

12x20 Side bend IP68 Neon Strip Data Sheet

Side Bend



- Good uniform light effect, no color difference, soft and smooth light.
- Using multiple waterproof designs, it can withstand long-term immersion in water.
- Silicone integrated extrusion molding process design, the use of food grade silicone material.
- Yellowing resistance, high temperature resistance and corrosion resistance, easy for installation.
- Waterproof grade IP68
- 5 years warranty

Technologies

- ON/OFF,RGB,DMX

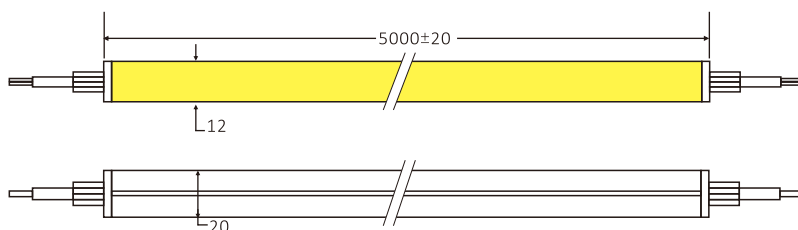
Application

- This product is suitable for engineering projects, swimming pools, park lighting, buildings, hotels, shopping malls, homes, exhibition stands, indirect lighting, concealed channel lighting, contour outlining, decorative lighting, and other purposes.

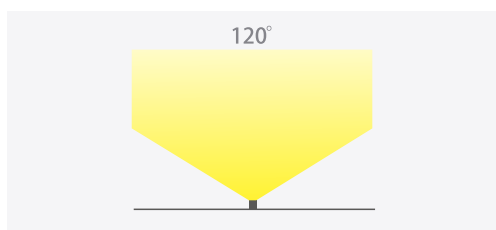
Color Options



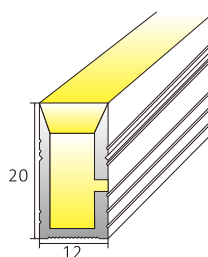
Dimensions



Beam Angle



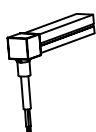
Sectional drawing



Recommended Accessories



Side exit
end cap



Bottom Exit
end cap



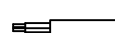
Direct Exit
End cap



End cap



Clip



cable

Product Specifications

P/N	LED Quantity	CCT K	CRI	LEDS (M)	LUMENS (lm/m)	Vf. (V.)	Current (mA/M)	Power (W/M)	Cut Length (MM)	Max Run (M)
RL-FV2410140283510-830-FWS1220	2835	2700	80/90	140	310	24	416	10	50	5
		3000			325					
		4000			360					
		5700			355					
RL-FV241096505012-RGBW-8xx-FWS1220	5050	R:620-625nm	80/90	96	140	24	500	12	62.5	5
		G:520-530nm								
		B:465-467nm								
		W:2700-6500K								

Other Specifications

Protection grade	IP68
Working temperature(°c)	-25~+60
Storage environment temperature (°c)	-25~+70
Standard length	5
Maximum cascade length(m)	5
weight	/

Remark

- The test environment temperature is 25±2°C;
- The above data are typical values, the actual parameters of the product may be different from the typical data; the data is subject to change without notice;
- The above "/" means that this parameter is not required for the time being.

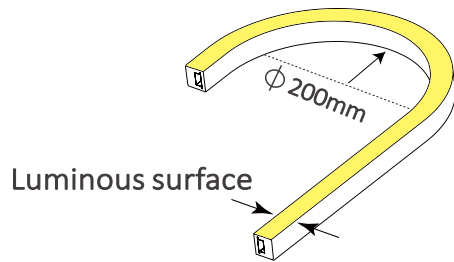
Applied Standards



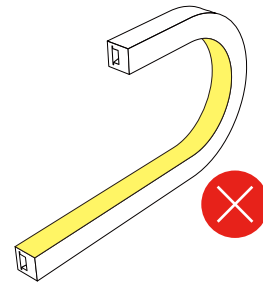
Installation

Note :Due to the different types and attributes of neon lights, please refer to the, line marks for the bending radius

① Bending Direction & Min. radius

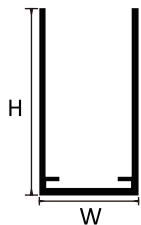


② Top bending prohibited

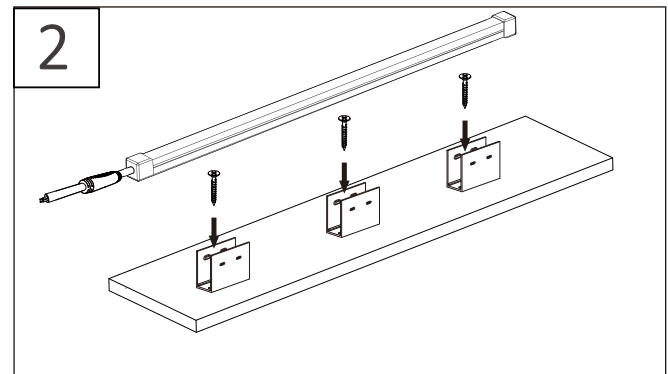
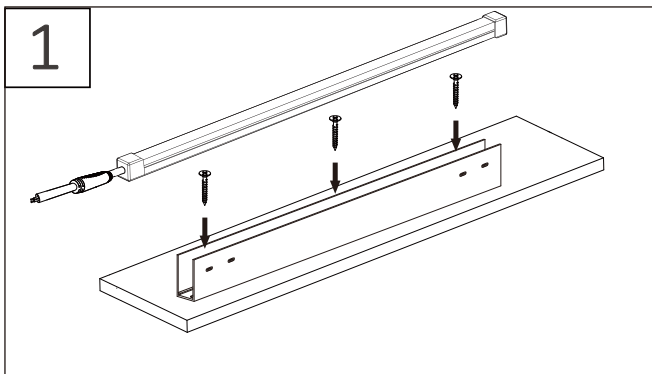
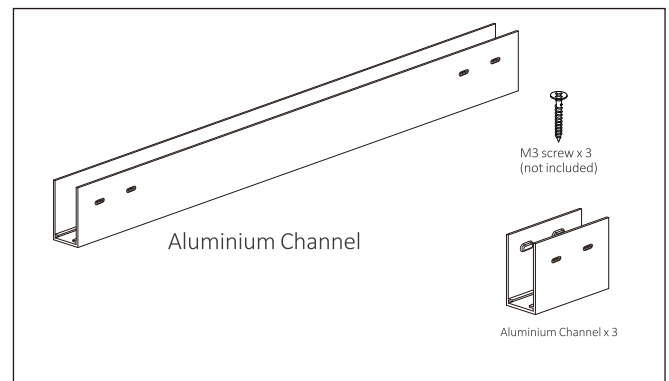


Mounting with aluminium profiles

Install with the screws provided. Do not use screws of other types or sizes that do not meet requirements.

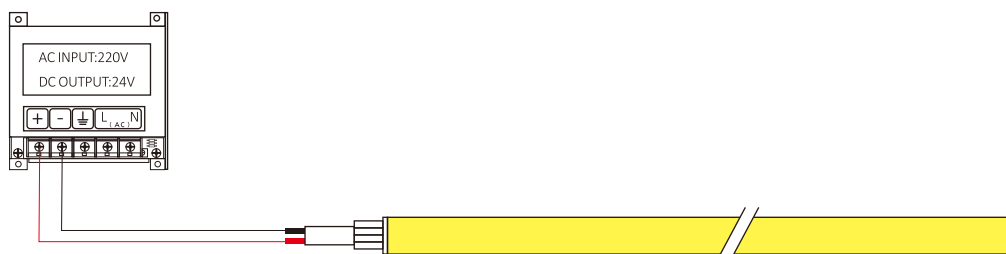


Description	W (mm)	H (mm)	Item Code
RL-1220-01 Strip with clips	14.6	23.5	11021079

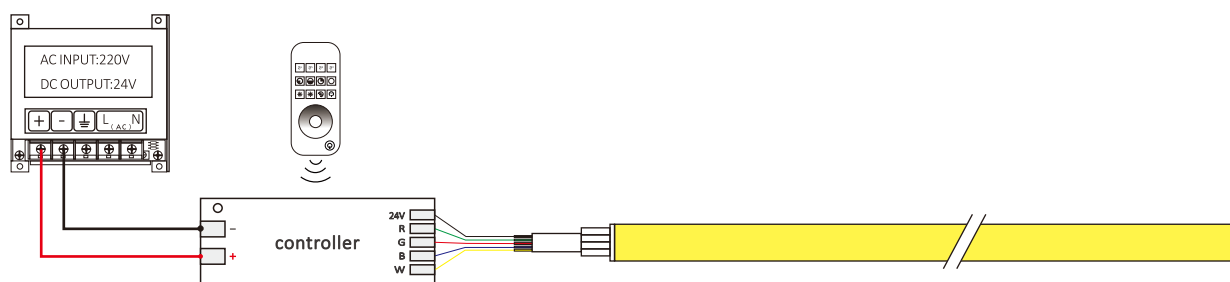


Schematic diagram of electrical connection

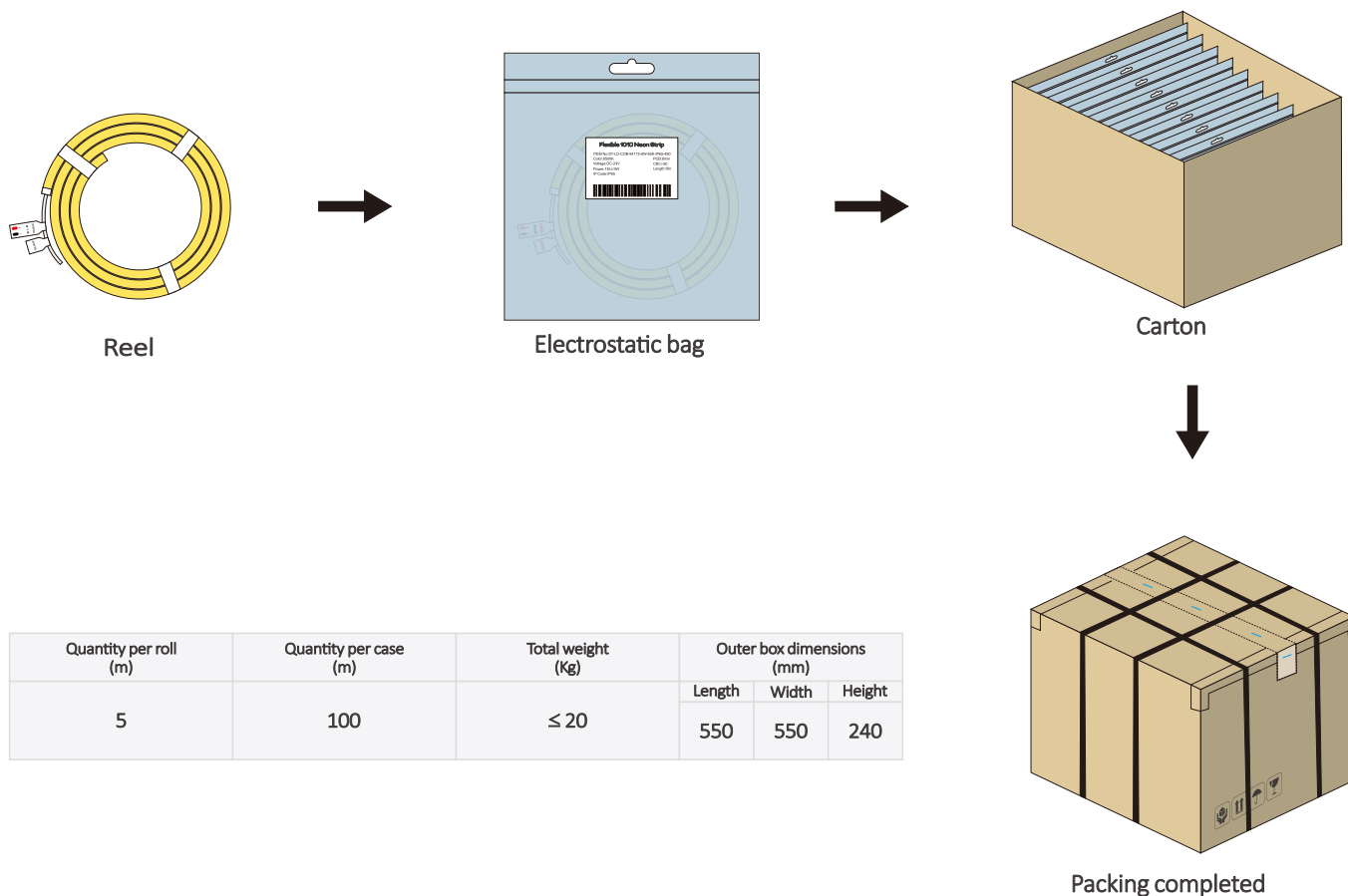
1.Monochrome temperature wiring diagram 1: Power + lamp belt connection mode



2.RGB wiring diagram: Power + controller + light belt connection mode

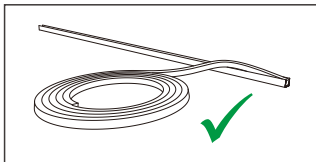


Package

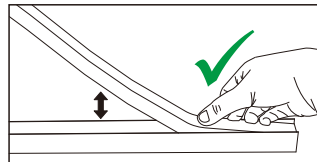
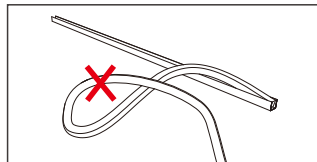


Note : The above-mentioned packaging quantity and weight are only for the packaging method shown in the figure. There will be differences in the number and weight of packaging for other packaging methods, and the actual product shall prevail.

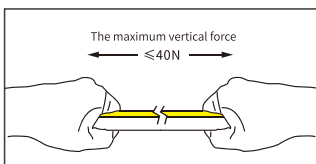
Installation Guidelines for LED Light Strips



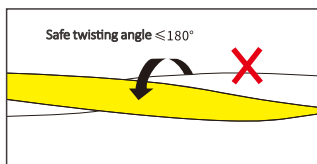
1. During LED strip installation, ensure to uncoil the strip loop by loop and maintain perpendicular alignment with the mounting profile. Avoid twisting or knotting of the strip at all times.



2. Align the LED strip with the opening of the profile, gently lift and press the strip into the profile, and strictly avoid excessive bending or lifting of the strip.

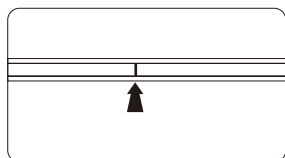


The safe tensile force for the LED strip shall be $\leq 40N$. Excessive force may damage the internal circuitry.

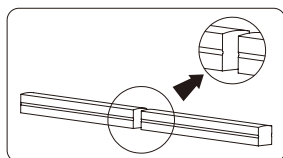


The safe twisting angle for the LED strip shall not exceed 180° .

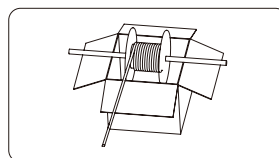
Warning sign



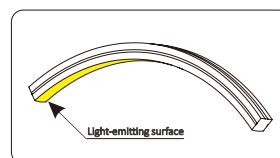
Cuttable Marking Area
(on the bottom or side of the product)



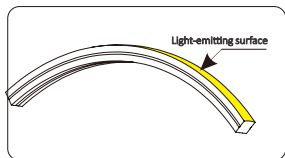
Neat and smooth cut



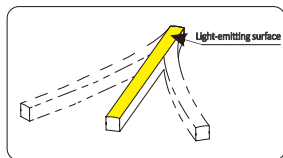
Mount the roll on a rod over the box
and rotate to use



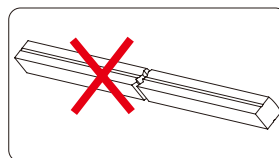
Top Bend



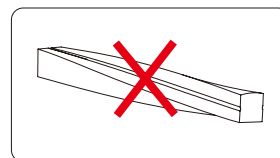
Side Bend



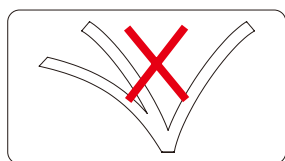
Do not bend left or right



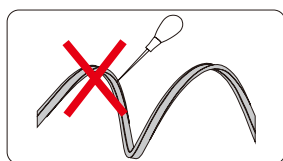
Do not leave uneven cuts



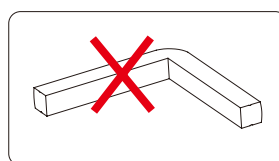
Do not twist during use



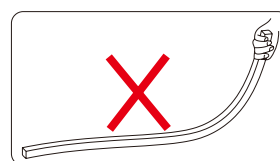
Repeated bending may damage
electronic circuits



Do not puncture or scratch with sharp
objects



Do not bend at sharp angles



Do not jerk or yank when using the product

1. The cutting marks are located on the PCB. Refer to the product cutting line window or laser markings on the surface to identify the trimming position.

2. During transportation and application, please observe the above warning labels. Proper handling ensures optimal performance and user satisfaction.

Common product faults and their troubleshooting methods

Fault Phenomena	Possible Causes	Troubleshooting Methods
All lights off	1.Mains power failure	Power on
	2.Open circuit or short circuit at switching power supply output triggering auto-protection	Troubleshoot and restore power
	3.Reverse polarity at LED strip power input	Check wire connection status to ensure correct polarity
Partial lights off	1.Partial switching power supply failure	Inspect power supply system and resolve faults
	2.Wiring error in partial LED strip circuits	
	3.Reverse polarity in partial LED strips	Correct wiring
LED uneven brightness or insufficient brightness	1.Power supply overload	Replace with higher-power supply according to load
	2.Excessive line loss in switching power circuits or significant line loss discrepancies	Maintain LED strip operating voltage within $\pm 5\%$ of rated voltage 1.Shorten power cable length between power supply and LED strip or use larger gauge wires; 2.Ensure number of LED strips per circuit \leq max allowed cascading quantity and keep cascading quantities similar per circuit).
	3.Excessive serial connection of LED strips	Adjust LED strip quantity per power branch to meet max allowed cascading requirements per circuit
LED flickering	1.Poor contact at connection points	Identify and resolve poor contact points
	2.Switching power supply malfunction	Replace switching power supply



Notice

- If the external flexible cable of this product is damaged, the cable must be replaced by the manufacturer or similarly qualified personnel to prevent hazards.
- For specific installation arrangements and precautions, refer to the product user manual.
- Data in this specification is based on standard products. Actual delivered products may vary, subject to physical measurements.
- All product diagrams in this specification are schematic diagrams. Actual delivered products may differ, subject to physical objects.
- Technical modifications may be implemented without prior notice.
- Shenzhen Meishang Lighting Co., Ltd. reserves the final interpretation rights of this manual.



Specialized
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