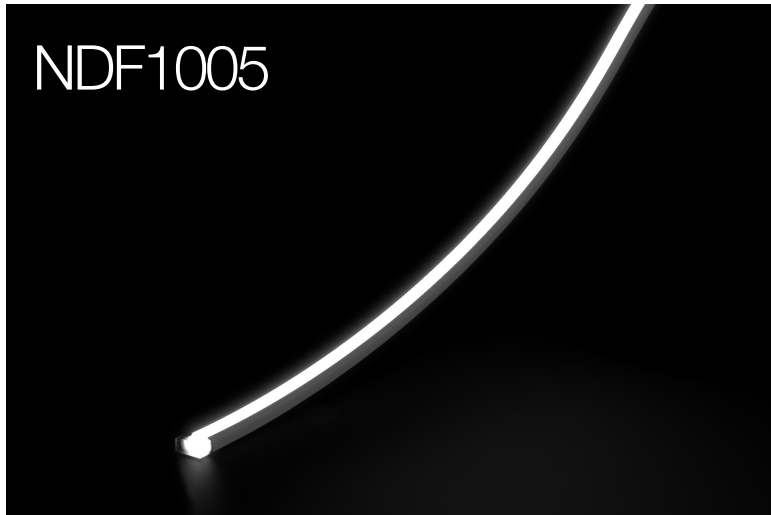


# LED NEON FLEX NDF1005





**Features**

- Color options: Single color.
- Design: Superior design with exquisite craftsmanship ensure stable and reliable performance.
- Top bending and easy to shape
- Can be matched with the dimmer.
- Warranty: 5 years indoor, 3 years outdoor.
- Customization: multiple spec options, can be customized upon requirements.



**Optical & Electrical Parameters**

Model No.	Voltage	CRI	Color	Lm/m	Lm/W	Rated Power (W/m)
NDF1005-Single color	24V DC	>90	2200K	388	51	7.2
			2700K	454	61	
			3000K	467	62	
			3300K	496	65	
			3900K	470	63	
			5000K	520	70	
			6000K	490	66	
NDF1005-Single color	24V DC	/	Red	45	6	7.2
			Green	510	71	
			Blue	98	13	
			Yellow	48	6	
			Orange	40	5	

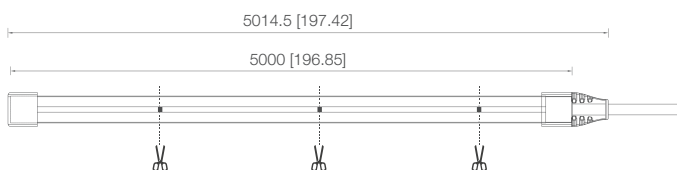
**Other Parameters**

Model No.	LED QTY (pcs/m)	Standard Run	Min. Cuttable Length	Working Temperature	Storage Temperature
NDF1005-Single color	336	5000mm	20.83mm	-20~+60°C	-20~+70°C

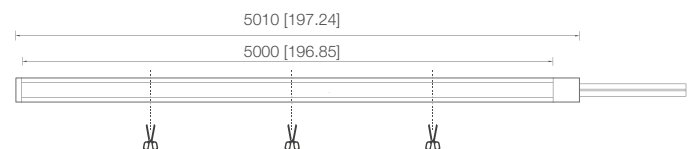
**Profile Drawings**

Unit:mm [inch]

Glue Process (IP67)

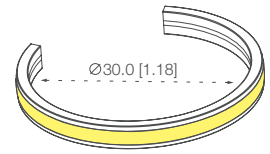
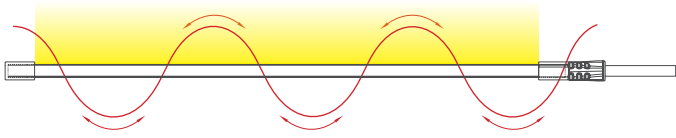


Glue Process (IP67)



Bend direction

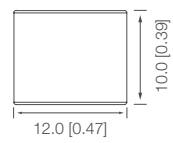
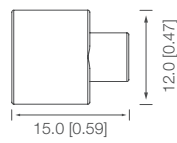
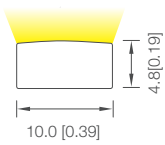
Bending Diameter



Sectional view

Front cap

Closing End-cap



Glue Process (IP67)

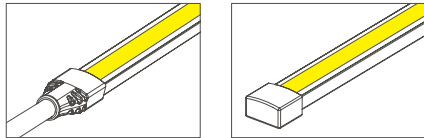
Glue Process (IP67)

Notes:

IP67: Suitable for wet environment, can be soaked for a short time, the depth  $\leq 1\text{m}$ , the time  $\leq 1\text{h}$ . (factory assembly only)  
 Within 5m, the strip can be customized according to the integer multiple of the Min. cuttable length.

IP Process Technology

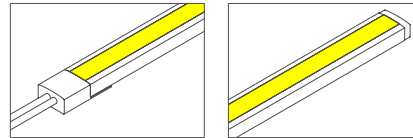
**Glue Process (IP67)**



**Color**  
Single color

**Outlet Direction**  
Straight

**Molding Pressed (IP67)**



**Color**  
Single color

**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.

## Recommended power supply upon working length

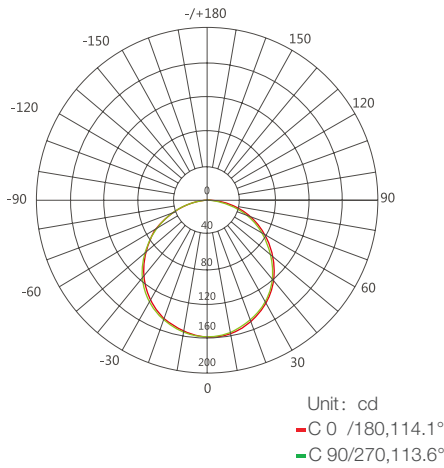
NDF1005

Working Length	Measured Current	Rated Voltage	Measured Power	Recommended Power	Power Supply Mode
1m	0.3 A	24V DC	7.2 W	12 W	Single Feed
5m	1.34 A	24V DC	32.16 W	48 W	Single Feed



Luminous Intensity Distribution Diagram

Average Illumination



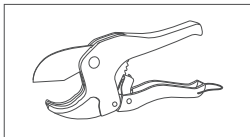
AVERAGE BEAM ANGLE (50%): 113.9°

Height	Eavg, Emax	Diameter
0.5m	185.3,662.0lx	152.94cm
1.0m	46.3,165.5lx	305.89cm
1.5m	20.6,73.6lx	458.83cm
2.0m	11.6,41.4lx	611.78cm
2.5m	7.41,26.5lx	764.72cm
3.0m	5.15,18.4lx	917.66cm
3.5m	3.78,13.5lx	1070.61cm
4.0m	2.90,10.3lx	1223.55cm
4.5m	2.29,8.17lx	1376.50cm
5.0m	1.85,6.62lx	1529.44cm

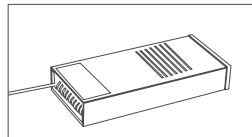
Flux Out: 345.1lm      4000K  
 Beam Angle: 113.64°

Note: Above data are tested at 4000K, for other date, please consult sales rep.

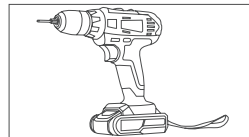
Products and Tools



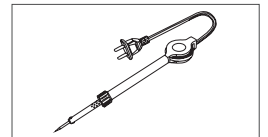
Cutter



LED power supply



Electric drill



Electric iron

Product accessories



Item: Front cap  
 Model No.: ASY-NDF1005-N00NNH-EC  
 Dimensions L\*W\*H: 25.0\*12.7\*7.6mm  
 Quantity (5m): 4pcs  
 Free/Optional: Free



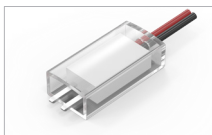
Item: Closing End-cap  
 Model No.: ASY-NDF1005-N00NNX-EC  
 Dimensions L\*W\*H: 11.0\*12.7\*6.6mm  
 Quantity (5m): 4pcs  
 Free/Optional: Free



Item: Aluminum clip  
 Model No.: ASY-NDF1005-A3NN0020-MT  
 Dimensions L\*W\*H: 20\*12.4\*7mm  
 Quantity (5m): 15pcs  
 Free/Optional: Free



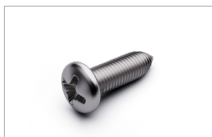
Item: PC clip  
 Model No.: ASY-NDF1005-P1NN0020-MT  
 Dimensions L\*W\*H: 25\*12\*9mm  
 Quantity (5m): 15pcs  
 Free/Optional: Free



Item: Front connector set (no welding)  
 Model No.: ASY-NDF1005-F00NNH-EC  
 Dimensions L\*W\*H: 32.8\*15.6\*10.4mm  
 Quantity (5m): 1pcs  
 Free/Optional: Optional



Item: PC channel  
 Model No.: ASY-NDF1005-P3NN1000-MT  
 Dimensions L\*W\*H: 1000.0\*12.0\*9.0mm  
 Quantity (5m): 5pcs  
 Free/Optional: Optional

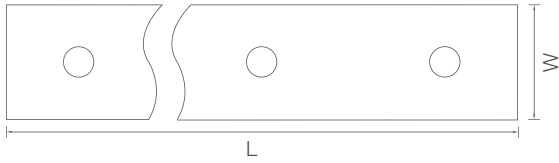


Item: Screws  
 Model No.: PA3  
 Dimensions L\*W\*H: PA3\*10mm  
 Quantity (5m): 30pcs  
 Free/Optional: Optional



Item: Silicone Glue  
 Model No.: WR-7516  
 Dimensions: 45g/pc  
 Quantity (5m): 1pcs  
 Free/Optional: Optional

Accessories diagram



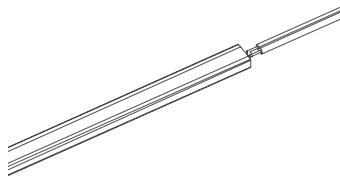
Name	L(mm)	W(mm)	Type
PC clip	25	12	Optional
PC channel	1000	12	Customized

Note:

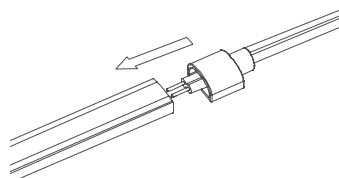
1. All accessories can be added according to customer requirements;
2. If customers want to process molded caps by themselves, they should use the corresponding molds and molding equipment;
3. If customers reprocess the molded cap themselves, the resulting quality risks are not covered by the warranty;

Installation Methods and Steps

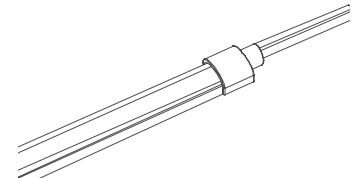
Front cap installation



Weld the wire to the PCB board.

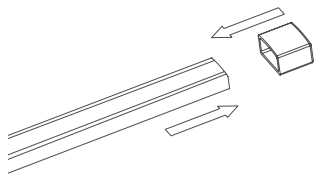


Apply waterproof glue to the front cap, then push the cap into the strip.

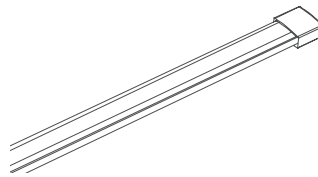


Wipe off the excess glue and wait for the glue to solidify.

Closing end-cap installation



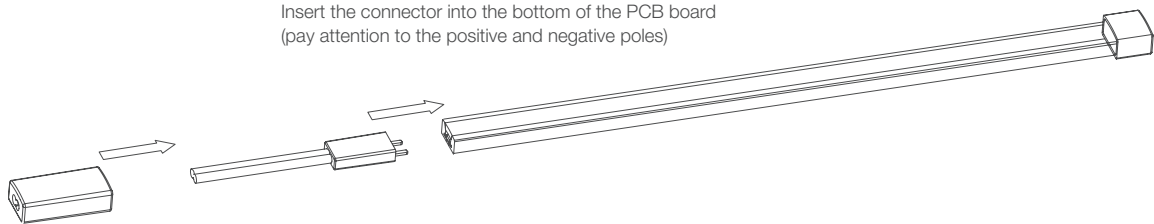
Apply waterproof glue to the end cap, then push the cap into the strip.



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

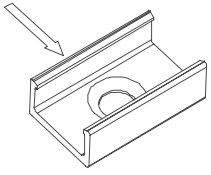
Connector installation

Insert the connector into the bottom of the PCB board (pay attention to the positive and negative poles)

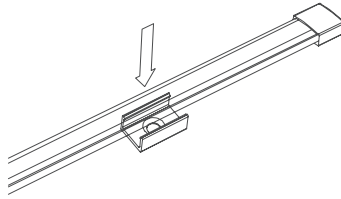


Install the connector cover onto the connector (pay attention to wires)

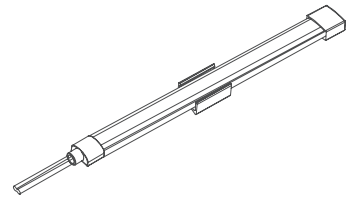
Aluminum track installation



Screw the aluminum track to the installation position.



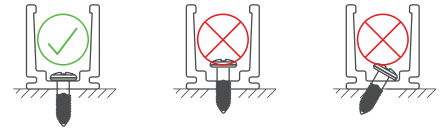
Press the strip into the aluminum track



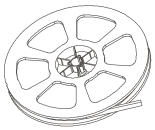
Finished

Notes:

- 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;



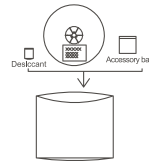
Packaging Information



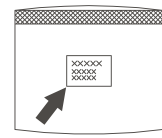
Roll the product to a reel



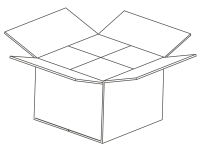
Label the reel;



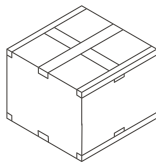
Put reel, accessory bag and desiccant together into static shielding bag;



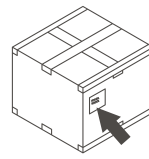
Seal and label the static shielding bag;



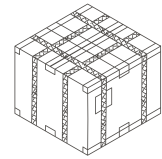
Put the packed static shielding bag into carton box;



Seal the carton box;



Label the box;



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

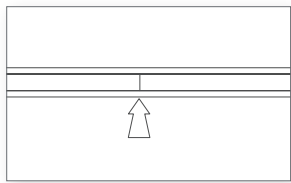
Model No.	Product Size (mm)	Carton Size (mm)	Meter/Reel	Reel/Carton	Net Weight (kg)	Gross Weight (kg)
NDF1005	5000*10*4.8	550*400*340	5	40	/(1±10%)	16.15 (1± 10%)

- One piece(5m) per reel, and the reel is packed 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.

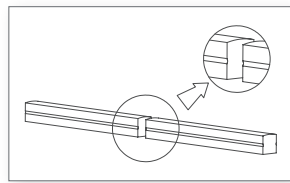
Reliability test

Project	Reference standards	Category	Test conditions	Outcome
Environmental test	Blueview standard	Temperature cycling test	TH=60°C/4h,TA=20°C/1h,TL=-40°C continuous cycle and power on	Pass
		High temperature resistance test	Simulated TH=60 °C, continuous power on	
		Room temperature aging test	TA=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	Light on the sample, forward and reverse rotation 360° one time each, a total of 10 times.	

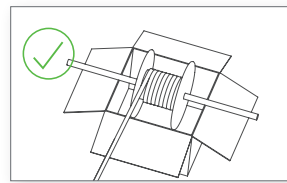
Warning Mark



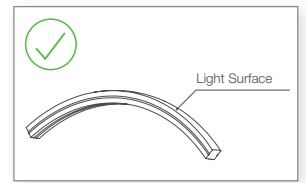
Cuttable identifier



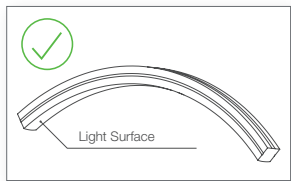
Neat and smooth cut



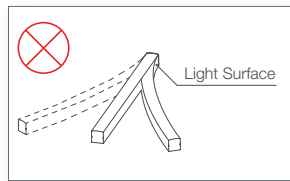
Insert a stick on the reel and place it on the packing box, and rotate the reel to get the product.



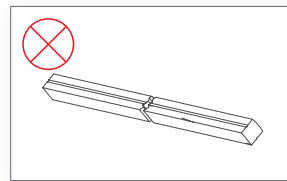
use in convex direction



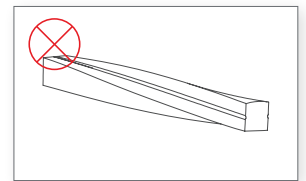
Use in concave direction



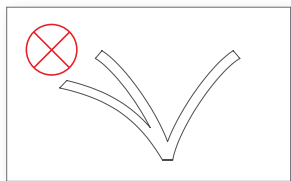
Side bending



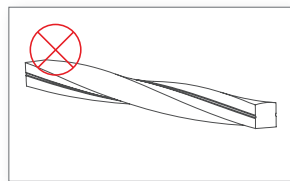
Do not make irregular cuts.



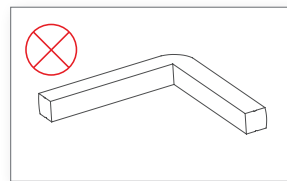
Do not use in distortions



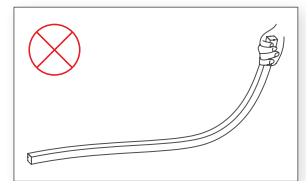
Do not bend many times, for it can endanger electronic lines.



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

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- 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.

### 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

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