

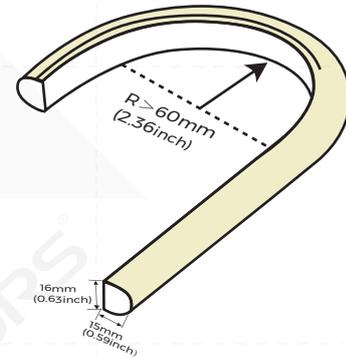
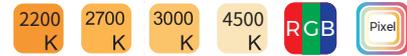
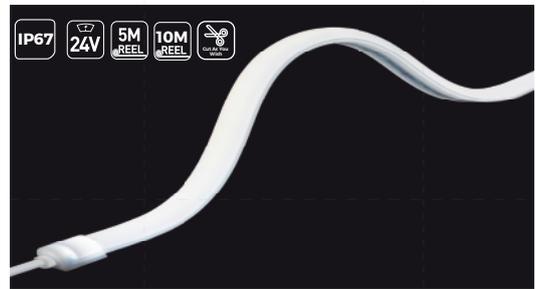
Neon Specification

NNT1615



【Features】

- Light source: high luminous efficiency lamp beads, LM80 test certification;
- Process&Material: three-color silicone extrusion technique is applied, Cutting mark more clear.
- 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.
- DMX chip model and pixel count: white light/RGB: UCS512B3L, 12Pixels/m.
- Product Certification: UL, CE, ROHS, UKCA, CB.
- Environmental Features: Resistance to saline solutions, acids & alkali, corrosive gases and UV.
- Working/Storage Temperature: Ta: -25~55°C / 0°C~60°C.
- Application: Furniture supporting lighting, Outdoor/indoor lighting, Indoor general lighting
- 3 years warranty or working life = 36000H, DMX512 with warranty 2 years or working life = 20000H, whichever comes first.



Note: White/RGB light bending radius $R \geq 60\text{mm}$ (2.36inch), SPI/DMX bending radius $R \geq 80\text{mm}$ (2.6inch)

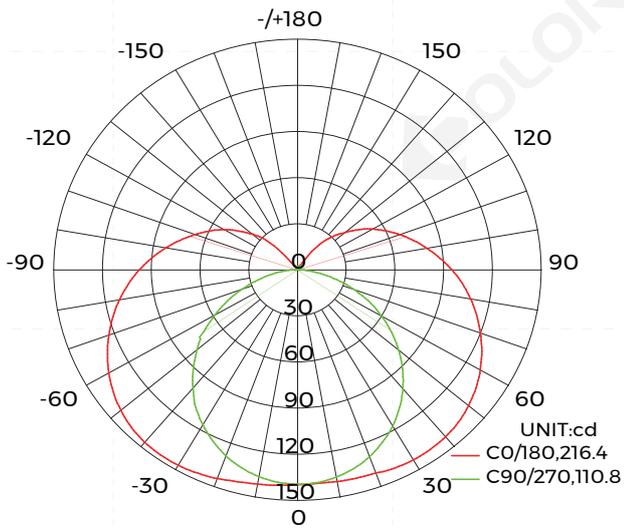
【Basic Parameters】

Model	CCT/colors	CRI	Input voltage (V)	Rated current (A/m)	Rated power (w/m)	Maximum power (w/m)	Lumens (LM/m)	Standard Length	Remark
NNT1615-9XX24CSN050CC1000	2200K	>90	24V	0.4 (0.12A/ft)	9.6 (2.93W/ft)	10.6 (3.23W/ft)	680(207/ft)	10000mm (32.8ft)	7LED/50mm
	2700K						780(237/ft)		
	3000K						820(250/ft)		
	4500K						810(246/ft)		
NNT1615-ORGB24CSN050CC0500	RGB	/		0.5 (0.15A/ft)	12 (3.66W/ft)	13.2 (4.02W/ft)	/		6LED/50mm
NNT1615-8XXM24CSN050CC0500 (DMX512)	2200K	>80	24V	0.75 (0.23A/ft)	18 (5.48W/ft)	20.7 (6.31W/ft)	1010(307/ft)	5000mm (16.4ft)	7LED/83.3mm (IC:UCS512B3L) 12Pixels/m
	3000K						1350(411/ft)		
	3500K						1280(390/ft)		
	4500K						1210(368/ft)		
NNT1615-ORGBM24CSN050CC0500 (DMX512)	RGB	/					/		

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】



AVERAGE BEAM ANGLE(50%):163.6 DEG

Light distribution

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.

Flux out:569.6 lm

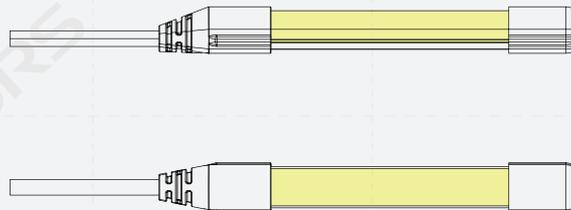
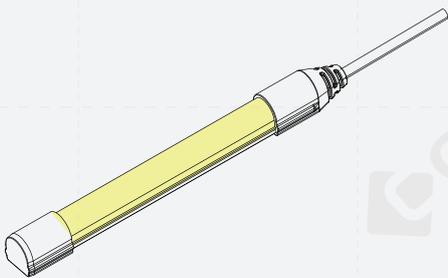
Height	Eavg,Emax	Angle:163.30deg	Diameter
1m	3.581,139.8lx		1362.62cm
2m	0.8953,34.96lx		2725.25cm
3m	0.3979,15.54lx		4087.87cm
4m	0.2238,8.739lx		5450.50cm
5m	0.1433,5.593lx		6813.12cm
6m	0.0995,3.884lx		8175.75cm
7m	0.0731,2.854lx		9538.37cm
8m	0.0560,2.185lx		10901.00cm
9m	0.0442,1.726lx		12263.62cm
10m	0.0358,1.398lx		13626.25cm

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

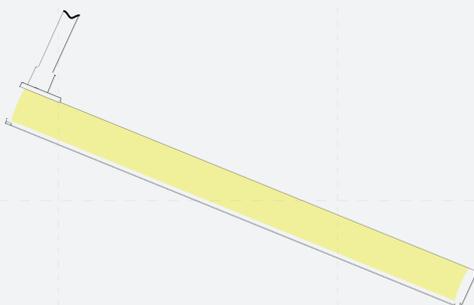
Effective average illuminance

【Product Mechanical Parameters】

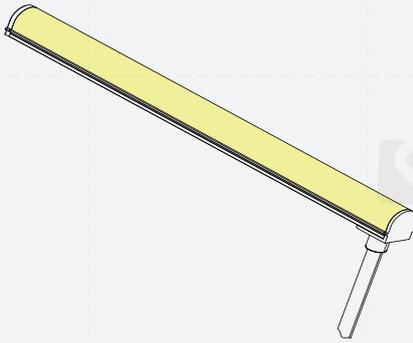
• IP67 Full encapsulated cap(EP)-top outlet



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



• IP67 No dark cap(ENP)- bottom outlet



2PIN

4PIN

[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		
Wire	4P PVC Wire (0.5M)		/	AS-WS-0003	150	0.0194	2.91	3.21	250*250*150	Suitable for RGB light strip
Wire	4P PVC Wire (2M)			AS-WS-0004	125	0.0776	9.7	10		

[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
Connector	4PIN IP68 waterproof connector			AS-FC-0003	288	0.03	8.64	9.6		Suitable for RGB light strip
wire	4P T-type PVC wire (0.15M*2)		/	AS-FC-0004	20	0.075	1.5	1.95	250*250*150	Suitable for SPI&DMX512 lamp with cascade connection,IP67
wire	4P female connector wire (0.25M)		/	AS-FC-0005	50	0.025	1.25	1.7	250*250*150	Suitable for SPI&DMX512 lamp with cascade connection,IP67

[Product control system solutions]

Product Image	product name	Product number	Order code	Product specifications	Applicable Products
	Monochrome remote	CK1-GBA	402-02-000000-00001	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	402-01-000000-00001	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)
	RGB/RGBW remote control	CK4-GBA	402-02-000000-00003	output signal: RF 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/CR4-GBA)
	RGB controller	CR3-GBA	402-01-000000-00003	Input voltage: DC12-48V Output current: 18A Output Power: Max 216W@12V/Max 432W@24V/Max 648W@36V/Max 864W@48V Working temperature: -30°C— +55°C	RGB light strip (Use with CK4-GBA)
	Symphony Controller	K-8000C	23-01-00-0050	Power supply: DC 5V-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;



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



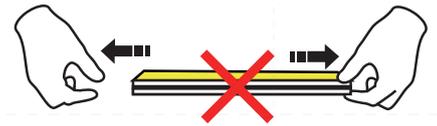
Model	Product size	Product Quantity/ box	Product Quantity/ case	Product net weight (kg)	Net weight per box (kg)	Gross weight (kg)	Carton size (m)
NMT1615-9XX24CSN050CCXXX	L10000*16*15mm	10M*1	40M	1.9	7.6	9.24	0.41*0.41*0.26
NMT1615-ORGB24CSN050CCXXX	L5000*16*15mm	5M*3	60M	1.05	12.6	14.08	
NNT1615-8XXM24CDS025CC0500							
NNT1615-ORGBM24CDS025CC0500							

[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.



No stretching



No distortion



No trampling