

LED NEON FLEX

NDF1617-48V





Features

- Color options: Single color.
- Adopt 48VDC voltage with max run of 35m
CRI80+/90+ available.
- Top bending and easy to shape.
- 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.



Optical & Electrical Parameters

Model No.	Voltage	Beam Angle	CRI	Color	Lm/m	Lm/W	Power (W/m)
NDF1617-48V-single color	48V DC	110°	>80	2600K	520	58	9.6
				3000K	550	60	
				4200K	570	63	
				5000K	580	64	
				6000K	560	62	
NDF1617-48V-single color	48V DC	110°	>90	2200K	500	56	9.6
				2600K	520	58	
				2800K	540	59	
				4000K	570	63	
				4800K	590	66	
				5800K	560	62	
NDF1617-48V-single color	48V DC	110°	/	Red	190	21	9.6
				Green	540	61	
				Blue	120	13	
				Yellow	150	17	
				Orange	230	26	

Other Parameters

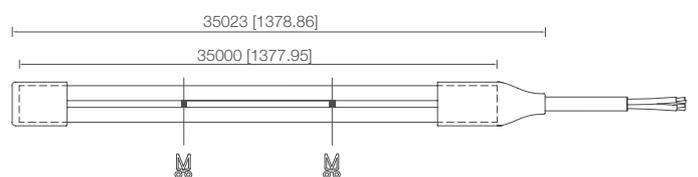
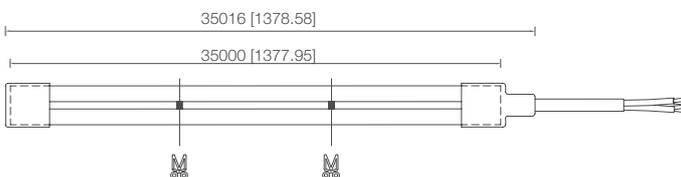
Model No.	LED QTY (pcs/m)	Standard Run	Min. Cuttable Length	Working Temperature	Storage Temperature
NDF1617-48V-single color	120	35000mmmm	100.0mm	-20~+60°C	-20~+70°C

Profile Drawings

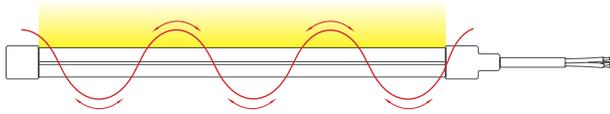
Glue Process (IP67)

Molding Pressed (IP68)

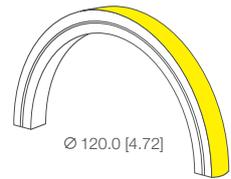
Unit: mm[inch]



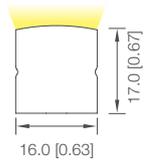
Bend direction



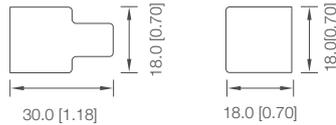
Bending Diameter



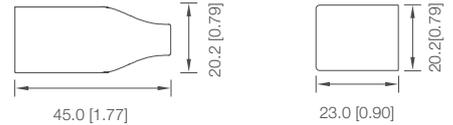
Sectional view



End-cap / Glue Process (IP67)

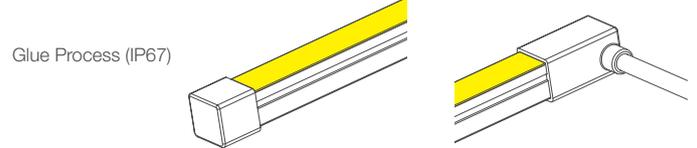
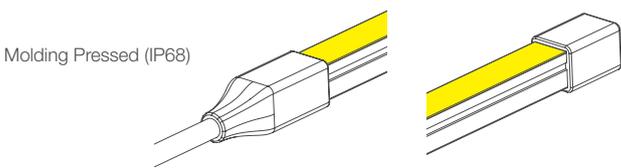


End-cap / Molding Pressed (IP68)



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

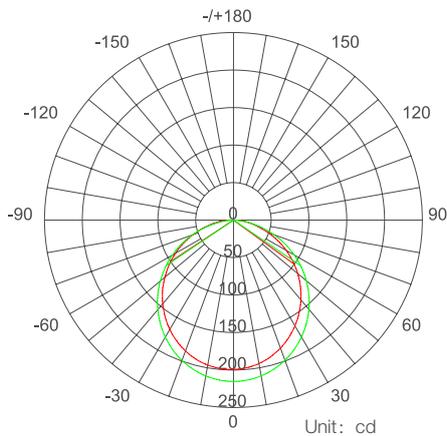
IP Process Technology



- 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.

Luminous Intensity Distribution Diagram

Average Illumination



AVERAGE BEAM ANGLE(50%): 110.9°

Flux Out: 426.9lm

Height	Eavg, Emax	Beam Angle: 110.20°	Diameter
0.02m	154556,534409lx		5.73cm
0.04m	38639,133602lx		11.47cm
0.06m	17173,59379lx		17.20cm
0.08m	9660,33401lx		22.94cm
0.10m	6182,21376lx		28.67cm
0.12m	4293,14845lx		34.40cm
0.14m	3154,10906lx		40.14cm
0.16m	2415,8350lx		45.87cm
0.18m	1908,6598lx		51.60cm
0.20m	1546,5344lx		57.34cm

Note: the above two figures are tested with the sample NDF1617-48V, for other data, please consult sales, rep.

Recommended power supply upon working length

Model No.	NDF1617-48V	
Working Length (m)	1	35
Measured Current (A)	0.20	7.0
Rated Voltage (DC V)	48	48
Measured Power(W)	9.6	336
Recommended Power Supply (W)	24	600
Power Supply Mode	Single Feed	Single Feed

Product accessories



Item: Front cap (Molding Pressed)
 Dimensions L*W*H: 45.0*19.2*20.2mm
 Quantity (35m): --
 Free/Optional: Optional



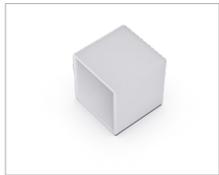
Item: Closing End-cap (Molding Pressed)
 Dimensions L*W*H: 23.0*19.2*20.2mm
 Quantity (35m): --
 Free/Optional: Optional



Item: Front cap (Side) (Molding Pressed)
 Dimensions L*W*H: --
 Quantity (35m): --
 Free/Optional: Optional



ASY-NDF1617-N00NNH-EC
 Item: Front cap
 Dimensions L*W*H: 30.0*18.0*18.0mm
 Quantity (35m): 2-4pcs
 Free/Optional: Free



ASY-NDF1617-N00NNX-EC
 Item: Closing End-cap
 Dimensions L*W*H: 18.0*19.0*18.0mm
 Quantity (35m): 2-4pcs
 Free/Optional: Free



ASY-NDF1617-N00NNS-EC
 Item: Front cap(Side)
 Dimensions L*W*H: 25.0*30.0*19.0mm
 Quantity (35m): --
 Free/Optional: Optional



ASY-NDF1617-A4NN0035-MT
 Item: Aluminum track
 Dimensions L*W*H: 35.0*21.2*19.0mm
 Quantity (35m): --
 Free/Optional: Optional



ASY-NDF1617-A1NN1000-MT
 Item: Aluminum Channel
 Dimensions L*W*H: 1000*19.3*18.7mm
 Quantity (35m): --
 Free/Optional: Optional



ASY-NDF1617-A3NN0035-MT
 Item: Aluminum track
 Dimensions L*W*H: 35.0*19.3*18.7mm
 Quantity (35m): --
 Free/Optional: Optional



ASY-NDF1617-MNN0500-MT
 Item: S-type Track
 Dimensions L*W*H: 500*17.2*17.8mm
 Quantity (35m): --
 Free/Optional: Optional

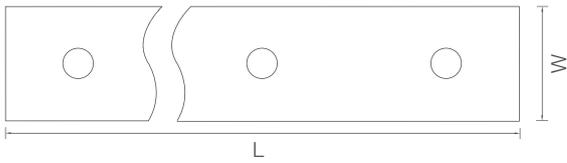


PA3
 Item: Screws
 Dimensions L*W*H: PA3*10mm
 Quantity (35m): --
 Free/Optional: Optional



WR-7516
 Item: Silicone Glue
 Dimensions: 45g/pc
 Quantity (35m): --
 Free/Optional: Optional

Accessories diagram



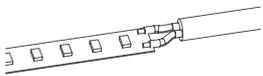
Name	L(mm)	W(mm)	Type
Installation accessories or clips	35	21.2	Optional
Aluminum channel	1000	16.3	Optional
Aluminum channel X	X	--	Customized

Note:

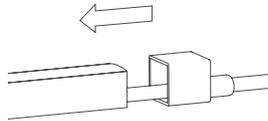
1. All accessories can be added according to customer requirements;
2. If customers want to process molded caps by themselves, they should use the corresponding molds and molding equipment;
3. If customers reprocess the molded cap themselves, the resulting quality risks are not covered by the warranty;

Installation

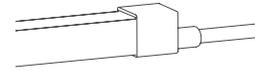
Front cap installation



Weld the wire to the PCB board.

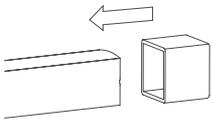


Apply waterproof glue to the front cap, then push the cap into the strip

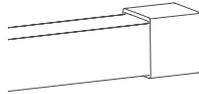


Wipe off the excess glue and wait for the glue to solidify.

Closing-end cap installation

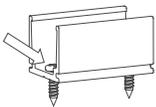


Apply waterproof glue to the end cap, then push the cap into the strip.

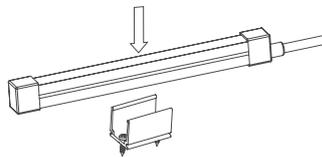


Wipe off the excess glue and wait for the glue to solidify.

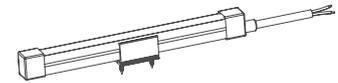
Aluminum channel installation



Fix the installation channel with screws



Put the strip into the channel



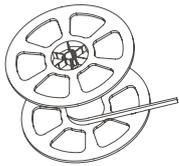
Finished

Notes:

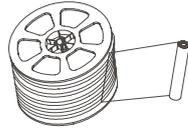
- At the welding place, please pay attention to the positive and negative poles of the wire and the strip;
- Each connection must use 10g silica gel for waterproof and insulating treatment;
- The screws must be vertical to the mounting surface and be fastened, as shown in the figure on the right;
- Please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



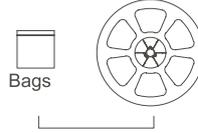
Packaging Information



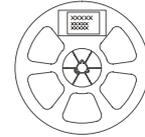
Roll the product to a reel



Wrap it with PE film



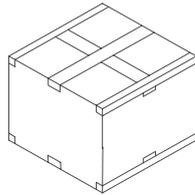
Put the reel and accessories bag on the work table



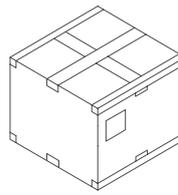
Label the reel;



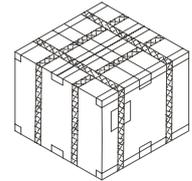
Put the prepared products into a carton box;



Seal the carton box;



Label the carton box;



Use packing belt to pack. Add edge protectors if necessary

Packaging information

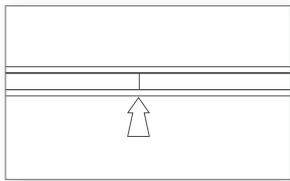
Model No.	Product Size L*W*H (mm)	Carton Size (mm)	Meter/Reel	Reel/Carton	Gross Weight (kg)
NDF1617-48V	35000*16*17	390*390*325	35	1	12.85 (1± 10%)

- One piece(35m) per reel, and the reel is packed in a foil bag, and put into a carton.
- 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.

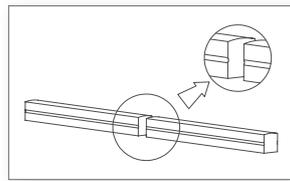
Reliability test

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.	

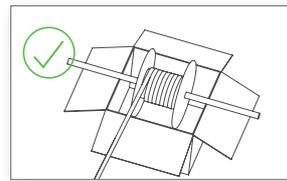
Warning Mark



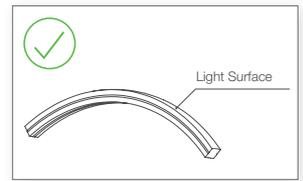
Cuttable identifier



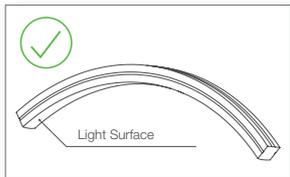
Neat and smooth cut



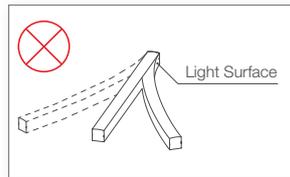
Insert a stick on the reel and place it on the packing box, and rotate the reel to get the product.



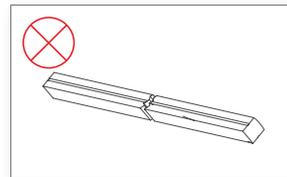
use in convex direction



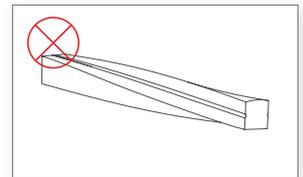
Use in concave direction



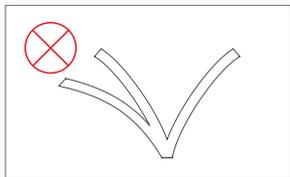
Side bending



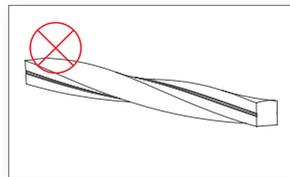
Do not make irregular cuts.



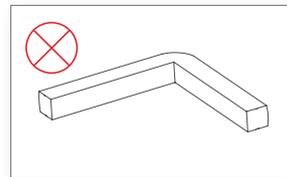
Do not use in distortions



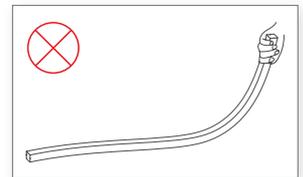
Do not bend many times, for it can endanger electronic lines.



Do not use on wringing (twist)



Do not bend at right angles



Do not throw or pull when taking products

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

- 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.
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Recycling

- LED lighting products belongs to electronic products, please do recycling treatment according to the relevant WEEE directives.
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