



LED

NEON FLEX

NDF1617-48V



Version: A1.7



Features

- Color options: Single color.
- Adopt DC 48V design.
- Top bending with good flexibility.
- Adopt high-quality constant current components, stable and reliable performance.
- Warranty: 5 years indoor, 3 years outdoor.
- Customization: multiple spec options, can be customized upon requirements.
- Single color supports PWM dimming within 1KHz.



Optical & Electrical Parameters

Model No.	Voltage	CRI	Color	Lm/m	Lm/W	W/m
NDF1617-48V-single color	48V DC	>80	2700K	520	58	9.6
			3000K	550	60	
			4000K	570	63	
			5000K	580	64	
			6000K	560	62	
NDF1617-48V-single color	48V DC	>90	2300K	500	56	9.6
			2700K	520	58	
			3000K	540	59	
			4000K	570	63	
			5000K	590	66	
			6000K	560	62	
NDF1617-48V-single color	48V DC	/	Red	190	21	9.6
			Green	540	61	
			Blue	120	13	
			Yellow	150	17	
			Orange	230	26	

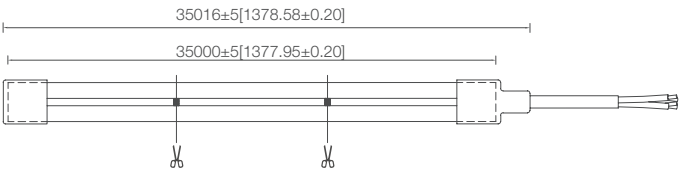
Other Parameters

Model No.	LED QTY (pcs/m)	Standard Run	Min. Cuttable Length	Working Temperature	Storage Temperature
NDF1617-48V-single color	120	35m	100.0mm	-20~+60°C	-20~+70°C

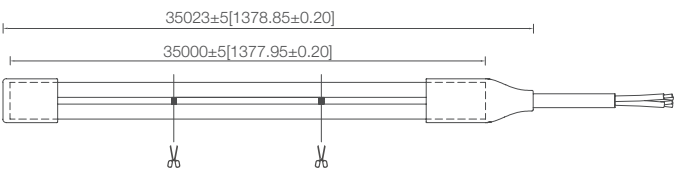
Profile Drawings

Unit: mm[inch]

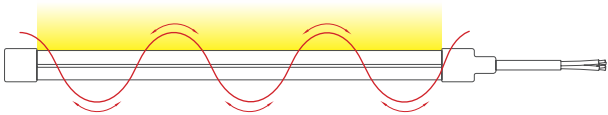
Glue Process (IP67)



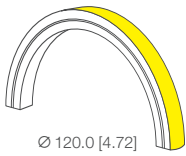
Molding Pressed (IP68)



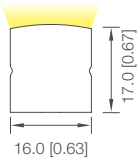
Bend direction



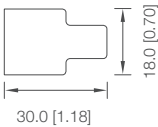
Bending Diameter



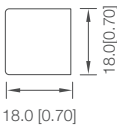
Sectional view



Front cap / Glue Process (IP67)



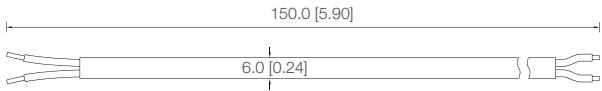
Closing End-cap / Glue Process (IP67)



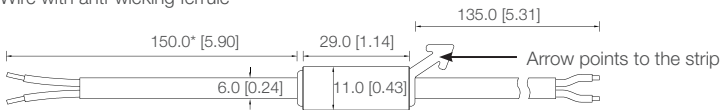
Note: Within 35m, the strip can be customized according to the integer multiple of the Min. cuttable length.

Wire Spec

General Wire



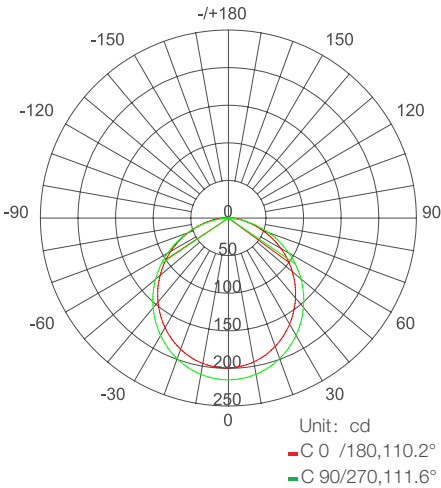
Wire with anti-wicking ferrule



- Notes:
- You can choose one of the above two wires.
 - 2/3/4/5 cores are available.
 - The wire length marked with "*" supports 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.

Luminous Intensity Distribution Diagram

Average Illumination



Flux Out: 426.9lm		CCT=4000K	
Height	Eavg, Emax	Beam Angle: 110.20°	Diameter
0.5m	247.3,855.1lx		143.35cm
1.0m	61.82,213.8lx		286.69cm
1.5m	27.48,95.01lx		430.04cm
2.0m	15.46,53.44lx		573.39cm
2.5m	9.892,34.20lx		716.73cm
3.0m	6.869,23.75lx		860.08cm
3.5m	5.047,17.45lx		1003.43cm
4.0m	3.864,13.36lx		1146.77cm
4.5m	3.053,10.56lx		1290.12cm
5.0m	2.473,8.551lx		1433.47cm

Note: the above two figures are tested with the sample NDF1617-4000K, 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	0.2 A	48 V DC	9.6 W	24 W	Single Feed
35m	7.0 A	48 V DC	336 W	600 W	Single Feed

Product accessories

Free



Front cap
Model No.: ASY-NDF1617-N00NNH-EC
Quantity(5/10m): 2-4pcs
Dimensions: 30*18*18mm



Closing End-cap
Model No.: ASY-NDF1617-N00NNX-EC
Quantity(5/10m): 2-4pcs
Dimensions: 18*19*18mm

Optional



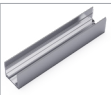
Front cap (bottom/side outlet)
Model No.: ASY-NDF1617-N00NNS-EC
Dimensions: 25*30*19mm



Aluminum clip
Model No.: ASY-NDF1617-A3NN0035-MT
Dimensions: 35*18.7*19.37mm



S-type Track
Model No.: ASY-NDF1617-MNN0500-MT
Dimensions: 500*17.84*17.22mm



Aluminum Channel
Model No.: ASY-NDF1617-A1NN1000-MT
Dimensions: 1000*18.7*19.37mm



Aluminum clip (with metal spring)
Model No.: ASY-NDF1617-A4NN0035-MT
Dimensions: 35*21.2*19mm



Aluminum Channel (with metal spring)
Model No.: ASY-NDF1617-A2NN1000-MT
Dimensions: 1000*21.2*19mm

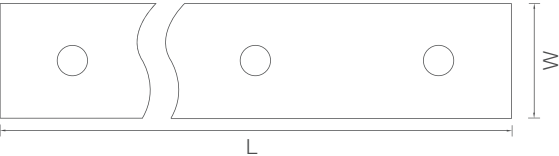


Silicone Glue
Model No.: WR-7516
Dimensions: 45g/pc



Screws
Model No.: PA3
Dimensions: PA3*10mm

Accessories diagram

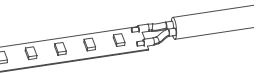


Name	L(mm)	W(mm)	Type
Clips	35	18.7	Optional
Installation set	35	21.2	Optional
Aluminum channel ②	1000	18.7	Optional
Aluminum channel X	X	--	Customized

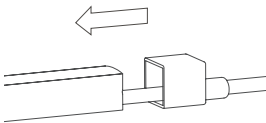
Note: the quantity of accessories subject to actual needs;

Installation

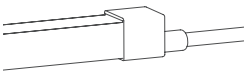
Front cap installation



Weld the wire to the PCB board.

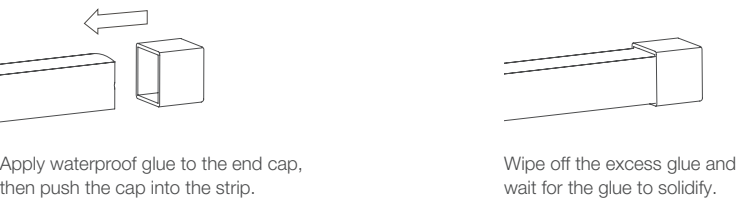


Apply waterproof glue to the front cap, then push the cap into the strip

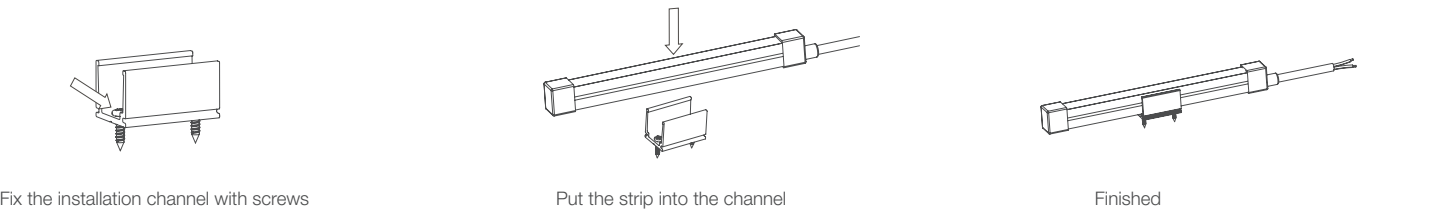


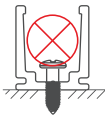
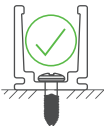
Wipe off the excess glue and wait for the glue to solidify.

Closing-end cap installation

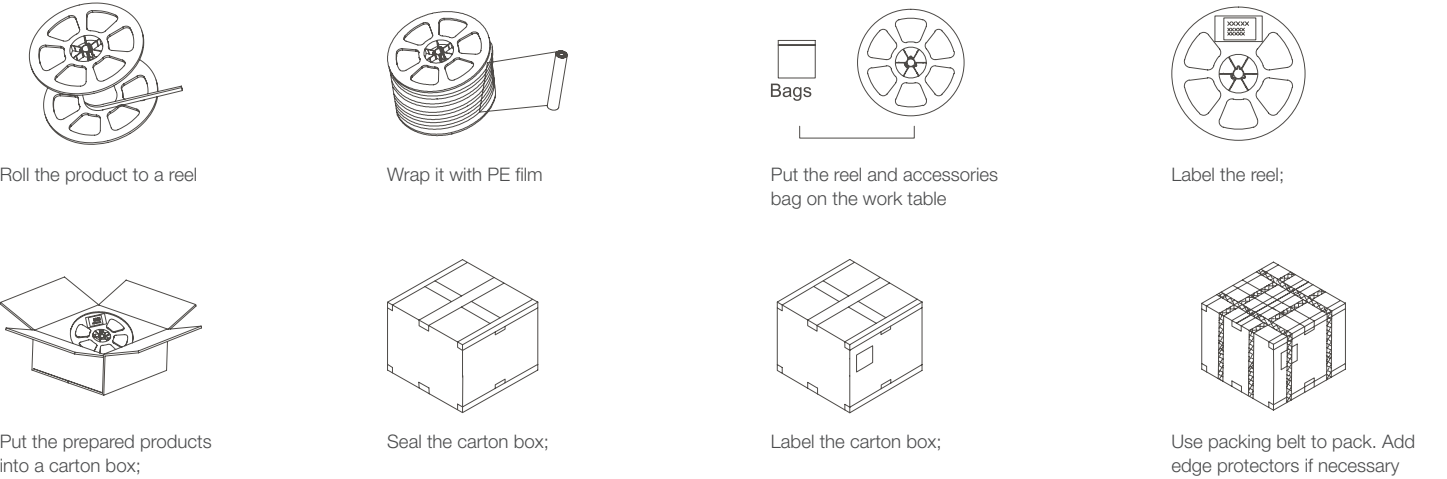


Aluminum channel installation



- 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



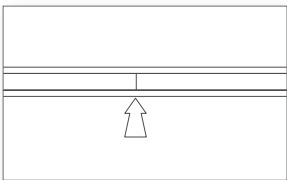
Model No.	Product Size L*W*H (mm)	Carton Size (mm)	Meter/Reel	Reel/Carton	Gross Weight (kg)
NDF1617-48V	35000*16*17	390*390*325	35	1	12.85 (1± 10%)

- 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.

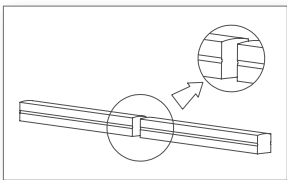
Reliability test

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/4h,continuous cycle lighting	Pass
		High temperature resistance test	Simulated TH=60 °C, continuous power on	
		Room temperature bending test	Bending diameter 60mm, continuous power on under room temperature	
		PTC test	Test temperature -40°C to 60°C, cycle once every 2h (temperature holding time 15min, heating and cooling time 45min)	
Mechanical strength testing	Blueview standard	Tensile test	Fix both ends of the sample on the upper and lower clamps of the tensile machine and record the tensile value of the product when the light is off.	Pass
		Twisting test	Light on the sample, forward and reverse rotation 360° one time each, a total of 10 times.	

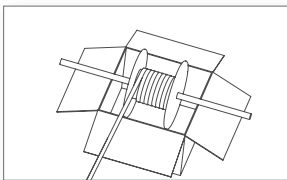
Warning Mark



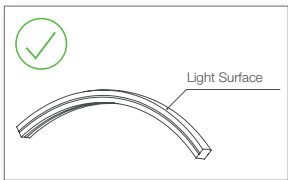
Cuttable identifier



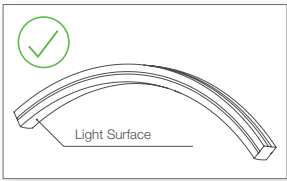
Neat and smooth cut



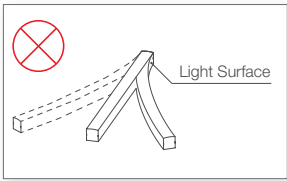
Insert a stick on the reel and place it on the packing box, and rotate the reel to get the product.



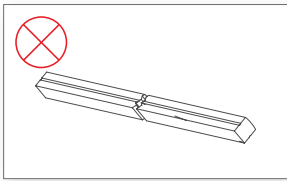
use in convex direction



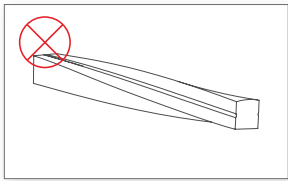
Use in concave direction



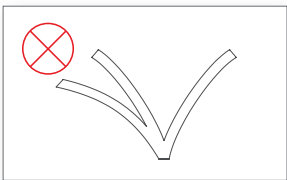
Side bending



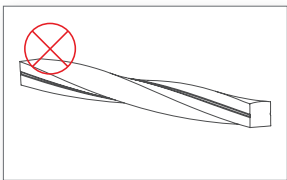
Do not make irregular cuts.



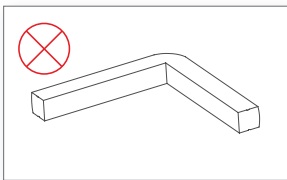
Do not use in distortions



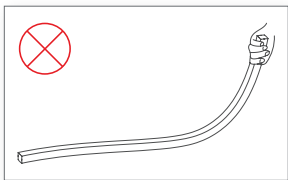
Do not bend many times, for it can endanger electronic lines.



Do not use on wringing (twist)



Do not bend at right angles



Do not throw or pull when taking products

Notes: 1. There are cutting marks on the PCB; 2. Please pay attention to above warnings when 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
A1.7	Update: Luminous Intensity Distribution Diagram	2024-4-9