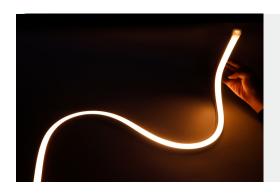
2020 Free Bend Neon Strip Data Sheet

Free Bend



- Using silicone extrusion process, 20* 20 Mini size design
- Uniform light emission, good appearance consistency
- An -yellowing, high temperature resistance, corrosion resistance, weak acid and alkali resistance
- · Good flexibility, small size, light weight, easy installa on
- Food-grade environmentally friendly silicone material.
- Waterproof grade IP67
- 5 years warranty

Technologies

ON/OFF,RGBW,DIVIX

Applica on

• This product is suitable for any use in engineering projects, signage and ar s cmodeling, home decora on, o ce decora on ligh ng, etc

Color Op ons



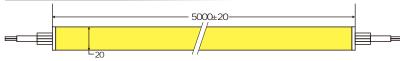






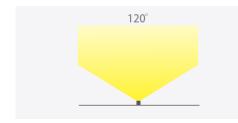




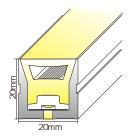




Beam Angle



Sec onal drawing



Recommended Accessories



Side exit Bo om Exit end cap end cap



Direct Exit End cap













End cap

Bendable Profile

Clip

cable

Product Specifica ons

P/N	LED Quan ty	CCT	CRI	LEDS (M)	LUMENS (lm/m)	Vf.	Current (mA/M)	Power (W/M)	Out Length (MM)	Max Run (M)
RL-FV2414108283512-8XX-FWD2020	2835	2700	80/90	108	550	24	500	12	50	5
		3000			550					
		4000			600					
		6500			600					
RL-FV2414108283512-8CW-FWD2020	2835	2700+6500	80/90	108	580	24	500	12	100	5
RL-FV2414070505012-RGB-FWD2020	5050	R:620-625	80/90	70	150	24	500	12	100	5
		G:520-525								
		B:465-470								
RL-FV2414070505012-RGB-FWD2020	5050	R:620-625	80/90	70	200	24	500	12	100	5
		G:520-525								
		B:465-470								
		W:2700+6500								
RL-FV2414070505012-SPI-FWD2020 (10pixels)	5050	R:620-625	/	70	160	24	542	13	100	5
		G:520-525								
		B:465-470								
RL-FV2414070505012-DMX-FWD2020 (10pixels)	5050	R:620-625	80/90	70	200	24	500	12	100	5
		G:520-525								
		B:465-470								
		W:2700+6500								

Other Specifica ons

Protection grade	IP67
Working temperature (℃)	-25~+60
Standard length (℃)	-25~+70
Maximum cascade length(m)	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 dierent from the typical data; the data is subject to change without no oe;
- The above "/" means that this parameter is not required for the time being.

Applied Standards















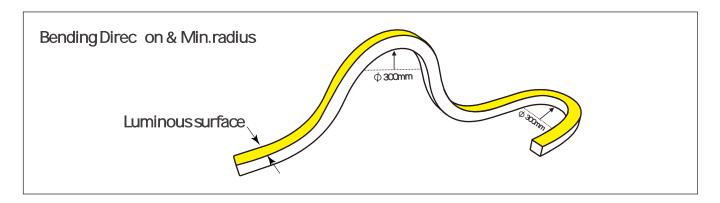
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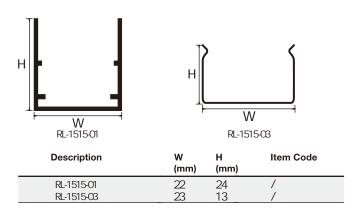
Installa on

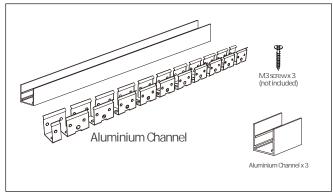
Note: Due to the di erent types and a ributes of neon lights, please refer to the, line marks for the bending radius

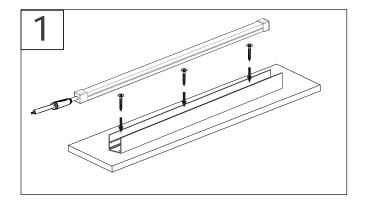


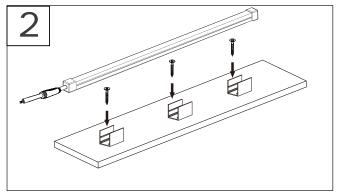
Moun ngwith aluminium profiles

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







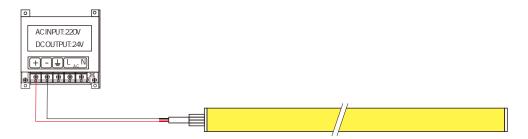


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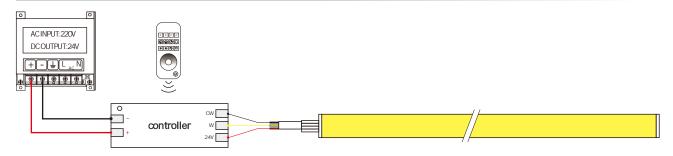


Schematic diagram of electrical connection

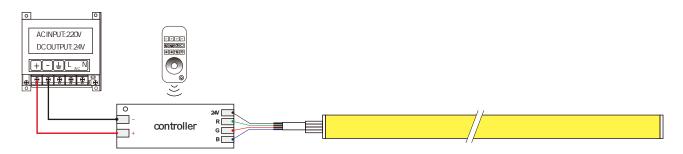
1. Monochrome temperature wiring diagram: Power + lamp belt connec on mode



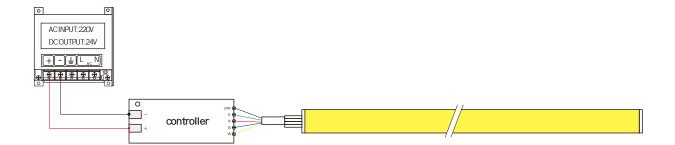
2Two-color temperature wiring diagram: power + controller + lamp belt connec on



3.RGB wiring diagram: Power + controller + light belt connec on mode



4. RGBW wiring diagram: Power supply + controller + lamp belt connec on



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Package





Quan typerroll (m)	Quan typercase (m)	Total weight (Kg)	Outer box dimensions (mm)		
		Length	Width	Height	
5	100	20	550	550	240

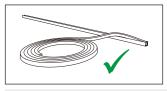


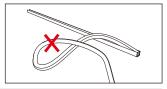
Packing completed

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

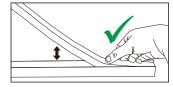
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Installa on Guidelines for LED Light Strips



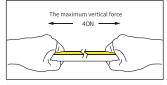


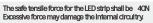
1. During LED strip installa on, ensure to uncoil the strip loop by loop and maintain perpendicular alignment with the moun an oppositie. Avoid twis angor kno angost the strip at all mes.

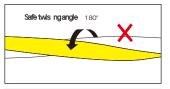




2.Align the LED strip with the opening of the profile, gently II $\,$ and press the strip into the profile, and strictly avoid excessive bending or II $\,$ ing of the strip.

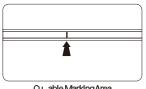




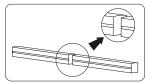


The safe twis ing angle for the LED strip shall not exceed 180°.

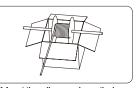
Warning sign

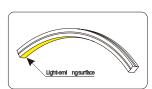


Ou able Marking Area (on the bo om or side of the product)

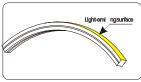


Neat and smooth cut

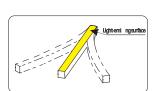




Top Bend



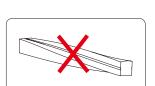
Side Bend



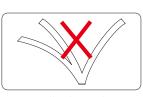
Do not bend le or right



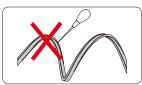
Do not leave uneven cuts



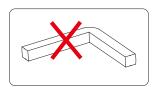
Do not twist during use



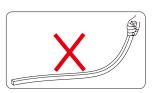
Repeated bending may damage electronic drouits



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 cuing marks are located on the PCB. Refer to the product cuing line windowor laser markings on the surface to iden fy the trimming posi on.
- 2 During transporta on and applica on, please observe the above warning labels. Proper handling ensures op mal performance and user sa sfac on.



Common product faults and their troubleshoo ng methods

Fault Phenomena	Possible Causes	Troubleshoo ng Methods		
All lightso	1.Mainspower failure	Power on		
	2. Open drault or short drault at switching power supply output triggering auto-protec on	Troubleshoot and restore power		
	3. Reverse polarity at LED strip power input	Check wire connect on status to ensure correct polarity		
Par al lightso	1.Par al switching power supply failure	Inspect power supply system and resolve faults		
	2 Wiring error in par al LED strip drouits			
	3. Reverse polarity in par al LED strips	Correct wiring		
LED uneven brightness or insu dent brightness	1. Power supply overload	Replace with higher-power supply according to load		
	2. Excessive line loss in switching power drouits or significant line loss discrepancies	Maintain LED strip opera ngvoltage within ±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 dirouit max allowed cascading quanty and keep cascading quan essimilar per dirouit).		
	3. Excessive serial connec on of LED strips	Adjust LED strip quan typer power branch to meet max allowed cascading requirements per dircuit		
LED flickering	1. Poor contact at connec on points	Iden fy and resolve poor contact points		
	2.9witching power supply malfunc on	Replace switching power supply		



- 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 installa on arrangements and precau ons, refer to the product user manual.
- Data in this specifica on is based on standard products. Actual delivered products may vary, subject to physical measurements.
- All product diagrams in this specifica on are schema c diagrams. Actual delivered products may dier, subject to physical objects
- Technical modifica ons may be implemented without prior no ce.
- Shenzhen Meishang Ligh ng Co., Ltd. reserves the final interpreta on rights of this manual.



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