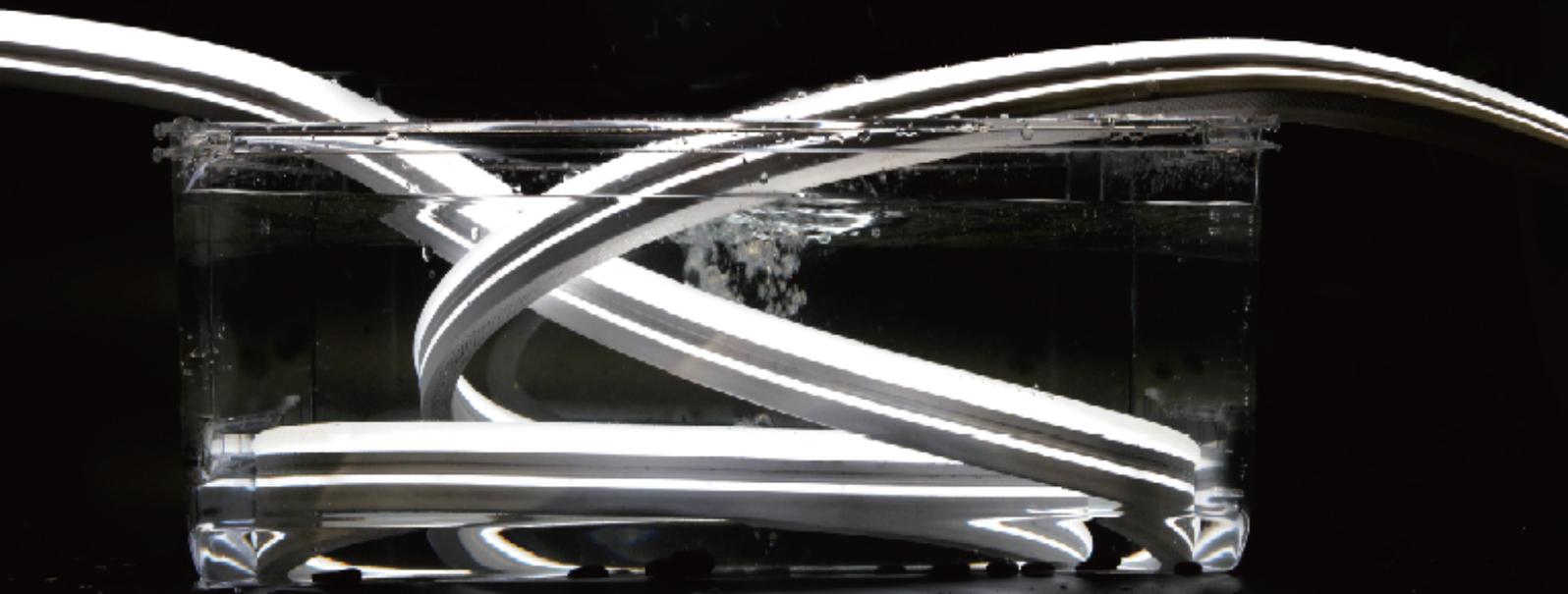


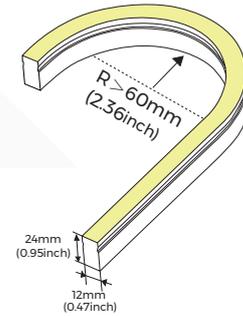
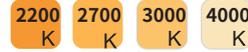
Neon Specification

AHS1224



【Features】

- Light source: high temperature resistant LED beads, LM80 test certification;
- Process & Material: three-color silicone extrusion technique is applied, Cut as you wish; integrated extrusion molding technology, IP67.
- 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, high temperature and high humidity;
- Working/Storage Temperature: Ta: -25~50°C / 0°C~60°C;
- Application: Signage Lighting, Outdoor/indoor decorative lighting, Architectural Contour lighting.
- 7 years warranty, working life \geq 84000H



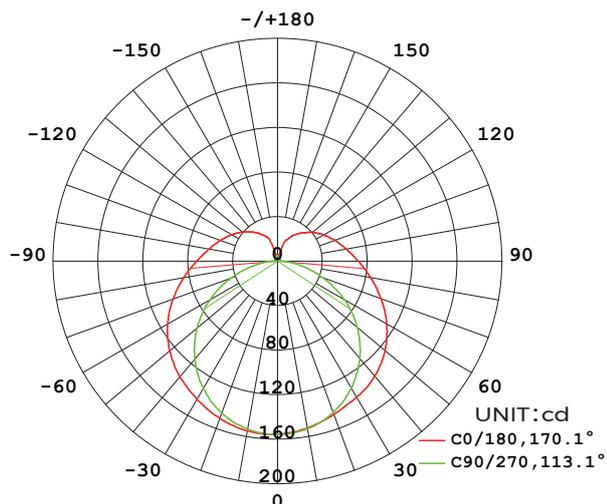
【Basic Parameters】

Model	CCT/colors	Colors range	CRI	Input voltage (V)	Rated current (A/m)	Rated power (W/m)	MAX power (W/m)	Lumens (LM/m)	Length	Remark
AHS1224 -9XX24CSW025CCXXX-GV10	2200K	2166-2310K	>90	24	0.4 (0.12A/ft)	10 (3.05W/ft)	11 (3.35W/ft)	640 (195LM/ft)	10000mm (32.81ft)	1LED/6.25mm
	2700K	2630-2830K						780 (238LM/ft)		
	3000K	2920-3170K						820 (250LM/ft)		
	4000K	3770-4220K						850 (259LM/ft)		
AHS1224 -9XX48CSW025CCXXX-GV10	2200K	2166-2310K	>90	48	0.2 (0.06A/ft)	10 (3.05W/ft)	11 (3.35W/ft)	695 (212LM/ft)	20000mm (65.62ft)	2LED/12.5mm
	2700K	2630-2830K						845 (258LM/ft)		
	3000K	2920-3170K						890 (271LM/ft)		
	4000K	3770-4220K						940 (287LM/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.

[Light Distribution]



AVERAGE BEAM ANGLE(50%):141.6°

Light distribution

Flux out:478.3lm

1m	18.05,155.81lx	574.32cm
2m	4.512,38.951lx	1148.64cm
3m	2.006,17.311lx	1722.97cm
4m	1.128,9.7391lx	2297.29cm
5m	0.7220,6.2331lx	2871.61cm
6m	0.5014,4.3281lx	3445.93cm
7m	0.3684,3.1801lx	4020.25cm
8m	0.2820,2.4351lx	4594.57cm
9m	0.2228,1.9241lx	5168.90cm
10m	0.1805,1.5581lx	5743.22cm

Height Eavg,Emax Angle:141.6deg Diameter

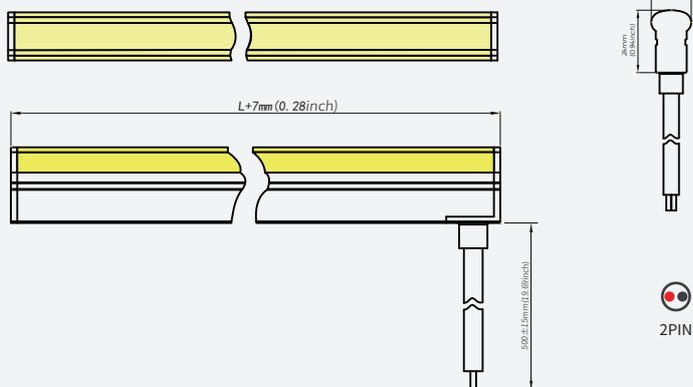
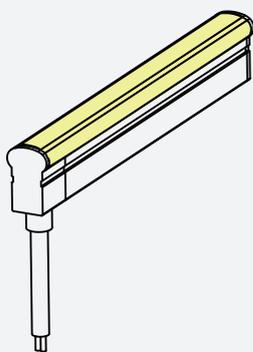
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

Effective average illuminance

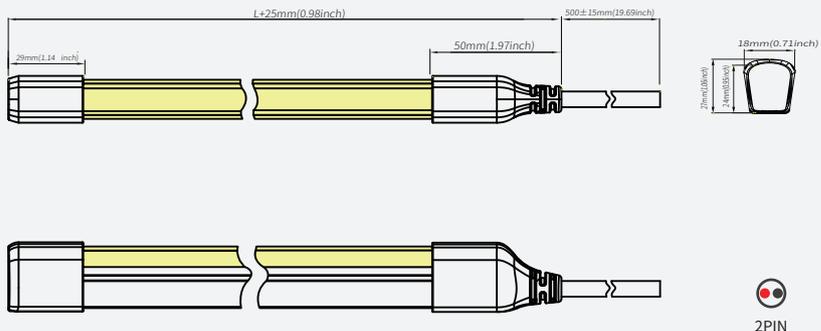
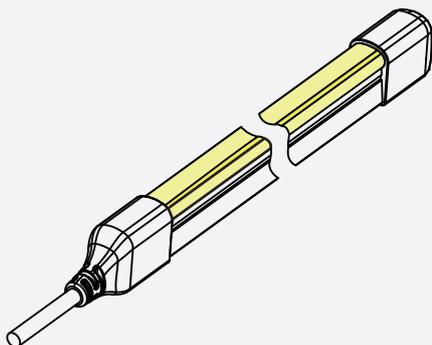
Note: The above data is based on 24V monochrome 4000K color temperature. If you need other models of IES files, please download the corresponding models from the IES database.

[Product Mechanical Parameters]

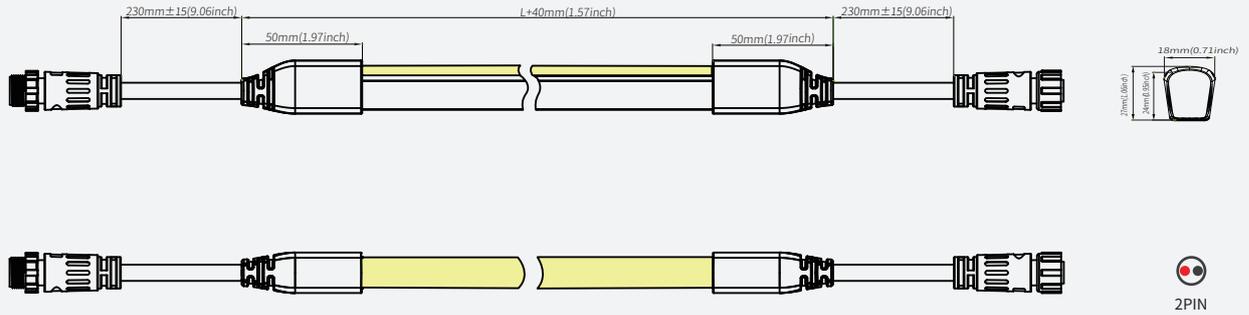
· IP67 No dark cap(ENP)-bottom outlet(white light)



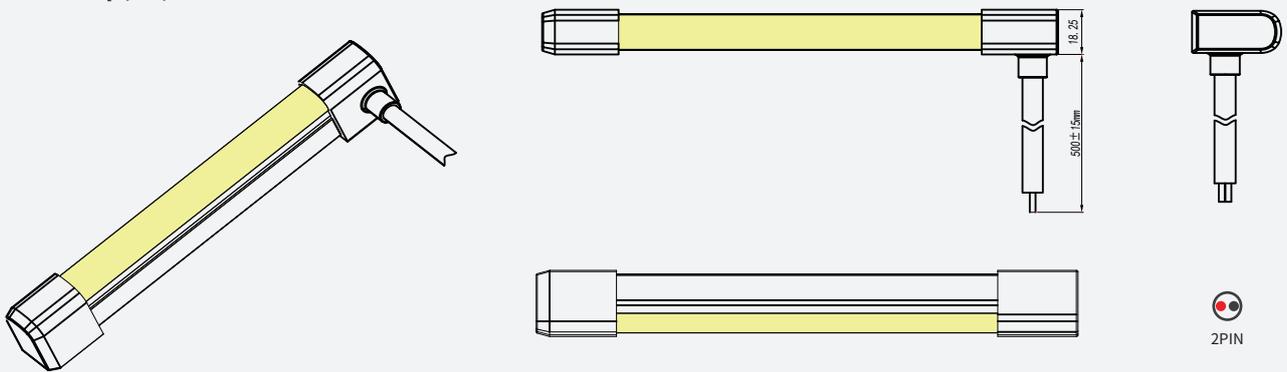
· IP67 Full encapsulated cap(EP)-top outlet



· IP67 Full cap(EP)- top outlet



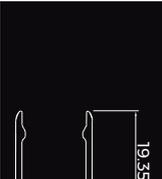
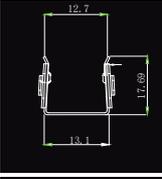
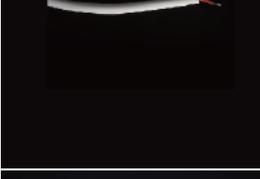
· IP67 Full cap(EP)- side outlet



[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*H18.85mm 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*H18.85mm 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

[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
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
Moldable carrier	Moldable groovez			AS-NMS1217M1-500	100	0.0377	3.77	6.49	500*290*290	size: L509*W13.1*H17.69mm With screws Cannot be used upside down
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
Connector	2PIN IP68 waterproof connector		/	AS-FC-0001	512	0.016	8.192	9.5	365*365*190	Suitable for single color 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

Note: AS-NMS1217M1-500 cannot be installed with the lighted side down, if you need to install it downward, we recommend using AS-NMS1217A-1000

[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 CRI-GBA)
	Monochrome light controller	CRI-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 CKI-GBA)

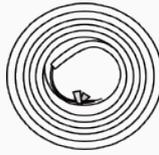
[Packaging Solutions]

• 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



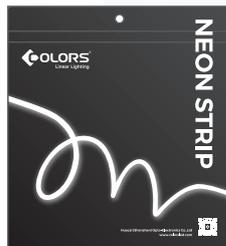
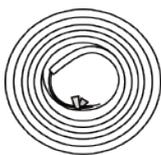
2. Put the product information label on the back back of the static bag inside the marking line;



Product Information Label



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



4. Label the carton and pack it into the carton



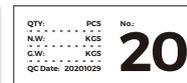
5. Pack 4 boxes of products in the carton



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)
AHS1224-9XX24CSW025CC1000	L10000*12*24mm	10M*4	40M	3.65	14.6	16.8	0.41*0.41*0.26
AHS1224-9XX48CSW025CC2000	L20000*12*24mm	20M*1	20M	7.3	7.3	9.86	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	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 or 48V 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.
- Attention, there are 2 soldering parts per reel (5m/reel) at most when mass production.
- 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
- 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.

