

Silicone Neon Strip

硅胶挤出霓虹灯带

BIG DATA

资料集



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Who Are We ?

企业介绍

HUACAI OPTO-ELECTRONICS CO.,LTD, (HUACAI), Founded in 2008, is a high-tech enterprise specializing in LED lighting. Our brand "COLORS" is committed to LED linear lighting solutions. With the objective to be the most influential, and innovative indoor lighting brand in the world. COLORS insists on its independent research & development, as well as the independent intellectual property rights management. Having built a mature and stable products development system, quality control system, production supply chain, worldwide sales teams and brand agents. COLORS is also focusing on the future intelligent business mode to build network information system for providing flexibly customized products and service for our customers.



Ten-year History 十年历程

Ten years of product development and experience accumulation to build up the brand.



Group Company 集团公司

Headquartered in Shenzhen, and also set up branches in Europe and the United States.



Manufacture Base 制造基地

Processes two production bases in Shenzhen and Yangzhou respectively, covering an area of more than 20,000 square meters, with annual linear lighting luminaires production capacity of 15 million meters.



Product System 产品体系

Provide a full set of solutions for general lighting, decorative lighting and auxiliary lighting from the encapsulation of LED, the linear lighting luminaires, to the super free customized application system.



Certification System 认证体系

Passed through ISO9001 quality system certification, ISO14001 environmental system certification and product certification of mainstream markets.



Independent R & D 自主研发

Adheres to the business philosophy of independent research and development, intellectual property management. Won the title of national high-tech enterprise, as well as many international design awards and invention patents, including IF, IDEA, GOLDEN PIN.



International Brand 国际品牌

Registered the trademark in 25 countries around the world. Conducted over 20 promotion events throughout the year. Brand services are all over the world.



Global Market 全球市场

Products are sold to more than 90 countries and regions all over the world. Dominates the European market and cooperates with many major customers.



Moolight Series

月色系列

Front/Side emitting for homogenous, soft & dot-free lighting

正面/侧面发光, 发光均匀, 柔和, 没光斑;

Adopt the dual color silicone & co-extrusion technology to make the cutting line clear and easy to be cut

采用硅胶双色共挤技术, 能清楚看到裁剪线, 方便裁剪使用;

Excellent heat dissipation by using the professional structure design of flexible strip + silicone co-extrusion technology

采用柔性灯带+硅胶共挤技术一体成形设计, 整体灯带散热优异;

Outstanding weather resistance makes it in a normal-soft state at -20 ~ +45 °C , without adverse scenarios occurred such as embrittlement, deformation, softening, and aging

拥有良好的耐候性, 霓虹灯带在-20°C~+45°C内使用能保持正常的柔软状态, 不会出现脆化、变形、软化、老化等不良情况;

Varieties of protection features, up to IP67, with the resistance to saline solutions, acid & alkali, corrosive gases and UV

多种防护特性, IP67防护等级, 耐盐液、酸碱, 防气体腐蚀, 防火, 抗UV特性;



Domed Neon Series

弧面霓虹管系列

Domed surface with large light angle (160°) for homogenous, soft & dot-free Lighting

弧面大角度 (160°) 发光, 发光均匀, 柔和, 没光斑;

Designed with 15m wire outgoing at one end keeping consistent brightness from end to end

单端出线15米恒流设计, 首尾亮度保持一致;

Adopt the dual color silicone & co-extrusion technology to make the cutting line clear and easy to be cut

采用硅胶双色共挤技术, 能清楚看到裁剪线, 方便裁剪使用;

Excellent heat dissipation by using the professional structure design of flexible strip + silicone co-extrusion technology

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Varieties of protection features, up to IP67, with the resistance to saline solutions, acid & alkali, corrosive gases and UV

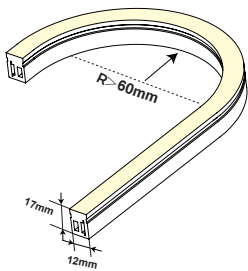
多种防护特性, IP67防护等级, 耐盐液、酸碱, 防气体腐蚀, 防火, 抗UV特性;



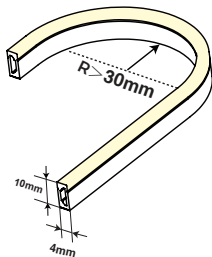
Product List

产品列表

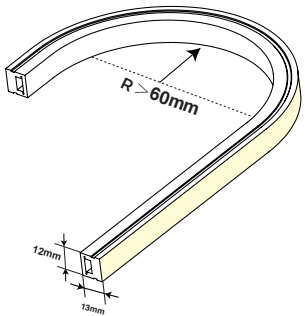
Series 系列	Moonlight Series(Side bend) 月色系列(侧弯)
Model 型号	NMS1217
Size 尺寸(mm)	White light: 5000×12×17/10000×12×17, R/G/B/Y, RGB: 5000×12×17
Input Voltage 输入电压	24VDC
Min cut 最小裁剪(mm)	Single color 50/RGB 83
Max.power 最大功率(W/m)	10.6 (White light) ; 8.8(RGBY) ; 13.2 (RGB)
Typ.power 典型功率(W/m)	9.6 (White light) ; 8(RGBY); 12 (RGB)
Lumens 光通量(LM/m)	370/380/360/360
CCT / Color 色温/颜色	2300K2700K3000K4000K R G B Y RGB
CRI 显指	>80
Min bending radius 最小弯折半径 (mm)	>60
IP 防护等级	IP67



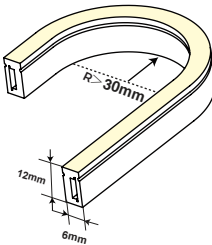
Series 系列	Dual-color Fog Casing Series 双色雾面套管(侧弯)
Model 型号	NTS0410
Size 尺寸(mm)	5000 ×04×10
Input Voltage 输入电压	12/24VDC
Min cut 最小裁剪(mm)	17.86/41.66
Max.power 最大功率(W/m)	8
Typ.power 典型功率(W/m)	7.2
Lumens 光通量(LM/m)	240/290/300/300
CCT / Color 色温/颜色	2300K2700K3000K4000K R G B Y
CRI 显指	>80
Min bending radius 最小弯折半径 (mm)	>30
IP 防护等级	IP65



Series 系列	Moonlight Series(Top bend) 月色系列(顶弯)
Model 型号	NMT1312
Size 尺寸(mm)	White light: 5000×13×12/10000×13×12, R/G/B/Y/RGB: 5000×13×12
Input Voltage 输入电压	24VDC
Min cut 最小裁剪(mm)	Single color 50/RGB 83
Max.power 最大功率(W/m)	10.6 (White light) ; 8.8(RGBY) ; 13.2 (RGB)
Typ.power 典型功率(W/m)	9.6 (White light) ; 8(RGBY); 12 (RGB)
Lumens 光通量(LM/m)	550/600/600/620/620
CCT / Color 色温/颜色	2300K2700K3000K4000K4500K R G B Y RGB
CRI 显指	>80
Min bending radius 最小弯折半径 (mm)	>60
IP 防护等级	IP67



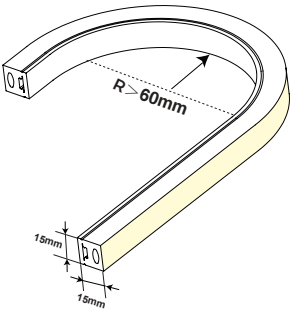
Series 系列	Moonlight Series(Side bend) 月色系列(侧弯)
Model 型号	NMS0612
Size 尺寸(mm)	White light: 5000×6×12, R/G/B/Y/: 5000×6×12
Input Voltage 输入电压	12/24VDC
Min cut 最小裁剪(mm)	Single color 25/50
Max.power 最大功率(W/m)	10.6 (White light) ; 8.8(RGBY)
Typ.power 典型功率(W/m)	9.6 (White light) ; 8(RGBY)
Lumens 光通量(LM/m)	230/240/240/220/240
CCT / Color 色温/颜色	2300K2700K3000K4000K4500K R G B Y
CRI 显指	>80
Min bending radius 最小弯折半径 (mm)	>30
IP 防护等级	IP67



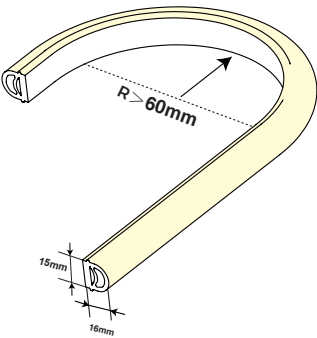
Product List

产品列表

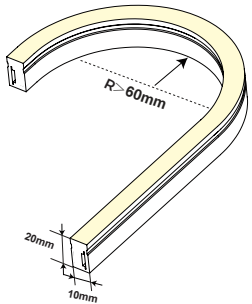
Series 系列	Moonlight Series(Top bend) 月色系列(顶弯)
Model 型号	NMT1515
Size 尺寸(mm)	White light : 5000X15X15/10000X15X15, R/G/B/Y/RGB: 5000X15X15
Input Voltage 输入电压	24VDC
Min cut 最小裁剪(mm)	Single color 50/RGB 83
Max.power 最大功率(W/m)	10.6 (White light) ; 8.8(RGBY) ; 13.2 (RGB)
Typ.power 典型功率(W/m)	9.6 (White light) ; 8(RGBY); 12 (RGB)
Lumens 光通量(LM/m)	520/580/590/580
CCT / Color 色温/颜色	2500K 2700K 3000K 4000K R G B Y RGB
CRI 显指	>80
Min bending radius 最小弯折半径 (mm)	>60
IP 防护等级	IP67



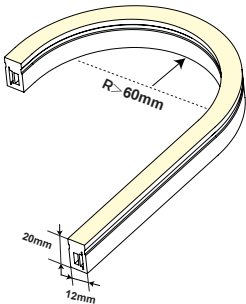
Series 系列	DOMED Neon Series(Top bend) 弧面霓虹管系列(顶弯)
Model 型号	NNT1615
Size 尺寸(mm)	15000X16 X15/5000X16X15
Input Voltage 输入电压	24VDC
Min cut 最小裁剪(mm)	Single color 41.66/RGB50
Max.power 最大功率(W/m)	12 (White light) ; 14.4 (RGB)
Typ.power 典型功率(W/m)	11 (White light) ; 12 (RGB)
Lumens 光通量(LM/m)	750/780/800/820/800
CCT / Color 色温/颜色	2500K 2700K 3000K 3700K 5000K R G B Y RGB
CRI 显指	>80
Min bending radius 最小弯折半径 (mm)	>60
IP 防护等级	IP67



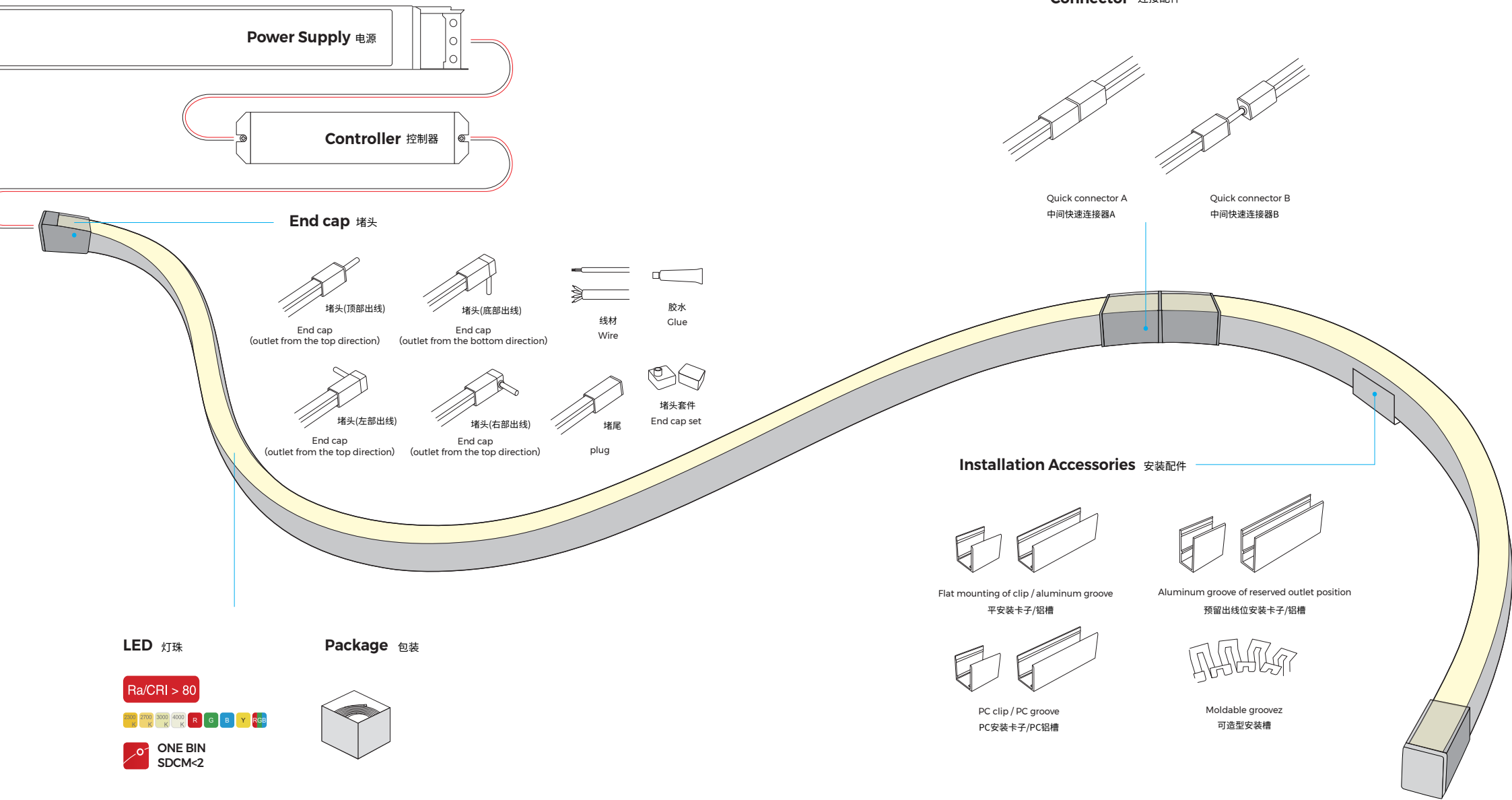
Series 系列	Moonlight Series(Side bend) 月色系列(侧弯) NEW
Model 型号	NMS1020
Size 尺寸(mm)	50000X10X20
Input Voltage 输入电压	48VDC
Min cut 最小裁剪(mm)	166.6
Max.power 最大功率(W/m)	5.8
Typ.power 典型功率(W/m)	5.4
Lumens 光通量(LM/m)	130/130/140/140/150
CCT / Color 色温/颜色	2500K 2700K 3000K 4000K 5000K
CRI 显指	>80
Min bending radius 最小弯折半径 (mm)	>60
IP 防护等级	IP67



Series 系列	Dual-color Fog Casing Series 双色雾面套管(侧弯) NEW
Model 型号	NTS1220
Size 尺寸(mm)	5000 X12 X20
Input Voltage 输入电压	5/12/24VDC
Min cut 最小裁剪(mm)	16.6/50/83/100
Max.power 最大功率(W/m)	10.6 (White light) ; 8.8(RGBY) ; 13.2 (RGB) ;14.4(RGBX);14(SWW)
Typ.power 典型功率(W/m)	9.6 (White light) ; 8(RGBY) ; 12 (RGB);12(RGBX); 12(SWW)
Lumens 光通量(LM/m)	220/220/230/190
CCT / Color 色温/颜色	2500K 2700K 3000K 4000K R G B Y RGB CCT
CRI 显指	>80
Min bending radius 最小弯折半径 (mm)	>60
IP 防护等级	IP65



Silicone Neon Strip Solution
霓虹灯带解决方案



Accessories List

配件列表

End cap/plug 堵头/堵尾

Model 型号	Name 名称	Description 描述	Matched product 适配款型	Image 图示
AS-NTS0410GH0-EC	End cap set 堵头套装	Silica end cap set, with end cap, plug and clip	NTS0410	
AS-NMS0612GH0-EC	End cap set 堵头套装	Silica end cap set, with end cap, plug	NMS0612	
AS-NMT1312GS0-EC	End cap set 堵头套装	Silica end cap set, with end cap, plug	NMT1312	
AS-NMT1312HT0-FL	Soldering-free waterproof end cap 免焊防水堵头	Soldering-free & waterproof connector, Soldering-free electrification, IP67 protection, outlet from the horizontal (top) direction	NMT1312	
AS-NMT1312HB0-FL	Soldering-free waterproof end cap 免焊防水堵头	Soldering-free & waterproof connector, Soldering-free electrification, IP67 protection, outlet from the bottom direction	NMT1312	
AS-NMT1312HL0-FL	Soldering-free waterproof end cap 免焊防水堵头	Soldering-free & waterproof connector, Soldering-free electrification, IP67 protection, outlet from the left direction	NMT1312	
AS-NMT1312HR0-FL	Soldering-free waterproof end cap 免焊防水堵头	Soldering-free & waterproof connector, Soldering-free electrification, IP67 protection, outlet from the right direction	NMT1312	
AS-NMT1312TX0-FL	Soldering-free waterproof end cap 免焊防水堵头	Soldering-free & waterproof connector, Soldering-free electrification, IP67 protection, non-outlet from plug	NMT1312	
AS-NMT1515GH0-EC	End cap set 堵头套装	Silica end cap set, with end cap and plug	NMT1515	
AS-NNT1615GH0-EC	End cap set 堵头套装	Silica end cap set, with end cap and plug	NNT1615	
AS-NMS1217GS0-EC	End cap set 堵头套装	Silica end cap set, with end cap and plug	NMS1217	
AS-NMS1217HT0-FL	Soldering-free waterproof end cap 免焊防水堵头	Soldering-free & waterproof connector, Soldering-free electrification, IP67 protection, outlet from the horizontal (top) direction	NMS1217	
AS-NMS1217HB0-FL	Soldering-free waterproof end cap 免焊防水堵头	Soldering-free & waterproof connector, Soldering-free electrification, IP67 protection, outlet from the bottom direction	NMS1217	
AS-NMS1217HL0-FL	Soldering-free waterproof end cap 免焊防水堵头	Soldering-free & waterproof connector, Soldering-free electrification, IP67 protection, outlet from the left direction	NMS1217	
AS-NMS1217HR0-FL	Soldering-free waterproof end cap 免焊防水堵头	Soldering-free & waterproof connector, Soldering-free electrification, IP67 protection, outlet from the right direction	NMS1217	
AS-NMS1217TX0-FL	Soldering-free waterproof end cap 免焊防水堵头	Soldering-free & waterproof connector, Soldering-free electrification, IP67 protection, non-outlet from plug	NMS1217	

Clip 卡子

Model 型号	Name 名称	Description 描述	Matched product 适配款型	Image 图示
AS-NTS0410S-18	Fixed clip 固定卡子	Fixed clip, 0.3mm stainless steel, white paint, with screws	NTS0410	
AS-NMS0612A-20	Aluminum clip 铝卡子	Flat mounting of clip, L: 20mm, with screws	NMS0612	
AS-NMS0612A1-20	Aluminum clip 铝卡子	Clip of reserved outlet position, L: 20mm, with screws	NMS0612	
AS-NMS0612P-20	PC clip PC卡子	Flat mounting of PC clip, L: 20mm, with screws	NMS0612	
AS-NMT1312A-25	Aluminum clip 铝卡子	Flat mounting of clip, L: 25mm, with screws	NMT1312	
AS-NMT1312A1-25	Aluminum clip 铝卡子	Clip of reserved outlet position, L: 25mm, with screws	NMT1312	
AS-NMT1515S-95	Fixed clip 固定卡子	Fixed clip, L: 95mm, with screws	NMT1515	
AS-NMS1217A-25	Aluminum clip 铝卡子	Flat mounting of clip, L: 25mm, with screws	NMS1217	
AS-NMS1217A1-25	Aluminum clip 铝卡子	Clip of reserved outlet position, L: 25mm, with screws	NMS1217	
AS-NMS1217P-25	PC clip PC卡子	Flat mounting PC clip, L: 25mm, with screws	NMS1217	
AS-NNT1615P-25	PC clip PC卡子	Flat mounting PC clip, L: 25mm, with screws	NNT1615	

Accessories List

配件列表

Carrier 载体

Model 型号	Name 名称	Description 描述	Matched product 适配款型	Image 图示
AS-NTS0410A-1000	Aluminium carrier 铝载体	Aluminium profile, flat mounting	NTS0410	
AS-NMS0612A-1000	Aluminium carrier 铝载体	Flat mounting aluminum groove, L: 1000mm, with screws	NMS0612	
AS-NMS0612A1-1000	Aluminium carrier 铝载体	Aluminum groove reserved outlet position, L: 1000mm, with screws	NMS0612	
AS-NMS0612P-1000	PC carrier PC载体	Flat mounting PC groove, L: 1000mm, with screws	NMS0612	
AS-NMS0612M-5000	Moldable groove 可造型载体	Moldable groove, L: 5000mm, with screws	NMS0612	
AS-NMT1515M-5000	Moldable groove 可造型安装槽	Moldable groove, L: 5000mm, with screws	NMT1515	
AS-NMT1312A-1000	Aluminium carrier 铝载体	Flat mounting aluminum groove, L: 1000mm, with screws	NMT1312	
AS-NMT1312A1-1000	Aluminium carrier 铝载体	Aluminum groove reserved outlet position, L: 1000mm, with screws	NMT1312	
AS-NMS1217A-1000	Aluminium carrier 铝载体	Flat mounting aluminum groove, L: 1000mm, with screws	NMS1217	
AS-NMS1217A1-1000	Aluminium carrier 铝载体	Aluminum groove of reserved outlet position, L: 1000mm, with screws	NMS1217	
AS-NMS1217P-1000	PC carrier PC载体	Flat mounting PC groove, L: 1000mm, with screws	NMS1217	
AS-NMS1217M-500	Mouldable groove 可造型载体	Moldable groove, L: 500mm, with screws	NMS1217	
AS-NNT1615P-1000	PC carrier PC载体	Flat mounting PC groove, L: 1000mm, with screws	NNT1615	

Wire cable 线材

Model 型号	Name 名称	Description 描述	Matched product 适配款型	Image 图示
AS-WS-0001	PVC wire (0.5M Φ4.5mm)	White, 20AWG, outer diameter 4.5mm, UL2464,300V, 80°C, L=500mm	NMS1217, NMT1312, NMT1515	
AS-WS-0002	PVC wire (2M Φ4.5mm)	White, 20AWG, outer diameter 4.5mm, UL2464,300V, 80°C, L=2000mm	NMS1217, NMT1312, NMT1515	
AS-WS-0003	PVC wire (0.5MΦ4.5mm)	White (red & green & blue & black), 20AWG, outer diameter 4.5mm, UL2464,300V, 80°C, L=500mm	NMS1217, NMT1312, NMT1515	
AS-WS-0004	PVC wire (2M Φ4.5mm)	White (red & green & blue & black), 20AWG, outer diameter 4.5mm, UL2464,300V, 80°C, L=2000mm	NMS1217, NMT1312, NMT1515	
AS-WS-0005	PVC wire (0.5M Φ4.0mm)	White, 20AWG, outer diameter 4.0mm, UL2464,300V, 80°C, L=500mm	NMS0612	
AS-WS-0006	PVC wire (2M Φ4.0mm)	White, 20AWG, outer diameter 4.0mm, UL2464,300V, 80°C, L=2000mm	NMS0612	
AS-WS-0007	PVC wire (0.5M Φ6.0mm)	White, 18AWG, outer diameter 6mm, UL2464,300V, 80°C, L=500mm	NNT1615	
AS-WS-0008	PVC wire (2M Φ6.0mm)	White, 18AWG, outer diameter 6mm, UL2464,300V, 80°C, L=2000mm	NNT1615	
AS-WS-0009	Gray wire (0.5M) 2P灰白线材	Gray, 20AWG, L=500mm	NTS0410	
AS-WS-0010	Gray wire (2M) 2P灰白线材	Gray, 20AWG, L=2000mm	NTS0410	

Glue 胶水

Model 型号	Name 名称	Description 描述	Matched product 适配款型	Image 图示
AS-PG-0001	Gum filler 填充胶	588ST acid gel, 10ml/pcs, suitable for silicone neon strip and silicone extrusion strip	All the models 所有款型	

Ordering Code

选配下单



Simple steps, open to the outside world in an all-round way, customize personalized product
简单步骤，全方位开放，定制个性化产品

CRI 显指	Code 代码 1
RGB or colorful, no CRI	0
CRI<80	7
CRI>80	8
CRI>90	9

CCT/color 成品色温	Code 代码 2
2200-2400K	LW
2600-2800K	SW
2800-3200K	VW
3200-3800K	PW
3800-4200K	NW
4800-5200K	DW
Adjustable CCT 2700-6500K	SWW
Red 红色	R
Green 绿色	G
Blue 蓝色	B
Yellow 黄色	Y
Three-in-one LED	RGB
RGBX	RGBX

Voltage 工作电压	Code 代码 3
DC5V	05
DC12V	12
DC24V	24

Silk Printing 丝印设置	Code 代码 4
COLORS 华彩丝印	C
Neutral 中性基础丝印	N
Customized 个性定制丝印	S

Entry cable 出线方式	Code 代码 5
One end 单头出线	S
Dual-ends 双头出线	D

Wire Type 线材类型	Code 代码 6
PVC wire	N

Wire Length 线材长度	Code 代码 7
50cm	050

COLORS 品牌代码	Code 代码 8
COLORS 品牌代码	C

Label Type 标签类型	Code 代码 9
COLORS	C
Customized	S

Strip Length 灯带长度	Code 代码 10
5m	0500
10m	1000
50m	5000

Basic Parameters

产品参数



Features

- **Light source** : High luminous efficiency, SMD2835 LED, SMD 2735 LED, 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 salinesolutions, acids & alkali, corrosive gases and UV.
- **Working/Storage Temperature** : Ta:-20~45 C /0 C ~60 C.
- **Life Span** : 36000H, 3 years warranty.

基本特征

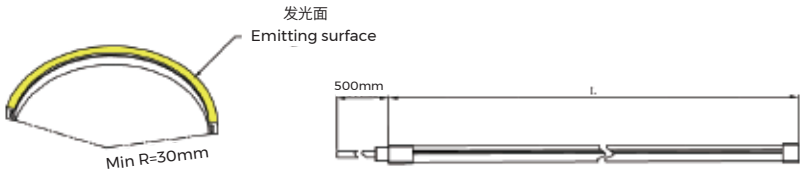
- 光源：高光效 SMD2835、2735LED灯珠，LM80测试认证；
- 工艺材质：高透光率、环保硅胶材料，一体挤压成型工艺，IP67防护等级；
- 光学设计：独特的光学配光结构设计，表面出光均匀无阴影；
- 外观设计：相较于传统霓虹管或PVC护栏管，硅胶材质柔韧性佳、外观造型简约时尚，精巧独特；
- 产品认证：UL、CE、ROHS；
- 环境特性：耐盐液、抗酸碱腐蚀、抗阻燃、耐UV；
- 工作/贮存温度:Ta:-20~45℃/0℃~60℃；
- 工作寿命: 36000小时, 3年质保。

NMS0612 (Side Bend) 侧弯

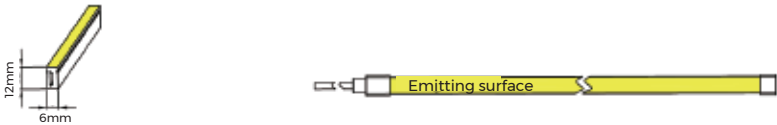


Structure Parameters:

结构参数:



Note: L=5000mm



Basic Parameters 产品参数:

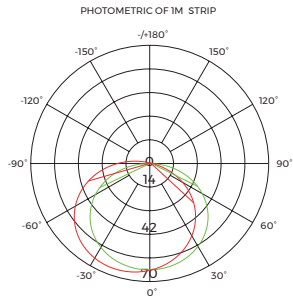
Model 规格型号	CCT/Colors 色温/颜色	CRI 显指	Input voltage 输入电压	Rated current 额定电流 (A)	Rated power 额定功率 (W)	Lumens 流明 (LM)	Size 尺寸 (mm)	Max.length 最大长度	Cutting unit 裁剪单元 (mm)	Beam angle 光束角	IP 等级
NMS0612-8XXXXCSN050CC0500	2300K	> 80	24V/12V	0.4/0.8	9.6	230	W6*H12	5000mm	50 / 25	115°	IP67
	2700K					240					
	3000K					240					
	4000K					220					
	4500K					240					
NMS0612-0XXXXCSN050CC0500	R 620-630nm	/	24V/12V	0.34/0.67	8	/					
	G 525-530nm					/					
	B 465-470nm					/					
	Y 587-592nm					/					

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 ±10%;
- 3、 The above parameters are all typical values

Light Distribution:

配光曲线:



Height	Eavg,Emax	Angle:111.06deg	Diameter
1m	17.57,64.05lx		315.52cm
2m	4.392,16.01lx		631.05cm
3m	1.952,7.116lx		946.57cm
5m	0.7027,2.562lx		1577.61cm
7m	0.3585,1.307lx		2208.66cm

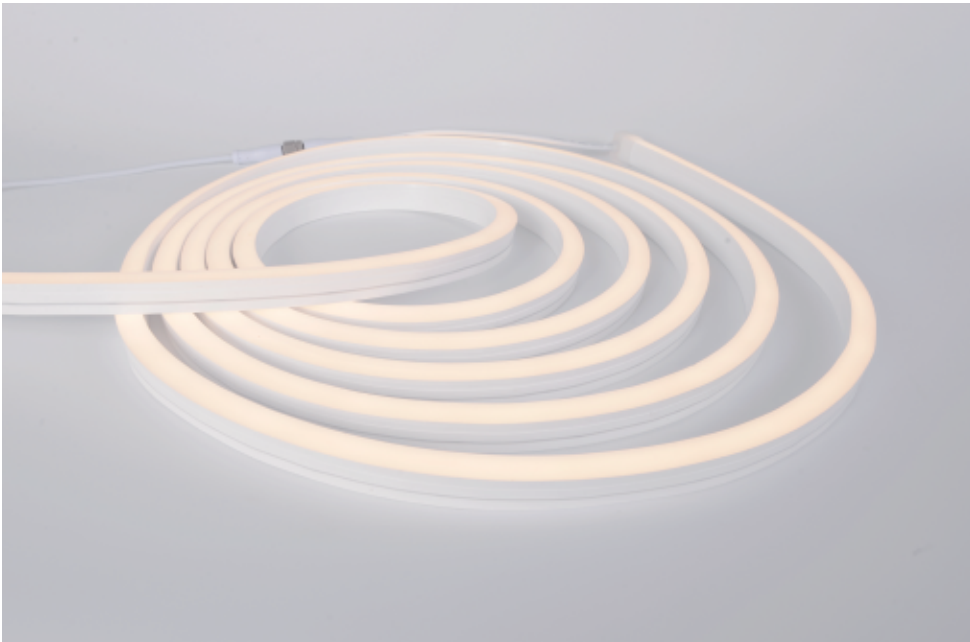
Packaging Solutions:

包装方案:



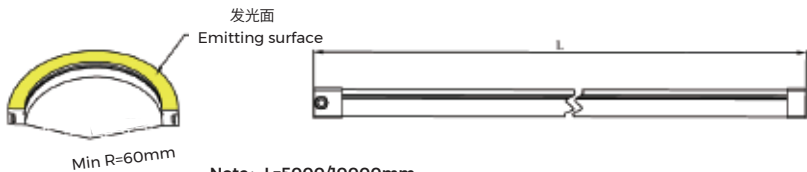
Name	Bending direction	Product size	Product Quantity/box	Product Quantity /case	Product net weight (kg)	Net weight per box (kg)	Gross weight (kg)	Carton size
NMS0612-8XXXXCSN050CC0500	Side view	L5000*6*12 mm	5M*8	160M	0.48	15.36	16.84	0.41*0.41*0.26M
NMS612-0XXXXCSN050CC0500		L5000*6*12 mm	5M*8	160M				

NMS1217 (Side Bend) 侧弯

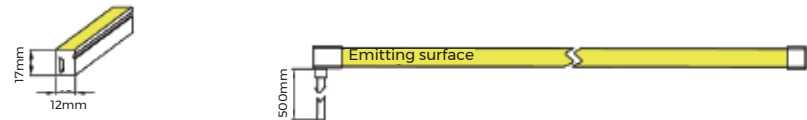


Structure Parameters:

结构参数:



Note: L=5000/10000mm



Basic Parameters 产品参数:

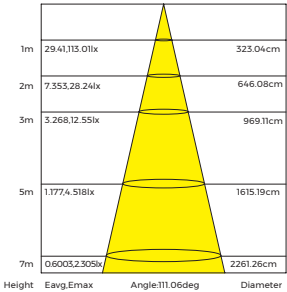
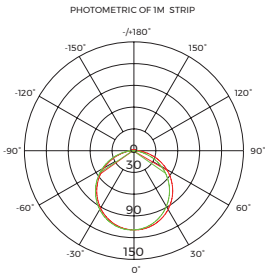
Model 规格型号	CCT/Colors 色温/颜色	CRI 显指	Input voltage 输入电压	Rated current 额定电流 (A)	Rated power 额定功率 (W)	Lumens 流明 (LM)	Size 尺寸 (mm)	Max.length 最大长度	Cutting unit 裁剪单元 (mm)	Beam angle 光束角	IP 等级					
NMS1217-8XX24CSN050CCXXX	2300K	>80	24	0.4	9.6	370	W12*H17	5000mm & 10000mm	50	115°	IP67					
	2700K					380										
	3000K					360										
	4000K					360										
NMS1217-0X24CSN050CC0500	R 620-630nm	/	24	0.34	8	/		5000mm								
	G 525-530nm					/										
	B 465-470nm					/										
	Y 587-592nm					/										
NMS1217-0RGB24CSN050CC0500	RGB	/	24	0.5	12	200										
	R 620-630nm															
	G 525-530nm															
	B 465-470nm															

- 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 $\pm 10\%$;
 3. The above parameters are all typical values

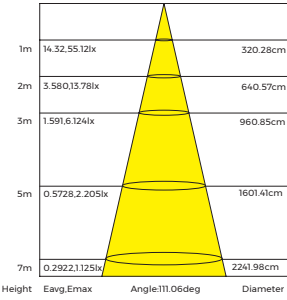
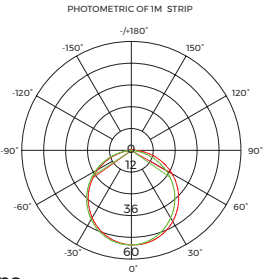
Light Distribution:

配光曲线:

Single Color
单色



RGB

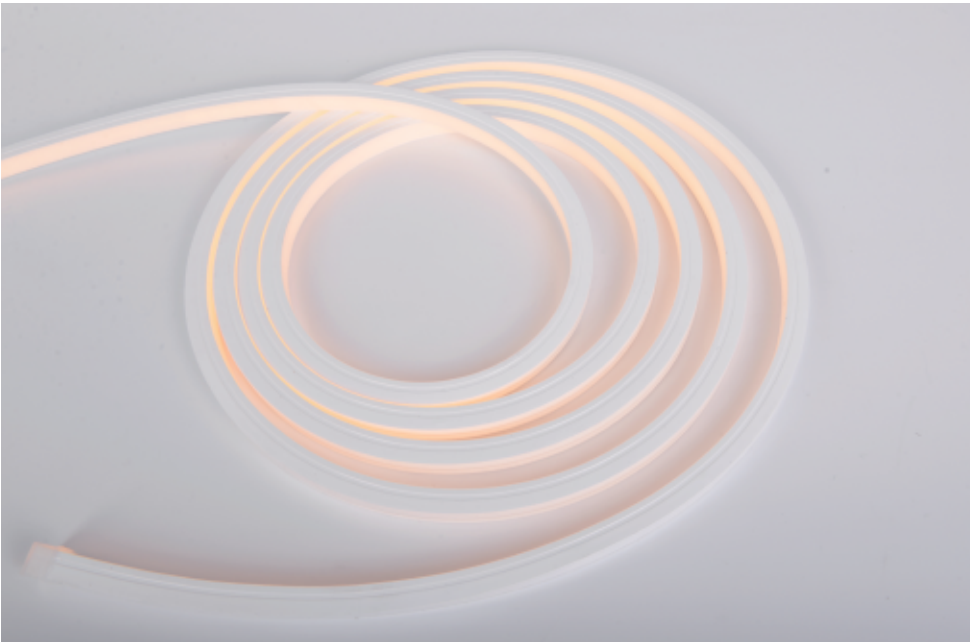


Packaging Solutions:

包装方案:

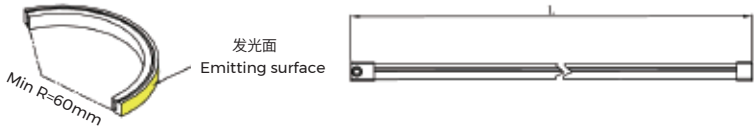
Name	Bending direction	Product size	Product Quantity/ box	Product Quantity/cas e	Product net weight (kg)	Net weight per box (kg)	Gross weight (kg)	Carton size
NMS1217-8XX24CSN050CCXXX	Side view	L5000*12*17mm	5M*3	60M	1.18	14.16	15.64	0.41*0.41*0.2 6M
		L10000*12*17mm	10M*1	40M	2.34	9.36	10.84	
NMS1217-0X24CSN050CC0500		L5000*12*17mm	5M*3	60M	1.18	14.16	15.64	
NMS1217-0RGB24CSN050CC0500		L5000*12*17mm	5M*3	60M	1.18	14.16	15.64	

NMT1312(Side Bend) 顶弯

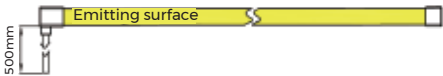
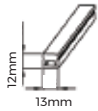


Structure Parameters:

结构参数:



Note: L=5000/10000mm



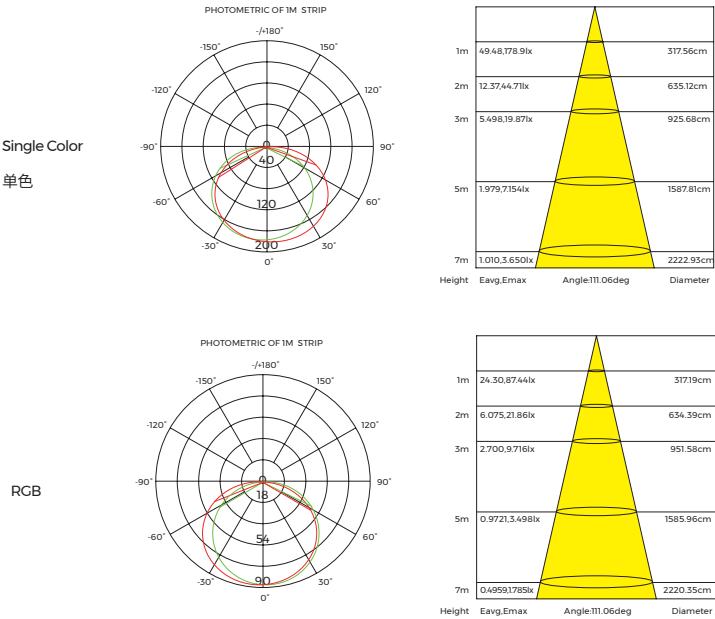
Basic Parameters 产品参数:

Model 规格型号	CCT/Colors 色温/颜色	CRI 显指	Input voltage 输入电压	Rated current 额定电流 (A)	Rated power 额定功率 (W)	Lumens 流明 (LM)	Size 尺寸 (mm)	Max.length 最大长度	Cutting unit 裁剪单元 (mm)	Beam angle 光束角	IP 等级
NMT1312-8XX24CSN050CCXXX	2300K	>80	24V	0.4	9.6	550	W13*H12	5000mm & 10000mm	50	115°	IP67
	2700K					600					
	3000K					600					
	4000K					620					
	4500K					620					
NMT1312-0X24CSN050CC0500	R 620-630nm	/	24V	0.34	8	/		5000mm			
	G 525-530nm					/					
	B 465-470nm					/					
	Y 587-592nm					/					
NMT1312-0RGB24CSN050CC0500	RGB	/	24V	0.5	12	/					
	R 620-630nm					/					
	G 525-530nm					/					
	B 465-470nm					/					

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 ±10%;
3、 he above parameters are all typical values

Light Distribution:

配光曲线:

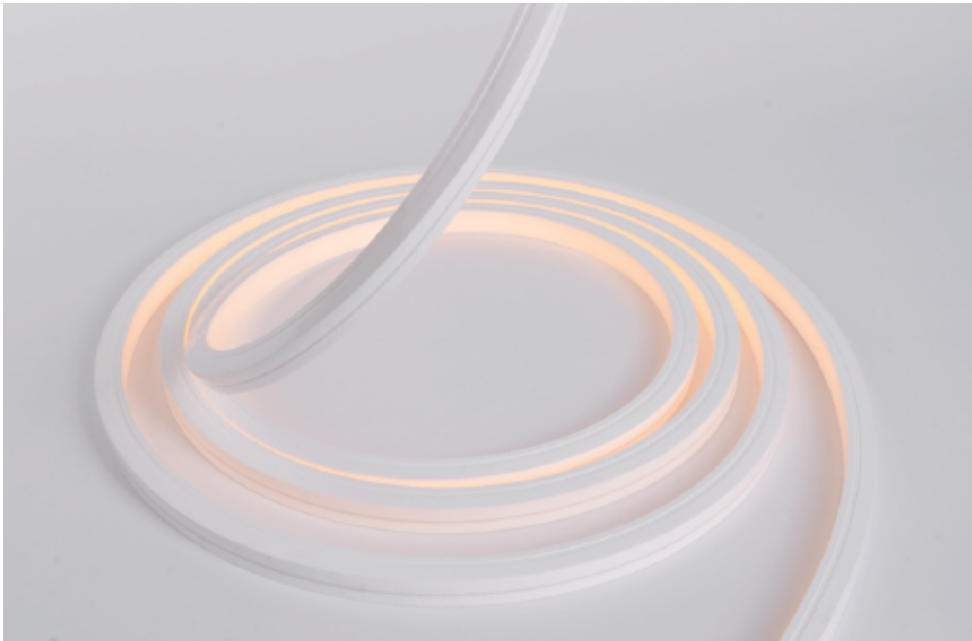


Packaging Solutions:

包装方案:

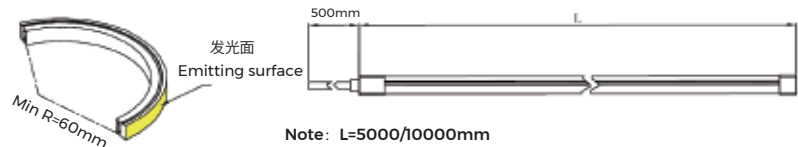
Name	Bending direction	Product size	Product Quantity/box	Product Quantity/case	Product net weight (kg)	Net weight per box (kg)	Gross weight (kg)	Carton size
NMT1312-8XX24CSN050CCXXX	Top view	L5000*13*12mm	5M*4	80M	0.88	14.08	15.56	0.41*0.41*0.26M
		L10000*13*12mm	10M*2	80M	1.74	13.92	15.4	
NMT1312-0X24CSN050CC0500		L5000*13*12mm	5M*4	80M	0.88	14.08	15.56	
NMT1312-0RGB24CSN050CC0500		L5000*13*12mm	5M*4	80M	0.88	14.08	15.56	

NMT1515(Top Bend) 顶弯

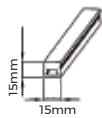


Structure Parameters:

结构参数：



Note: L=5000/10000mm



Basic Parameters 产品参数：

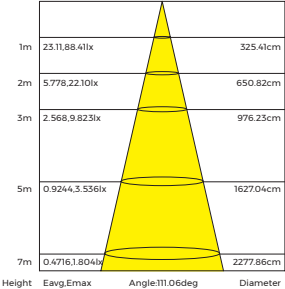
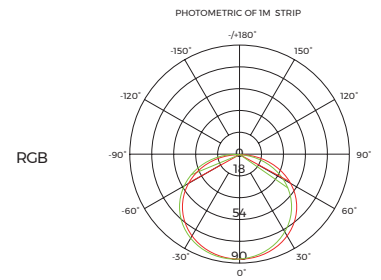
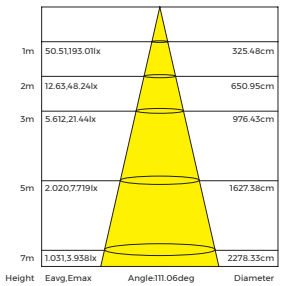
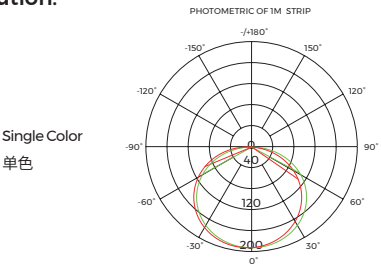
Model 规格型号	CCT/Colors 色温/颜色	CRI 显指	Input voltage 输入电压	Rated current 额定电流 (A)	Rated power 额定功率 (W)	Lumens 流明 (LM)	Size 尺寸 (mm)	Max.length 最大长度	Cutting unit 裁剪单元 (mm)	Beam angle 光束角	IP 等级						
NMT1515-8XX24CSN050CCXXXX	2300K	>80	24V	0.4	9.6	520	W15*H15	5000mm & 10000mm	50	115°	IP67						
	2700K					580											
	3000K					590											
	4000K					580											
NMT1515-0X24CSN050CC0500	R 620-630nm	/	24V	0.34	8	/		5000mm									
	G 525-530nm					/											
	B 465-470nm					/											
	Y 587-592nm					/											
NMT1515-0RGB24CSN050CC0500	RGB	/	24V	0.5	12	/											
	R 620-630nm																
	G 525-530nm																
	B 465-470nm																

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 ±10%;
3. he above parameters are all typical values

Light Distribution:

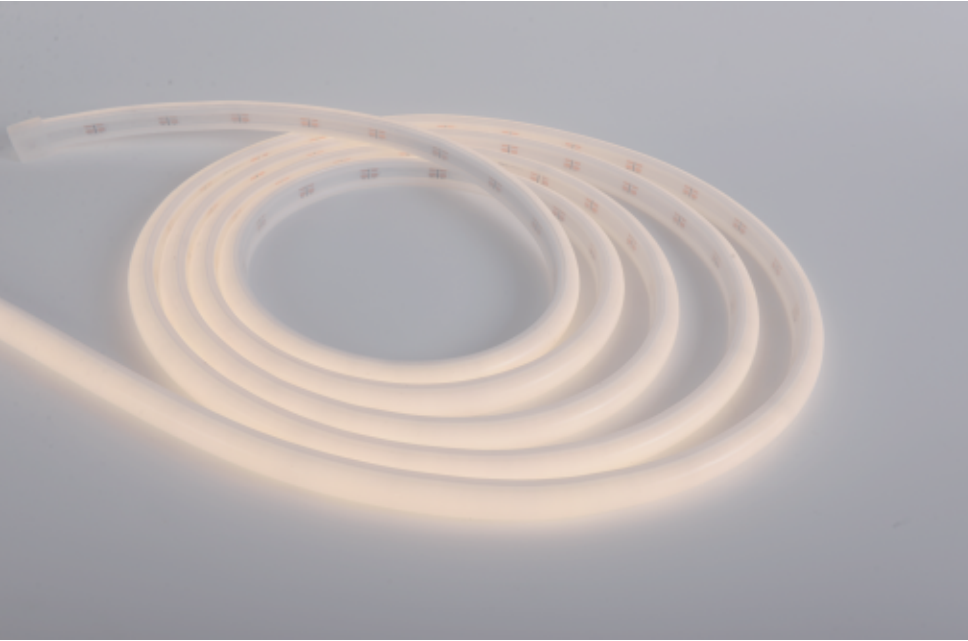
配光曲线：



Packaging Solutions: 包装方案：

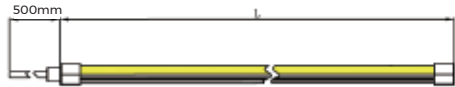
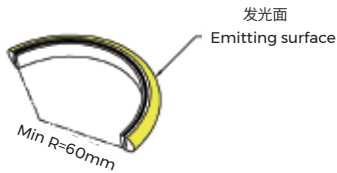
Name	Bending direction	Product size	Product Quantity/box	Product Quantity/case	Product net weight (kg)	Net weight per box (kg)	Gross weight (kg)	Carton size
NMT1515-8XX24CSN050CCXXXX	Top view	L5000*15*15mm	5M*3	60M	1.24	14.88	16.36	0.41*0.41*0.26M
		L10000*15*15mm	10M*1	40M	2.53	10.12	11.6	
NMT1515-0X24CSN050CC0500		L5000*15*15mm	5M*3	60M	1.24	14.88	16.36	
NMT1515-0RGB24CSN050CC0500		L5000*15*15mm	5M*3	60M	1.24	14.88	16.36	

NNT1615(Top Bend) 顶弯

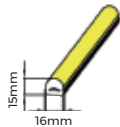


Structure Parameters:

结构参数:



Note: L=500/15000mm



Basic Parameters: 产品参数:

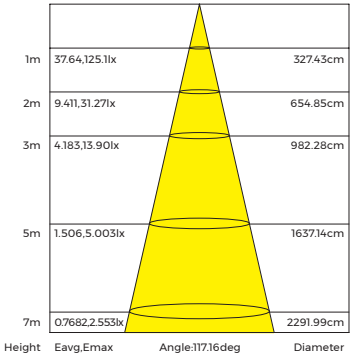
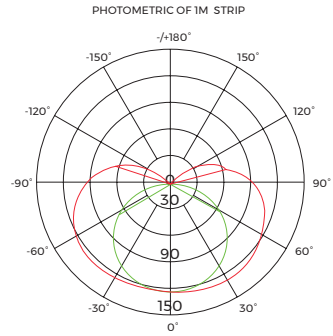
Model 规格型号	CCT/Colors 色温/颜色	CRI 显指	Input voltage 输入电压	Rated current 额定电流 (A)	Rated power 额定功率 (W)	Lumens 流明 (LM)	Size 尺寸 (mm)	Max.length 最大长度	Cutting unit 裁剪单元 (mm)	Beam angle 光束角	IP 等级
NNT1615-8XX24CSN050CC1500	2300K	>80	24	0.459	11	750	W16*H15	15000mm	41.66	160°	IP67
	2700K					780					
	3000K					800					
	3700K					820					
	5000K					800					
NNT1615-0RGB24CSN050CC0500	RGB	/	24	0.6	14.4	/	W16*H15	5000mm	50	160°	IP67

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 $\pm 10\%$;
3. he above parameters are all typical values

Light Distribution:

配光曲线:



Packaging Solutions: 包装方案:

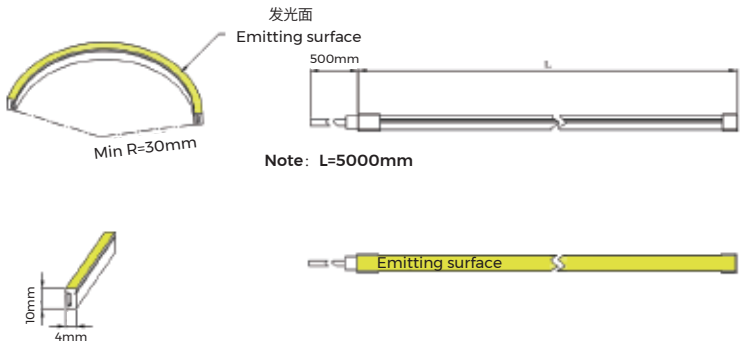
Name	Bending direction	Product size	Product Quantity/box	Product Quantity/case	Product net weight (kg)	Net weight per box (kg)	Gross weight (kg)	Carton size
NNT1615-8XX24CSN050CC1500	Top view	L15000*16*15mm	15M*1	60M	3.15	12.6	14.08	0.41*0.41*0.26M

NTS0410 (Side Bend) 侧弯



Structure Parameters:

结构参数:



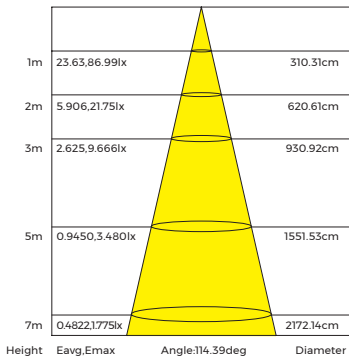
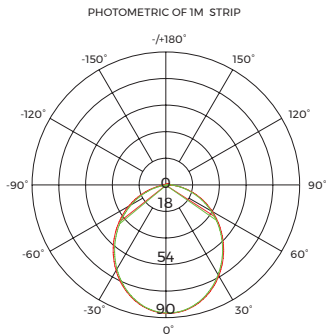
Basic Parameters: 产品参数:

Model 规格型号	CCT/Colors 色温/颜色	CRI 显指	Input voltage 输入电压	Rated current 额定电流 (A)	Rated power 额定功率 (W)	Lumens 流明 (LM)	Size 尺寸 (mm)	Max.length 最大长度	Cutting unit 裁剪单元 (mm)	Beam angle 光束角	IP 等级
NTS0410-8XX24NDN050CC0500	2300K	>80	12/24V	0.6/0.3	7.2	240	W4*H10	5000mm	17.86/41.7	115°	IP65
	2700K					290					
	3000K					300					
	4000K					300					
	R	/									
	G	/									
	B	/									
	Y	/									

- 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 ±10%;
 - 3、he above parameters are all typical values

Light Distribution:

配光曲线:



Packaging Solutions: 包装方案:

Name	Bending direction	Product size	Product Quantity/box	Product Quantity /case	Product net weight (kg)	Net weight per box (kg)	Gross weight (kg)	Carton size
NTS0410-8XX24NDN050CC0500	Side view	L5000*4*10 mm	5M*8	150M	0.289	8.67	10.15	0.5*0.29*0.29M

Main Application 主要应用领域

Highly reflective material 高反射材质



Direct-view luminous surface 直视发光面



Optical groove with high brightness 高亮度光槽



Shape 造型



Twist 扭曲



Bend 弯折



Outdoor step 户外台阶



Temperature difference 温差



Bridge 桥梁



Cold region 苦寒



Tropical desert 热带沙漠



Ice sculpture 冰雕雪夜



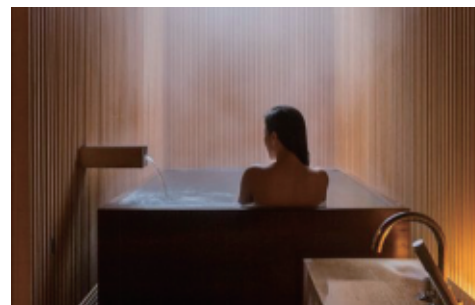
Exterior wall 外墙



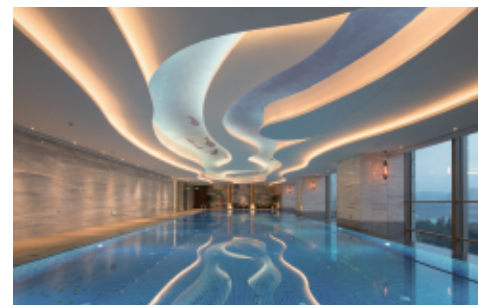
Bathroom 卫浴



Sauna Room 桑拿房



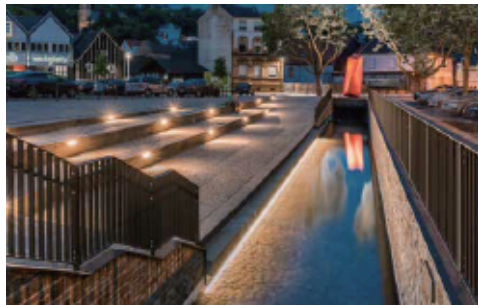
Swimming pool 泳池



Landscape 景观



Waterscape 水景



Cruise ship 邮轮



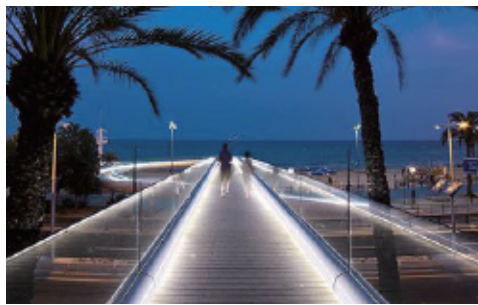
Entertainment for festivals 娱乐节庆



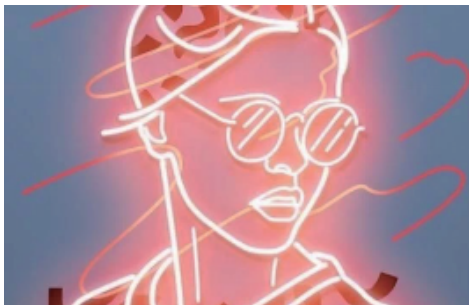
Building outline 建筑轮廓



Seaside park 海滨公园



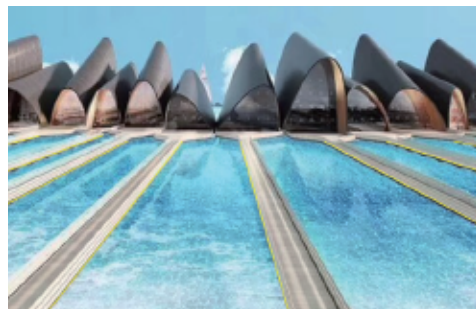
Artistic installation 艺术装置



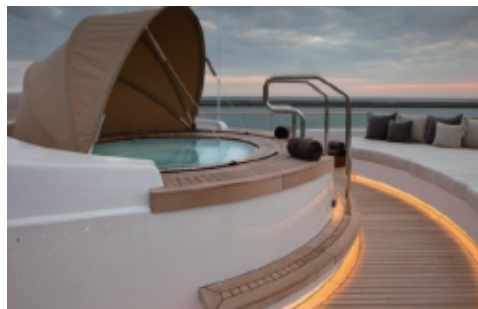
Sign 图文标识



Seaside building 滨海建筑



Seaside facility 海滨设施



City landmark 城市地标



Outline 轮廓勾勒



Chemical industry 化工



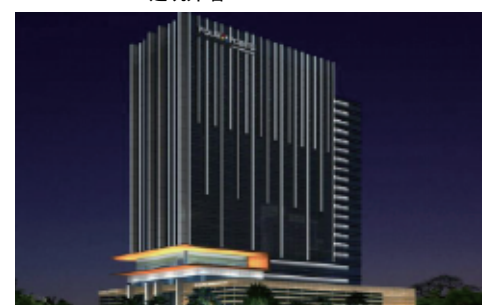
Mine 矿井



Bridge landscape 桥梁景观



Exterior wall 建筑外墙

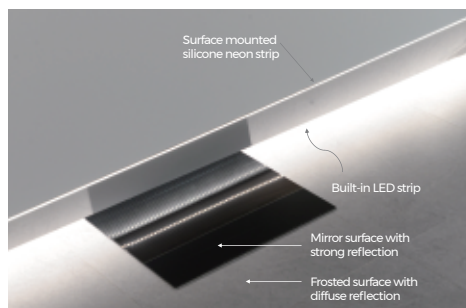


10 Reasons to Buy 十大购买理由!

Uniform Lighting

发光均匀

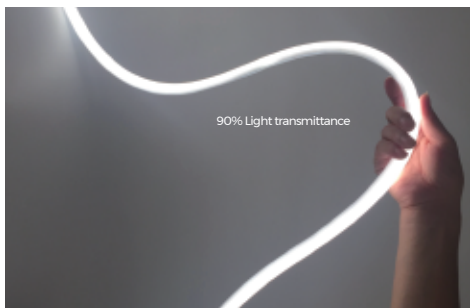
Uniform Lighting, dot-free, direct-view surface, used for highly reflective material, featuring a glossy environment free from dazzling.



High light transmittance

透光率高

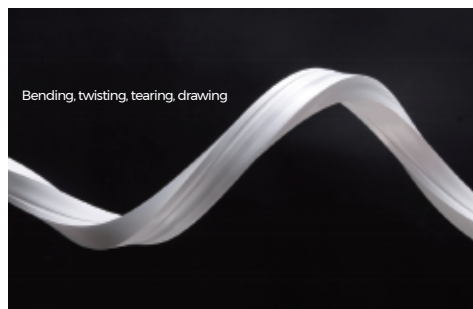
High light transmittance up to 90%, can meet the requirements of high lumens output, and it's not only used for decoration but also lighting.



Good flexibility

柔韧性好

Reliable structure with good flexibility, adopting solid silicone, customizing internal structure and external form by mould. It can be bent and twisted, suitable for various shapes, with resistance to tear and draw, it is not easy to damage and deform with good flexibility.



Outstanding weather resistance

耐候性优

Outstanding weather resistance, storing in the environment between -50 °C and +150 °C, it can maintain the normal-soft state, without embrittlement, deformation, softening and aging. And using in the environment between -20 °C and +45 °C, it can operate normally resisting extremely cold and high heat.



Resistance to corrosion

耐腐蚀

Featuring resistance to corrosion, the silicone can resist corrosion of normal salt, alkali and acid, can be used for special environments such as beach, yacht, chemical industry, petroleum, mine and laboratory.



Good protective performance

IP防护佳

Good protective performance, the main body of product and standard outlet end cap can be used in the environment up to IP67 standard, and can pass the laboratory test standards of IP68



High thermal conductivity

导热性强

High thermal conductivity, the thermal conductivity of silicone is 0.27W/MK, better than the "0.14W/MK" of PVC, and the strip features longer effective heat dissipation life.



Resistance to UV

抗UV

Featuring resistance to UV, the extrusion silicone can be used outdoor environment for long-term exposure to direct sunlight, no yellowing and aging over 5 years.



High substitutability

替代性强

Featuring high substitutability, can achieve various lighting effects such as white light, RGB and digital toning, it can replace the neon tube, guardrail tube, rainbow tube and so on for signage lighting/architectural lighting/landscape lighting.



Flame-retardant and environmental

阻燃环保

It is environmental and non-toxic, with high ignition point, non-flammable in needle-flame burning, and without irritating toxic gases volatilizing (not like PVC), which is more secure.



Product certification

产品测试认证

Experimental Test of Silicone Neon Strip

硅胶霓虹灯带实验测试



QR code of the video



视频二维码

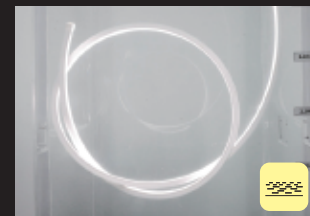
Performance Feature

性能特征

Weather resistance of material 材料耐候性

Silicone material features resistances to saline solutions, acid & alkali, corrosive gases, fire and UV

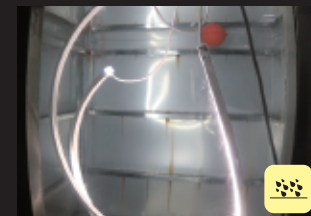
硅胶材料具有耐盐液、酸碱，防气体腐蚀，防火，抗UV特性



Acids alkali test 酸碱测试



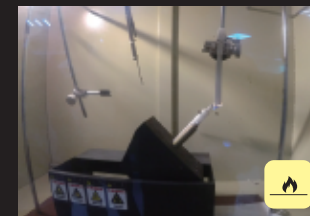
Dust proof test 防尘测试



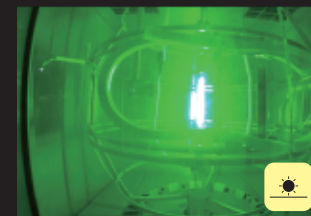
Waterproof test 防水测试



Gas test 气体测试



Needle flame test 针焰测试

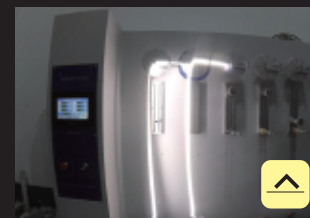


Anti-UV test UV测试

Reliability of structure 结构可靠性

The tests show that the structure has good reliability by mechanically simulating the actual conditions through bending, twisting and drawing.

通过弯折、扭曲、拉拔等多项机械模拟实际使用环境测试，结构具有良好的可靠性



Bending test 弯折测试



Twist test 扭曲测试



Drawing test 拉拔测试

Final Test Report 终测报告

NMT1312(Top Bend)

Product information

Parameters (Primary testing model)					
Size	13*12*5000mm	Weight	853g	Driver	Constant voltage
Length	5m	IP	IP67	LED	SMD2835
Amount	Finished 10pcs + Semi-finished 0pcs + Driver 0pcs + FPCB 0pcs				
Input (parameters of 1m)	Voltage	DC	Standard	24.0V	
			Min	23.5V	
			Max	24.5V	
	Current		Standard	0.400A	
			Min	0.358A	
			Max	0.442A	

Photo



Test reference specification

Reliability testing standard of LED strip, module

Product specification

The marked is the reference standard of this test

Content

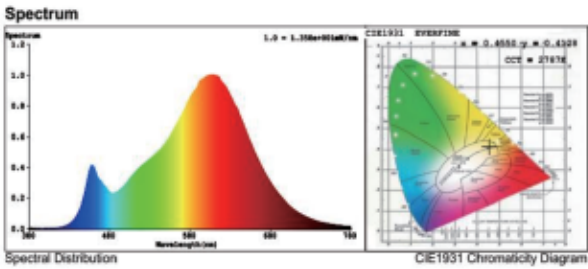
Result declaration: P--PASS; F--FALSE; N/A--Non-associative; N/T--Not test

No.	Testing items		Result declaration	Note
1	Optical features tests	1.1 Optical features tests & energy efficiency requirements	P	
3	Mechanical performance	2.1 Bending test	P	
10	Reliability test	3.1 Thermal shock test	P	
11		3.2 High temperature aging test	P	
12		3.3 High temperature storage test	P	
13		3.4 Low temperature storage test	P	
14		3.5 Normal TEMP aging 1000h test	P	
16	Destructive test	4.1 Over voltage test/ Under-voltage test	P	

1.Optical features tests & energy efficiency requirements

1.1 Photo-electric parameters							
Pass N/A Fail N/T							
Items	Input current	Input Voltage	Input power	Power factor	Lumen	Efficiency	X
1	0.400	24.0	9.60	1.000	636.3	66.28	0.4550
Standard of the specification	0.358~0.442	23.5~24.5	8.6~10.6	1.000	>450	>50	/

1.1 Photo-electric parameters							
Pass N/A Fail N/T							
Y	CCT	CRI	SDCM	Max luminous intensity	Beam angle	Illumination	EEL
0.4128	2787	83.0	/	/	/	/	/
/	2700	>80	/	/	/	/	/



2.Mechanical performance

2.1 Bending test				
Pass N/A Fail N/T				
Reel diameter	Bending times	Appearance	Performance after test	P(W)
12cm	20	No damage	Normal	44.88
Note: The length of sample is 5m, bending 10 times in each direction				

Direction 1



Direction 2



3.Reliability test

3.1Thermal shock test			☒ Pass ☐ N/A ☐ Fail ☐ N/T			
Test condition	Put the LED strip into the testing box, each cycle is 100℃（30min）～-40℃（30min）, take it out after testing 100 times. Check whether the appearance of the LED strip is damaged and whether it can be lit normally after the normal temperature is restored					
Items	Input power(W)	CCT(K)		LM/m		
0H	8.6	2738		524		
100H	8.67	2707		521		
TEMP retention	100.8%	98.9%		99.4%		

Note: The appearance is no damage after testing and can be lit normally. The length of sample is 0.9m

3.2High temperature aging test		☒ Pass ☐ N/A ☐ Fail ☐ N/T	
Test condition	Aging at 60℃, the instantaneous value is tested when is storage after 168h and the normal temperature is restored.		
Items	Input power(W)	CCT(K)	LM/m
0H	9.2	2751	547
168H	8.99	2745	546
TEMP retention	98%	100%	100%

Note: The appearance is no damage after testing and can be lit normally. The length of sample is 0.95m.

3.3High temperature storage test		☒ Pass ☐ N/A ☐ Fail ☐ N/T	
Test condition	The instantaneous value is tested when is storage after 168h under 85℃.		
Items	Input power(W)	CCT(K)	LM/m
0H	9	2752	550
100H	9.1	2725	546
TEMP retention	101%	99%	99%

Note: The appearance is no damage after testing and can be lit normally. The length of sample is 0.95m.

3.4Low temperature storage test			☒ Pass	☐ N/A	☐ Fail	☐ N/T
Test condition	The instantaneous value is tested when is storage after 168h under -45℃.					
Items	Input power(W)	CCT(K)		LM/m		
0H	8.96	2750		542		
100H	9	2760		552		
TEMP retention	100%	100%		102%		

Note: The appearance is no damage after testing and can be lit normally. The length of sample is 0.95m.

3.5Normal TEMP aging 1000h test		☒ Pass ☐ N/A ☐ Fail ☐ N/T			
Test condition	Aging 1000h under normal temperature				
Testing result	The appearance of 5m LED strip is no damage after the aging, and can be lit normally, the power is 44.64W				

4.Destructive test

4.1Over voltage test/Under-voltage test		☒ Pass ☐ N/A ☐ Fail ☐ N/T		
Input Voltage		Times	Situation	Result
Over voltage	1.1xRated voltage	2h	Light,26.4V/0.5A	Recoverable
Under-voltage	0.9xRated voltage	2h	Light,21.6V/0.28A	Recoverable

Note : The length of sample is 0.95m.



NMS1217(Side Bend)

Product information

Parameters (Primary testing model)					
Size	1217*5000mm	Weight	1076g	Driver	Constant voltage
Length	5m	IP	IP67	LED	SMD2835
Amount	Finished 10pcs + Semi-finished 0pcs + Driver 0pcs + FPCB 0pcs				
Input (parameters of 1m)	Voltage	DC	Standard	24.0V	
			Min	23.5V	
			Max	24.5V	
	Current		Standard	0.400A	
			Min	0.358A	
			Max	0.442A	

Photo



Test reference specification

Reliability testing standard of LED strip, module

Product specification

The marked is the reference standard of this test

Content

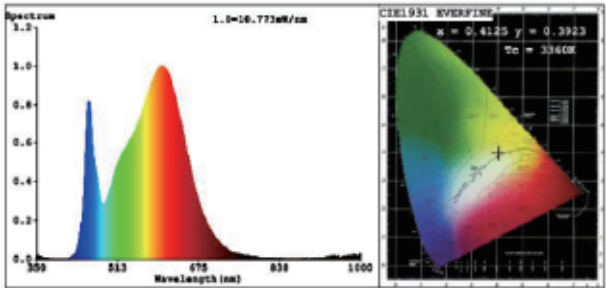
Result declaration: P--PASS; F--FALSE; N/A--Non-associative; N/T--Not test

No.	Testing items		Result declaration	Note
1	Optical features tests	1.1 Optical features tests & energy efficiency requirements	P	
3	Mechanical performance	2.1 Bending test	P	
10	Reliability test	3.1 Thermal shock test	P	
11		3.2 High temperature aging test	P	
12		3.3 High temperature storage test	P	
13		3.4 Low temperature storage test	P	
14		3.5 Normal TEMP aging 1000h test	P	
16	Destructive test	4.1 Over voltage test/ Under-voltage test	P	

1.Optical features tests & energy efficiency requirements

1.1 Photo-electric parameters Pass N/A Fail N/T							
Items	Input current	Input Voltage	Input power	Power factor	Lumen	Efficiency	X
1	0.433	24.0	10.39	1.000	561.0	54.08	0.4125
Standard of the specification	0.358~0.442	23.5~24.5	8.6~10.6	1.000	>450	>50	/

1.1 Photo-electric parameters Pass N/A Fail N/T							
Y	CCT	CRI	SDCM	Max luminous intensity	Beam angle	Illumination	EEL
0.3923	3360	84.1	/	/	/	/	/
/	3500	>80	/	/	/	/	/



2.Mechanical performance

2.1 Bending test Pass N/A Fail N/T				
Reel diameter	Bending times	Appearance	Performance after test	P(W)
12cm	20	No damage	Normal	48
Note: The length of sample is 5m, bending 10 times in each direction				

Direction 1



Direction 2



3.Reliability test

3.1Thermal shock test Pass N/A Fail N/T			
Test condition	Put the LED strip into the testing box, each cycle is 100 C (30min) ~-40 C (30min), take it out after testing 100 times. Check whether the appearance of the LED strip is damaged and whether it can be lit normally after the normal temperature is restored		
Items	Input power(W)	CCT(K)	LM/m
0H	10.39	3364	559
100H	10.39	3283	549
TEMP retention	100.0%	97.6%	98.2%

Note: The appearance is no damage after testing and can be lit normally.

3.2High temperature aging test Pass N/A Fail N/T			
Test condition	Aging at 60 C, the instantaneous value is tested when is storage after 168h and the normal temperature is restored.		
Items	Input power(W)	CCT(K)	LM/m
0H	10.26	3330	488
168H	10.19	3305	483
TEMP retention	99%	99%	99%

Note: The appearance is no damage after testing and can be lit normally.

3.3High temperature storage test Pass N/A Fail N/T			
Test condition	The instantaneous value is tested when is storage after 168h under 85 C.		
Items	Input power(W)	CCT(K)	LM/m
0H	10.27	3366	554
100H	10.34	3304	558
TEMP retention	101%	98%	101%

Note: The appearance is no damage after testing and can be lit normally.

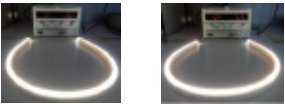
3.4Low temperature storage test Pass N/A Fail N/T			
Test condition	The instantaneous value is tested when is storage after 168h under -40 C.		
Items	Input power(W)	CCT(K)	LM/m
0H	10.29	3338	499
100H	10.32	3358	501
TEMP retention	100%	101%	100%

Note: The appearance is no damage after testing and can be lit normally.

3.5Normal TEMP aging 1000h test Pass N/A Fail N/T	
Test condition	Aging 1000h under normal temperature
Testing result	The appearance of 5m LED strip is no damage after the aging, and can be lit normally, the power is 47.04W

4.Destructive test

4.1Over voltage test/Under-voltage test Pass N/A Fail N/T				
Input Voltage		Times	Situation	Result
Over voltage	1.1xRated voltage	2h	Light,26.4V/0.58A	Recoverable
Under-voltage	0.9xRated voltage	2h	Light,21.6V/0.32A	Recoverable



Certification
证书

CE



UL



Gas corrosion 气体腐蚀



Aging of xenon lamp 氙灯老化



Bend 弯折



IP67



IP67



IP65



Twist 扭曲



Bend 弯折

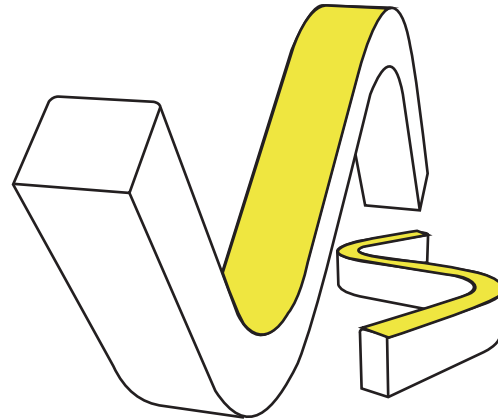


Needle Flame 针焰



Using Guidance

产品使用指南



Installation Video

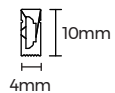


安装视频

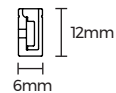
Side bend

侧弯

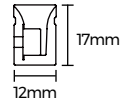
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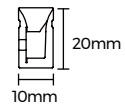
NMS0612



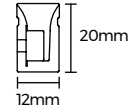
NMS1217



NMS1020



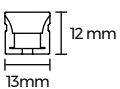
NTS1220



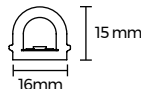
Top bend

顶弯

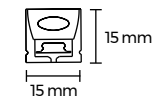
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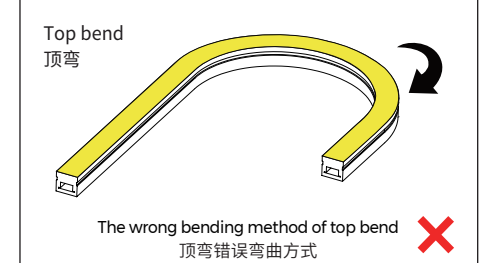
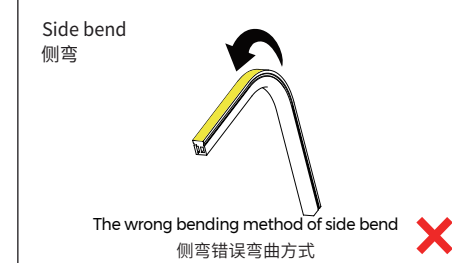
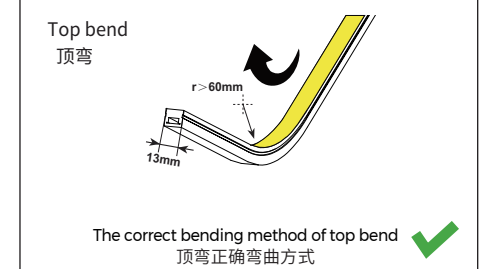
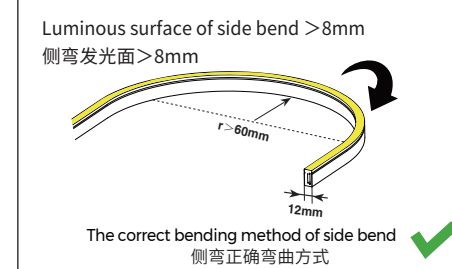
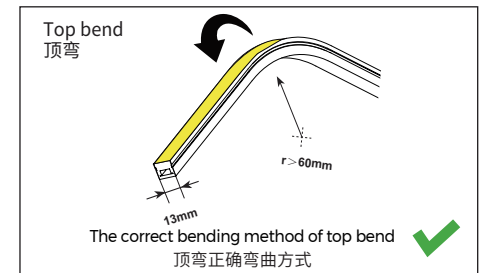
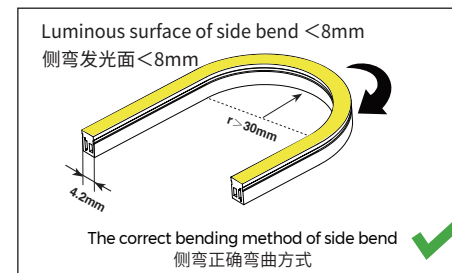
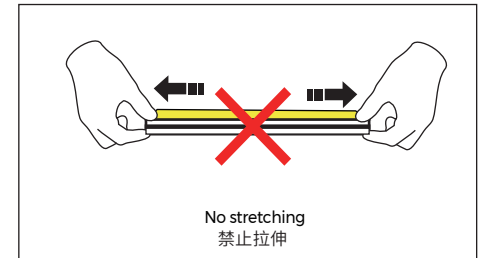
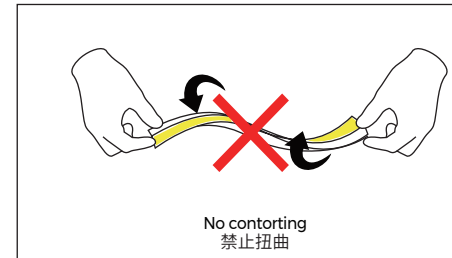
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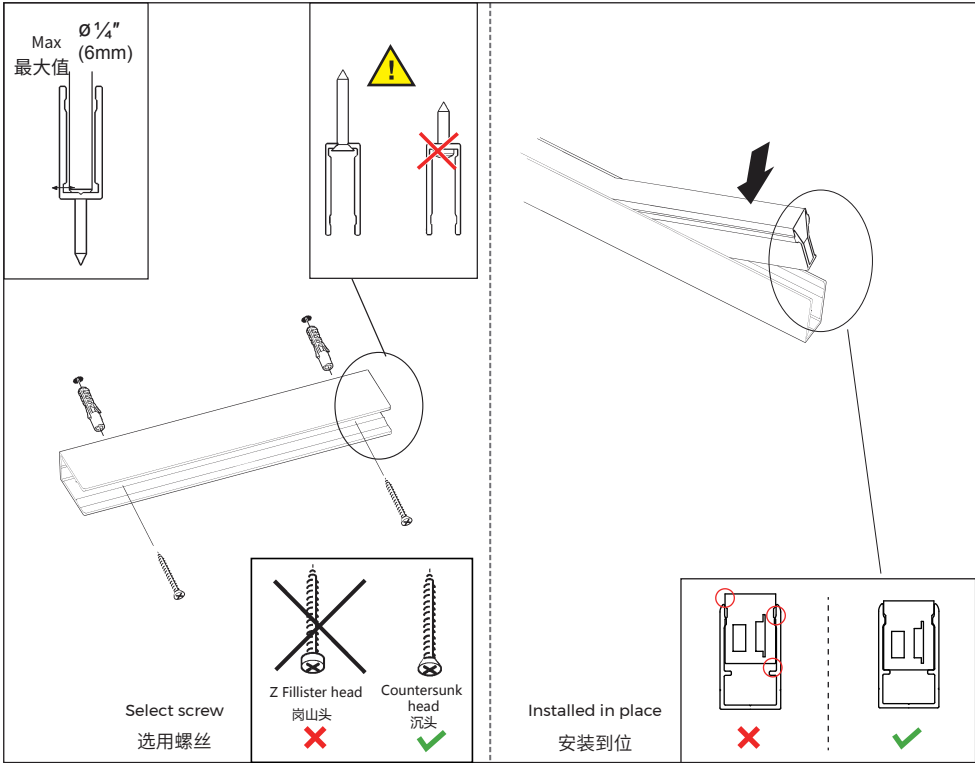
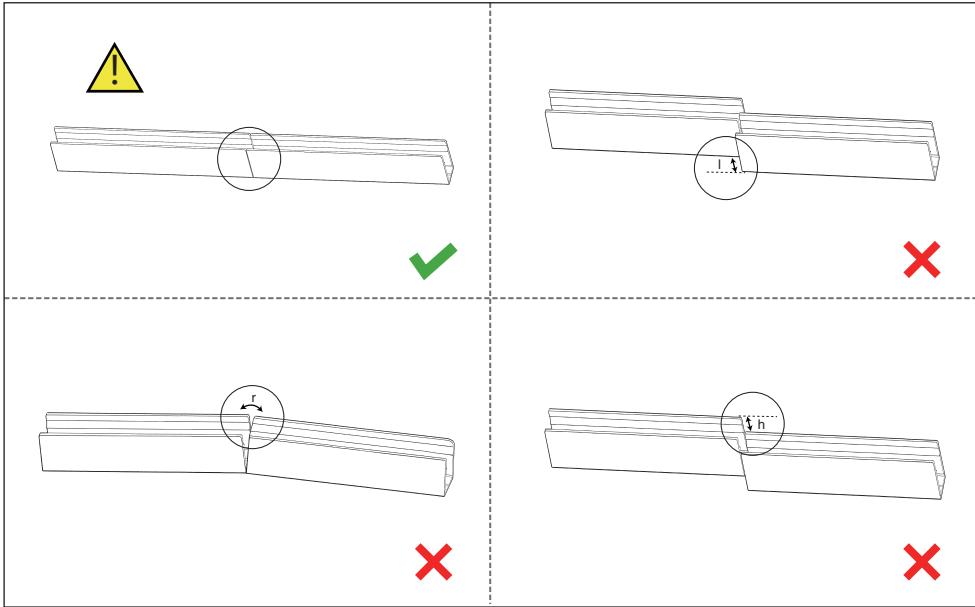
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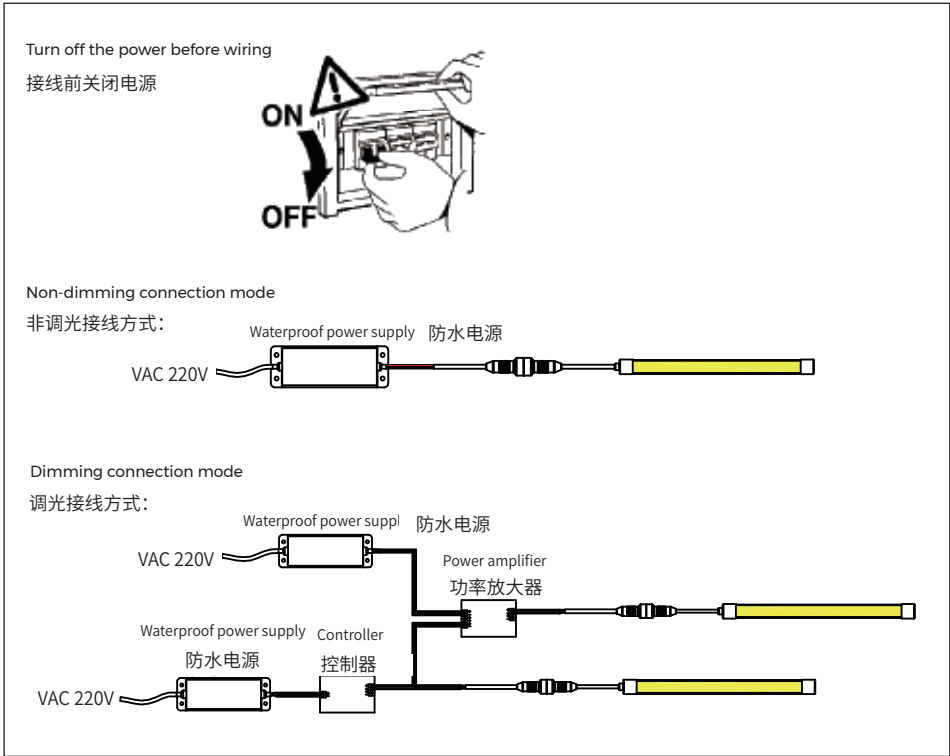
Precautions before installation 安装前注意事项:



Straight installation 直线安装方式



Wiring diagram 接线示意图



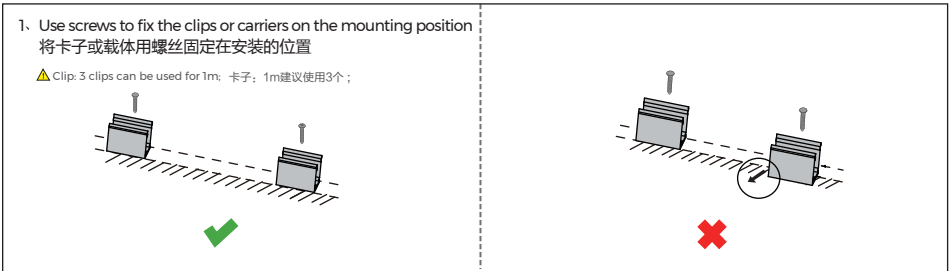
Notices

1. The products are subject to thermal expansion as a result of the changes in temperature to which they are subject. This thermal expansion must be taken into account in installations subject to a wide range of temperature.
2. Clean the screens exclusively using water and methylated spirits.
3. IP65/IP67 protection on the product and the continuous line system with IP68 connectors.
4. Product is not suitable for use in swimming pools and fountains

注意事项

- 1、由于温度变化的原因，这些产品会受到热膨胀的影响。在温度变化范围大的环境中安装必须考虑到热膨胀的问题。
- 2、专门使用水和甲基化酒精清洁表面
- 3、产品达到IP65/IP67防护等级，以及使用IP68防护接口的连续线系统。
- 4、产品不适用于泳池和喷水池

Installation of clip 卡子的安装方式



Installation of carrier 载体的安装方式

1. When installing the LED strip, install it from both ends at the same time, installation from one direction is prohibited. 安装灯带时从两端同时进行安装操作，禁止从一个方向开始安装	⚠ If the length of LED strip is over 2m, it is recommended to install by two persons. 灯带超过2m建议2个人安装
2. Use tool to disassemble carefully, and do not pull the LED strip directly. 拆卸时应用工具小心处理，禁止直接将灯带拉扯出	⚠ If the length of LED strip is over 2m, it is recommended to disassemble by two persons. 灯带超过2m建议2个人拆卸

Cutting method 剪切方法

Operations of LED strip cutting, welding and plug installing 霓虹灯带裁剪、焊接、堵头安装的操作方式

1. Cut out the LED strip to required length 将灯带裁剪到需要尺寸 ⚠ The minimum cutting unit should be subject to the mark of LED strip 最小裁剪单位以灯带的标注为准	2. Expose the copper foil of the LED strip (cut the rubber mass at the side of the LED strip) 将灯带的一端铜箔（灯带侧面胶体切开）露出
--	---

3. Connect the wires with the LED strip (pay attention to positive and negative poles) 将线材与灯带连接（注意正负极）	4. Put the plug with a hole into the wires and inject glue into the plug 将有孔堵头穿进线材，胶水注入堵头内 ⚠ The amount of glue should be 1/3 to 1/2 of the plug 胶水量为堵头的1/3至1/2
5. Push the plug into the LED strip 将堵头推进灯带 ⚠ After injecting glue, the LED strip should be placed horizontally for two hours until the plug surface is dry, and then to finish the operation of plug end. 注胶后灯带需平放2小时待堵头表干后才能进行堵尾工程作业	6. Fill the end of LED strip with filler, then push the plug into the end of LED strip 将灯带的尾部四周涂上填充胶，再将堵头推入灯带的尾部 ⚠ After injecting glue, the LED strip should be placed horizontally for two hours until the LED strip is dry, then finish the next operation, and it will be completely dry after 24 hours 注胶后需静置平放2小时待表干后可进行工程作业，24小时完全干透

Notices

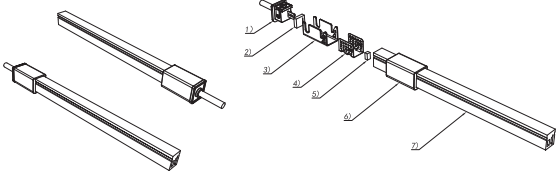
- Only the parts with cutting marks can be cut when it is necessary to cut the silicone neon strip according to the on-site installing length;
- Use a 24V DC isolated power supply to drive the silicone neon strip and the ripple wave of constant voltage source shall be less than 5%. It is not allowed to use RC voltage reduction or non-isolated power supply to drive the silicone neon strip.
- When connecting silicone neon strips in series, one test should be made for each section to promptly find out whether the positive and negative poles are incorrectly connected;
- Attention should 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.
- Silicone neon strip should be placed in a dry and sealed environment. It is suggested that the storage period cannot be too long. Working temperature: -20°C~ +45°C; storage temperature: 0°C~ +60°C
- LED has unilateral conductivity. If a power line with a DC/AC converter is used, an energization test should be done first after connecting power supply to ensure that the positive and negative poles are connected correctly;
- 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;
- On the premise of required direction (the top view is not same as the side view), please do not bend the strip into an arc with a diameter less than 60mm to ensure the longevity and reliability.

注意事项:

- 1、据现场安装长度需裁剪霓虹灯带时，只能在有裁剪标示线处剪开；
- 2、使用24VDC隔离电源驱动霓虹灯带，且恒压源的纹波小于5%，不能使用阻容式降压、非隔离电源驱动霓虹灯带；
- 3、霓虹灯带相互串联时，每连接一段，即试点亮一段，以便及时发现正负极是否接错；
- 4、安装的过程注意电源线的正负极，切勿接错，电源与产品的电压是否一致，以免造成产品损坏；
- 5、霓虹灯带应存放在干燥密封的环境，建议存放期不超过一年，工作温度：-20℃ ~ +45℃,贮存温度0℃ ~ +60℃；
- 6、LED具有单向导电性，若使用带有交直流转换器的电源线，应在完成电源连接后，先进行通电试验，确定正负极连接正确后再投入使用；
- 7、实际的应用中，电源应预留20%的余量（建议只使用80%的功率），以保证足量的电压驱动产品；
- 8、注意小心操作，在电源接通的情况下，切勿触及交流电源端，以防触电；
- 9、保证霓虹灯带的寿命和可靠性，需要在指定方向（顶弯和侧弯不一样），并在半径30/60mm以上的弧度进行弯曲。

Installation of end cap 堵头安装方式

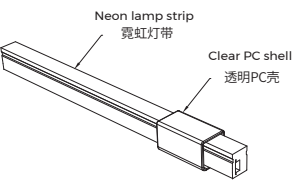
The explosive drawing of the solder-free waterproof connector
免焊防水堵头分解详图



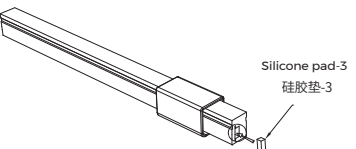
7	Neon lamp strip 霓虹灯带
6	Clear PC shell 透明PC壳
5	Silicone pad-3 硅胶垫-3
4	U-shape teeth clip U型齿夹
3	U-shape metal clip U型钢夹
2	Silicone pad-1 硅胶垫-1
1	Connector_head 插针堵头-端面出线
No.	Name 品名

The installation instruction of the solder-free waterproof connector 免焊防水堵头安装步骤说明

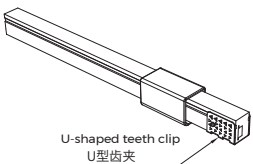
1、Set the PC shell through the neon lamp strip;
套入透明PC管



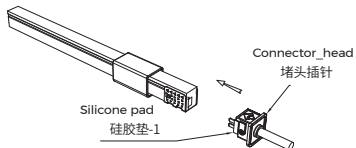
2、Insert the silicone pad-3 into the hole of the Neon strip;
在霓虹灯带截面缺口处嵌入硅胶垫-3



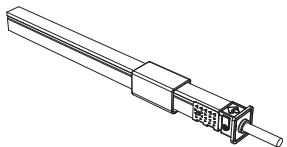
3、Install the U-shaped teeth clip in place;
U型齿夹安装到位



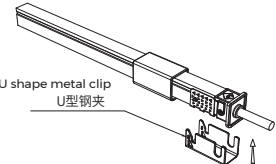
4、Install the silicone pad on the terminal of the connector;
硅胶垫套入堵头插针



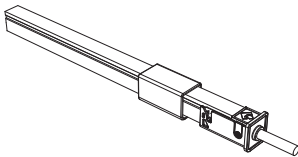
5、Connector plug in Neon lamp strip contact with FPCB back soldering spot;
插针堵头插入灯带与FPCB背面焊盘接触



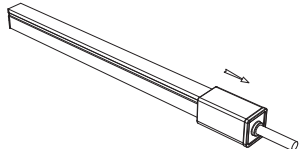
6、The U-shaped clip is inserted from the back of the lamp strip;
U型钢夹从灯带背面从下向上套入



7、U-shaped clip installed in place as shown in the figure;
U型钢夹安装到位



8、The clear PC shell is sleeved and fixed well to finish the whole installation;
透明PC管滑动套入固定，完成整个免焊防水接头的安装



Notice:

- 1. The other wire out direction of the connector and end cap follow this installation steps;
- 2. Make sure the section of the lamp strip flat and no protrusion, then can guarantee the reliable waterproof effect after installation;
- 3. This installation instruction is suitable for all of the solder-free connectors with similar structures.

备注说明:

- 1、其他出线方向的堵头和堵尾都同此安装步骤；
- 2、霓虹灯带截面平整，灯带无突出，才能保证安装后可靠的防水效果；
- 3、此安装步骤说明适合所有类似结构款的免焊防水端子。

Product Warranty Description

- 1、A warranty period of three years is provided for products in normal use. For any faults arising during the period that are confirmed to be quality related by inspection of the company, a product of the same model will be replaced for free.
- 2、The warranty does not cover any of the following:
 - (1) Any product damage due to usage not allowed in the instructions;
 - (2) Any product damage due to disassembling or wrong operations by the user;
 - (3) Severe appearance damage or deformation of the product.

产品质保说明

- 1、在正常使用条件下，产品质保三年，在保用期内、产品发生故障，经本公司检验属于质量问题，将免费予以更换相同型号的产品。
- 2、下列情况之一者，不在保用范围内：
 - (1) 不按说明书要求使用而损坏产品的情况；
 - (2) 用户拆开内部零件操作不当而损坏产品的情况；
 - (3) 产品外形严重损坏或变形的情况。

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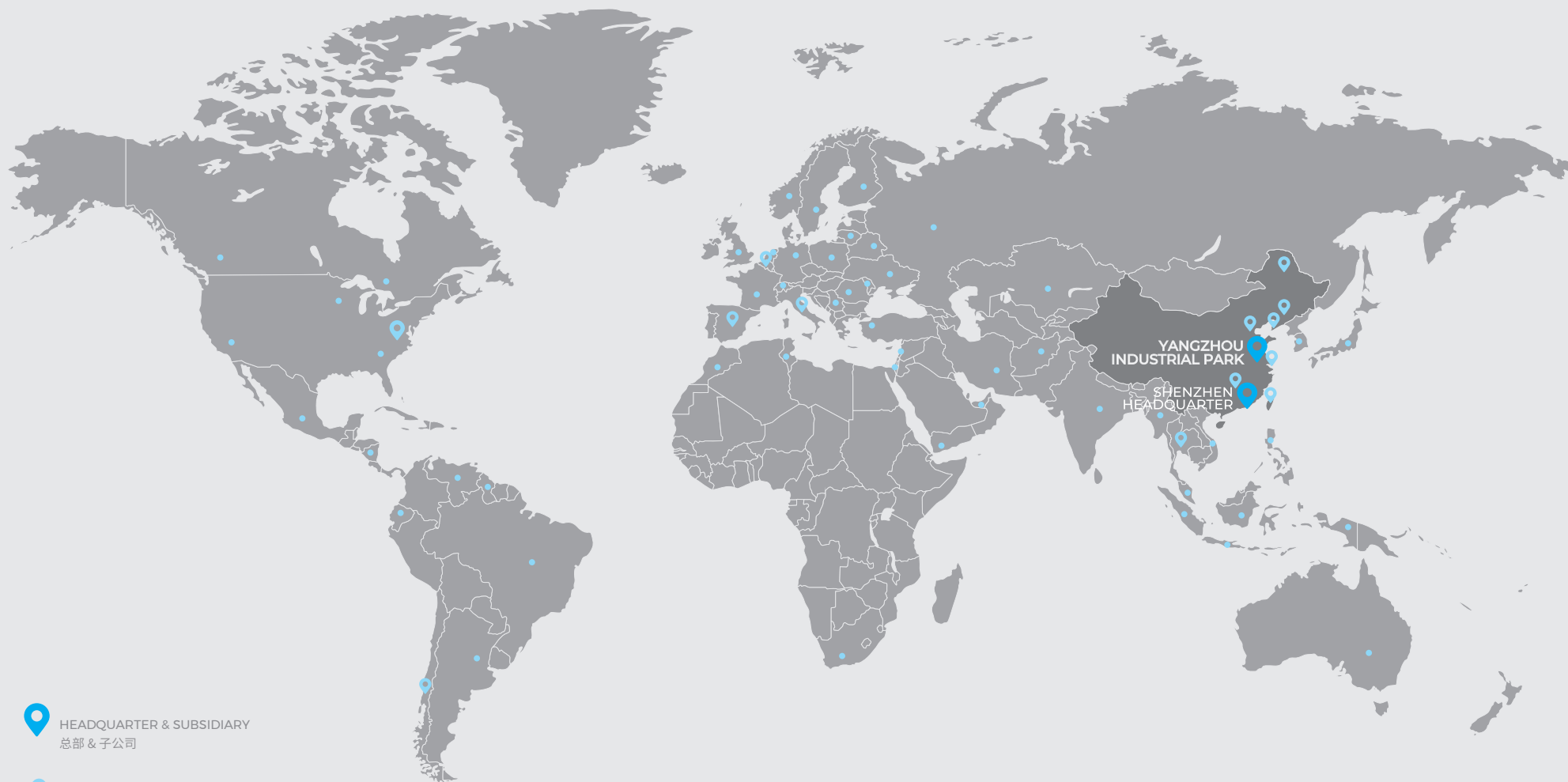
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