

Flexi Neon 1312 LED Strip Light IP67

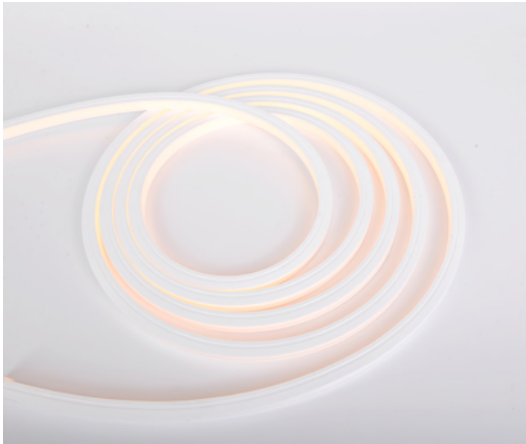
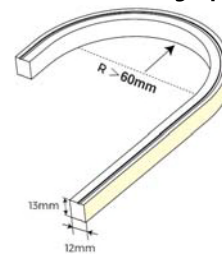
▼ Features:

- ※ Light source: High luminous efficiency, SMD2835、2735、2110、4040、5050 LED SMD, LM80 test proved.
- ※ Process & Material: High light transmittance, food-grade environmental silicone material, integrated extrusion molding technology, IP67/68.
- ※ Optical Design: Unique optical light distribution structure design, uniform lighting surface and no shadow
- ※ Appearance Design: Compared with the traditional neon tube or PVC guardrail tube, the silicone material has good flexibility, the simple and stylish appearance, which is exquisite and unique.
- ※ Product Certification: UL、CE、ROHS.
- ※ Environmental Features: Resistance to saline solutions, acids & alkali, corrosive gases and UV.
- ※ Working/Storage Temperature: Ta:-20~55°C / 0°C ~ 60°C.
- ※ Life Span: 36000H, 3 years warranty (RGB digital series 2 years) .

▼ Product

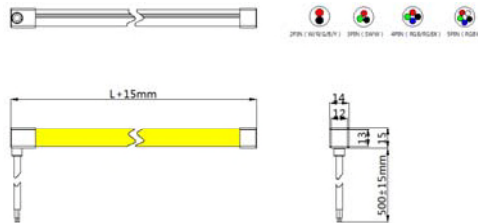
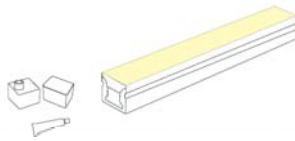
- ※ Signage Lighting
- ※ Outdoor/indoor decorative
- ※ Architectural Contour lighting
- ※ Waterproof lighting

▼ Product Bending Application

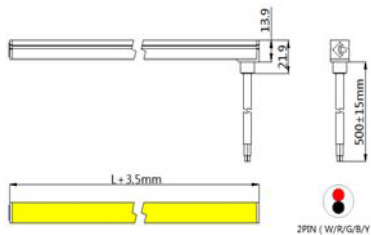


▼ Product's protective technology & structure size

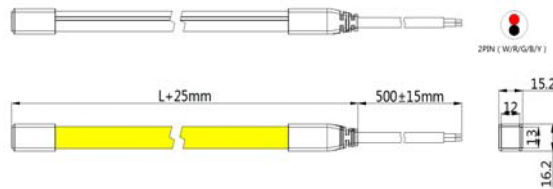
IP67 silicone end cap



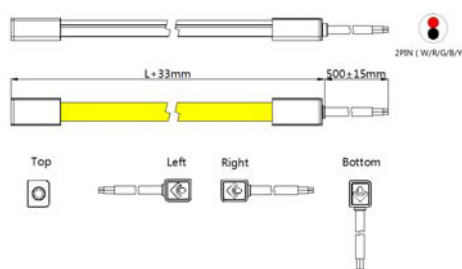
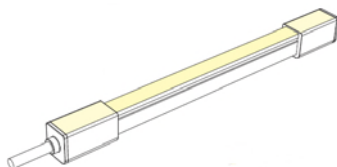
IP67 Shadowless End-Cap



IP68 full protective End-Cap



IP67 Weld-free waterproof End-Cap



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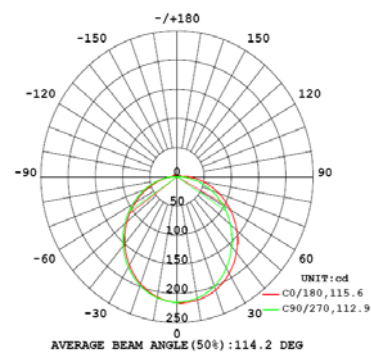
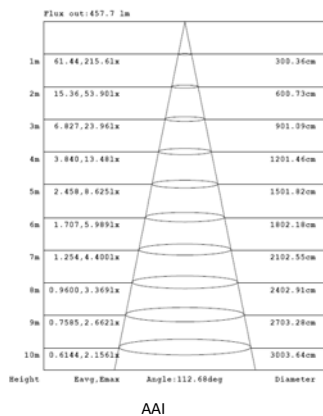
▼ Basic Parameters

Model	CCT/colors	CRI	Input voltage (V)	Rated current (A)	Rated power (w)	Lumens	Size (mm)	Max.length	Cutting unit (mm)
GCFLN1312 Single Colour	2300K	>80	24V	0.4	9.6	640	W13*H12	5000& 10000mm	50
	2700K					640			
	3000K					670			
	4000K					670			
GCFLN1312 RGBY	R 620-630nm	/		0.34	8	/			
	G 525-530nm					/			
	B 465-470nm					/			
	Y 587-592nm					/			
GCFLN1312 RGB	RGB	/		0.5	12	/			
	R 620-630nm					/			
	G 525-530nm		/						
GCFLN1312 RGBW	B 465-470nm	/	0.6	14.4	/	5000 mm	62.5		
	RGB~2700K				/				
	RGB~3500K				/				
	RGB~4500K				/				
GCFLN1312 RGBX	RGB~5000K	/	0.75	18	/	71.43			
	RGBX				/				
	R 620-630nm				/				
	G 525-530nm				/				
GCFLN1312 2700~5000K	B 465-470nm	>90	0.5	12	650	31.25			
	2700~5000K				650				
	2700~5000K				650				

Note:

- 1、The above data is the testing result of 1M standard product;
- 2、The power and lumens of output data can be vary up to $\pm 10\%$;
- 3、The above parameters are all typical values;

▼ Light Distribution:

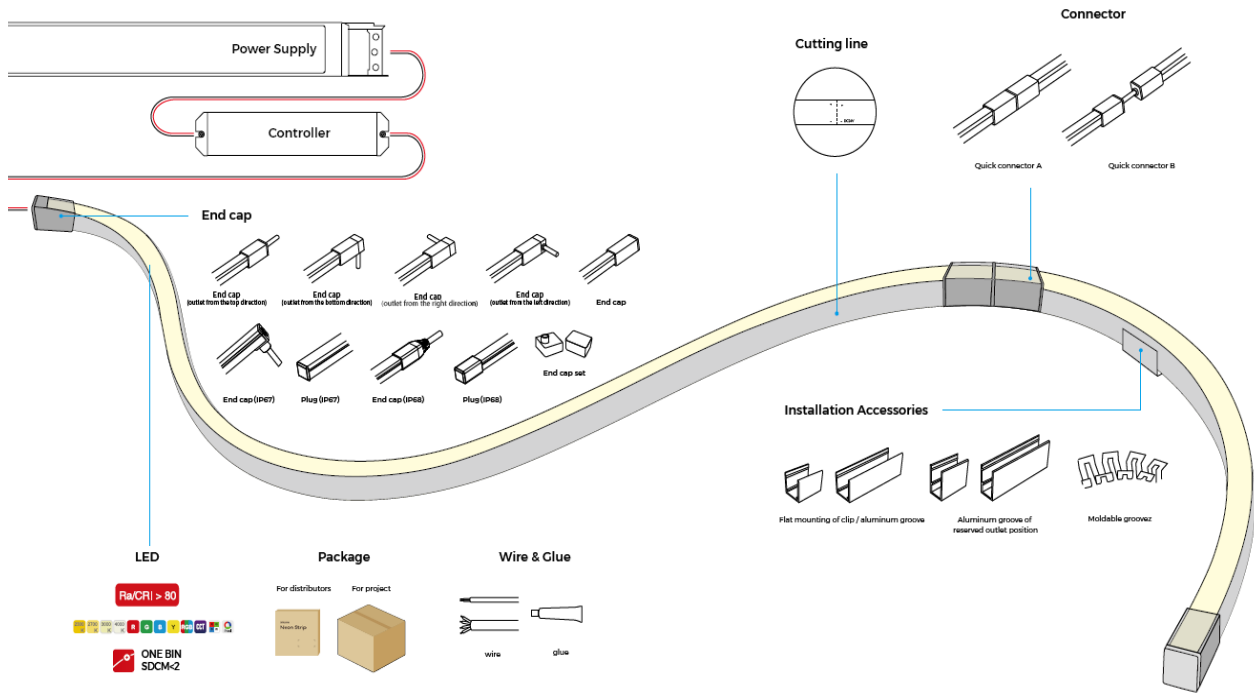


Photometric of 1M strip




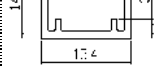



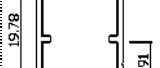

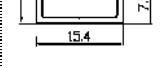


Note: The above data are based on the color temperature of 4000K monochrome. If you need other color IES files, please download the corresponding model from the IES database.

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▼ Product System Solutions



▼ Accessory information:


Name	Description	Image	Sectional size	Ordering code	Product quantity/case (PCS)	Product quantity/case (kg)	Net weight per box (kg)	Gross weight (kg)	Gross weight (mm)	Remark
Aluminum carrier	Flat mounting aluminum groove			FLN1312A-1000	30 PCS	0.1453	4.359	5.44	1100*112*50	Size: L1000*W15.4*H14.1mm, with screw
Aluminum clip	Flat mounting clip			FLN1312A-25	450 PCS	0.0058	2.61	2.91	250*250*150	Size: L25*W15.4*H14.1mm, with screw
Aluminum carrier	Aluminum groove of reserved outlet			FLN1312A1-1000	24 PCS	0.1513	3.64	4.72	1290*112*50	Size: L1000*W15.4*H19.8mm, with screw
Aluminum clip	clip with reserved outlet position			FLN1312A1-25	450 PCS	0.0061	2.745	3.045	250*250*150	Size: L25*W15.4*H19.8mm, with screw
Moldable carrier	Moldable groovez			FLN1312M-500	66	0.046	4.55	6	500*290*290	Size: L500*W13.7*H13.5mm, with screw
End-Cap set	Silicon End-Cap Set (End Cap and Plus)			FLN1312GS0-EC	400	0.0035	1.4	1.7	250*250*150	/

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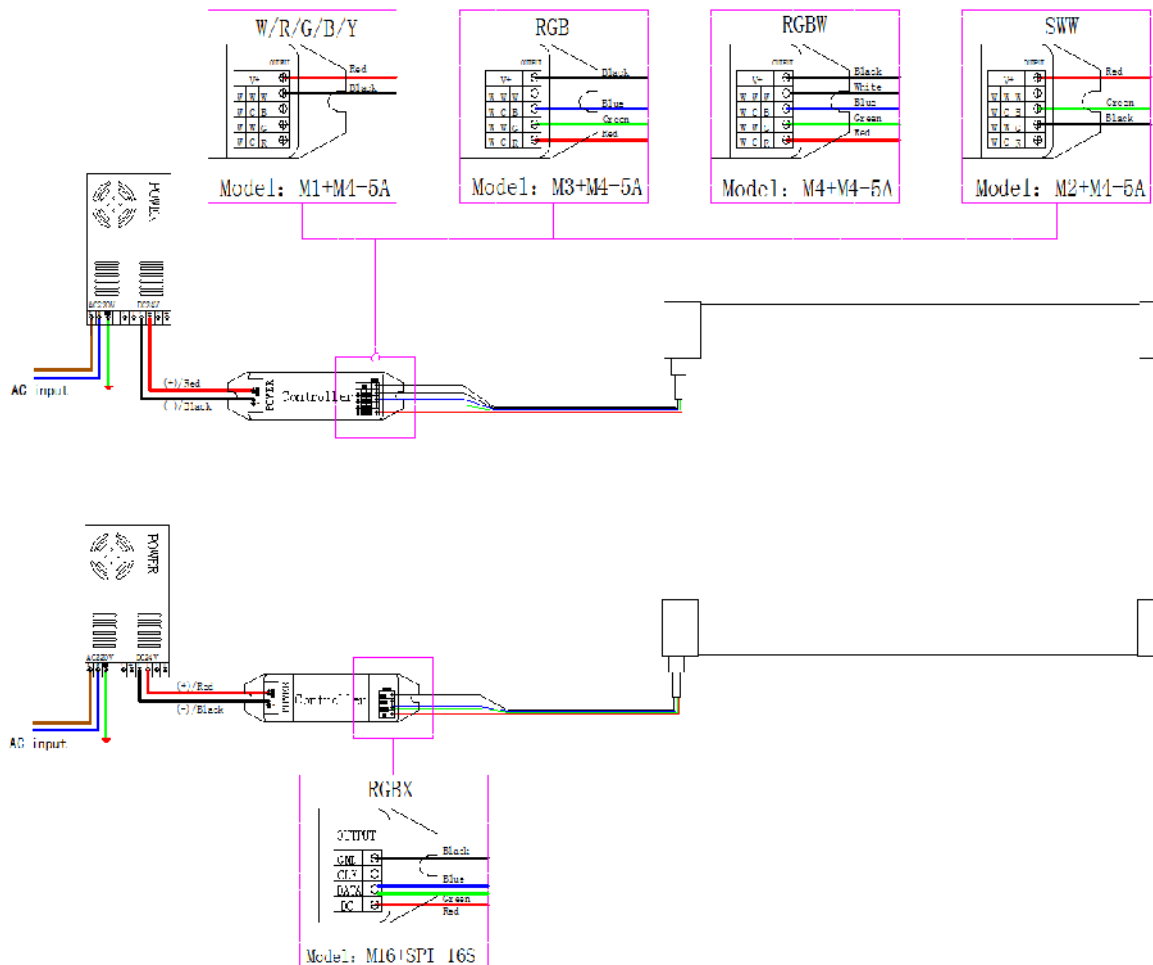
Weld-free waterproof End-Cap	Quick connector(outlet from the top direction)			FLN1312HT0-FL	48	0.04	1.92	3.735	365x365x190	outlet 500mm\IP67
Weld-free waterproof End-Cap	Quick connector(outlet from the bottom direction)			FLN1312HB0-FL	48	0.04	1.92	3.735	365x365x190	outlet 500mm\IP67
Weld-free waterproof End-Cap	Quick connector(outlet from the left direction)			FLN1312HL0-FL	48	0.04	1.92	3.735	365x365x190	outlet 500mm\IP67
Weld-free waterproof End-Cap	Quick connector(outlet from the right direction)			FLN1312HR0-FL	48	0.04	1.92	3.735	365x365x190	outlet 500mm\IP67
Weld-free waterproof End-Cap	Quick connector(plug)			FLN1312HX0-FL	48	0.03	1.44	3.255	365x365x190	IP67
Weld-free waterproof connector	Quick connector(without wire)			FLN1312MX0-FL	96	0.026	2.496	2.75	365x365x190	IP67
Weld-free waterproof connector	Quick connector(with wire)			FLN1312MH0-FL	48	0.053	2.544	2.8	365x365x190mm	middle wire 300mm, IP67
Glue	Acid glue		/	FLN-PG-0002	150	0.014	2.1	2.4	250*250*150	10ml/pcs
wire	2P PVC wire (0.5M)		/	FLN-WS-0001	150	0.01541	2.31	2.61	250*250*150	Suitable for single color strip
wire	2P PVC wire (2M)		/	FLN-WS-0002	125	0.0616	7.7	8	250*250*150	
wire	4P PVC wire (0.5M)		/	FLN-WS-0003	150	0.0194	2.91	3.21	250*250*150	Suitable for RGB strip
wire	4P PVC wire (2M)		/	FLN-WS-0004	125	0.0776	9.7	10	250*250*150	Suitable for SWW strip
wire	5P PVC线材 wire (0.5M)		/	FLN-WS-0013	150	0.0195	2.925	3.364	250*250*150	Suitable for RGB strip
wire	5P PVC wire (2M)		/	FLN-WS-0014	125	0.0755	9.4375	10.86		
connector	2PIN IP68 Waterproof connector		/	FLN-FC-0001	512	0.016	8.192	9.5	365*365*190	Suitable for single color strip
connector	3PIN IP68 Waterproof connector		/	FLN-FC-0002	512	0.018	9.216	10.2	365*365*190	Suitable for RGBX strip Suitable for SWW strip
connector	4PIN IP68 Waterproof connector		/	FLN-FC-0003	288	0.03	8.64	9.6	365*365*190	Suitable for RGB strip

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▼ Product Control System Solution

Name	Model	Ordering code	Parameters	Dimming constant-voltage acceptor	Suitable products
 Single color dimming set	M1+M4-5A	23-01-00-0045	Operating voltage: 3VDC (Battery CR2032) Operating frequency: 433.92MHz Remote control distance: 30m Operating temperature: -30°C 55°C	Input voltage: 12-24VDC Maximum loaded current: 5A*4CH Max 20A Maximum loaded power: 240W/480W (12V/24V) Operating temperature: -30°C 55°C Size: L170*W44*H30(mm) Package size: L228*W155*H32(mm)	White color strip
 CCT set	M2+M4-5A	23-01-00-0005	Operating voltage: 3VDC (Battery CR2032) Operating frequency: 433.92MHz Remote control distance: 30m Operating temperature: -30°C 55°C	Input voltage: 12-24VDC Maximum loaded current: 5A*4CH Max 20A Maximum loaded power: 240W/480W (12V/24V) Operating temperature: -30°C 55°C Size: L170*W44*H30(mm) Package size: L228*W155*H32(mm)	SWW dual CCT LED strip
 RGB set	M3+M4-5A	23-01-00-0046	Operating voltage: 3VDC (Battery CR2032) Operating frequency: 433.92MHz Remote control distance: 30m Operating temperature: -30°C 55°C	Input voltage: 12-24VDC Maximum loaded current: 6A*3CH Max 18A Maximum loaded power: 216W/432W (12V/24V) Operating temperature: -30°C 55°C Size: L170*W44*H30(mm) Package size: L228*W155*H32(mm)	RGB LED strip
 RGBW set	M4+M4-5A	23-01-00-0047	Operating voltage: 3VDC (Battery CR2032) Operating frequency: 433.92MHz Remote control distance: 30m Operating temperature: -30°C 55°C	Input voltage: 12-24VDC Maximum loaded current: 5A*4CH Max 20A Maximum loaded power: 240W/480W (12V/24V) Operating temperature: -30°C 55°C Size: L170*W44*H30(mm) Package size: L228*W155*H32(mm)	RGBW LED strip
 Independent digital controller	M16+SPI-16S	23-01-00-0041	(Parameters of remote controller) Operating voltage: 3VDC (Battery CR2032) Operating frequency: 2.4GHz Changing mode: 16 Operating temperature: -30°C 55°C	(Dimming constant-voltage acceptor) Input voltage: 5-24VDC Output: SPI WiFi: 2.4GHz Operating temperature: -30°C 55°C Product size: L135*W50*H20(mm) Package size: L132*W198*H22 (mm)	Professional for SPI digital LED strip

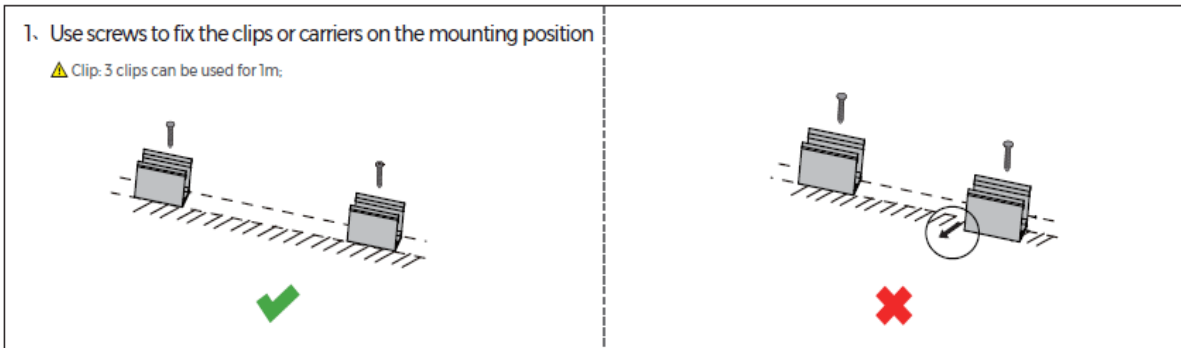
▼ Wiring Diagram:



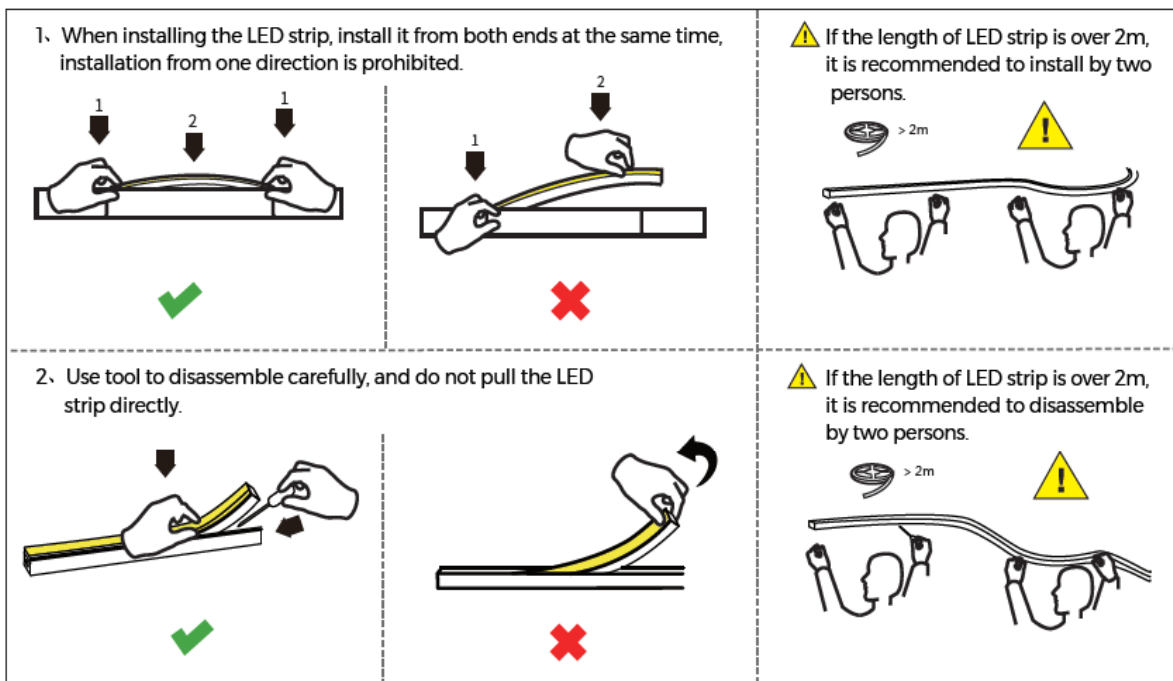
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▼ Installation Guidance:

Installation of clip



Installation of carrier



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▼ Precautions

- Use a 24V DC isolated power supply to drive the neon lamp strip and the ripple wave of constant voltage source shall be less than 5%. It is not allowed to use RC voltage reduction or non-isolated power supply to drive the neon lamp strip.
- In actual applications, 20% of the power supply shall be kept (only 80% of the power is used) to guarantee that sufficient voltage is available to drive the product.
- Attention shall be paid to safe operation. After powering on, it is not allowed to touch the AC power supply to avoid an electric shock.
- Attention shall be paid to the positive and negative poles of the wires during installation and whether the power supply conforms to required voltages to avoid damages.
- Avoid scratching, distortion and irregular bending of the product during installation; otherwise it may cause irreparable damage to the product.
- Please do not bend the strip into an arc with a diameter less than 60mm to ensure the longevity and reliability, the bending diameter too small will damage the product itself.
- If the actual length of application exceeds the specified using length, it will lead to overload heating and uneven brightness.
- To keep the eyes from being harmed, try to avoid staring at the glowing side of the LED strip for a long time.
- Non-professionals are prohibited from installing, disassembling and repairing the product.
- Do not use any acid or alkaline adhesive to fix products (including not limited to glass cement, etc.)
- Product is not suitable for use in swimming pools and fountains.
- Please confirmed before usage as products of varied sizes show slight differences in their color under same color temperature due to their structural differences.
- When IP68 protective products are installed and applied, the waterproofing grade should be degraded after self-processing and cutting.

Cutting method

