

LED

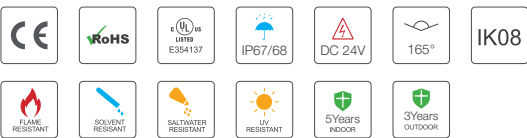
NEON FLEX

NDR1414





- Features
- Color options: Single color, WN and RGB.
 - Adopt constant current components with stable and reliable performance.
 - Top bending with good flexibility.
 - Silicone integrated extrusion, good weather resistance .
 - Warranty: 5 years indoor, 3 years outdoor .
 - Customization: multiple spec options, can be customized upon requirements.
 - Single color does not support dimming (If using Mean Well ELG/HLG power supply, it supports PWM dimming within 2KHz).



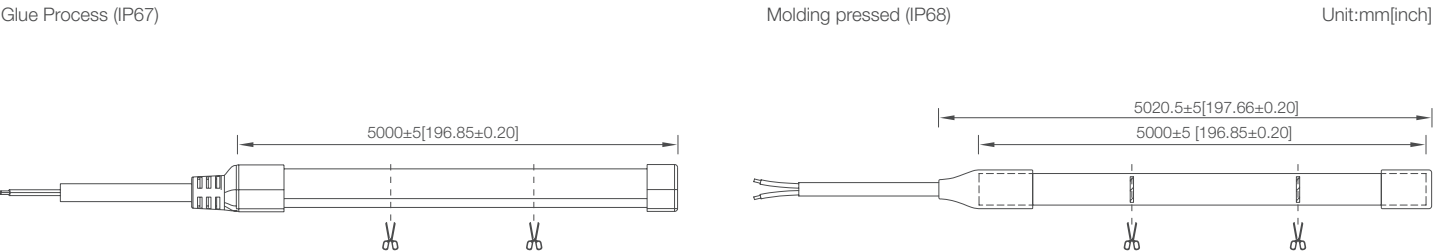
Optical & Electrical Parameters

Model No.	Voltage	Ra	Color	Lm/m	Lm/W	W/m
NDR1414-Single color	24V DC	>90	2300K	473	41.0	11.5
			2700K	686	58.9	
			3000K	727	62.3	
			4000K	733	62.8	
			5000K	769	66.0	
			6000K	743	63.9	
		/	Red	272	23.4	11.5
			Green	773	66.8	
			Blue	158	13.6	
			Yellow	195	16.9	
			Orange	334	28.8	
NDR1414-WN	24V DC	>80	2600K	511	70.9	7.2
			6200K	577	80.3	7.2
			W+N	1095	76.0	14.4
NDR1414-RGB	24V DC	/	Red	104	22.1	4.8
			Green	324	64.9	4.8
			Blue	67	14.0	4.8
			RGB	492	34.5	14.4

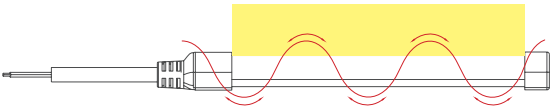
Other Parameters

Model No.	LED QTY (pcs/m)	Standard Run	Min. Cuttable Length	Working Temperature	Storage Temperature
NDR1414-Single color	144	15000mm	41.66mm	-20~+60℃	-20~+70℃
NDR1414-WN	240	10000mm	50.0mm		
NDR1414-RGB	120	5000mm	50.0mm		

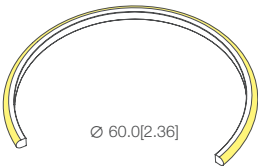
Profile Drawings



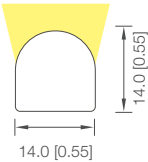
Bend direction



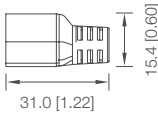
Bending Diameter



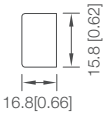
Sectional view



Front cap / Glue Process (IP67)



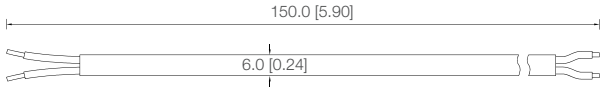
Closing End-cap / Glue Process (IP67)



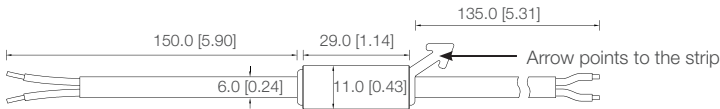
Remarks: the strip length supports customization with 5m.

Wire Spec

General Wire



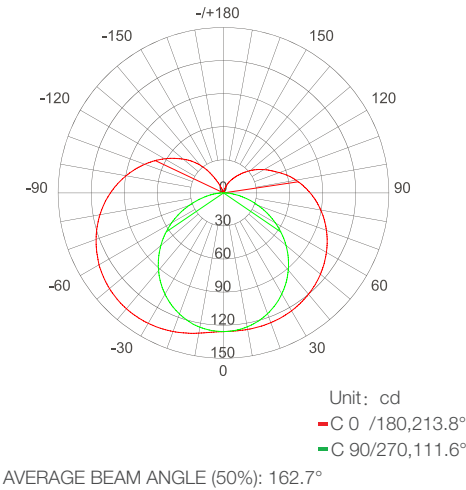
Wire with anti-wicking ferrule



- 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.

Luminous Intensity Distribution Diagram

Average Illumination



Flux Out: 312.3lm			
Height	Eavg, Emax	Beam Angle: 111.55°	Diameter
0.5m	180.9,517.0lx		147.02cm
1.0m	45.22,129.3lx		294.04cm
1.5m	20.10,57.45lx		441.05cm
2.0m	11.31,32.31lx		588.07cm
2.5m	7.236,20.68lx		735.09cm
3.0m	5.025,14.36lx		882.11cm
3.5m	3.692,10.55lx		1029.12cm
4.0m	2.826,8.078lx		1176.14cm
4.5m	2.233,6.383lx		1323.16cm
5.0m	1.809,5.170lx		1470.18cm

Note: the above two figures are tested with the sample NDR1414-W. For other data, please consult sales rep.

Recommended power supply upon working length

NDR1414-Single color

Working Length	Measured Current	Rated Voltage	Measured Power	Recommended Power Supply	Power Supply Mode
1m	0.48A	24V DC	11.5W	24W	Single Feed
15m	7.2A	24V DC	172.8W	240W	Single Feed

NDR1414-WN

Working Length	Measured Current	Rated Voltage	Measured Power	Recommended Power Supply	Power Supply Mode
1m	0.6A	24V DC	14.4W	24W	Single Feed
10m	6.0A	24V DC	144.0W	200W	Single Feed

NDR1414-RGB

Working Length	Measured Current	Rated Voltage	Measured Power	Recommended Power Supply	Power Supply Mode
1m	0.6A	24V DC	14.4W	24W	Single Feed
5m	2.7A	24V DC	64.8W	100W	Single Feed

NDR1414-RGB-R/G/B

Working Length	Measured Current	Rated Voltage	Measured Power	Recommended Power Supply	Power Supply Mode
1m	0.2A	24V DC	4.8W	7.2W	Single Feed
15m	2.7A	24V DC	64.8W	100W	Single Feed

Product accessories



ASY-NDR1414-N00NNH-EC

Item: Front cap
Dimensions L*W*H: 31*16*15 mm
Quantity (15m): 2-4pcs
Free/Optional: Free



ASY-NDR1414-N00NNX-EC

Item: Closing End-cap
Dimensions L*W*H: 10*17*16mm
Quantity (15m): 2-4pcs
Free/Optional: Free



ASY-NDR1414-P1NN0016-MT

Item: Plastic Clip
Dimensions L*W*H: --
Quantity (15m): --
Free/Optional: Optional



ASY-NDR1414-A4NN0025-MT

Item: Aluminum Clip
Dimensions L*W*H: 25*18*10mm
Quantity (15m): --
Free/Optional: Optional



ASY-NDR1414-RNN0012-MT

Item: Silicone Clip
Dimensions L*W*H: --
Quantity (15m): --
Free/Optional: Optional



WR-7516

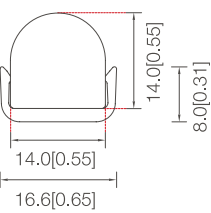
Item: Silicone Glue
Dimensions: 45g/pc
Quantity (15m): --
Free/Optional: Optional



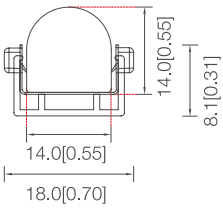
Screws

Item: PA3
Dimensions L*W*H: PA3*10mm
Quantity (15m): --
Free/Optional: Optional

Profile Drawings (neon + clip)

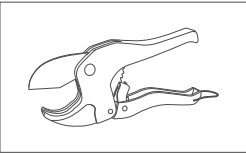


Plastic clip
ASY-NDR1414-P1NNXXX-MT

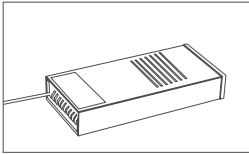


Aluminum clip (with spring)
ASY-NDR1414-A2(A4)NNXXX-MT

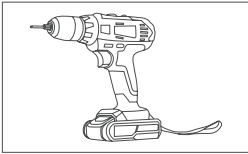
Products and Tools



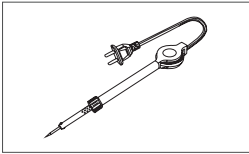
Cutter



LED power supply



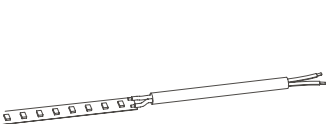
Electric drill



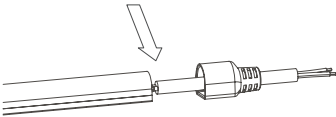
Electric iron

Installation

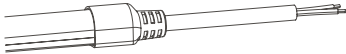
Front cap installation



Weld the wire to the PCB board.

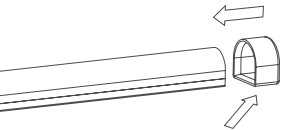


Filling the cap with glue, then install to the strip light.

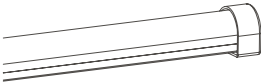


Wipe off the excess glue and wait to dry

Closing-end cap installation

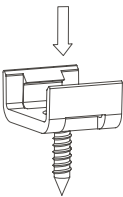


Filling the cap with glue, then install to the strip light.

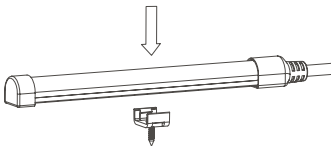


Wipe off the excess glue and wait to dry

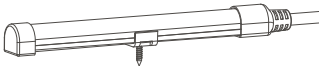
Plastic clip installation



Fix the clip with screw

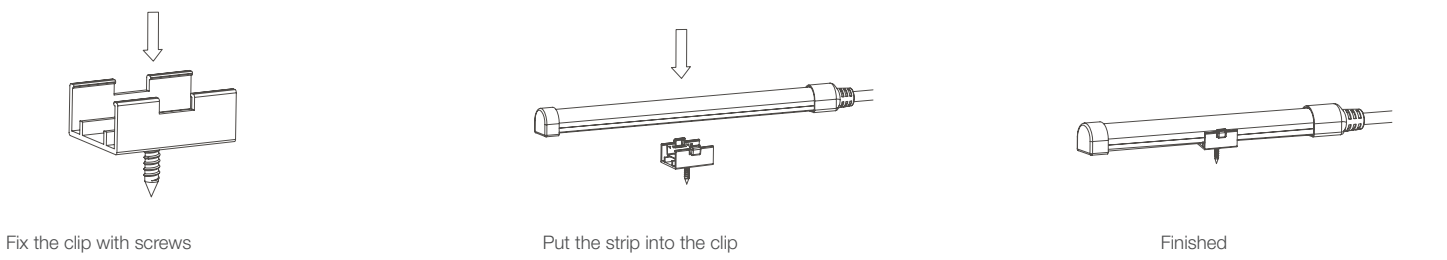


Put the strip into the clip



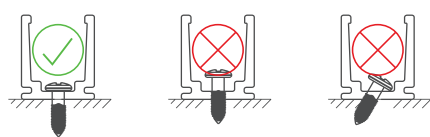
Finished

Aluminum clip installation

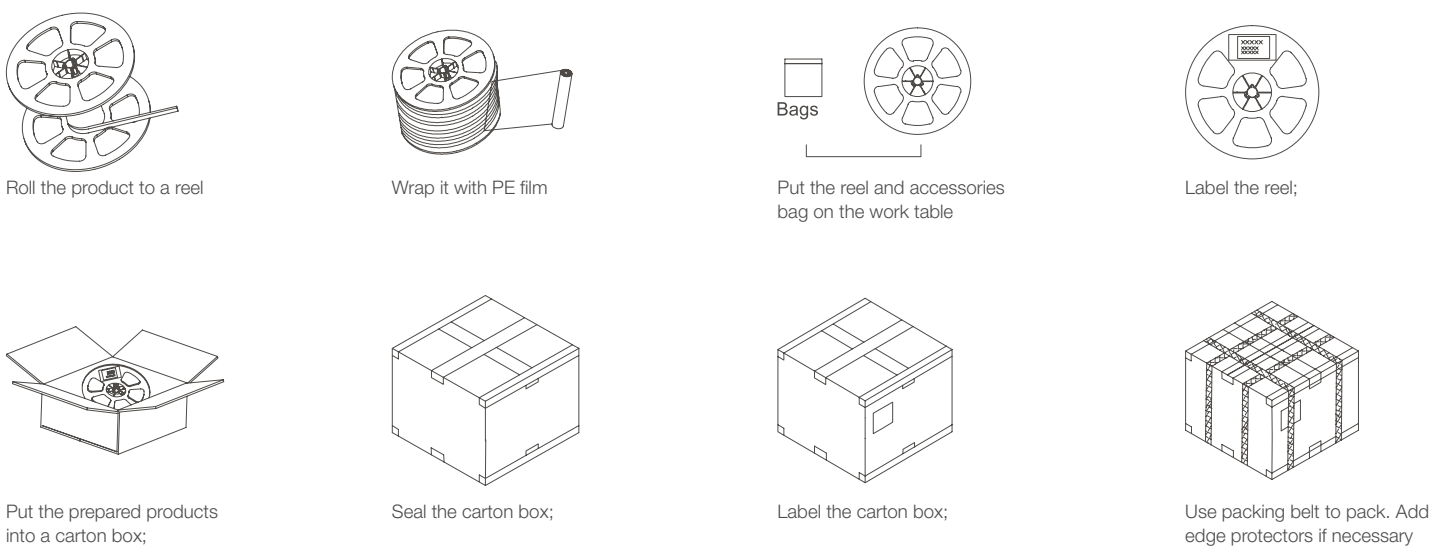


Notes:

- 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 Method



Packaging information

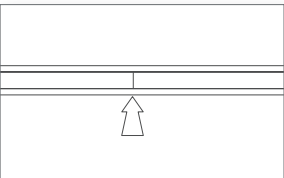
Model No.	Product Size L*W (mm)	Carton Size (mm)	Meter/Reel	Reel/Carton	Gross Weight (kg)
NDR1414-Single color	15000*14*14	430*400*390	15	2	16.53 (1± 10%)
NDR1414-WN	10000*14*14	390*390*325	10	3	14.75 (1± 10%)
NDR1414-RGB	5000*14*14	390*390*325	5	15	19.25(1± 10%)

- 15/10/5m per reel, and put reels into a carton 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.

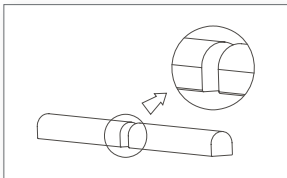
Reliability test

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/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	
		Room temperature aging test	TH=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.	

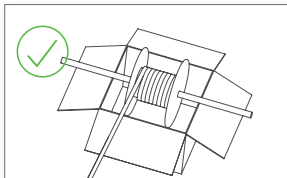
Warning Mark



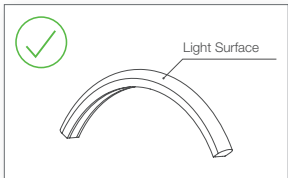
Cuttable identifier



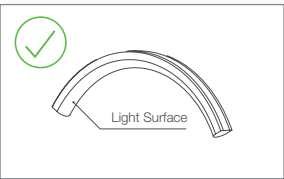
Neat and smooth cut



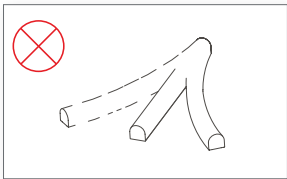
Insert a stick on the reel and place it on the packing box, and rotate the reel to get the product.



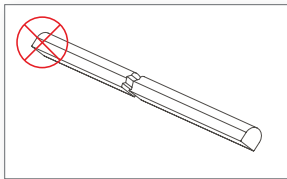
use in convex direction



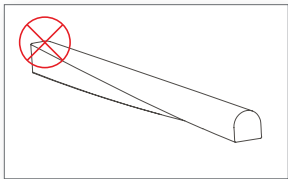
Use in concave direction



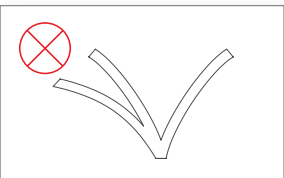
Side bending



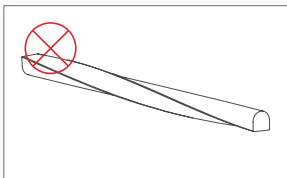
Do not make irregular cuts.



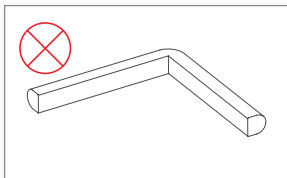
Do not use in distortions



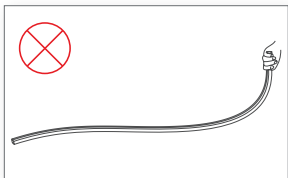
Do not bend many times, for it can endanger electronic lines.



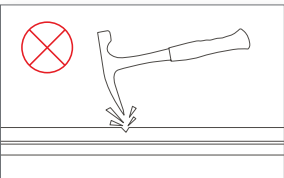
Do not use on wringing (twist)



Do not bend at right angles



Do not throw or pull when taking products



Avoid touching sharp objects

- Notes:
- There are cutting marks on the PCB;
 - 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
A2.3	Update: Basic Parameters of Single Color	2024-3-14