic clip installation





Press in/out gently; avoid excessive force; ensure one-time, smooth installation/removal.

Notes:

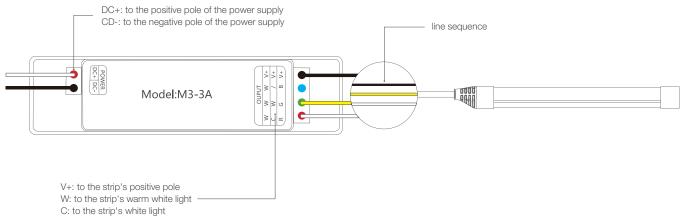
- During welding, please pay attention to the positive and negative poles of the wire and the strip;
- Each connection must use 10g silica gel for waterproof and insulating treatment;
- The screws must be vertical to the mounting surface and be fastened, as shown in the figure on the right;
- Please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



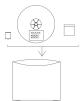
Packaging Information



Roll the product to a reel



Label the reel;



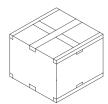
Put reel, accessory bag and desiccant together into a foil bag;



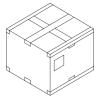
Label the foil bag;



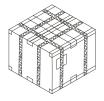
Put the foil bags into a carton box;



Seal the carton box;



Label the carton box;



Use packing belt to pack. Add edge protectors if necessary

Packaging information

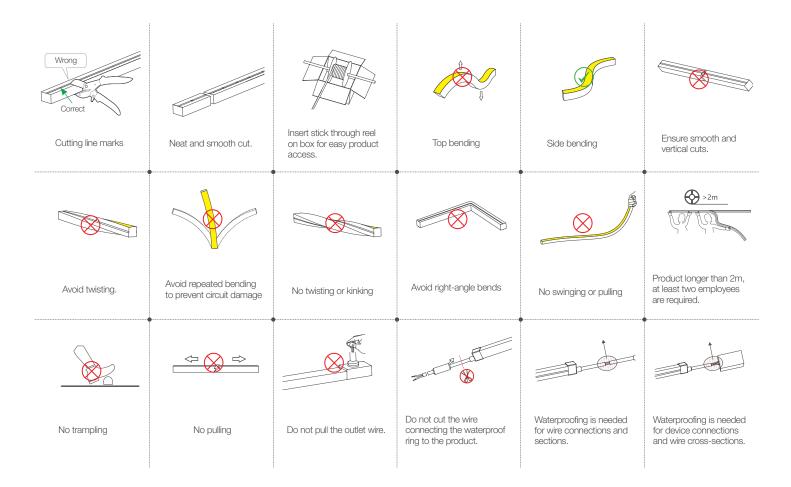
Model No.	Product Size L*W*H (mm)	Carton Size (mm)	Meter/Reel	Reel/Carton	Gross Weight (kg)
NSF0612	5000*6*12	390*390*325	5	20	14.30(1± 10%)
NSF0612-WN-24V	10000*6*12	390*390*325	10	15	17.55(1± 10%)

- 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	
		PTC test	Test temperature -40°C to 60°C, cycle once every 2h (temperature holding time 15min, heating and cooling time 45min)		
	Diversion standard	Room temperature aging test	TH=25°C, continuous power on	D	
Environmental test	Blueview 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		
Mechanical strength testing		Room temperature bending test	Bending diameter 10cm, T=25°C, continuous power on		
	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.	Pass	
		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

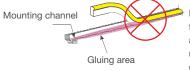


Note:

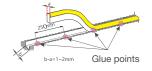
- 1. There are cutting marks on the FPCB;
- 2. Please pay attention to the above warnings during transportation and mounting;

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.

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
A2.5	Update: Basic Parameters	2025-4-28

BLUEVIEW	ELEC-OPTIC	TECH	CO.,LTD
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\square	Tel: +86-28-8148 0011
	Fax: +86-28-8148 1258

Web.:	Web.: www.blueviewled.com
Email:	sales@blueviewled.com