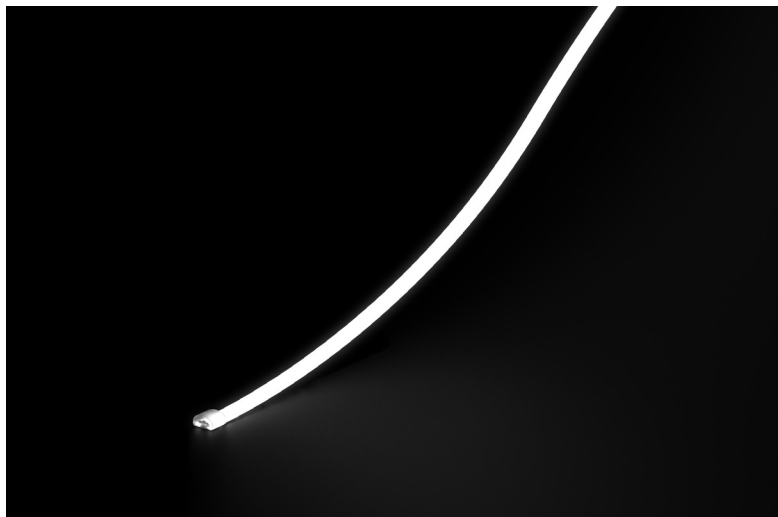


# LED NEON FLEX

## NDR0603





Features

- Color options: Single color.
- Using half-pack extrusion, strong weather resistance and good heat dissipation performance
- Super short cuttable length, top bending, and easy to shape.
- Can be connected with a dimmer.
- Warranty: 5 years indoor.
- Customization: multiple spec options, can be customized upon requirements.



Optical & Electrical Parameters

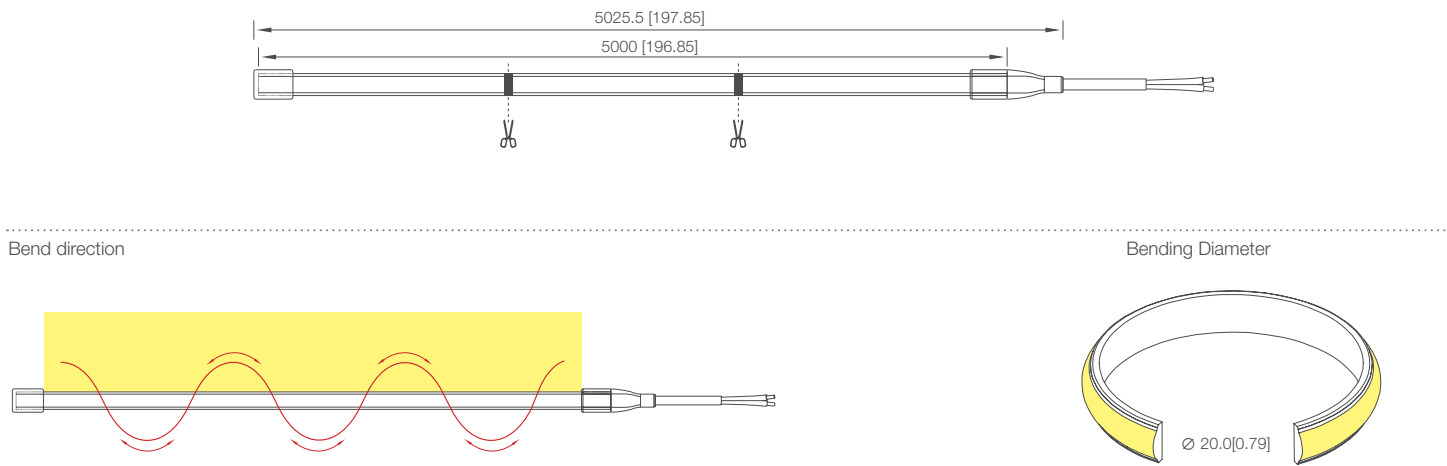
Model No.	Voltage	Beam Angle	CRI	Color	Lm/m	Lm/W	Rated Power (W/m)
NDR0603-Single color	24V DC	120°	>90	2300K	516	64.5	7.2
				2500K	539	71.1	
				2700K	558	76.0	
				3000K	547	72.9	
				3500K	621	81.6	
				4000K	552	73.2	
				5100K	618	81.6	
				6200K	609	79.5	

Other Parameters

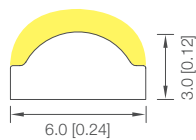
Model No.	LED QTY (pcs/m)	Standard Run	Min. Cuttable Length	Working Temperature	Storage Temperature
NDR0603	336	5000mm	20.83mm	-20~+60°C	-20~+70°C

Profile Drawings

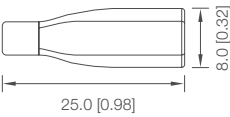
Unit:mm[inch]



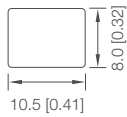
Sectional view



Front cap / Glue Process (IP54)



Closing End-cap / Glue Process (IP54)

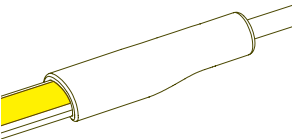


Remarks: "L" is the standard size of the light strip, can be customized according to the multiple of the minimum cutting unit length.

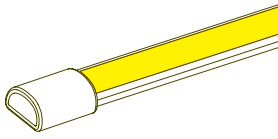
IP Process Technology

Glue Process (IP54)

Front cap

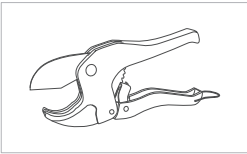


Closing End-cap

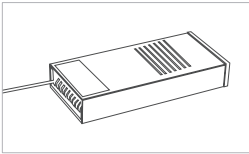


- Glue process the end cap after cutting, warranty will be provided upon IP65 rated.
- No warranty will be provided if the injection moulded(IP68) end cap destroyed or reprocessed.
- Corresponding molding equipment and mold needed for self-processing injection moulded end cap, contact the sales for more information.

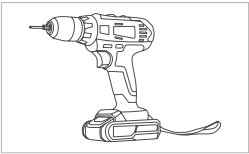
Products and Tools



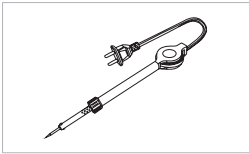
Cutter



LED power supply



Electric drill



Electric iron

Product accessories



ASY-NDR0603-N00NNH-EC

Item:	Front cap
Dimensions L*W*H:	25*8*6mm
Quantity (5m):	2pcs
Free/Optional	Free



ASY-NDR0603-N00NNX-EC

Item:	Closing End-cap
Dimensions L*W*H:	11*8*6mm
Quantity (5m):	2pcs
Free/Optional	Free



ASY-NDR0603-A1NN1000-MT

Item:	Aluminum Channel
Dimensions L*W*H:	200*10*4mm
Quantity (5m):	--
Free/Optional	Optional



ASY-NDR0603-F00NNM-EC

Item:	Seamless Connector
Dimensions L*W*H:	16.25*8.2*4mm
Quantity (5m):	--
Free/Optional	Optional



ASY-NDR0603-F00NNH

Item:	Connection Wire
Dimensions L*W*H:	20AWG L=150/5mm
Quantity (5m):	--
Free/Optional	Optional



Screws

Item:	Screws
Dimensions L*W*H:	PA3*10mm
Quantity (5m):	--
Free/Optional	Optional

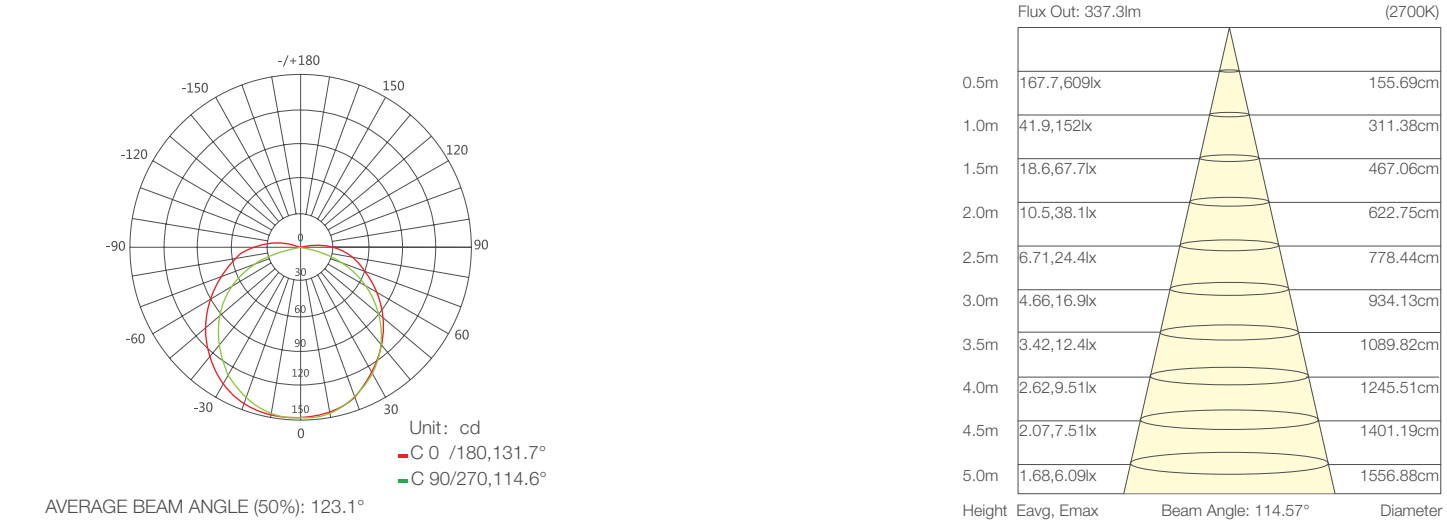


WR-7516

Item:	Silicone Glue
Dimensions:	45g/pc
Quantity (5m):	--
Free/Optional	Optional

Luminous Intensity Distribution Diagram

Average Illumination



Note: the two figures above are tested with the sample NDR0603 at CCT 2700K, for other data, please consult sales rep.

Recommended power supply upon working length

Model No.	NDR0603	
Working Length(m)	1	5
Measured Current (A)	0.3	1.34
Rated Voltage (DC V)	24	24
Measured Power(W)	7.2	32.16
Recommended Power Supply(W)	12	48
Power Supply Mode	Single Feed	Single Feed

Packaging Information

Packaging method - 5m standard run

Roll the product to a reel

Label the reel;

Put reel, accessory bag and desiccant together into a foil bag;

Label the foil bag;

Put the foil bags 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)
NDR0603	5000*6*3	550*400*340	5	100	16.0 (1± 10%)

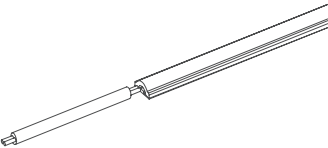
- One piece(5m) per reel, and the reel is packed in a foil bag, and put into a carton.
- For other customized length packaging, please ask our sales rep.
- The above-mentioned packaging quantity and weight are only for the illustrated packaging method. For other packaging methods, the packaging quantity and weight will be different. The actual weight is subject to the actual product.

Reliability test

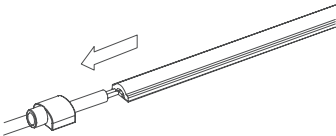
Project	Reference standards	Category	Test conditions	Outcome
Environmental test	Blueview standard	Temperature cycling test	Th = 60°C/4h, Ta =20°C/1H, TL=- 40°C/4h,continuous cycle lighting	Pass
		High temperature resistance test	Simulated TH=60°C, continuous power on	
		Room temperature aging test	TA=25°C, continuous power on	
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.	
		Room temperature bending test	Bending diameter 60mm, continuous power on under room temperature	

Installation

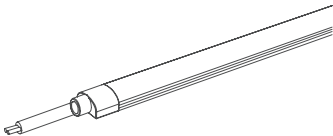
Front cap installation



Weld the wire to the PCB board.

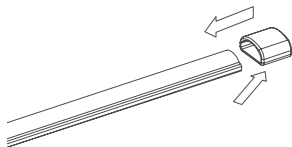


Apply waterproof glue to the front cap, then push the cap into the strip.

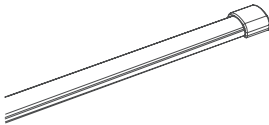


Wipe off the excess glue and wait for the glue to solidify.

Closing-end cap installation

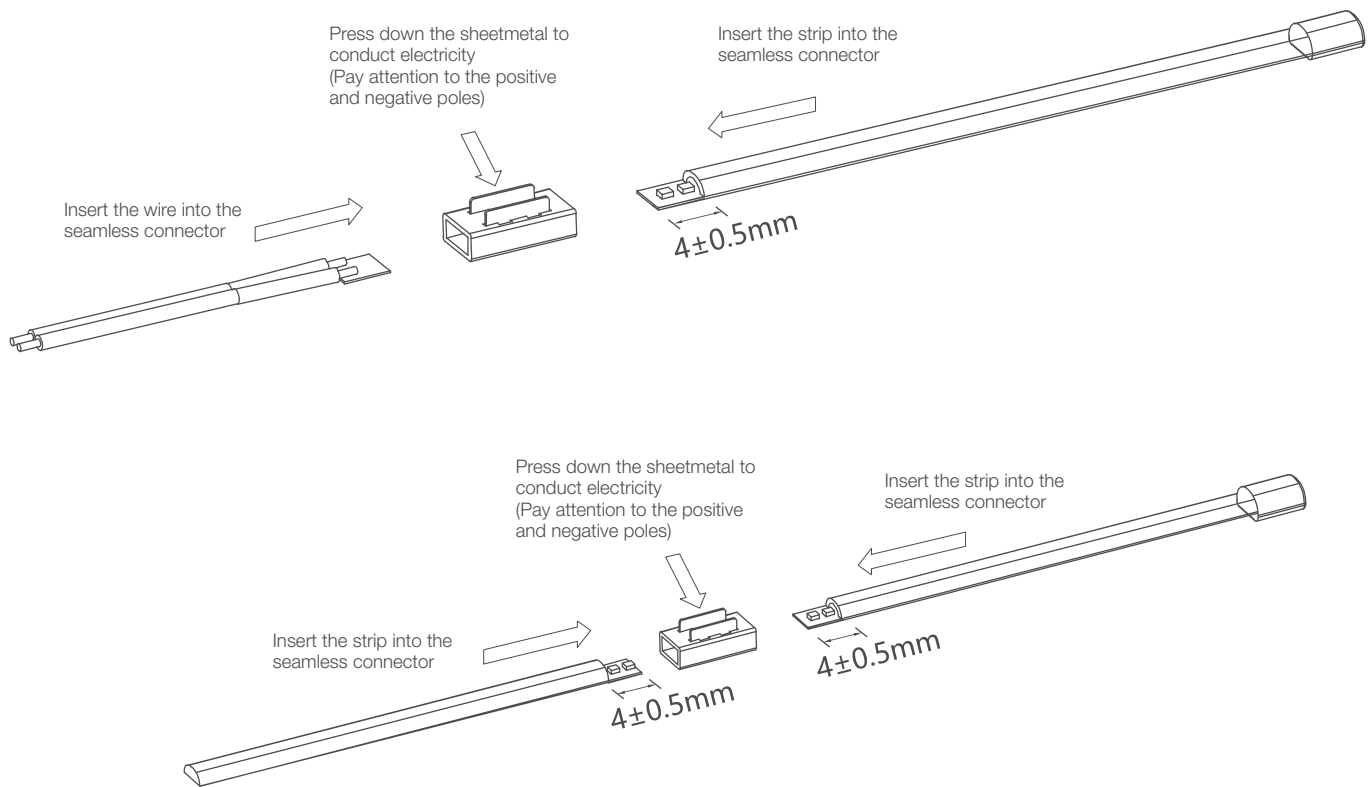


Apply waterproof glue to the end cap, then push the cap into the strip.

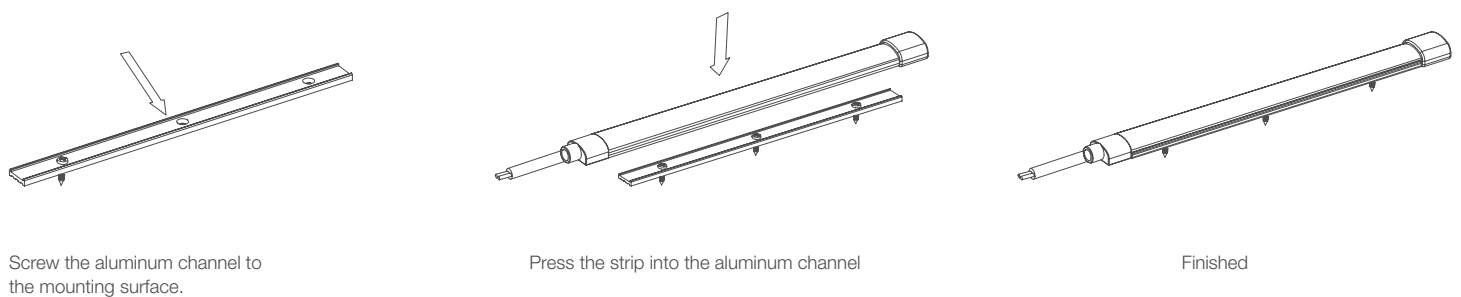


Wipe off the excess glue and wait for the glue to solidify.

## Connector installation



## Aluminum channel installation

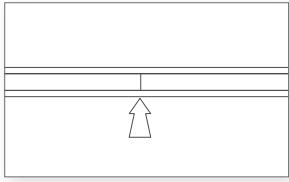


## Notes:

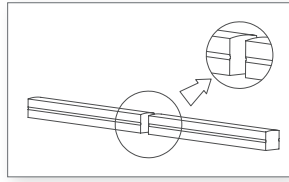
- At the welding place, please pay attention to the positive and negative poles of the wire and the strip;
- Each connection must use 10g silica gel for waterproof and insulating treatment;
- The screws must be vertical to the mounting surface and be fastened, as shown in the figure on the right;
- Please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



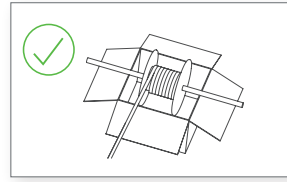
## Warning Mark



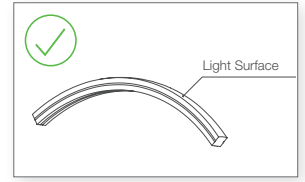
Cuttable identifier



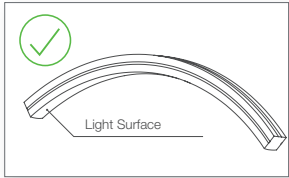
Neat and smooth cut



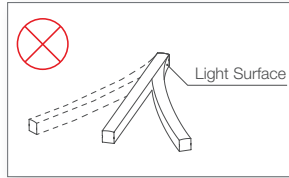
Insert a stick on the reel and place it on the packing box, and rotate the reel to get the product.



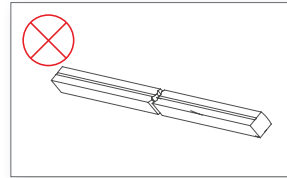
use in convex direction



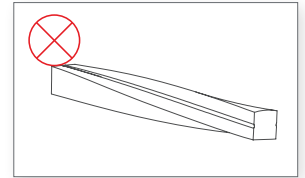
Use in concave direction



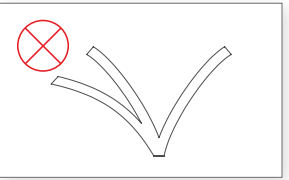
Side bending



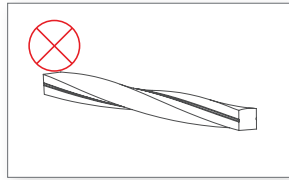
Do not make irregular cuts.



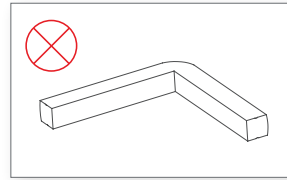
Do not use in distortions



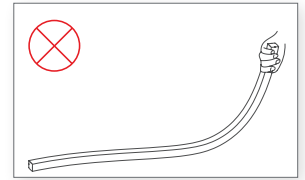
Do not bend many times, for it can endanger electronic lines.



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 (0.75mm<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

- 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.