1616 Ultra-dense Neon Strip Data Sheet

Top Bend

- Using silicone extrusion process, 16*16Mini size design
- Independent pixel control, precise single-point dimming and color tuning
- Anti-yellowing, high temperature resistance, corrosion resistance, weak acid and alkali resistance
- Adopts SPI protocol, compatible with remote control adjustment
- Food-grade environmentally friendly silicone material.
- Waterproof grade IP67
- 3 years warranty

Technologies

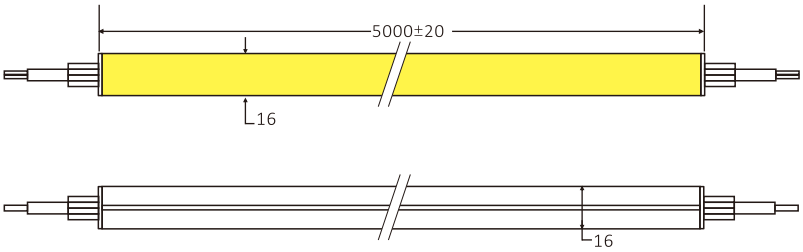
- SPI

Application

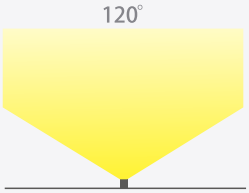
- This product is suitable for hotels, KTVs, homes, cabinets, courtyards, etc., for contouring, atmosphere lightingdecorative lighting and other purposes.

Color Options

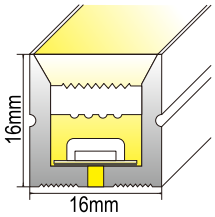
Dimensions



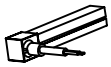
Beam Angle



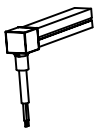
Sectional drawing



Recommended Accessories



Side exit end cap



Bottom Exit end cap

Direct Exit End cap

End cap

Bendable Profile

Clip

cable

Product Specifcations

P/N	LED	CCT K	CRI	LEDS (m)	LUMENS (lm/m)	Voltage V	Current (mA/M)	Power (W/M)	Cut Length (MM)	Max Run (M)
RL-FV2410060505012-SPI-FWD1616	5050	R:620-625 G:515-520 B:465-470	/	60	/	24	416	10	33.33	5

Other Specifications

Protection grade	IP67
Working temperature(°c)	−25~+60
Storage environment temperature (°c)	−25~+70
Standard length	5
Maximum cascade length(m)	5
weight	/

Remark

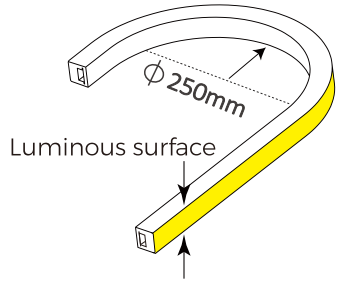
- The test environment temperature is 25±2°C;
- The above data are typical values, the actual parameters of the product may be different from the typical data; the data is subject to change without notice;
- The above "/" means that this parameter is not required for the time being.

Applied Standards

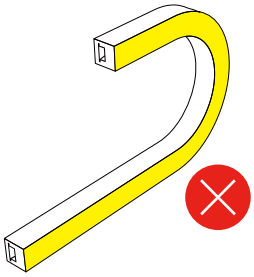
Installation

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

① Bending Direction & Min. radius

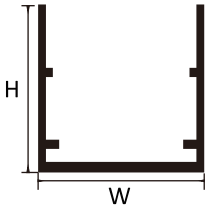


② Side bending prohibited



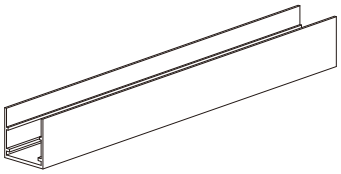
Mounting with aluminium profiles

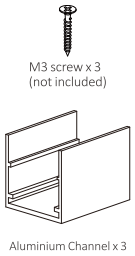
Install with the screws provided. Do not use screws of othertypes or sizes that do not meet requirements.

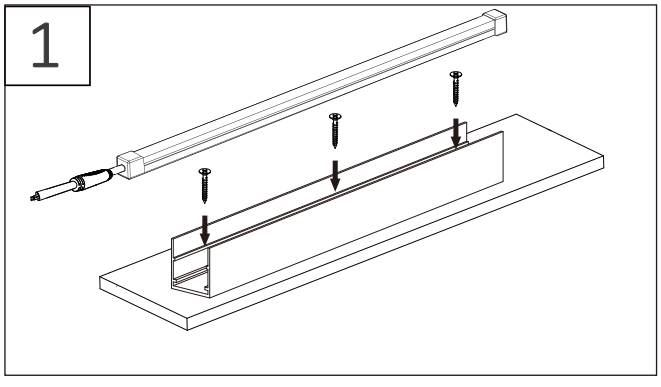


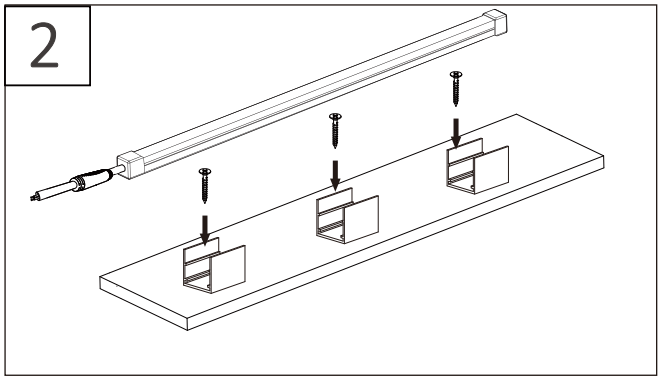
RL-1616-01

Description	W (mm)	H (mm)	Item Code
RL-1616-01	18	18	/



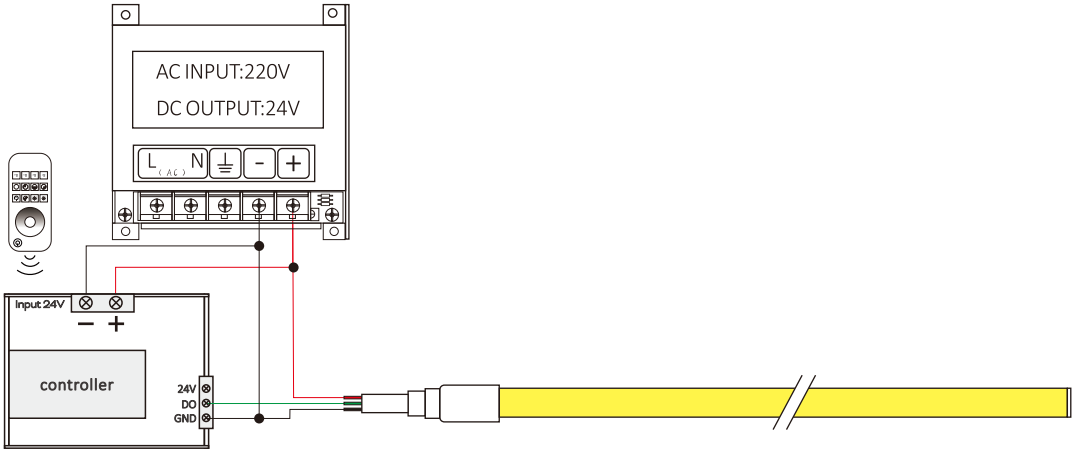




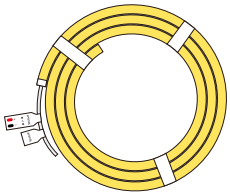


Schematic diagram of electrical connection

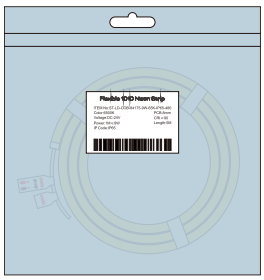
1.SPI wiring diagram: Power + controller + light belt connection mode



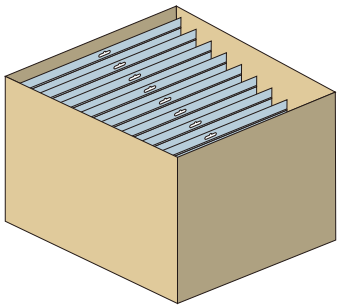
Package



Reel



Electrostatic bag



Carton

Packing completed

Quantity per roll (m)	Quantity per case (m)	Total weight (Kg)	Outer box dimensions (mm)		
			Length	Width	Height
5	50	<20	550	550	240

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.

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 ±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 ≤ 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 Relight technology Co., Ltd. reserves the final interpretation rights of this manual.

Neon Flex Warranty Disclaimer

1.Any malfunction, performance issue, or physical damage caused by improper handling, installation, or operation of the neon flex strip, including but not limited to excessive pulling, compression, twisting, or reverse bending, is excluded from warranty coverage.

2.Warranty coverage does not apply to products operated outside the specified ambient temperature range. Exposure to extreme high or low temperatures may result in silicone cracking, yellowing, hardening, embrittlement, or other material degradation.

3.Products operated continuously for extended periods exceeding 10 hours per day are excluded from standard warranty coverage. Continuous 24-hour operation or long-term uninterrupted use may accelerate lumen depreciation and product aging.

4.Warranty shall be void if the product is exposed, directly or indirectly, to harsh environmental conditions including chemical corrosion, organic solvents, high-energy radiation, or other factors that may cause deterioration or chemical alteration of the silicone material.

5.After on-site cutting, all cut sections and end caps must be professionally sealed in accordance with installation requirements. Failure to apply proper waterproof sealing, uneven sealant application, or the use of instant/quick-curing adhesives may result in moisture ingress, PCB corrosion, mold formation, LED failure, or other related damage, which is not covered under warranty.

6.Standard silicone neon flex products are rated IP67 and are intended for temporary water exposure only. They must not be submerged, immersed, or installed underwater.

7.Silicone neon flex products are not designed for direct floor-mounted applications subject to vehicular traffic, heavy mechanical loads, or pedestrian trampling. Standard neon flex products are rated IK08 and are not intended to withstand heavy impact or crushing forces.

8.The warranty period shall commence from the original factory shipment date.

Specialized
LED Strip Manufacturer

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