

LED

NEON FLEX

NDF1005





- Features**
- Color options: Single color.
 - Superior design with exquisite craftsmanship ensure stable and reliable performance.
 - Top bending with good flexibility.
 - 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	Ra	Color	Lm/m	Lm/W	W/m
NDF1005-Single color	24V DC	>90	2200K	388	51	7.2
			2700K	454	61	
			3000K	467	62	
			3500K	496	65	
			4000K	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	

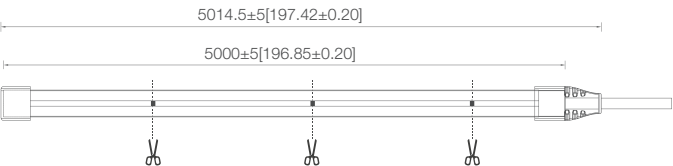
Other Parameters

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

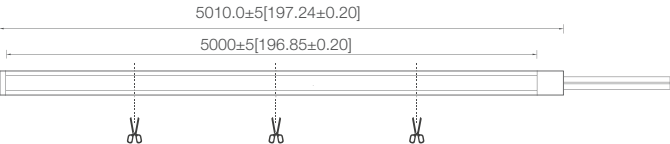
Profile Drawings

Unit:mm [inch]

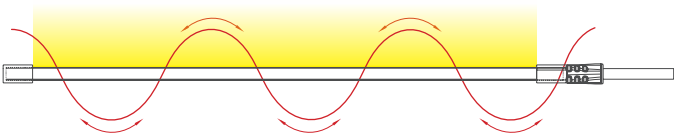
Glue Process (IP67)



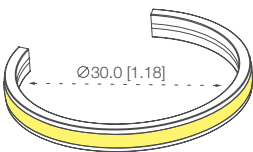
Molding Pressed (IP67)



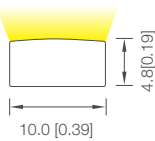
Bend direction



Bending Diameter

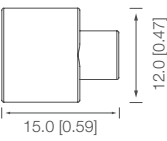


Sectional view



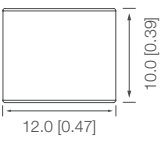
Front cap

Glue Process (IP67)



Closing End-cap

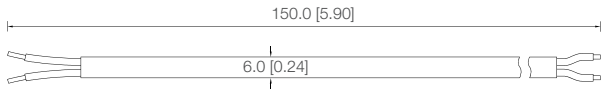
Glue Process (IP67)



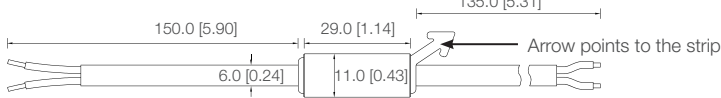
Notes:
IP67 rating: suitable for humid environments, can be soaked for a short period of time, depth not exceeding 1m, and time not exceeding 1h.(Factory assembly only)
The strip length supports customization within 5m

Wire Spec

General Wire



Wire with anti-wicking ferrule



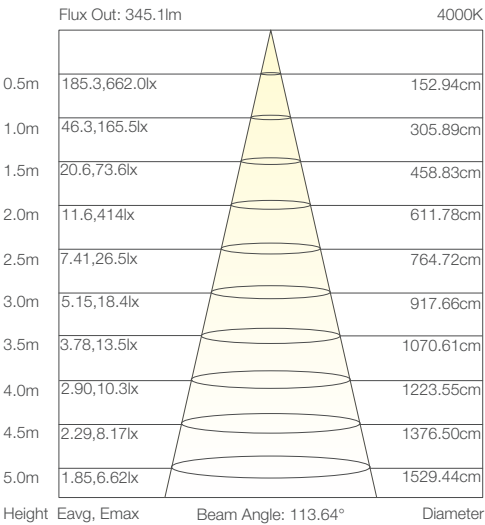
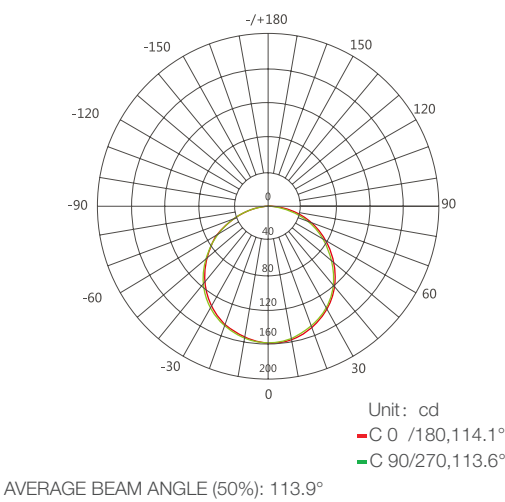
- Notes:
- You can choose one of the above two wires.
 - 2/3/4/5 cores are available.
 - The wire length support customization.
 - The anti-wicking ferrule needs to be above water for any underwater applications. Do not disassemble or reprocess the ferrule; otherwise, we will not be responsible for the consequences.

Recommended power supply upon working length

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

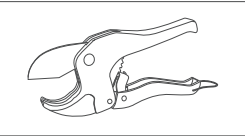
Luminous Intensity Distribution Diagram

Average Illumination

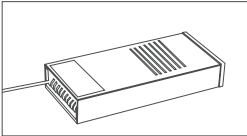


Note: Above data are tested at 4000K, for other date, please consult sales rep.

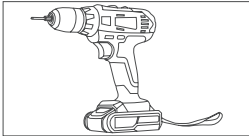
Products and Tools



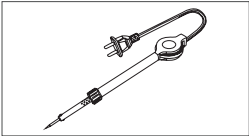
Cutter



LED power supply



Electric drill



Electric iron

Product accessories



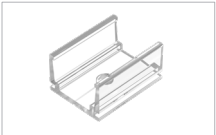
Item: Front cap
Model No.: ASY-NDF1005-N00NNH-EC
Dimensions L*W*H: 25.0*12.7*7.6mm
Quantity (5m): 4pcs
Free/Optional: Free



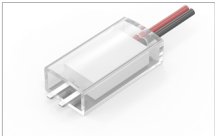
Item: Closing End-cap
Model No.: ASY-NDF1005-N00NNX-EC
Dimensions L*W*H: 11.0*12.7*6.6mm
Quantity (5m): 4pcs
Free/Optional: Free



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



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



Item: Soldering-free quick connector
Model No.: ASY-NDF1005-F00NNH-EC
Dimensions L*W*H: 32.8*15.6*10.4mm
Quantity (5m): 1pcs
Free/Optional: Optional



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

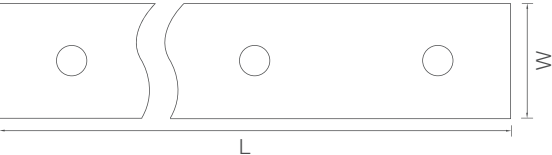


Item: Screws
Model No.: PA3
Dimensions L*W*H: PA3*10mm
Quantity (5m): 30pcs
Free/Optional: Optional



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

Accessories diagram



Name	L(mm)	W(mm)	Type
Platic clip	25	12	Optional
Plastic channel	1000	12	Optional

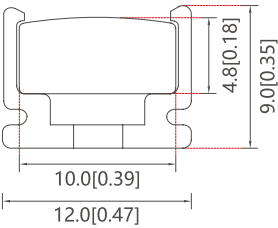
Note:

The quantity of accessories subject to actual needs;

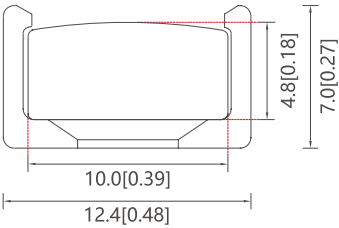
Processing the molded cap needs corresponding molds and molding equipment;

If customer processes the molded cap themselves, we will not be responsible for the consequences;

Profile Drawings (neon + clip)



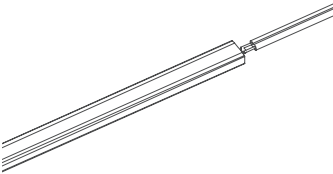
Plastic clip
ASY-NDF1005-P1(P3)NNXXXX-MT



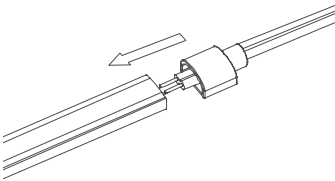
Aluminum channel
ASY-NDF1005-A1(A3)NNXXXX-MT

Installation Methods and Steps

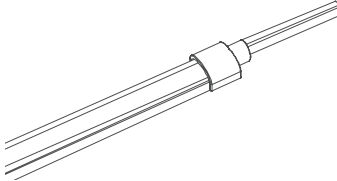
Front cap installation



Weld the wire to the PCB board.

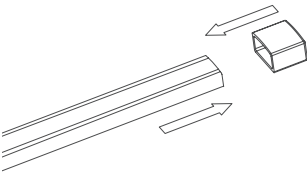


Filling the cap with glue, then install to the strip light.

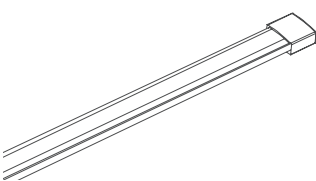


Wipe off the excess glue and wait to dry

Closing end-cap installation

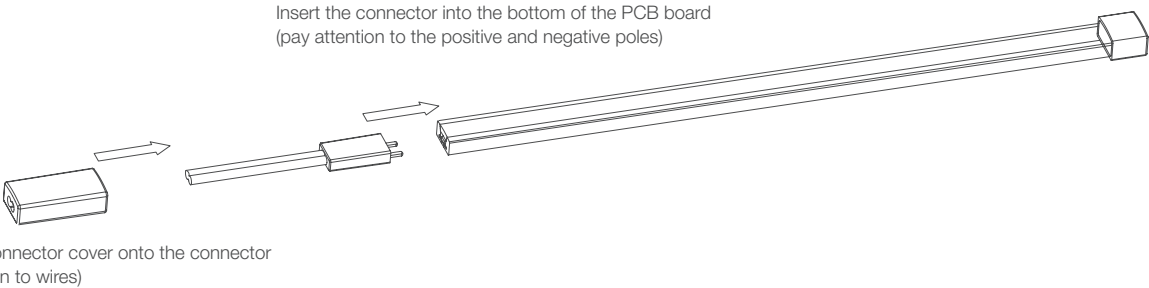


Filling the cap with glue, then install to the strip light.



Wipe off the excess glue and wait to dry

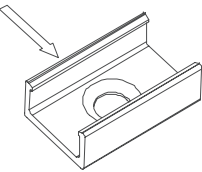
Connector installation



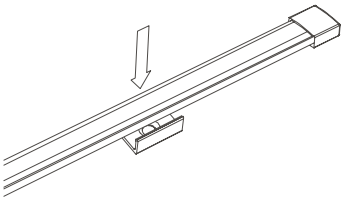
Insert the connector into the bottom of the PCB board
(pay attention to the positive and negative poles)

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

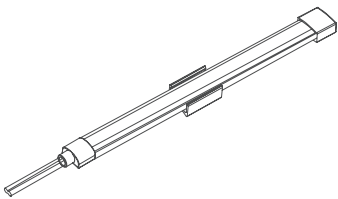
Aluminum channel installation



Screw the aluminum channel to the installation position.

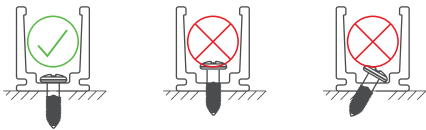


Press the strip into the aluminum channel

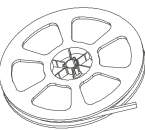


Finished

- 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;



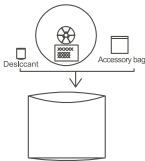
Packaging Information



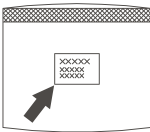
Roll the product to a reel



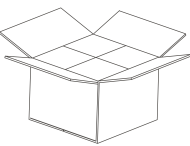
Label the reel;



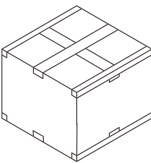
Put reel, accessory bag and desiccant together into static shielding bag;



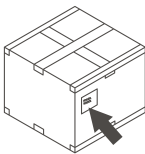
Seal and label the static shielding bag;



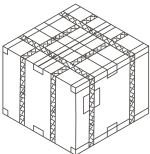
Put the packed static shielding bag into carton box;



Seal the carton box;



Label the box;



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

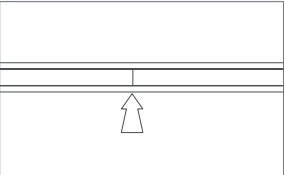
Model No.	Product Size (mm)	Carton Size (mm)	Meter/Reel	Reel/Carton	Gross Weight (kg)
NDF1005	5000*10*4.8	550*400*340	5	40	16.15 (1± 10%)

- 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.

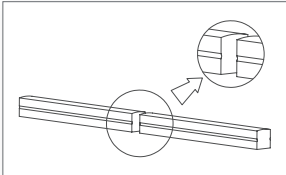
Reliability test

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.	

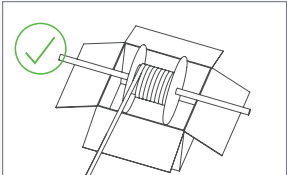
Warning Mark



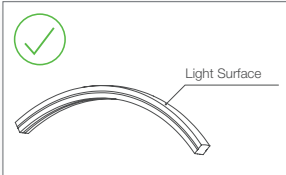
Cuttable identifier



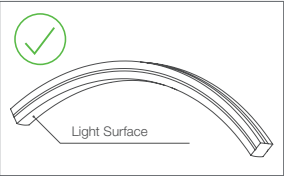
Neat and smooth cut



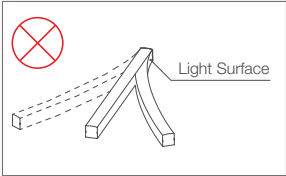
Insert a stick on the reel and place it on the packing box, and rotate the reel to get the product.



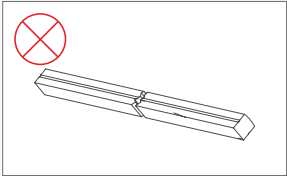
use in convex direction



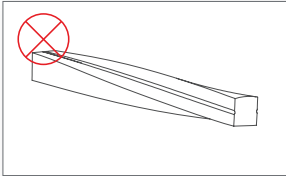
Use in concave direction



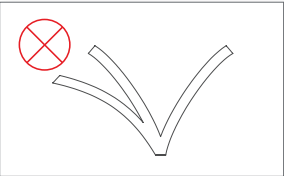
Side bending



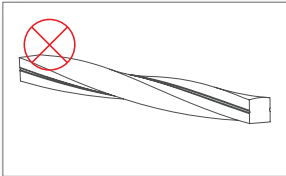
Do not make irregular cuts.



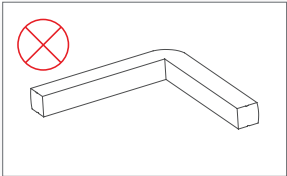
Do not use in distortions



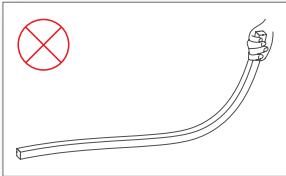
Do not bend many times, for it can endanger electronic lines.



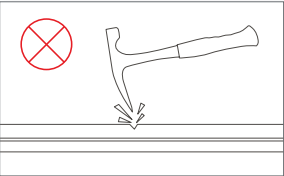
Do not use on wringing (twist)



Do not bend at right angles



Do not throw or pull when taking products



Avoid touching sharp objects

Note:
1. There are cutting marks on the PCB;
2. Please pay attention to above warnings during transportation and using;

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
A2.0	Update: Basic Parameters of Single Color	2024-3-14

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