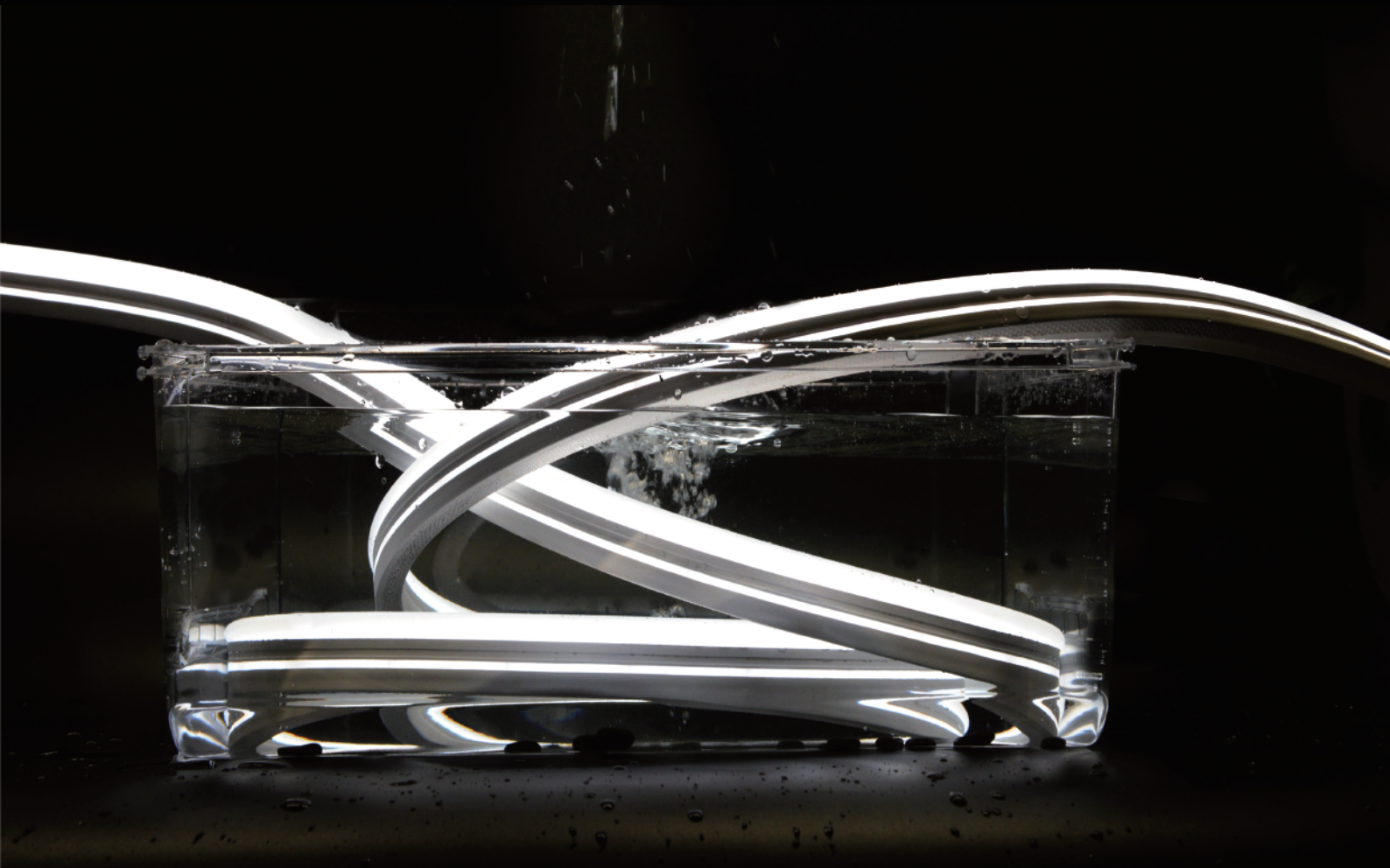
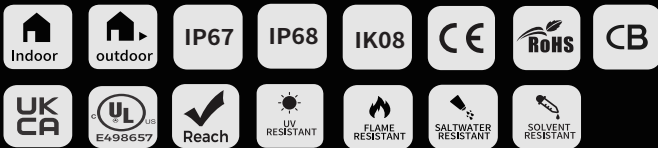


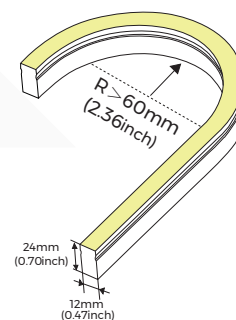
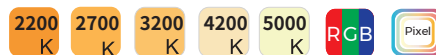
Neon Specification

NNS1224



【Features】

- Light source: High luminous efficiency, LM80 test proved.
- Process & Material: High light transmittance, food-grade environmental silicone material, integrated extrusion molding technology, IP68.
- 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, UCKA, CA.
- Environmental Features: Resistance to saline solutions, acids & alkali, corrosive gases and UV.
- Working/Storage Temperature: Ta:-20~55°C / 0°C~60°C.
- Application: Signage Lighting, Outdoor/indoor decorative lighting, Architectural Contour lighting, Waterproof lighting.
- White/RGB/DMX with 3 years warranty or working life =36000H, whichever comes first; SPI/DMX512 with warranty 2 years or working life=20000H, whichever comes first.



Note: The bending radius of Symphony is $R \geq 80\text{mm}$ (2.6inch)

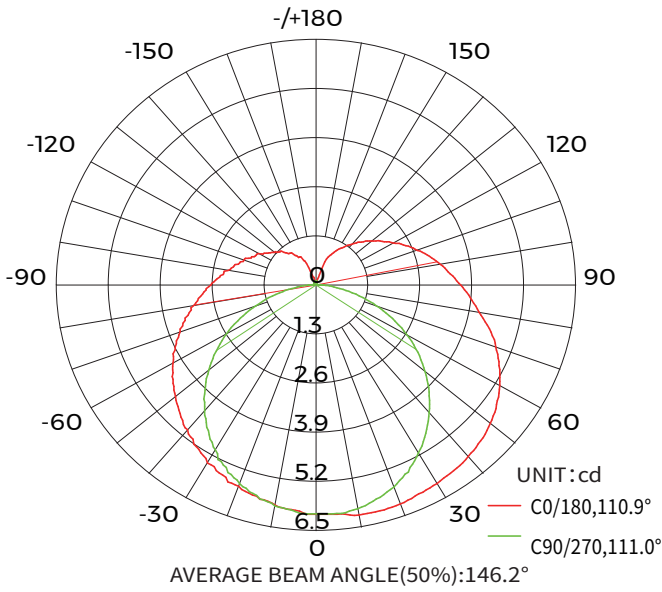
【Basic Parameters】

Model	CCT/colors	CRI	Input voltage (V)	Rated current (A/m)	Rated power (W/m)	MAX power (W/m)	Lumens (LM/m)	Length	Remark
NNS1224-8XX24CSS050XCXXXX	2200K	>80	24	0.4 (0.12A/ft)	9.6 (2.93W/ft)	10.6 (3.23W/ft)	510 (155LM/ft)	5000mm (16.4ft) 10000mm (32.81ft)	6LED/50mm
	2700K								
	3200K								
	4200K								
	5000K								
NNS1224-0RGB24CSS050XC0500	RGB	/		0.5 (0.15A/ft)	12 (3.66W/ft)	13.2 (4.02W/ft)	/	5000mm (16.4ft)	7LED/83mm
NNS1224-0RGBXWM24CDS025XC0500(DMX512)	RGB+2600K	/	24	0.63 (0.19A/ft)	15 (4.57W/ft)	17.25 (5.26W/ft)	300 (91LM/ft)	5000mm (16.4ft)	7LED/125mm (IC.UCSS12B4L)
	RGB+2800K								
	RGB+3800K								
	RGB+5500K								

Note:

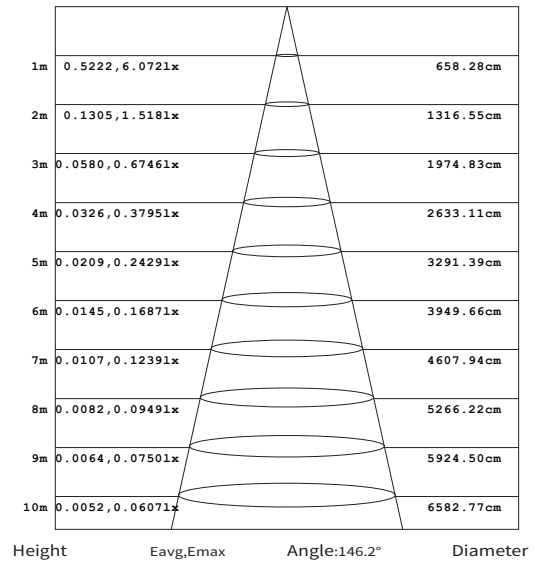
- 1, The above data is the testing result of 1M standard product;
- 2, The lumens of output data can be vary up to $\pm 10\%$;
- 3, The above parameters are all typical values.

[Light Distribution]



Light distribution

Flux out:199.5lm



Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

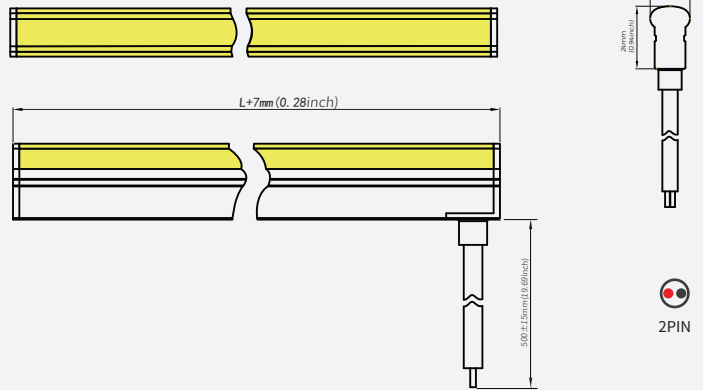
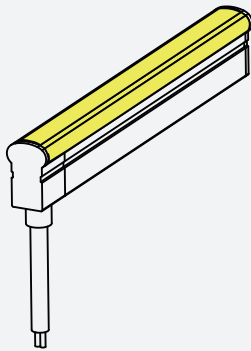
Effective average illuminance

Note: The above data is based on 24V monochrome 4000K color temperature. If you need other models of IES files, please download the corresponding models from the IES database.

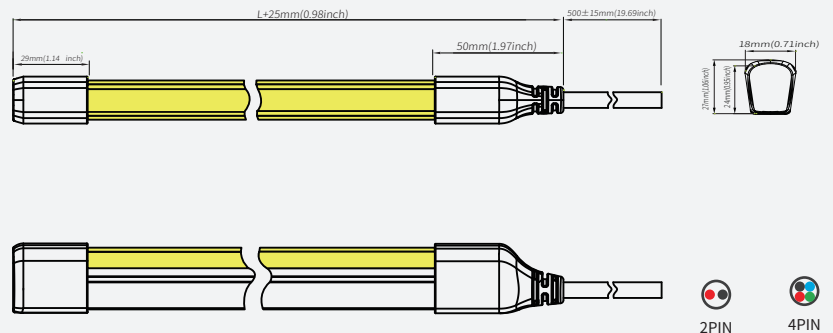
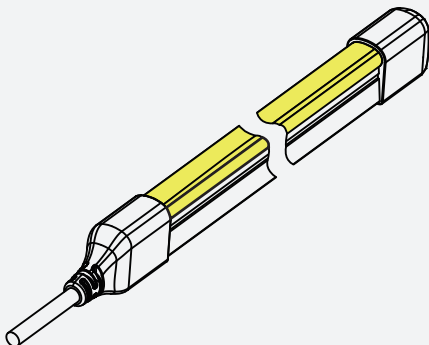
[Product Mechanical Parameters]

· IP68无暗区堵头(ENP)-底出线(适用于单色光)

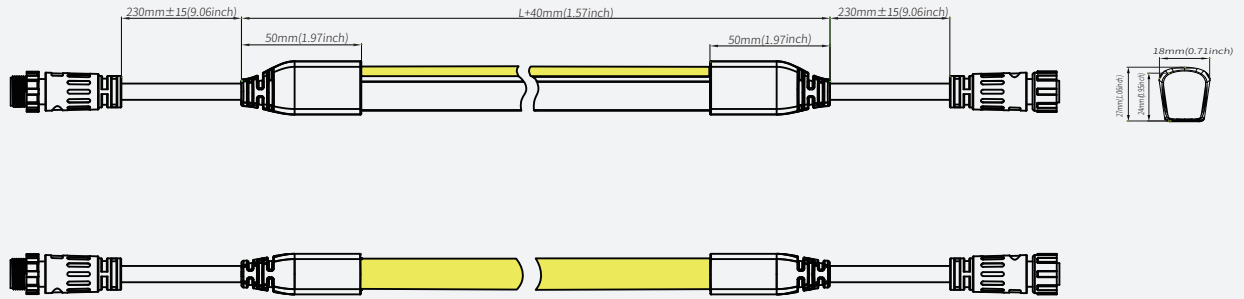
· IP68 No dark cap(ENP)-bottom outlet(suitable for monochromatic light)



· IP68 Full encapsulated cap(EP)-top outlet


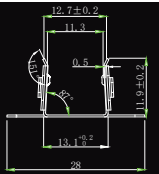

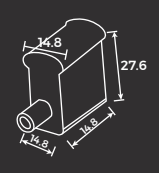

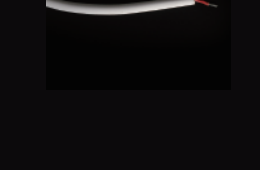



• IP67 Full cap(EP)- top outlet











[Accessory information]

name	describe	Accessories Picture	Section size	Order model	quantity/ case (PCS)	net weight (kg)	Per box net weight (kg)	Gross weight (kg)	Gross weight (mm)	Remark
Alumina carrier	Flat mounting aluminum groove			AS-NMS1217A-1000	60	0.1755	10.53	11.53	1180*125*115	size: L1000*W14.4*H24.85mm With screws
Aluminum clip	Flat mounting of clip			AS-NMS1217A-25	300	0.0044	2.01	2.16	250*250*150	size: L25*W14.4*H24.85mm With screws
Alumina carrier	Aluminum groove reserved outlet position			AS-NMS1217A1-1000	48	0.1755	8.424	9.5	1180*125*115	size:L1000*W14.4*H24.85mm With screws
Aluminum clip	Clip of reserved outlet position			AS-NMS1217A1-25	300	0.0044	2.01	2.16	250*250*150	size:L25*W14.4*H24.85mm With screws
Alumina carrier	Pre-installed aluminium groove			AS-NMS1217A2-1000	48	0.17	8.16	9.16	1180*125*115	size: L1000*W15.8*H21mm With screws, One meter with 5 clips
PC carrier	Flat mounting PC groove			AS-NMS1217P-1000	60	0.08	4.8	5.8	1180*125*115	size: L1000*W14.6*H19.35mm With screws
PC carrier	Flat mounting of PC clip			AS-NMS1217P-25	350	0.004	1.505	1.655	250*250*150	size:L25*W14.6*H19.35mm With screws

name	describe	Accessories Picture	Section size	Order model	quantity/ case (PCS)	net weight (kg)	Per box net weight (kg)	Gross weight (kg)	Gross weight (mm)	Remark
Moldable carrier	Moldable groovez			AS-NMS1217M-500	100	0.0377	3.77	6.49	500*290*290	size: L500*W13.1*H11.9mm With screws
End-Cap set	Silicon End-Cap Set (End Cap and Plus)			AS-NNS1224GH0 -EC	400	0.0035	1.4	1.7	250*250*150	/
Glue	588G acidic glue		/	AS-PG-0002	150	0.014	2.1	2.4	250*250*150	10ml/pcs
Wire	2P PVC wire (0.5M)		/	AS-WS-0001	150	0.01541	2.31	2.61	250*250*150	Suitable for single color strip
Wire	2P PVC wire (2M)		/	AS-WS-0002	125	0.0616	7.7	8	250*250*150	Suitable for single color strip
Wire	4P PVC wire (0.5M)		/	AS-WS-0003	150	0.0194	2.91	3.21	250*250*150	Suitable for RGB strip
Wire	4P PVC wire (2M)		/	AS-WS-0004	125	0.0776	9.7	10	250*250*150	
Connector	2PIN IP68 waterproof connector		/	AS-FC-0001	512	0.016	8.192	9.5	365*365*190	Suitable for single color strip
Connector	4PIN IP68 waterproof connector		/	AS-FC-0003	288	0.03	8.64	9.6	365*365*190	Suitable for RGB strip Suitable for RGBX strip

[Solution Of Control System]

Product Image	Product Name	Product number	Order code	Product specifications	Applicable Products
	Monochrome remote	CK1-GBA	402-02-000000-00001	output signal:RF(2.4GHz) Working voltage:3VDC(CR2032) Remote control distance:30m Working temperature:Ta:0-30 °C-0+55 °C	Monochrome light strip (Use with CR1-GBA)
	Monochrome light controller	CR1-GBA	402-01-000000-00001	Input voltage:12-48VDC Output current:15A@12/24V-10A@36/48V Output Power:180W@12V-360W@24V 360W@36V-480W@48V Working temperature:Ta:0-30 °C-0+55 °C	Monochrome light strip (Use with CK1-GBA)
	CCT remote control	CK2-GBA	402-02-000000-00002	output signal:RF(2.4GHz) Working voltage:3VDC(CR2032) Remote control distance:30m Working temperature:Ta:0-30 °C-0+55 °C	CCT light strip (Use with CR2-GBA)
	Color temperature controller	CR2-GBA	402-01-000000-00002	Input voltage:12-36VDC Output current:2CH,8A/CH Output Power:2x(96-288)W Working temperature:Ta:0-30 °C-0+55 °C	CCT light strip (Use with CK2-GBA)
	RGB/RGBW remote control	CK4-GBA	402-02-000000-00003	output signal:RF(2.4GHz) Working voltage:3VDC(CR2032) Remote control distance:30m Working temperature:Ta:0-30 °C-0+55 °C	RGB/RGBW light strip (Use with CR3-GBA)
	RGB controller	CR3-GBA	402-01-000000-00003	Input voltage:12-36VDC Output current:3CH,6A/CH Output Power:3 x (72-216)W Working temperature:Ta:0-30 °C-0+55 °C	RGB light strip (Use with CK4-GBA)
	RGBW controller	CR4-GBA	402-01-000000-00004	Input voltage:12-36VDC Output current:4CH,5A/CH Output Power:4 x (60-180)W Working temperature:Ta: -30 °C~ +55 °C	RGBW light strip (Use with CK4-GBA)
	Symphony Controller	K-8000C	23-01-00-0050	Power supply:DC5V-24V input Power consumption:5W Working temperature:Ta:0-20 °C-0+85 °C	DMX/SPI magic lights with universal

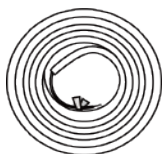
[Packaging Solutions]

• Standard Packaging

1. Line marking, the line marking is affixed at a distance of 80mm from the end of the line;



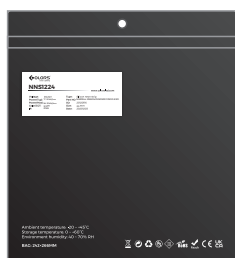
Voltage & bending warning signs



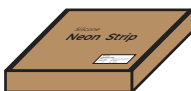
2. Put the product information label on the back back of the static bag inside the marking line;



Product Information Label



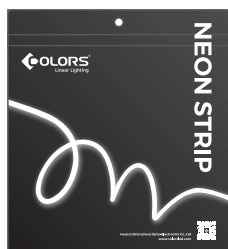
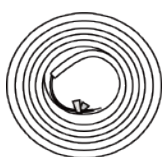
4. Label the carton and pack it into the carton



5. Pack 4 boxes of products in the carton



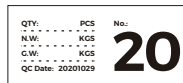
3. Put the light strip into an electrostatic bag, one roll per bag, and seal the bag;



6. Put the product information label and the box number label on the side of the carton, and the QC inspection stamp



Product Information Label



Box number label



Model	Size	Product Quantity (box)	Product Quantity (case)	Net weight (kg)	Net weight per box (kg)	Gross weight (kg)	Carton size(m)
NNS1224-8XX24NSN050CC0500	L5000*12*24mm	5M*4	20M	1.95	7.8	9.12	0.365*0.365*0.19
NNS1224-8XX24NSN050CC1000	L10000*12*24mm	10M*4	40M	3.65	14.6	16.8	0.41*0.41*0.26
NNS1224-ORGB24NSN050CC0500	L5000*12*24mm	5M*4	20M	1.95	7.8	9.12	0.365*0.365*0.19
NNS1224-ORGBXWM24CDS050XC0500(DMX512)	L5000*12*24mm	5M*4	20M	1.95	7.8	9.12	0.365*0.365*0.19

【Reliability test】

test item	Classification	Reference	Test method or condition
Safety test	Mechanical strength	IEC 60598-1; IEC 60598-2-21	The hammer spring Impact energy 0.7J
	IP	IEC 60598-1; IEC 60598-2-21	IP68
	Winding Test	IEC 60598-1; IEC 60598-2-21	φ150mm cylinder, 60N pull, winding 10 times at (-25°C ±2°C), and 10 times after(-15°C±2°C, 16h).
	Cold Bend Test	IEC 60598-1; IEC 60598-2-21	wound on mandrel, low-temperature (-15°C±2°C, 16h), around the mandrel for two turns
	Cold Impact test	IEC 60598-1; IEC 60598-2-21	Low-temperature (-15°C±5°C, 16h), hammer falls from a height of 100mm.
	Insulation Resistance	IEC 60598-1; IEC 60598-2-21	≤ 2MΩ
	Electrical strength	IEC 60598-1; IEC 60598-2-21	500V
Mechanical reliability testing	Bending test	Colors	Each 200mm, bending up and down 100 times
	Bending test	Colors	Each 200mm, bending left and right 100 times
	Torsion test	Colors	Twist clockwise 5 times and then release, repeat 200 times
	Disassembly and assembly test	Colors	Repeat disassembly and assembly, 10 times
Environment Reliability testing	High temperature storing test	IEC 60068-2-2	80°C, 168h
	Low temperature storing test	IEC 60068-2-1	-40°C, 168h
	High temperature and Humidity impact	IEC 60068-2-78	60°C, 85%RH
	Salt Spray test	IEC 60068-2-11	5% salt solution concentration, 24h
	IK	IEC 62262	5 times of impact on each exposed surface
	Lifetime aging test	Colors	35°C, 6000h
	switch test	Colors	10s On, 10s Off, 10000 times

【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.)
- 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.
- Please use professional cutting tools when cutting.

