

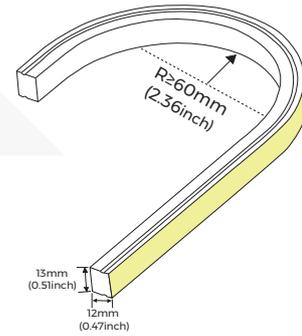
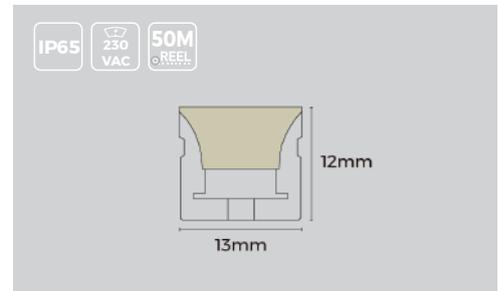
Neon Specification

ACT1312



【Features】

- Process & Material: three-color silicone extrusion technique is applied, Cutting mark more clear; integrated extrusion molding technology, IP65.
- Optical Design: Unique optical light distribution structure design, uniform lighting surface and no shadow.
- Appearance Design: Standard ESD oil spray, anti-dust; 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.
- Environmental Features: Resistance to saline solutions, acids & alkali, corrosive gases and UV.
- Working/Storage Temperature: Ta: -20°C~50°C / 0°C~60°C;
- White with 5 years warranty or working life $\geq 60000\text{H}$, whichever comes first.
- It is recommended to use in combination with lightning protection module and flicker-free power supply. (Strongly recommended to equip with lightning protection module.)



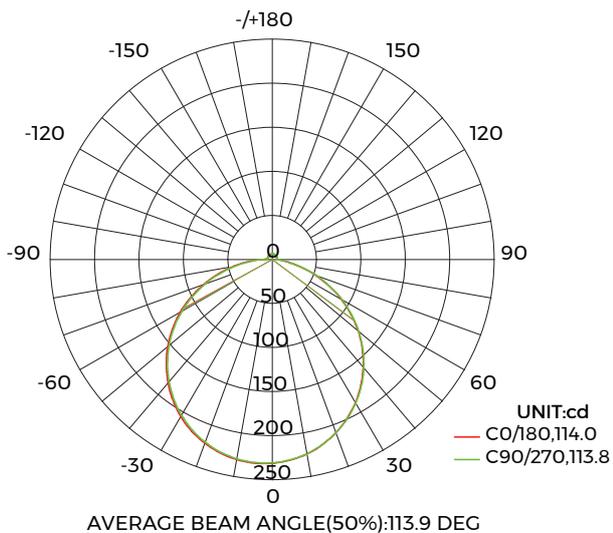
【Basic Parameters】

Model	CCT/colors	CRI	Input voltage (V)	Rated current (A/m)	Rated power (W/m)	MAX power (W/m)	Lumens (LM/m)	Length	Remark
ACTI312-8XX230CSN050XCXXX-ESD	2700K	≥ 80	230VAC	0.044 (0.013A/ft)	10 (3.05W/ft)	12 (3.65W/ft)	600 (783LM/ft)	50000mm (164ft)	168LED/500mm
	3000K						650 (198LM/ft)		
	4000K						700 (213LM/ft)		
	6500K						700 (213LM/ft)		
ACTI312-0X230CSN050XCXXX-ESD	G	0	230VAC	0.048 (0.015A/ft)	10 (3.05W/ft)	12 (3.65W/ft)	75 (22LM/ft)	50000mm (164ft)	168LED/500mm
	B						110 (33LM/ft)		
ACTI312-0RGB230CSN050XCXXX-ESD	RGB						164 (50LM/ft)		

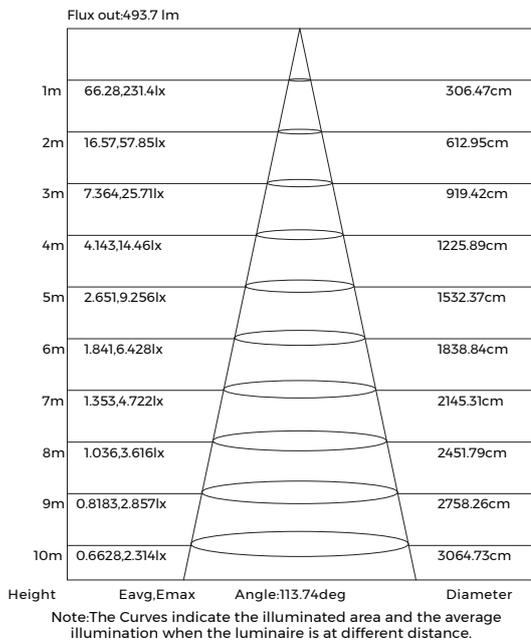
Note:

- 1、The above data is the testing result of 1M standard product;
- 2、The lumens of output data can be vary up to $\pm 15\%$;
- 3、The above parameters are all typical values.
- 4、The range of operating voltage is AC220V-240V.

【Light Distribution】



Light distribution

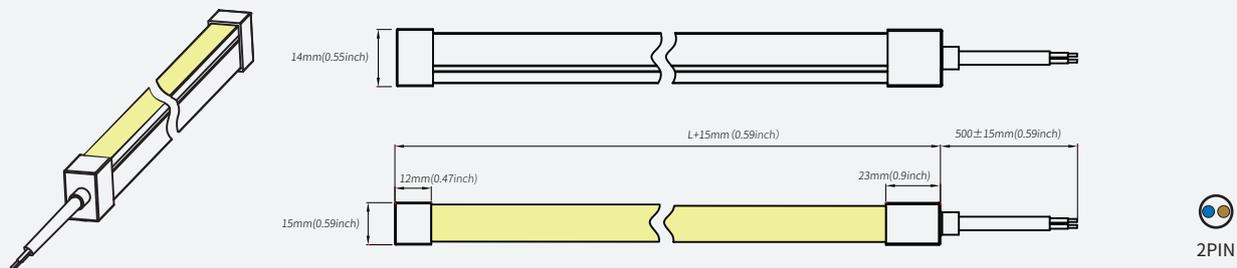


Effective average illuminance

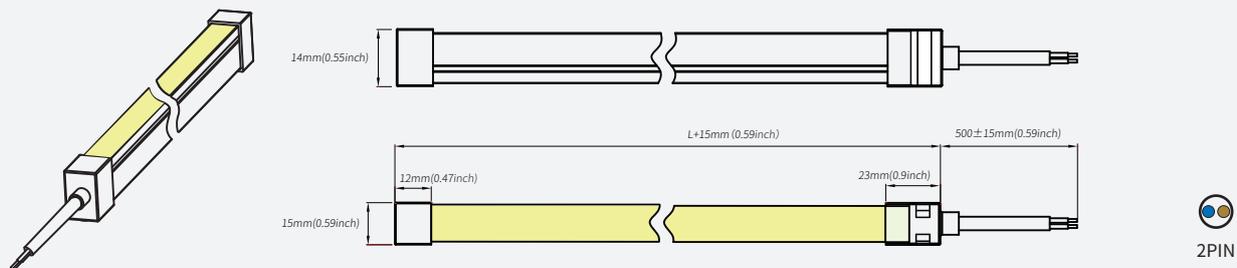
Note: The above data is based on 230V monochrome 4000K color temperature. If you need other models of IES files, please download the corresponding models from the IES database.

【Product Mechanical Parameters】

• IP65 Glued cap-top outlet

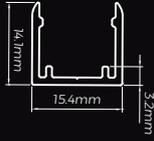
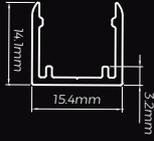
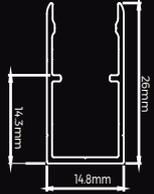
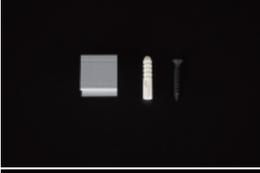
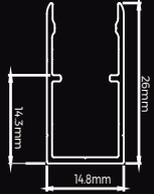
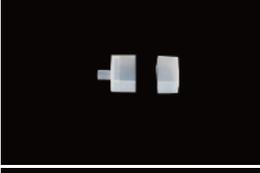
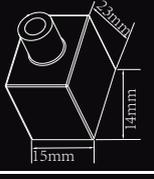


• IP65 Soldering-Free cap-top outlet



* Only white light and single color light

[Accessory information]

name	describe	Accessories Picture	Section size	Order model	quantity/ case	net weight (kg)	Per box net weight (kg)	Gross weight (kg)	Gross weight (mm)	Remark
Aluminium carrier	Flat mounting aluminum groove			AS-NMT1312A-1000	60	0.1453	8.8	9.9	1180*125*115	Size:L1000*W15.4* H14.1mm, with screw
Aluminium clip	Flat mounting clip			AS-NMT1312A-25	450	0.0058	2.61	2.91	250*250*150	Size:L25*W15.4* H14.1mm, with screw
Aluminium carrier	Aluminum groove of reserved outlet position			AS-NMT1312B1-1000	64	0.1513	9.1	10.2	1180*125*115	Size:L1000*W14.8* H26mm, with screw
Aluminium clip	clip with reserved outlet position			AS-NMT1312B1-25	300	0.0061	2.745	3.045	250*250*150	Size:L25*W14.8* H26mm, with screw
End cap set	End cap set, including end cap and plug (outlet from the top direction)			AS-NMT1312GH0-EC	400 (200sets)	0.0035	1.4	1.7	250*250*150	size: L26*W14*H19mm 25Sets/bag
Glue	KDS-3811 glue		/	AS-PG-0005	20	0.11	2.2	2.7	250*250*150	20PCS/box suitable for the welding plug
Wire	2P Rubber Plug cord (1.5M)		/	AS-CX-0001	20	0.1	2	2.3	250*250*150	Suitable for single color strip
Low-voltage Surge Protective Device	Lightning Protection up to 2000V		/	AS-FL-0001	24	0.05	1.2	3.9	365*365*190	Suitable for single color strip
Non-welded plug	2P Rubber wire (1.5M)		/	AS-ACT1312HT0-FL	20	0.16	2.4	4.3	250*250*150	Suitable for single color strip

Note:

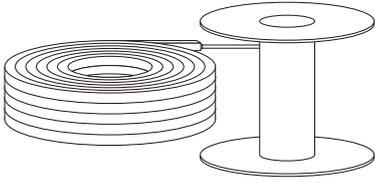
* In cases where no lightning protection measures are taken, it is strongly recommended to install a lightning protection module. The company shall not be liable for any damage to the product caused by lightning strikes if a lightning protection module is not used.

* When purchasing plugs, please purchase the glue as well.

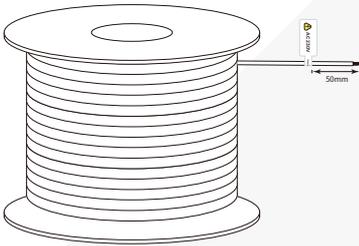
[Packaging Solutions]

• Standard Packaging

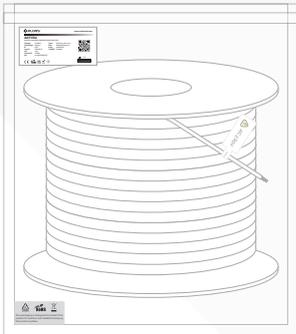
1. Wrap the product around a plastic reel.



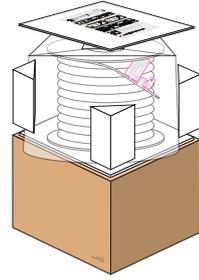
2. Attach corresponding labels to the wire ends of the neon light strip.



3. Place it into a vacuum bone strip bag, and affix a product information label on the seal. Attach a yellowing instruction label to the bag.



4. Insert the instruction manual and the product into a cardboard box.



5. Apply COLORS labels, box number/quantity, and net/gross weight labels to the outer box.



6. Seal the box and add packaging straps.



* The above label parameters shall be subject to the actual situation.

Model	Size	Product Quantity (box)	Product Quantity (case)	Net weight (kg)	Net weight per box (kg)	Gross weight (kg)	Carton size(m)
ACT1312-XXX230CSN050XCXXX-ESD	L50000x13x12mm	50M*1	50M	8.6	8.6	10.2	0.35*0.35*0.335

[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	IP65
	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]

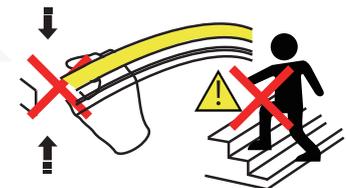
- In cases where no lightning protection measures are taken, it is strongly recommended to install a lightning protection module. The company shall not be liable for any damage to the product caused by lightning strikes if a lightning protection module is not used.
- Use a 230V AC isolated power supply 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.
- 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.
- 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.
- Please use professional cutting tools when cutting.
- Not suitable for immersion in an environment containing HClO.
- Due to the characteristics of the silicone material, it is normal for the color of the colloid to change slightly after the neon product is used for a long time
- It is strictly forbidden to use 502/705 and other adhesives that are prone to chemical reactions with silica gel during construction and installation. It is recommended to use silicone sealant for bonding
- Long-term storage and the remaining products after cutting and use must be sealed to avoid exposure to organic environments such as aldehydes/benzenes
- When the product is installed and used, it is recommended that the product as a whole be in the same environmental conditions to avoid inconsistent color changes of the product colloid due to differences in product exposure and environmental conditions
- After using the solder-free splice, when used outdoors, the splice must be shielded and must not be directly exposed to rain or water immersion.
- Due to the characteristics of silicone rubber material, it is normal for the color of the neon product's colloid to change slightly after prolonged use.



No stretching



No distortion



No trampling