

# Specification

## Planar Neon Series NMS1217-Plus



▼ **Features**

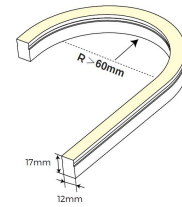


- ※ Light source: High luminous efficiency, LM80 proved.
- ※ Process & Material: High light transmittance, environmental silicone material, integrated extrusion molding technology, IP67.
- ※ Optical Design: Unique optical light distribution structure design, uniform lighting surface and no shadow.
- ※ 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.
- ※ Environmental Features: Resistance to saline solutions, acids & alkali, corrosive gases and UV.
- ※ Working/Storage Temperature: Ta:-30~55°C / 0°C ~ 60°C.
- ※ 3 years warranty, life span over 36000 hours.

▼ **Product Application**

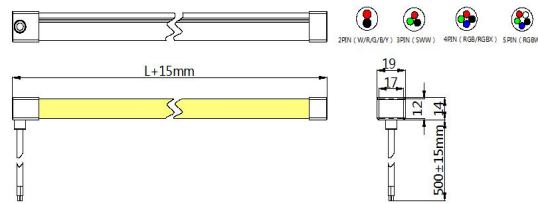
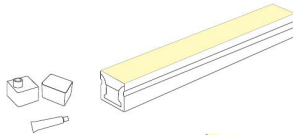
- ※ Signage lighting
- ※ Outdoor/indoor lighting
- ※ Architectural contour lighting

▼ **Product Bending Application**

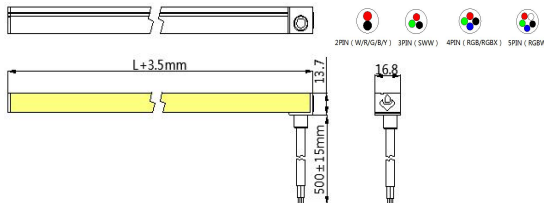
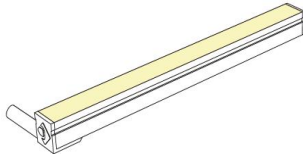


▼ **Product's protective technology & structure size**

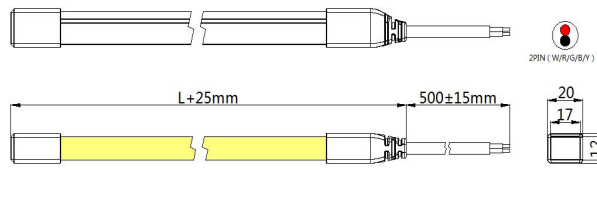
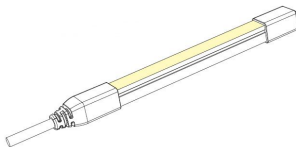
**silicone End-Cap**



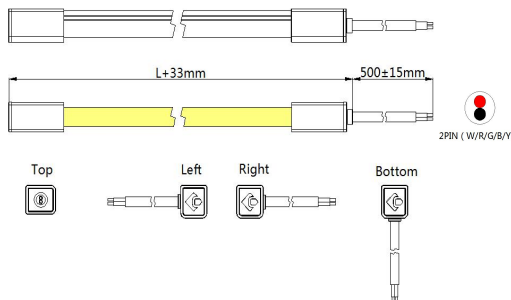
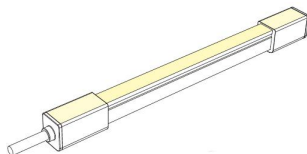
**Shadowless End-Cap**



**full protective End-Cap**



**Weld-free waterproof End-Cap**



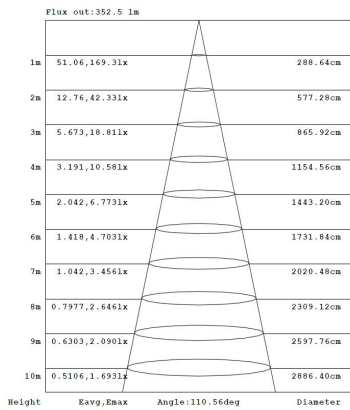
▼ **Basic Parameters**

Model	CCT/colors	CRI	Input voltage (V)	Rated current (A)	Rated power (w)	Lumens (LM)	Size (mm)	Max.length	Cutting unit (mm)		
NMS1217-XXXX24CXN050XCXXXX-Plus	2300K	>80/90	24V	0.4	9.6	510	W12*H17	5000&10000mm	50		
	2700K					520					
	3000K					520					
	4000K					520					
	6000K	460									
NMS1217-0X24CXN050XCXXXX-Plus	R 620-630nm G 525-530nm B 465-470nm	/		0.34	8	/					
NMS1217-0RGB24CXN050XC050-Plus	RGB R 620-630nm G 525-530nm B 465-470nm	/		0.2	12	/					
NMS1217-0RGBX24CXN050XC0500-Plus	RGB~2300K	/		0.6	14.4	/				5000mm	62.5
	RGB~2700K										
	RGB~3000K										
	RGB~3500K										
	RGB~4000K										
NMS1217-XXXXX24CXN050XC0500-Plus	2300~4000K 2700~6000K	>80/90	0.5	12	650	100					

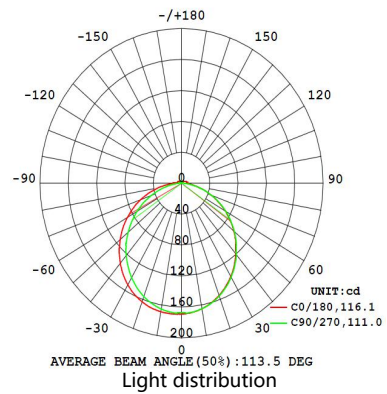
Note:

1. The above data is the testing result of 1M standard product;
2. The power and lumens of output data can be vary up to ±15%;
3. The above parameters are all typical values;

▼ **Light Distribution**



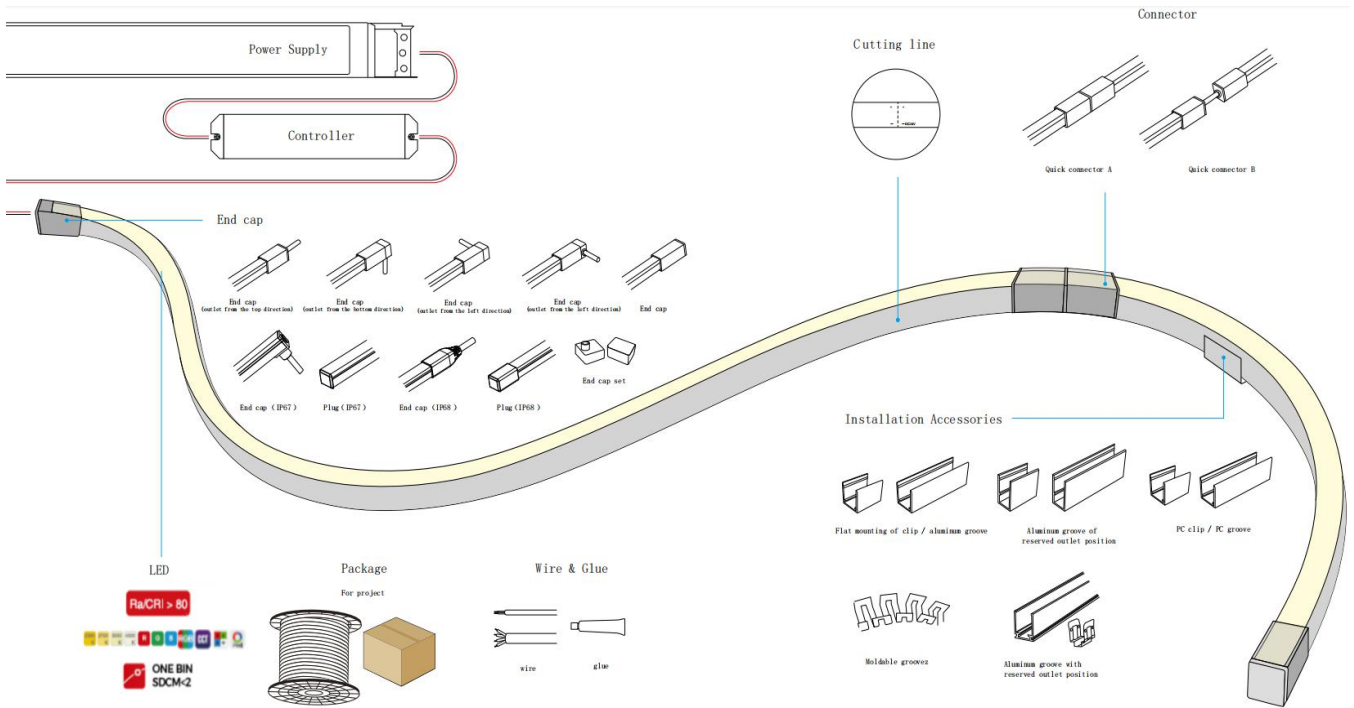
Effective average illuminance



Note: The above data is the testing result of CCT 3000K, if there is need for the IES files of other colors, please download the specific file through the IES data bank.




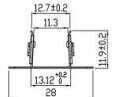

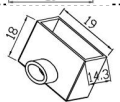

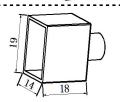

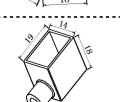

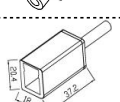

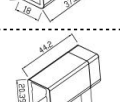

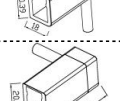

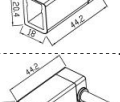

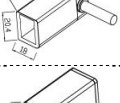

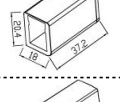

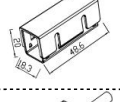












▼ System solution



▼ Accessory information





Name	Description	Image	Sectional size	Ordering code	Product quantity/case (PCS)	Product quantity/case (kg)	Net weight per box (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	尺寸: L1000*W14.4*H24.85mm 配螺丝
Aluminum clip	Flat mounting of clip			AS-NMS1217A-25	300	0.0044	2.01	2.16	250*250*150	尺寸: L25*W14.4*H24.85mm 配螺丝
Alumina carrier	Aluminum groove reserved outlet position			AS-NMS1217A1-1000	48	0.1755	8.424	9.5	1180*125*115	尺寸: L1000*W14.4*H24.85mm 配螺丝
Aluminum clip	Clip of reserved outlet position			AS-NMS1217A1-25	300	0.0044	2.01	2.16	250*250*150	尺寸: L25*W14.4*H24.85mm 配螺丝
Alumina carrier	Pre-installed aluminium groove			AS-NMS1217A2-1000	48	0.17	8.16	9.16	1180*125*115	尺寸: L1000*W15.8*H21mm 配螺丝, 一米配5个卡子
PC carrier	Flat mounting PC groove			AS-NMS1217P-1000	60	0.08	4.8	5.8	1180*125*115	尺寸: L1000*W14.6*H19.35mm 配螺丝
PC carrier	Flat mounting of PC clip			AS-NMS1217P-25	350	0.004	1.505	1.655	250*250*150	尺寸: L25*W14.6*H19.35mm 配螺丝



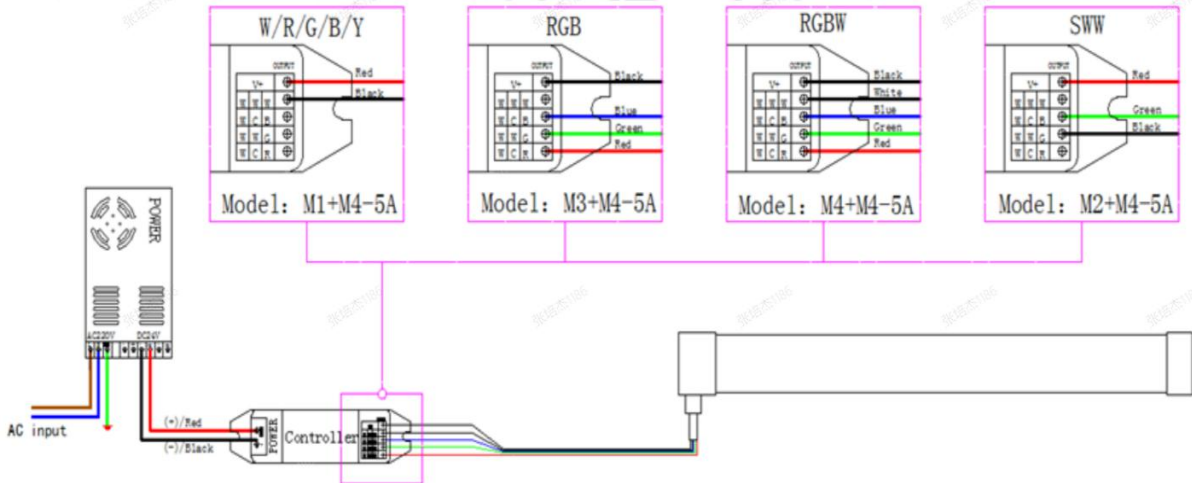
Moldable carrier	Moldable groovez			AS-NMS1217M-500	100	0.0377	3.77	6.49	500*290*290	尺寸: L500*W13.1*H11.9mm 配螺丝
End cap set	End cap set, including end cap and plug (outlet from the left direction)			AS-NMS1217GS0-EC	400	0.0035	1.4	1.7	250*250*150	/
End cap set	End cap set, including end cap and plug (outlet from the top direction)			AS-NMS1217GH0-EC	400	0.0035	1.4	1.7	250*250*150	/
End cap set	End cap set, including end cap and plug (outlet from the bottom direction)			AS-NMS1217GD0-EC	400	0.0035	1.4	1.7	250*250*150	/
Soldering-free waterproof end cap	Quick connector(outlet from the top direction)			AS-NMS1217HT0-FL	48	0.048	2.3	4.115	365x365x190	出线长度500mm\IP67
Soldering-free waterproof end cap	Quick connector(outlet from the bottom direction)			AS-NMS1217HB0-FL	48	0.048	2.3	4.115	365x365x190	出线长度500mm\IP67
Soldering-free waterproof end cap	Quick connector(outlet from the left direction)			AS-NMS1217HL0-FL	48	0.048	2.3	4.115	365x365x190	出线长度500mm\IP67
Soldering-free waterproof end cap	Quick connector(outlet from the right direction)			AS-NMS1217HR0-FL	48	0.048	2.3	4.115	365x365x190	Outlet length500mm\IP67
Soldering-free waterproof end cap	Quick connector(end cap)			AS-NMS1217TX0-FL	48	0.035	1.68	3.495	365x365x190	IP67
Soldering-free waterproof connector	Quick connector(without wire)			AS-NMS1217MX0-FL	96	0.028	2.688	2.96	365x365x190	IP67
Soldering-free waterproof connector	Quick connector(with wire in the middle)			AS-NMS1217MH0-FL	48	0.058	2.784	3.062	365x365x190mm	The middle wire length300mm, IP67
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	
Wire	3P PVC wire (0.5M)		/	AS-WS-0015	150	0.0154	2.31	2.61	250*250*150	Suitable for SWW strip
Wire	3P PVC wire (2M)		/	AS-WS-0016	125	0.0616	7.7	8	250*250*150	
Wire	4P PVC wire (0.5M)		/	AS-WS-0003	150	0.0194	2.91	3.21	250*250*150	Suitable for RGB strip
Wire	4P PVC wire (2M)		/	AS-WS-0004	125	0.0776	9.7	10	250*250*150	
Wire	5P PVC wire (0.5M)		/	AS-WS-0013	150	0.0195	2.925	3.364	250*250*150	Suitable for RGBW strip
Wire	5P PVC wire (2M)		/	AS-WS-0014	125	0.0755	9.4375	10.86		
Connector	2PIN IP68 waterproof connector		/	AS-FC-0001	512	0.016	8.192	9.5	365*365*190	Suitable for single color strip
Connector	3PIN IP68 waterproof connector		/	AS-FC-0002	512	0.018	9.216	10.2	365*365*190	Suitable for SWW strip
Connector	4PIN IP68 waterproof connector		/	AS-FC-0003	288	0.03	8.64	9.6	365*365*190	Suitable for RGB strip 3X strip



### ▼ Solution of control system

Name	Model	Ordering code	Parameters	Dimming constant-voltage acceptor	Suitable products
 Single color dimming set	M1+M4-5A	23-01-00-0045	Operating voltage: 3VDC (Battery CR2032) Operating frequency: 433.92MHz Remote control distance: 30m Operating temperature: -30°C 55°C	Input voltage: 12-24VDC Maximum loaded current: 5A*CH Max 20A Maximum loaded power:240W/480W(12V/24V) Operating temperature: -30°C 55°C Size: L170*W44*H30(mm) Package size: L228*W155*H32(mm)	White color strip
 CCT set	M2+M4-5A	23-01-00-0005	Operating voltage: 3VDC (Battery CR2032) Operating frequency: 433.92MHz Remote control distance: 30m Operating temperature: -30°C 55°C	Input voltage: 12-24VDC Maximum loaded current: 5A*CH Max 20A Maximum loaded power:240W/480W(12V/24V) Operating temperature: -30°C 55°C Size: L170*W44*H30(mm) Package size: L228*W155*H32(mm)	SWW dual CCT LED strip
 RGB set	M3+M4-5A	23-01-00-0046	Operating voltage: 3VDC (Battery CR2032) Operating frequency: 433.92MHz Remote control distance: 30m Operating temperature: -30°C 55°C	Input voltage: 12-24VDC Maximum loaded current: 6A*3CH Max 18A Maximum loaded power:216W/432W(12V/24V) Operating temperature: -30°C 55°C Size: L170*W44*H30(mm) Package size: L228*W155*H32(mm)	RGB LED strip
 RGBW set	M4+M4-5A	23-01-00-0047	Operating voltage: 3VDC (Battery CR2032) Operating frequency: 433.92MHz Remote control distance: 30m Operating temperature: -30°C 55°C	Input voltage: 12-24VDC Maximum loaded current: 5A*CH Max 20A Maximum loaded power : 240W/480W (12V/24V) Operating temperature: -30°C 55°C Size: L170*W44*H30(mm) Package size: L228*W155*H32(mm)	RGBW LED strip
 Independent digital controller	M16-SPI-16S	23-01-00-0041	(Parameters of remote controller) Operating voltage: 3VDC (Battery CR2032) Operating frequency: 2.4GHz Changing mode: 16 Operating temperature: -30°C 55°C	(Dimming constant-voltage acceptor) Input voltage: 5-24VDC Output: SPI WiFi: 2.4GHz Operating temperature: -30°C 55°C Product size: L135*W30*H20(mm) Package size: L132*W198*H22 (mm)	Professional for SPI digital LED strip

### ▼ Wiring Diagram





## ▼ Installation Guidance

### Installation of clip

1. Use screws to fix the clips or carriers on the mounting position

⚠ Clip: 3 clips can be used for 1m;

### Installation of carrier

1. When installing the LED strip, install it from both ends at the same time, installation from one direction is prohibited.

⚠ If the length of LED strip is over 2m, it is recommended to install by two persons.

> 2m

2. Use tool to disassemble carefully, and do not pull the LED strip directly.

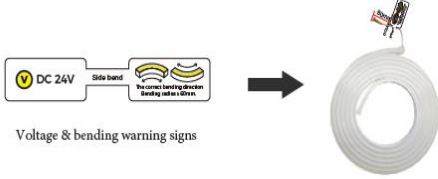
⚠ If the length of LED strip is over 2m, it is recommended to disassemble by two persons.

> 2m

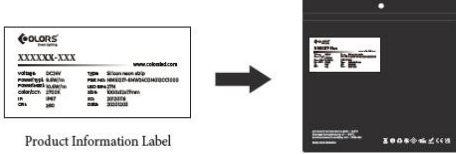


## ▼ Packaging Solutions

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 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;



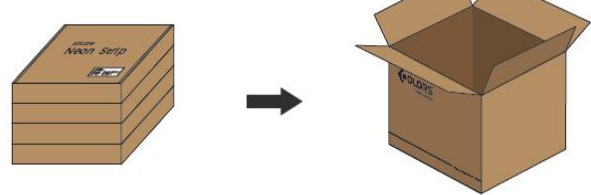
4. Put the product and manual in the box, and determine how many rolls of the product in a box according to the actual situation;



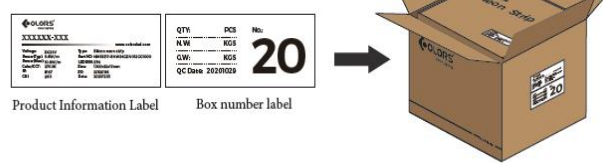
5. Label the carton and pack it into the carton;



6. Pack 4 boxes of products in the carton;



7. Put the product information label and the box number label on the side of the carton, and the QC inspection stamp;



8. Use COLORS adhesive paper to seal the box and pack with packing tape, and the packaging is complete,

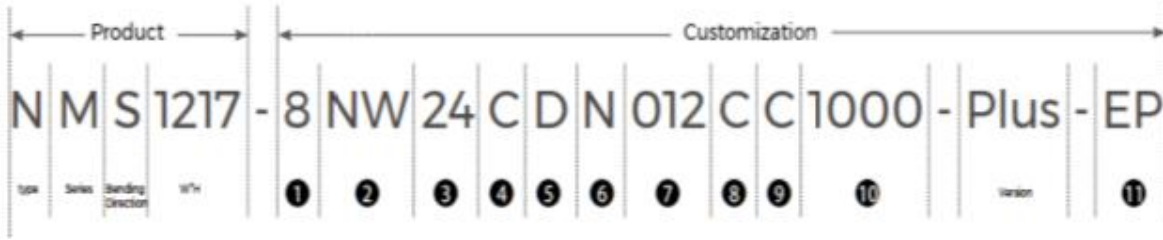


Model	Product size	Product Quantity/box	Product Quantity/case	Product net weight (kg)	Net weight per box (kg)	Gross weight (kg)	Carton size (M)
NMS1217-XXX24CSN050CCXXX-Plus	L5000*12*17mm	5M*3	60M	1.17	14.04	15.59	0.41*0.41*0.26M
	L10000*12*17mm	10M*1	40M	2.34	9.36	10.91	
NMS1217-0X24CSN050CCXX00-Plus	L5000*12*17mm	5M*3	60M	1.17	14.04	15.59	
	L10000*12*17mm	10M*1	40M	2.34	9.36	10.91	
NMS1217-0RGB24CSN050CC0500-Plus	L5000*12*17mm	5M*3	60M	1.17	14.04	15.59	
NMS1217-0RGBW24CSN050CC0500-Plus	L5000*12*17mm	5M*3	60M	1.17	14.04	15.59	
NMS1217-XSWW24CSN050CC0500-Plus	L5000*12*17mm	5M*3	60M	1.17	14.04	15.59	





▼ **Ordering Code**



Simple steps, open to the outside world in an all-round way, customize personalized product

CRI	Code	1
RCB or colorful, no CRI	0	
CRI<80	7	
CRI=80	8	
CRI>90	9	

Silk Printing	Code	4
COLORS	C	
Neutral	N	
Customized	S	

COLORS	Code	8
COLORS	C	
Package for distributors	B	

CCT/color	Code	2
2200-2400K	LW	
2600-2800K	SW	
2800-3200K	WW	
3200-3800K	PW	
3800-4200K	NW	
4800-5200K	DW	
Red	R	
Green	G	
Blue	B	
Yellow	Y	
Adjustable CCT	SWW	
RCB	RCB	
RCBW	RCBW	
RGBX	RGBX	

Entry cable	Code	5
One end	S	
Dual-ends	D	
No	X	

Label Type	Code	9
COLORS	C	
Customized	S	

Wire Type	Code	6
PVC	N	
No wire	X	
Silicone wire	S	

Strip Length	Code	10
50m/roll	5000	
15m/roll	1500	
10m/roll	1000	
5m/roll	0500	

Wire Length	Code	7
50CM	050	
No wire	000	

IP	Code	11
IP67	67	
IP67	67	

Operating voltage	Code	3
DC5V	05	
DC12V	12	
DC24V	24	
DC48V	48	

Ordering example: NMS1217-8LW24NSS050CC0500-Plus-EP  
Silicone neon strip (side bend), width\*height: 12\*17mm, 2835LED, CRI 80, CCT after gluing: 2300K, DC24V, silk printing-neutral, one end entry cable 50CM. brand package 5m/roll. plus version. IP67 end cap.



## ▼ 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.

### Cutting method

