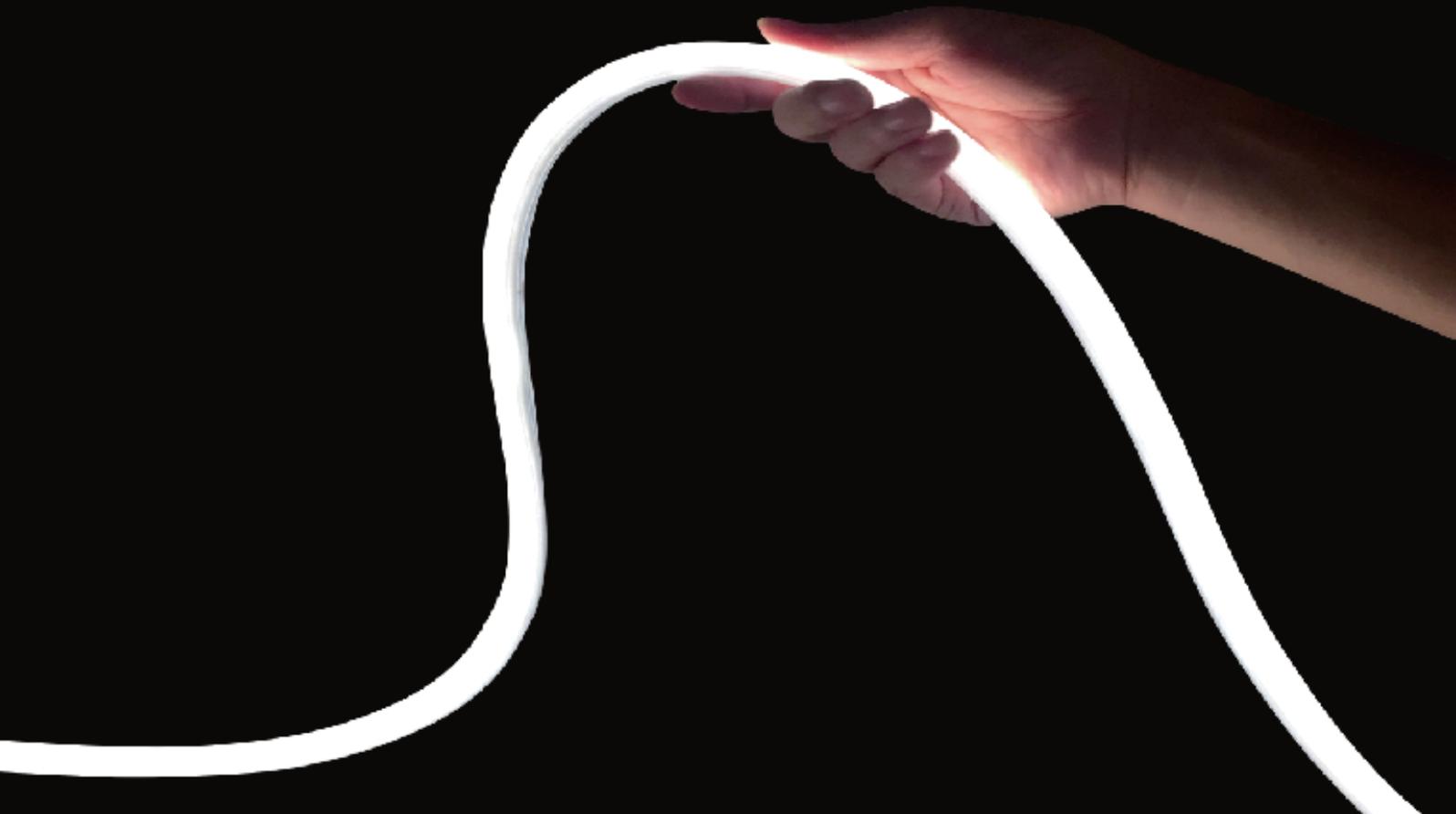


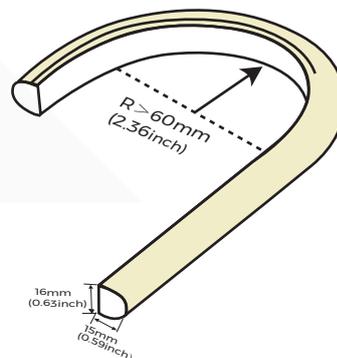
## AH Series Specification

# AHT1615



## 【Features】

- Light source: high luminous efficiency lamp beads;
- Process&Material: three-color silicone extrusion technique is applied, Cut as your wish.
- 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: -25~50°C / 0°C~60°C.
- Application: Furniture supporting lighting, Outdoor/indoor lighting, Indoor general lighting
- 7 years warranty or working life = 84000H, whichever comes first.



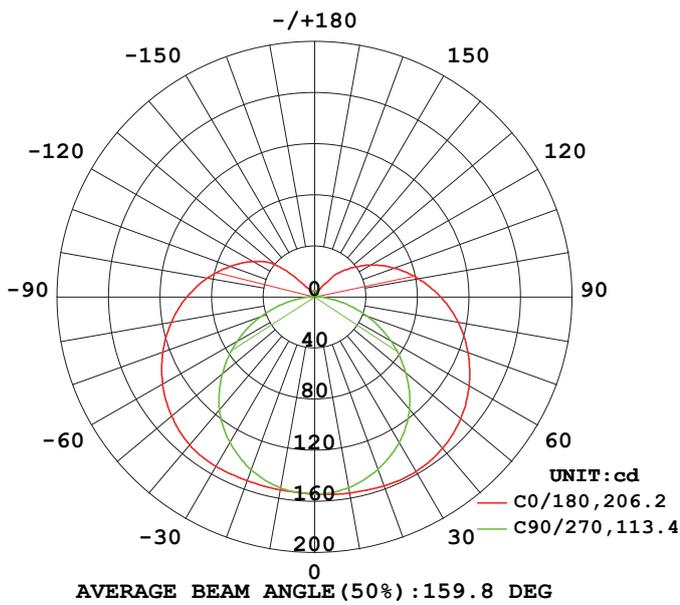
## 【Basic Parameters】

Model	CCT/colors	Color range	CRI	Input voltage (V)	Rated current (A/m)	Rated power (w/m)	Maximum power (w/m)	Lumens (LM/m)	Standard Length	Remark
AHT1615- 9XX24 CSW025CCXXX -GV10-ENP-ESD	2200K	2166-2310K	>90	24V	0.4 (0.12A/ft)	10 (3.05W/ft)	11 (3.35W/ft)	780(238/ft)	10000mm (32.81ft)	1LED/6.25mm
	2700K	2630-2830K						940(287/ft)		
	3000K	2920-3170K						990(302/ft)		
	4000K	3770-4220K						980(299/ft)		
AHT1615- 9XX48 CSW025CCXXX -GV10-ENP-ESD	2200K	2166-2310K	>90	48V	0.2 (0.06A/ft)	10 (3.05W/ft)	11 (3.35W/ft)	860(262/ft)	20000mm (65.62ft)	2LED/12.5mm
	2700K	2630-2830K						1025(313/ft)		
	3000K	2920-3170K						1095(334/ft)		
	4000K	3770-4220K						1135(346/ft)		

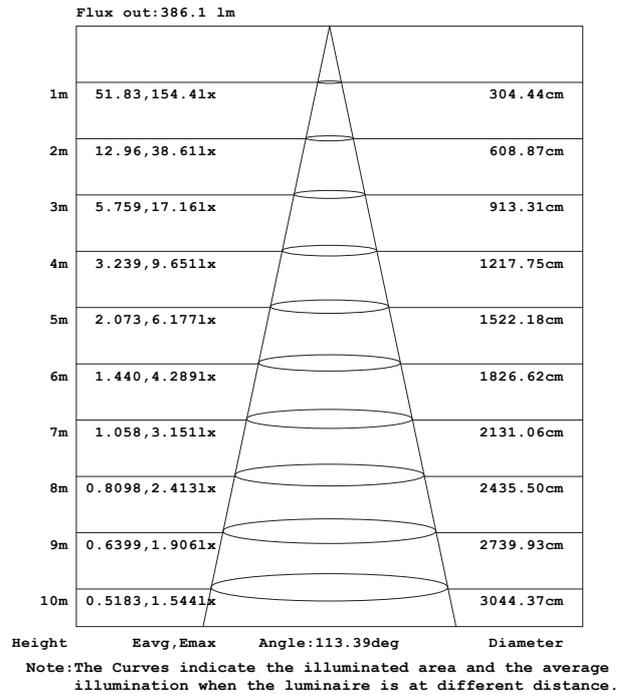
Note:

- 1、The above data is the testing result of 1M standard product;
- 2、The luminous flux is allowed to have an error range of  $\pm 15\%$ ;
- 3、The above parameters are all typical values.

## 【Light Distribution】



Light distribution

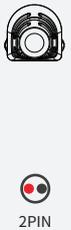
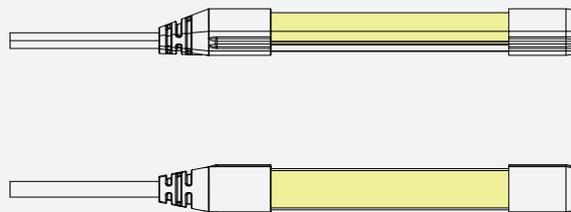
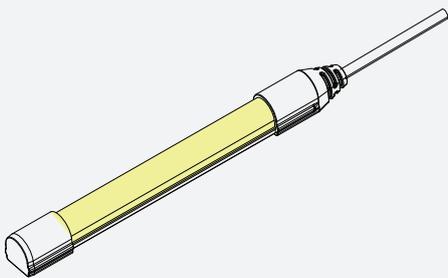


Effective average illuminance

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.

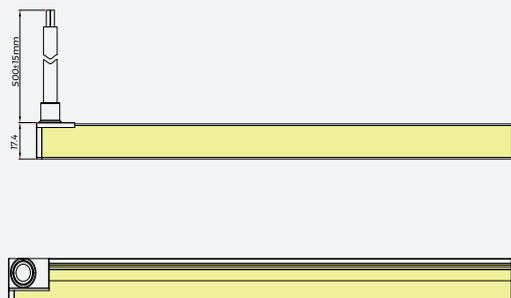
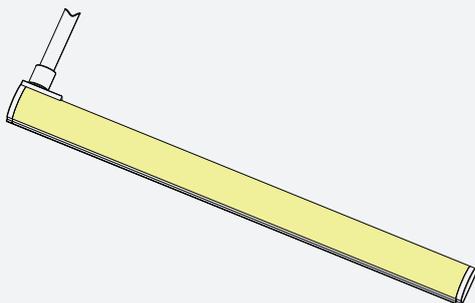
## 【Product Mechanical Parameters】

• IP67 Full encapsulated cap(EP)-top outlet



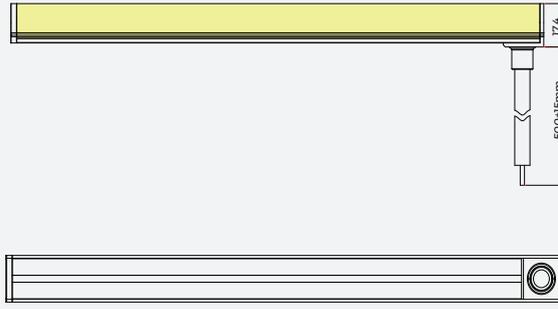
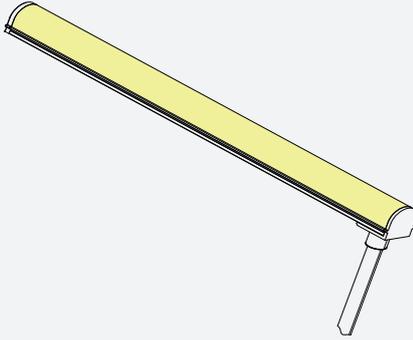
2PIN

• IP67 No dark cap(ENP)- side outlet (white light)



2PIN

• IP67 No dark cap(ENP)- bottom outlet



## [Accessory Information]

Name	Description	Image	Sectional size	Ordering code	Quantity case (PCS)	net weight (kg)	Per box net weight (kg)	Gross weight (kg)	Packing (mm)	Remark
Alumina carrier	Flat mounting aluminum groove			AS-NNT1615A-1000	100	0.098	9.8	10.8	1180*125*115	Size: L1000*W17.8*H7.9mm with screws
Aluminum clip	Flat mounting of clip			AS-NNT1615A-25	800	0.0047	3.76	4.06	250*250*150	Size: L25*W17.8*H7.9mm with screws
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 light strip
Wire	2P PVC Wire (2M)			AS-WS-0002	125	0.0616	7.7	8		

## [Accessory Information]

Name	Description	Image	Sectional size	Ordering code	Quantity case (PCS)	net weight (kg)	Per box net weight (kg)	Gross weight (kg)	Packing (mm)	Remark
Connector	2PIN IP68 waterproof connector		/	AS-FC-0001	512	0.016	8.192	9.5	365*365*190	Suitable for single light strip
wire	2P T-Connection Wire		/	AS-FC-0027	20	0.07	1.4	1.7	250*250*150	suitable for monochromatic led strip Wire length 150mm
wire	2P DC wire (Female)		/	AS-FC-0012 (0.25M) AS-FC-0013 (0.5M) AS-FC-0014 (2M)	200 200 50	0.0215 0.0329 0.1031	4.3 6.6 5.2	4.6 6.9 5.5	250*250*150	suitable for monochromatic led strip Wire lengths are optional: 0.25M/0.5M/2M

## [Product control system solutions]

Product Image	product name	Product number	Product specifications	Applicable Products
	Monochrome remote	R6-1	output signal: RF Working voltage: 3VDC(CR2032) Remote control distance: 30m Working temperature: Ta: 0-30 °C-0+55 °C	Monochrome light strip (Use with CR1-GBA)
	Monotone light controller	CR1-GBA	Input voltage: DC12-48V Output current: 15A@12V/24V, 10A@36V/48V Output Power: Max 180W@12V/Max 360W@24V/Max 360W@36V/Max 480W@48V Working temperature: -30°C— +55°C	Monochrome light strip (Use with CK1-GBA)

# [Packaging Solutions]

## • Standard Packaging

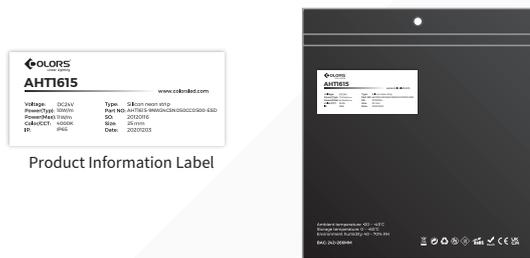
1. Line marking, the line marking is affixed at a distance of 80mm from the end of the line;



4. Label the carton and pack it into the carton



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



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



Model	Product size	Product Quantity/ box	Product Quantity/ case	Product net weight (kg)	Net weight per box (kg)	Gross weight (kg)	Carton size (m)
AHT1615-9XX24CSW050CCXXX -GV10-ENP-ESD	L10000*16*15mm	10M*1	40M	1.9	7.6	9.24	0.41*0.41*0.26
AHT1615-9XX48CSW050CCXXX -GV10-ENP-ESD	L20000*16*15mm	20M*1	20M	3.8	3.8	6.6	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 0.35J
	IP	IEC 60598-1; IEC 60598-2-21	IP67
	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 30mm 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.)

· Products with different IP grade should be used in different environments, the product with IP65 is not suitable for use in water-immersed environment .

· The final color of products with different sizes and specifications is slightly deviated due to structural differences under the same color temperature, which should be confirmed before use.

· Please use professional cutting tools when cutting.

· Attention, there are 2 soldering parts per reel (5m/reel) at most when mass production.

· 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.

· When using dimmer and dimming power supplies like Triac, etc, conduct compatibility tests on the product, dimmers and power supplies to ensure full compatibility. If any issues arise, contact COLORS for technical support.



No stretching



No distortion



No trampling