

Neon Specification

NMT1312U

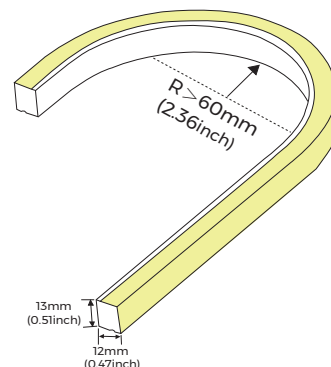


【Features】

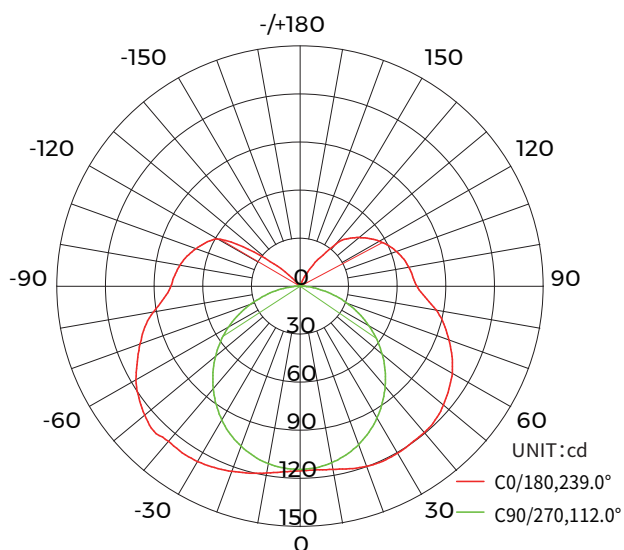
- Light source: High luminous efficiency, SMD2835 LED , LM80 test proved.
- Process & Material: High light transmittance, food-grade environmental silicone material, integrated extrusion molding technology, High protection level.
- Optical Design: Unique optical light distribution structure design, uniform 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.
- White with 3 years warranty or working life =36000H, whichever comes first.



2300 K 2700 K 3000 K 4500 K 5000 K



【Light Distribution】



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:506.7 lm

Height	Eavg,Emax	Angle:175.50°	Diameter
1m	0.1967,115.4lx		5090.34cm
2m	0.0492,28.84lx		10180.68cm
3m	0.0219,12.82lx		15271.02cm
4m	0.0123,7.21lx		20361.35cm
5m	0.0079,4.61lx		25451.69cm
6m	0.0055,3.20lx		30542.03cm
7m	0.0040,2.35lx		35632.37cm
8m	0.0031,1.80lx		40722.71cm
9m	0.0024,1.42lx		45813.05cm
10m	0.0020,1.15lx		50903.38cm

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

Effective average illuminance

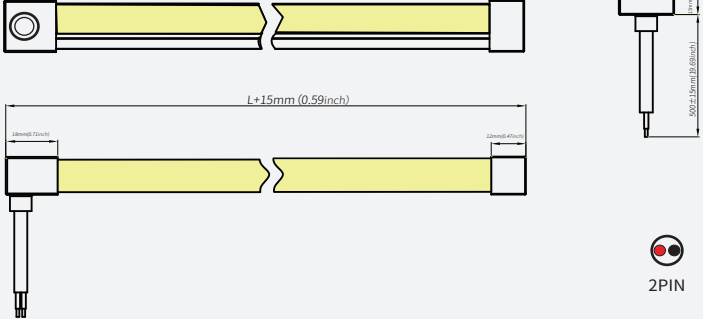
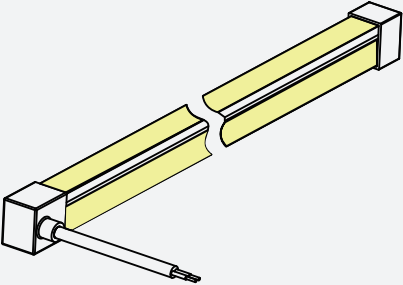
[Basic Parameters]

Model	CCT/colors	CRI	Input voltage (V)	Rated current (A/m)	Rated power (W/m)	MAX power (W/m)	Lumens (LM/m)	Length	Remark
NMT1312U-XXX 24CXS050XCXXX-NP	2300K	>80/90	24	0.46 (0.14A/ft)	11 (3.35W/ft)	12 (3.66W/ft)	750 (229LM/ft)	5000mm (16.4ft) 10000mm (32.81ft)	6LED/38.5mm
	2700K								
	3000K								
	4500K						800 (244LM/ft)		
	5000K								

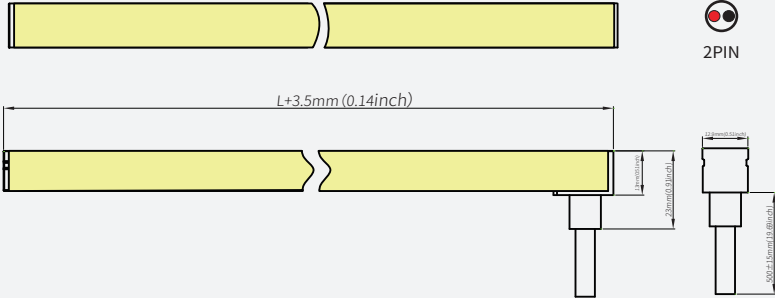
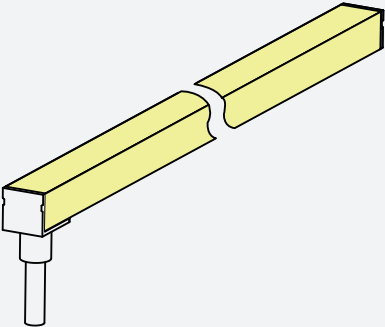
Note: 1、The above data is the testing result of 1M standard product;2、The lumens of output data can be vary up to ±10%;
3、The above parameters are all typical values.

[Product Mechanical Parameters]

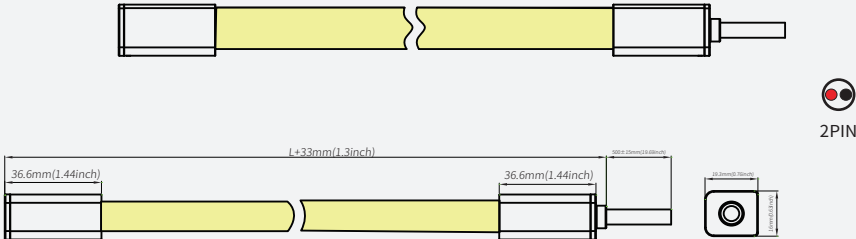
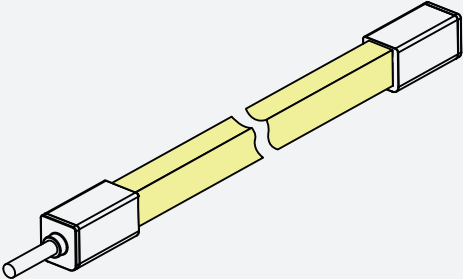
• IP65 Glued cap-top/bottom/side outlet



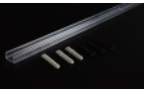
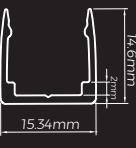
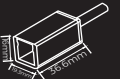
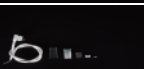
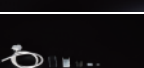
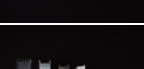
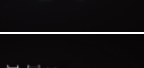
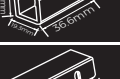
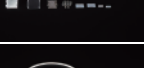
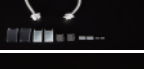
• IP67 No dark cap(NP/ENP)-bottom outlet



• IP54 Weld-free waterproof End-Cap - top outlet



[Accessory Information]

Name	Description	Imgae	Sectional size	Ordering code	Quantity case	Net weight (kg)	Per box net weight (kg)	Gross weight (kg)	Packing (mm)	Remark
PC carrier	Flat mounting PC groove			AS-NMT1312P-1000	60	0.066	3.96	4.96	1180*125*115	Size: L1000*W15.4*H14.6mm with screws
PC carrier	Flat mounting of PC clip			AS-NMT1312P-25	350	0.004	1.4	1.655	250*250*150	Size: L25*W15.4*H14.6mm with screws
End-Cap set	Silicon End-Cap Set (End Cap and Plus)			AS-NMT1312GSO-EC	400	0.0035	1.4	1.7	250*250*150	/
Weld-free waterproof End-Cap	Quick connector (outlet from the top direction)			AS-NMT1312HTO-FL	48	0.04	1.92	3.735	365x365x190	outlet 500mm\IP54
Weld-free waterproof End-Cap	Quick connector (outlet from the bottom direction)			AS-NMT1312HBO-FL	48	0.04	1.92	3.735	365x365x190	outlet 500mm\IP54
Weld-free waterproof End-Cap	Quick connector (outlet from the left direction)			AS-NMT1312HLO-FL	48	0.04	1.92	3.735	365x365x190	outlet 500mm\IP54
Weld-free waterproof End-Cap	Quick connector (outlet from the right direction)			AS-NMT1312HRO-FL	48	0.04	1.92	3.735	365x365x190	outlet 500mm\IP54
Weld-free waterproof End-Cap	Quick connector (plug)			AS-NMT1312TXO-FL	48	0.03	1.44	3.255	365x365x190	IP54
Weld-free waterproof connector	Quick connector (without wire)			AS-NMT1312MXO-FL	96	0.026	2.496	2.75	365x365x190	IP54
Weld-free waterproof connector	Quick connector (with wire)			AS-NMT1312MHO-FL	48	0.053	2.544	2.8	365x365x190	middle wire 300mm, IP54
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 white light strip
Wire	2P PVC Wire (2M)			AS-WS-0002	125	0.0616	7.7	8	250*250*150	
Connector	2PIN IP68 Waterproof connector		/	AS-FC-0001	512	0.016	8.192	9.5	365*365*190	Suitable for white light strip

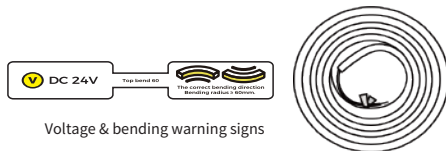
[Solution Of Controll System]

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)
	Monotone 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)

【Packaging Solutions】

•Standard Packaging

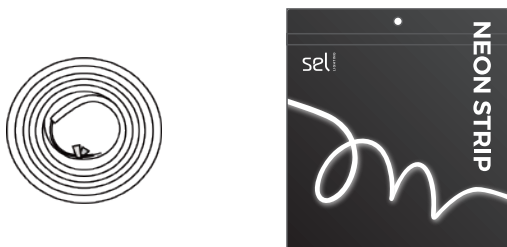
1. Line marking, the line marking is affixed at a distance of 80mm from the end of the line;



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



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



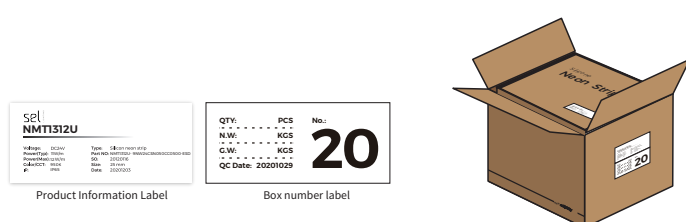
4. Label the carton and pack it into the carton



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



Model	Size	Product Quantity (box)	Product Quantity (case)	Net weight (kg)	Net weight per box (kg)	Gross weight (kg)	Carton size(m)
NMT1312U-XXX24CSS050CCXXXX-NP	L5000*13*12mm	5M*4	80M	0.86	13.76	15.31	0.41*0.41*0.26
	L10000*13*12mm	10M*2	80M	1.72	13.76	15.31	

【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 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.)

· Product is not suitable for use in swimming pools and fountains.

· 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 IP67 protective products are installed and applied, the waterproofing grade should be degraded after self-processing and cutting.

· Please use professional cutting tools when cutting.



No stretching



No distortion



No trampling