



LED NEON FLEX

NSR0512





Features

- Color options: Single color.
- Design: Superior design with exquisite craftsmanship ensure stable and reliable performance.
- Warranty: 5 years indoor, 3 years outdoor.
- Side bending with good flexibility.
- 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	CRI	Color	Lm/m	Lm/W	Rated Power (W/m)
NSR0512	24V DC	>90	2300K	215	22.1	9.6
		>80	2500K	194	18.7	
		>80	2700K	183	19.2	
		>80	2900K	189	19.0	
		>80	4000K	211	20.4	
		>80	5000K	205	19.8	
		>90	6000K	221	20.2	

Other Parameters

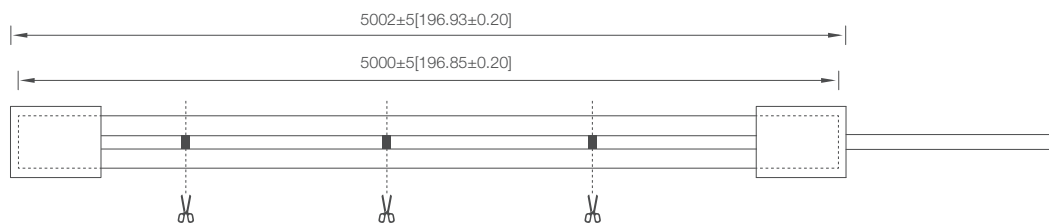
Model No.	LED QTY (pcs/m)	Min. Cuttable Length	Standard Run	Working Temperature	Storage Temperature
NSR0512	120	50mm	5000mm	-20~+60°C	-20~+70°C

Note:

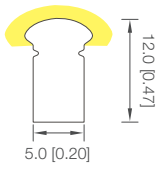
The given data are typical values. Due to tolerances of the production process and the electrical components, values for light output and electrical power can vary up to 10%.

Profile Drawings

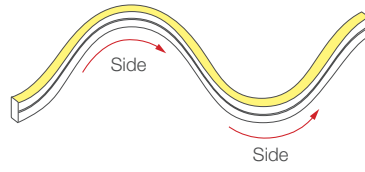
Unit:mm[inch]



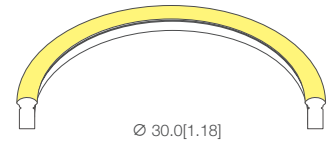
Sectional view



Bend direction

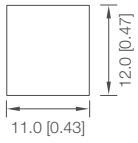


Bending Diameter



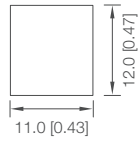
Front cap

Glue Process (IP67)



Closing End-cap

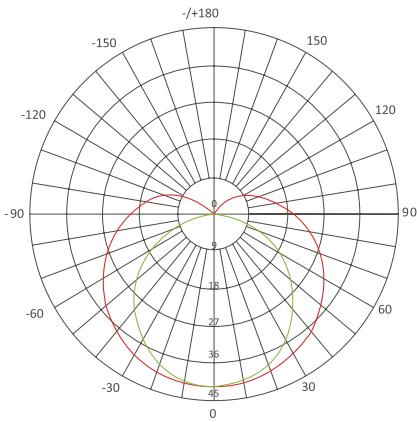
Glue Process (IP67)



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

Luminous Intensity Distribution Diagram

Average Illumination



Unit: cd
 - C 0 /180,175.5°
 - C 90/270,110.8°
 AVERAGE BEAM ANGLE (50%): 143.1°

Flux Out: 167.4lm

Height	Beam Angle: 111.89°	Diameter
0.5m	60.1,174.9lx	142.53cm
1.0m	15.0,43.7lx	285.06cm
1.5m	6.68,19.4lx	427.59cm
2.0m	3.76,10.9lx	570.13cm
2.5m	2.40,7.00lx	712.66cm
3.0m	1.67,4.86lx	855.19cm
3.5m	1.23,3.60lx	997.72cm
4.0m	0.94,2.73lx	1140.25cm
4.5m	0.74,2.16lx	1282.78cm
5.0m	0.60,1.75lx	1425.31cm

Note: for other data, please consult sales rep.

Recommended power supply upon working length

Working Length	Measured Current	Rated Voltage	Measured Power	Recommended Power Supply	Power Supply Mode
1m	0.4 A	24 V DC	9.6 W	12 W	Single Feed
5m	1.8 A	24 V DC	43.2 W	60 W	Single Feed
10m	3.6 A	24 V DC	86.4 W	120 W	Double Feed

Product accessories



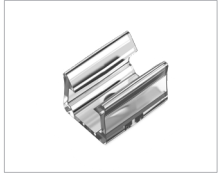
ASY-NSR0512-N00NNH-EC

Item: Front cap
 Dimensions L*W*H: 11*14*8mm
 Quantity / 5m: 3pcs
 Free/Optional: Free



ASY-NSR0512-N00NNX-EC

Item: Closing End-cap
 Dimensions L*W*H: 11*14*8mm
 Quantity / 5m: 3pcs
 Free/Optional: Free



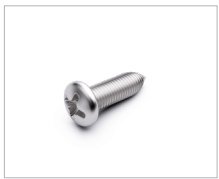
ASY-NSR0512-P1NN0015-MT

Item: Plastic Clip
 Dimensions L*W*H: 12*9*10mm
 Quantity / 10m: --
 Free/Optional: Optional



WR-7516

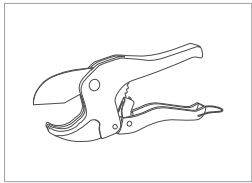
Item: Silicone Glue
 Dimensions: 45g/pc
 Quantity / 10m: --
 Free/Optional: Optional



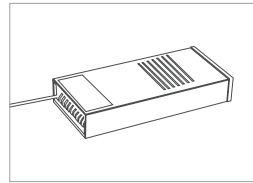
PA3

Item: Screws
 Dimensions L*W*H: PA3*10mm
 Quantity / 10m: --
 Free/Optional: Optional

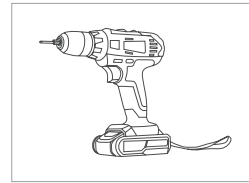
Products and Tools



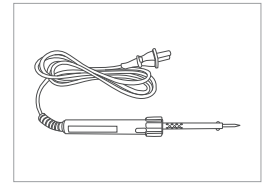
Cutter



LED power supply



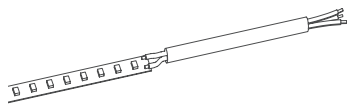
Electric drill



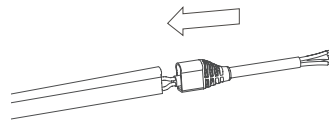
Electric iron

Installation

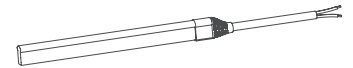
Front cap installation



Weld the wire to the PCB board.

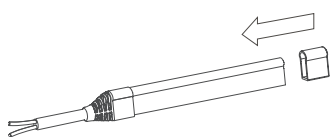


Fill the end cap with glue, then install it to the strip

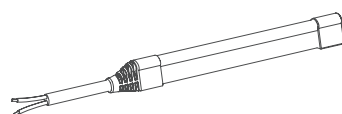


Wipe off the excess glue and wait for drying

Closing-end cap installation

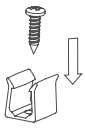


Fill the end cap with glue, then install it to the strip

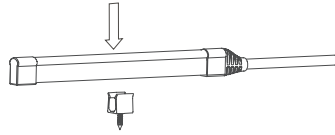


Wipe off the excess glue and wait for drying

Plastic clip installation



Fix the installation clip with screws



Put the strip into the clip



Finished

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;

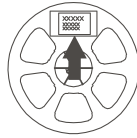


Packaging Information

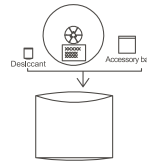
5m standard run length



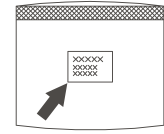
Roll the product to a reel



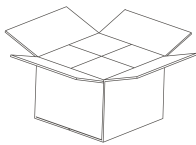
Label the reel;



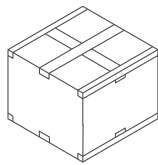
Put reel, accessory bag and desiccant together into static shielding bag;



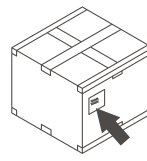
Seal and label the static shielding bag;



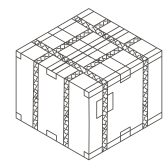
Put the packed static shielding bag into carton box;



Seal the carton box;



Label the box;



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

Packaging information

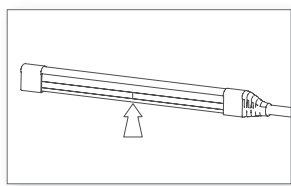
Model No.	Product Size L*W (mm)	Carton Size (mm)	Meter/Reel	Reel/Carton	Net Weight (kg)	Gross Weight (kg)
NSR0512	5000*5*12	390*390*325	5	16	/(1±10%)	12.55 (1± 10%)

- 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.

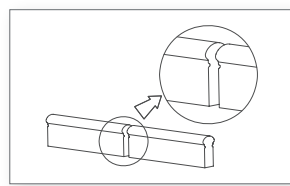
Reliability test

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.	

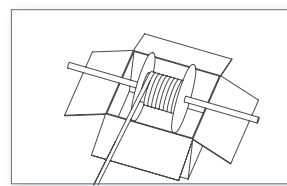
Warning Mark



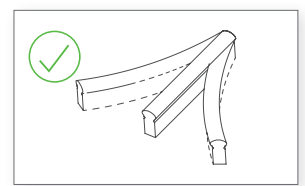
Cuttable identifier



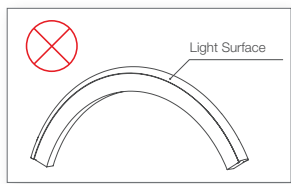
Neat and smooth cut



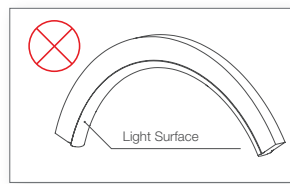
Insert a stick on the reel and place it on the packing box, and rotate the reel to get the product.



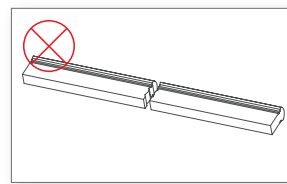
Side bending



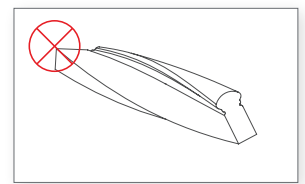
Use in convex direction



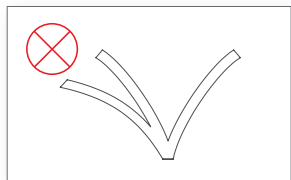
Use in concave direction



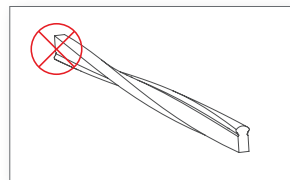
Do not make irregular cuts.



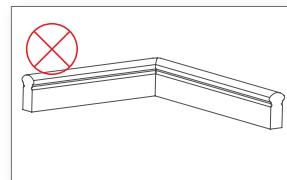
Do not use in distortions



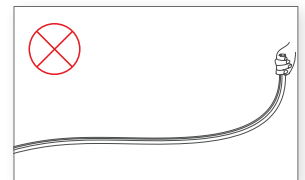
Do not bend many times, for it can endanger electronic lines.



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

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.

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

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