

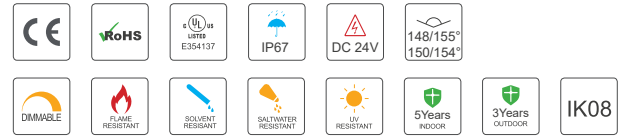
LED NEON FLEX NDR2018





Features

- Color options: Single color, WN, RGB, RGBW and pixel.
- Support PWM dimming of 0~1KHz.
- Adopt high quality constant current components with stable and reliable performance.
- Top bending and easy to shape.
- Silicone integrated extrusion shaping process with good weather resistance.
- 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	Rated Power (W/m)	
NDR2018-Single color	24V DC	155°	>80	2200K	1084	64.7	15.3	
				2700K	1374	79.7		
				4200K	1469	91.7		
				5200K	1459	87.1		
				6200K	1409	86.3		
				/	Red	290	19.3	15.3
				Green	925	61.7		
Blue	224	14.9						
NDR2018-WN	24V DC	148°	>80	3000K	640	88.8	7.2	
				6300K	668	92.8	7.2	
				W+N	1313	91.1	14.4	
NDR2018-RGB	24V DC	155°	/	Red	141	31.0	5.1	
				Green	313	61.2	5.1	
				Blue	65	12.0	5.1	
				RGB	500	33.5	15.3	
				6500K	439	81.4	4.3	
NDR2018-RGBW	24V DC	148°	>80	Red	106	24.8	4.3	
				Green	289	60.2	4.3	
				Blue	64	13.3	4.3	
				RGBW	876	47.3	17.2	
				4000K	950	61	15.5	
				Red	112	14.5	5.1	
				Green	249	30.6	5.1	
NDR2018-PIXEL(Single color)	24V DC	150°	>80	Blue	55	6.8	5.1	
				RGB	382	23.3	15.5	
				6500K	626	51.3	12.0	
				Red	116	14.6	8.0	
				Green	410	35.6	11.0	
NDR2018-PIXEL (RGB)	24V DC	155°	/	Blue	105	8.5	12.0	
				RGBW	607	24.0	19.2	

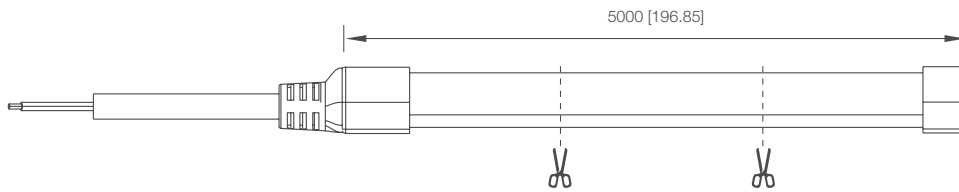
Other Parameters

Model No.	LED QTY	Standard Run	Pix/m	Min. Cuttable Length	Working Temperature	Storage Temperature
NDR2018-Single color	96pcs/m	5.0m	/	62.5mm	-20~+60°C	-20~+70°C
NDR2018-WN	240pcs/m	10.0m	/	50.0mm		
NDR2018-RGB	96pcs/m	10.0m	/	62.5mm		
NDR2018-RGBW	72pcs/m	5.0m	/	83.33mm		
NDR2018-PIXEL (Single color)	72pcs/m	5.0m	12	83.3mm		
NDR2018-PIXEL (RGB)	72pcs/m	5.0m	12	83.3mm		
NDR2018-PIXEL (RGBW)	60pcs/m	5.0m	10	100.0 mm		

Profile Drawings

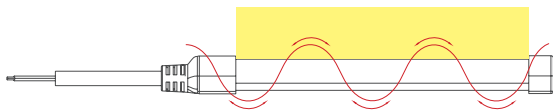
Unit:mm [inch]

Glue Process (IP67)



Bend direction

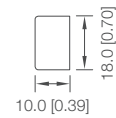
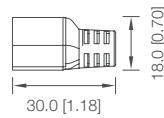
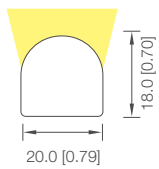
Bending Diameter



Sectional view

Front cap / Glue Process (IP67)

Closing End-cap / Glue Process (IP67)

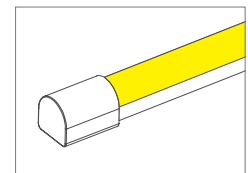
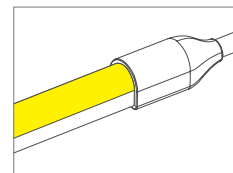
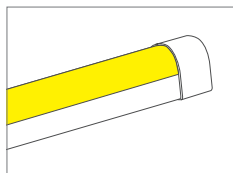
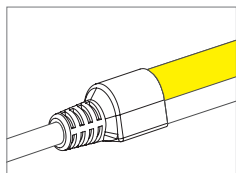


Note: Within 5m, the strip can be customized according to the integer multiple of the Min. cuttable length

IP Process Technology

Glue Process (IP67)

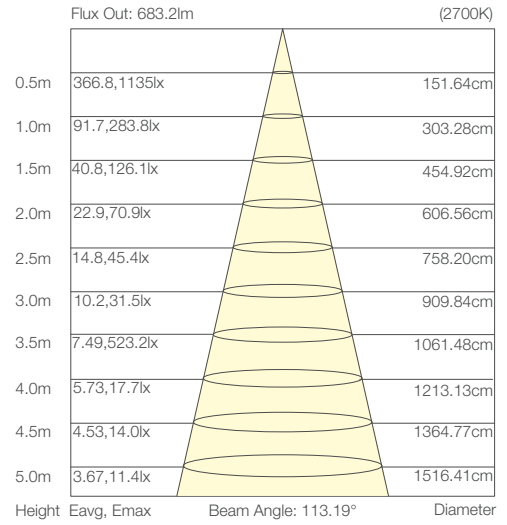
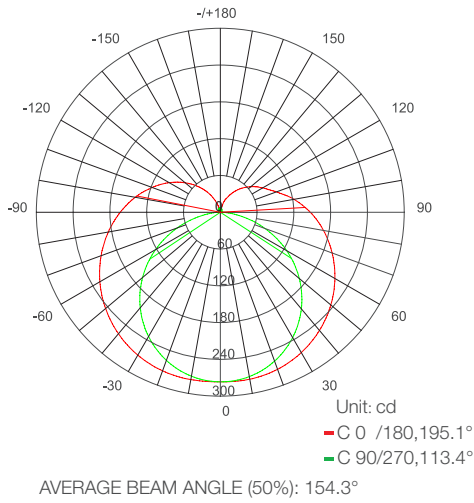
Molding pressed (IP68)



- 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



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

Recommended power supply upon working length

NDR2018-Single color

Working Length	Measured Current	Rated Voltage	Measured Power	Recommended Power Supply	Power Supply Mode
1m	0.64A	24V DC	15.36W	25W	Single Feed
5m	2.88A	24V DC	69.12W	100W	Single Feed

NDR2018-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	144W	200W	Single Feed

NDR2018-RGB

Working Length	Measured Current	Rated Voltage	Measured Power	Recommended Power Supply	Power Supply Mode
1m	0.64A	24V DC	15.36W	20W	Single Feed
5m	2.88A	24V DC	69.12W	100W	Single Feed
10m	6.4A	24V DC	153.6W	200W	Single Feed

NDR2018-RGB-R

Working Length	Measured Current	Rated Voltage	Measured Power	Recommended Power Supply	Power Supply Mode
1m	0.19A	24V DC	4.56W	7.2W	Single Feed
30m	5.13A	24V DC	123.12W	160W	Single Feed

NDR2018-RGB-G

Working Length	Measured Current	Rated Voltage	Measured Power	Recommended Power Supply	Power Supply Mode
1m	0.21A	24V DC	5.04W	7.2W	Single Feed
30m	5.67A	24V DC	136.08W	180W	Single Feed

NDR2018-RGB-B

Working Length	Measured Current	Rated Voltage	Measured Power	Recommended Power Supply	Power Supply Mode
1m	0.23A	24V DC	5.52W	7.2W	Single Feed
30m	6.21A	24V DC	149.04W	200W	Single Feed

NDR2018-RGBW

Working Length	Measured Current	Rated Voltage	Measured Power	Recommended Power Supply	Power Supply Mode
1m	0.72A	24V DC	17.28W	24W	Single Feed
5m	3.24A	24V DC	77.76W	100W	Single Feed

NDR2018-RGBW-R

Working Length	Measured Current	Rated Voltage	Measured Power	Recommended Power Supply	Power Supply Mode
1m	0.18A	24V DC	4.32W	7.2W	Single Feed
20m	3.24A	24V DC	77.76W	100W	Single Feed

NDR2018-RGBW-G

Working Length	Measured Current	Rated Voltage	Measured Power	Recommended Power Supply	Power Supply Mode
1m	0.20A	24V DC	4.80W	7.2W	Single Feed
20m	3.60A	24V DC	86.40W	120W	Single Feed

NDR2018-RGBW-B

Working Length	Measured Current	Rated Voltage	Measured Power	Recommended Power Supply	Power Supply Mode
1m	0.20A	24V DC	4.80W	7.2W	Single Feed
20m	3.60A	24V DC	86.40W	120W	Single Feed

NDR2018-RGBW-W

Working Length	Measured Current	Rated Voltage	Measured Power	Recommended Power Supply	Power Supply Mode
1m	0.22A	24V DC	5.28W	7.2W	Single Feed
20m	3.96A	24V DC	95.04W	120W	Single Feed

NDR2018-PIXEL (Single color)

Working Length	Measured Current	Rated Voltage	Measured Power	Recommended Power Supply	Power Supply Mode
1m	0.65A	24V DC	15.55W	25W	Single Feed
5m	2.92A	24V DC	70.2W	100W	Single Feed

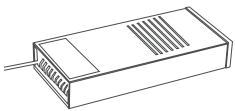
NDR2018-PIXEL (RGB)

Working Length	Measured Current	Rated Voltage	Measured Power	Recommended Power Supply	Power Supply Mode
1m	0.65A	24V DC	15.55W	25W	Single Feed
5m	2.92A	24V DC	70.2W	100W	Single Feed

NDR2018-PIXEL (RGBW)

Working Length	Measured Current	Rated Voltage	Measured Power	Recommended Power Supply	Power Supply Mode
1m	1.05A	24V DC	25.2W	48W	Single Feed
5m	4.98A	24V DC	119.7W	180W	Single Feed

Products and Tools



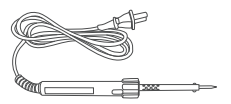
LED power supply



Cutter



Electric drill



Electric iron

Product accessories



ASY-NDR2018-N00NNH-EC

Item: Front cap
 Dimensions L*W*H: 50*23.2*21.2mm
 Quantity (10m): 2-4pcs
 Free/Optional: Free



ASY-NDR2018-N00NNX-EC

Item: Closing End-cap
 Dimensions L*W*H: 22.5*23.2*21.2mm
 Quantity (10m): 2-4pcs
 Free/Optional: Free



ASY-NDR2018-N00NNL-EC

Item: Front cap (Left)
 Dimensions L*W*H: 42.0*46.0*21.0mm
 Quantity (10m): --
 Free/Optional: Optional



ASY-NDR2018-N00NNR-EC

Item: Front cap (Right)
 Dimensions L*W*H: 42.0*46.0*21.0mm
 Quantity (10m): --
 Free/Optional: Optional



ASY-NDR2018-N00NNB-EC

Item: Front cap (Bottom)
 Dimensions L*W*H: 31.50*22.89*44.50mm
 Quantity (10m): --
 Free/Optional: Optional



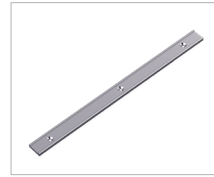
ASY-NDR2018-P1NN0020-MT

Item: Clip
 Dimensions L*W*H: 20*25*10mm
 Quantity (10m): --
 Free/Optional: Optional



ASY-NDR2018-A4NN0035-MT

Item: Aluminum track
 Dimensions L*W*H: 25*24.1*10.8mm
 Quantity (10m): --
 Free/Optional: Optional



ASY-NDR2018-A2NN1000-MT

Item: Aluminum Channel
 Dimensions L*W*H: 1000*24.47*10mm
 Quantity (10m): --
 Free/Optional: Optional



ASY-NDR2018-P3NN1000-MT

Item: Plastic Channel
 Dimensions L*W*H: 1220*25.5*10mm
 Quantity (10m): --
 Free/Optional: Optional



PA3

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

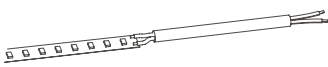


WR-7516

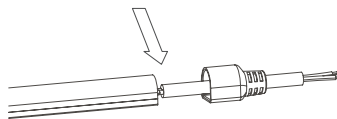
Item: Silicone Glue
 Dimensions: 45g/pc
 Quantity (10m): --
 Free/Optional: Optional

Installation

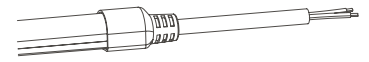
Front cap installation



Weld the wire to the PCB board.

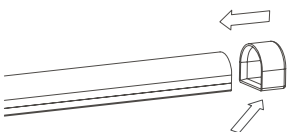


Apply waterproof glue to the front cap, then push the cap into the strip.

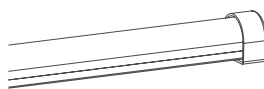


Wipe off the excess glue and wait for the glue to solidify.

Closing-end cap installation

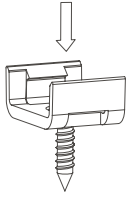


Apply waterproof glue to the end cap, then push the cap into the strip.

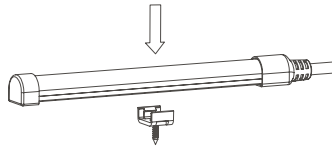


Wipe off the excess glue and wait for the glue to solidify.

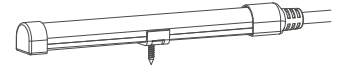
PC clip installation



Fix the clip with screw



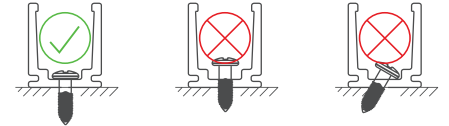
Put the strip into the clip



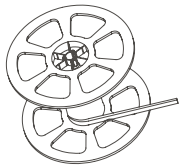
Finished

Notes:

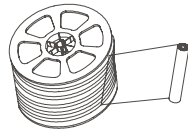
- At the welding place, please pay attention to the positive and negative poles of the wire and the strip;
- Each connection must use 10g silica gel for waterproof and insulating treatment;
- The screws must be vertical to the mounting surface and be fastened, as shown in the figure on the right;
- Please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



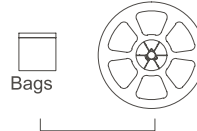
Packaging Information



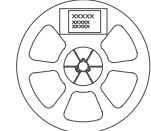
Roll the product to a reel



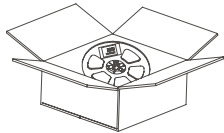
Wrap it with PE film



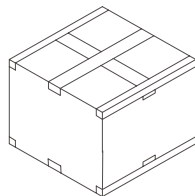
Put the reel and accessories bag on the work table



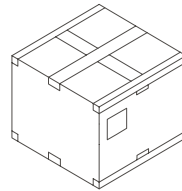
Label the reel;



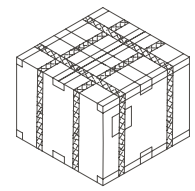
Put the prepared products into a carton box;



Seal the carton box;



Label the carton box;



Use packing belt to pack. Add edge protectors if necessary

Packaging information

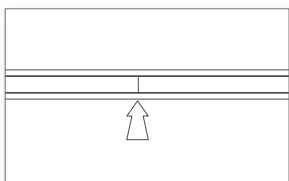
Model No.	Product Size L*W*H (mm)	Carton Size (mm)	Meter/Reel	Reel/Carton	Gross Weight (kg)
NDR2018-Single color	5000*20*18	480*445*370	5	12	17.65(1± 10%)
NDR2018-WN	10000*20*18	480*445*370	10	6	18.60(1± 10%)
NDR2018-RGB	10000*20*18	480*445*370	10	6	18.60(1± 10%)
NDR2018-RGBW	5000*20*18	480*445*370	5	12	17.55(1±10%)
NDR2018-PIXEL (Single color)	5000*20*18	480*445*370	5	12	17.50(1±10%)
NDR2018-PIXEL (RGB)	5000*20*18	480*445*370	5	12	17.50(1±10%)
NDR2018-PIXEL (RGBW)	5000*20*18	480*445*370	5	12	17.75(1±10%)

- One piece((5/10m) 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.

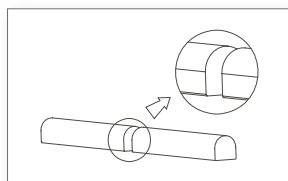
Reliability test

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/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.	

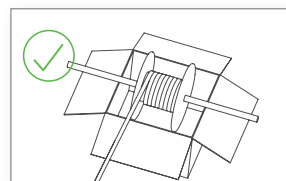
Warning Mark



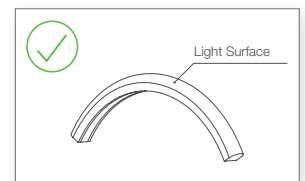
Cuttable identifier



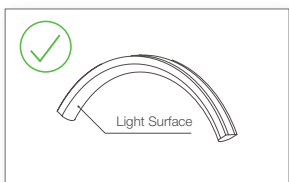
Neat and smooth cut



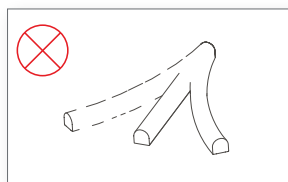
Insert a stick on the reel and place it on the packing box, and rotate the reel to get the product.



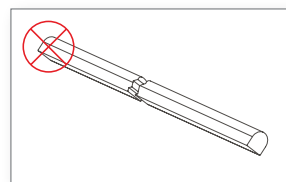
use in convex direction



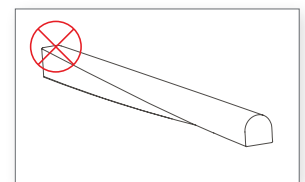
Use in concave direction



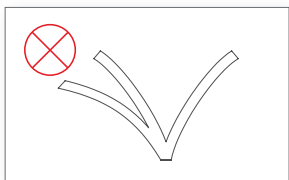
Side bending



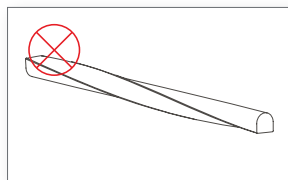
Do not make irregular cuts.



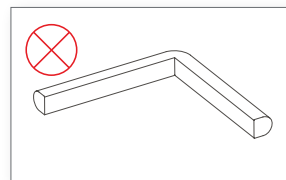
Do not use in distortions



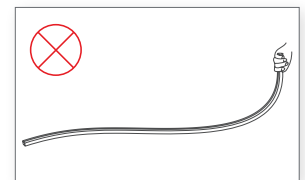
Do not bend many times, for it can endanger electronic lines.



Do not use on wringing (twist)



Do not bend at right angles



Do not throw or pull when taking products

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.

Recycling

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