

Technical data

CODE: 6123730 6122750 6122760 6122770 6122790

PRODUCT: LED FLEX NEON DE1217

NOTE: TECHNICAL DATA

IMAGE:

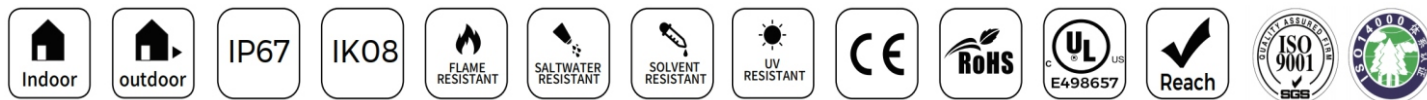


LAST UPDATE:

9/2021



LED FLEX NEON DE1217



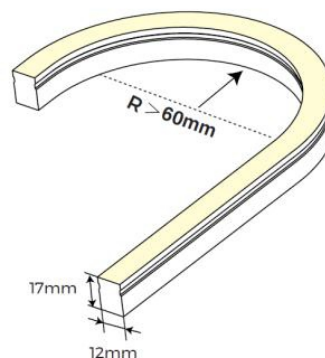
Features:

- Light source: High luminous efficiency, SMD2835, 2735, 2110, 4040 and 5050, 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: -20~ 55°C / 0°C~60°C.
- 3 years warranty (2 years for digital), life span over 36000 hours.

Applications:

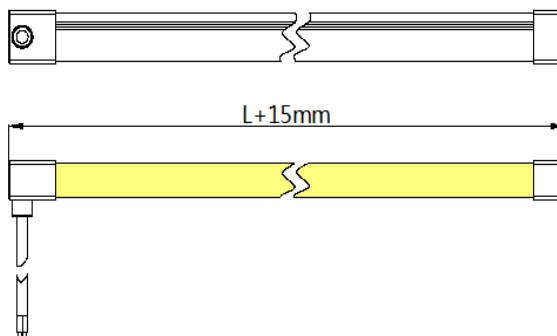
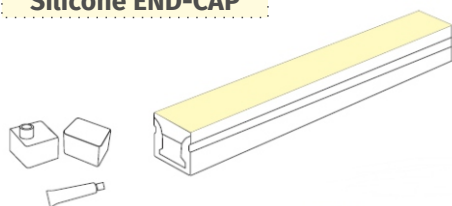
- Signage lighting
- Outdoor/ indoor lightning
- Architectural contour lighting
- Waterproof lighting

Product bending application

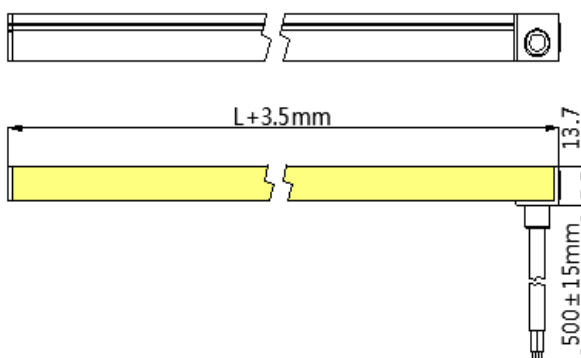
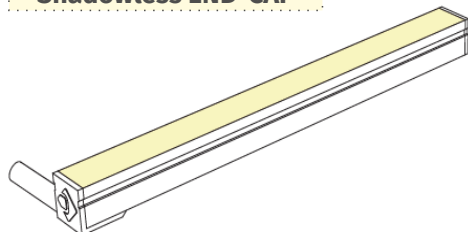


Product's protective technology & structure size

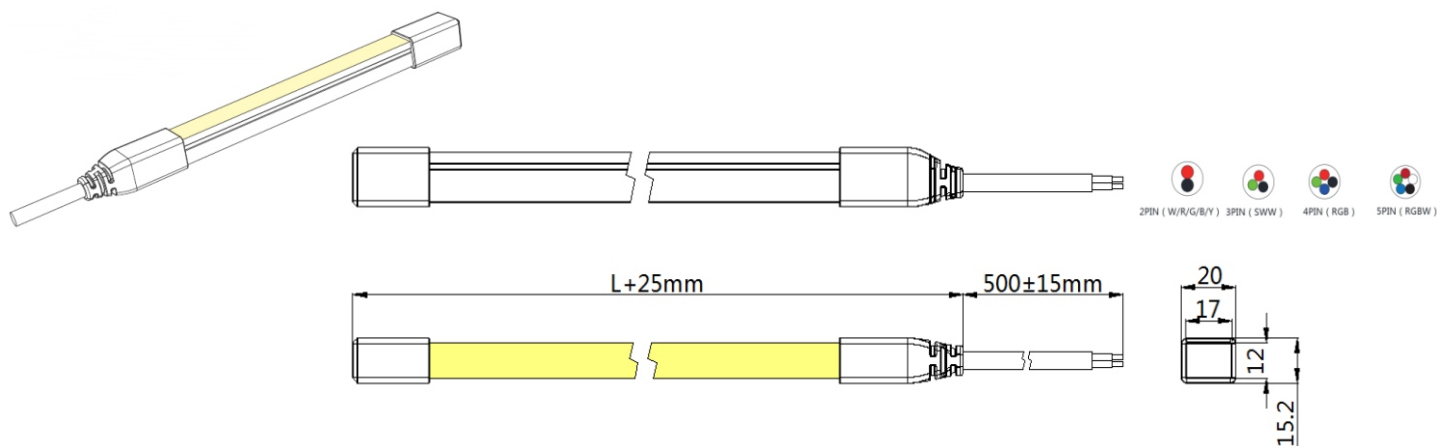
Silicone END-CAP



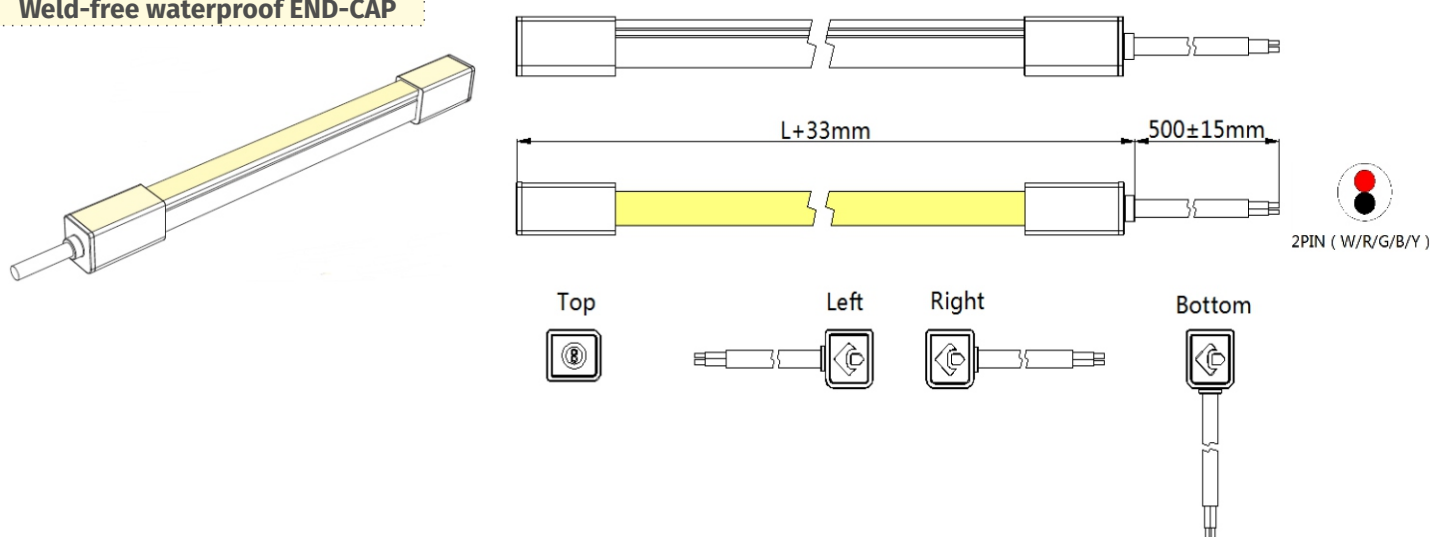
Shadowless END-CAP



Full protective END-CAP



Weld-free waterproof END-CAP



Basic parameters

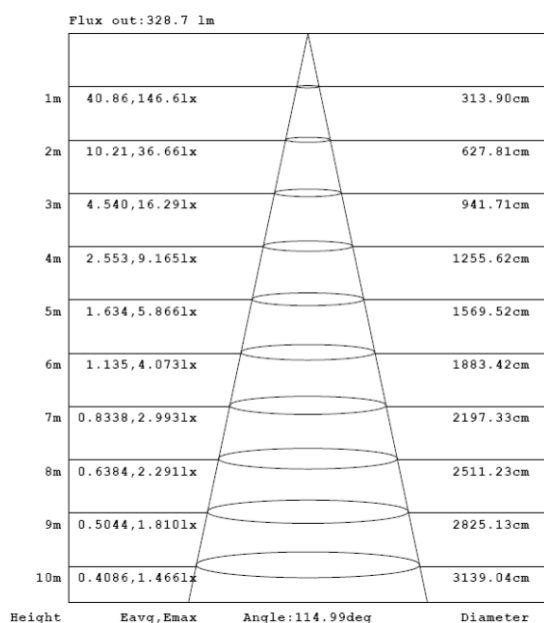
CCT/ colors	CRI	Input voltage	Rated current	Rated power	Lumens (LM)	Size (mm)	Max. length (mm)	Cutting unit
2 300 K	>80/90	24 V	0,4 A	9,6 W	510	W 12 x H 17	5000 x 10000	50
2 700 K	>80/90	24 V	0,4 A	9,6 W	520	W 12 x H 17	5000 x 10000	50
3 000 K	>80/90	24 V	0,4 A	9,6 W	520	W 12 x H 17	5000 x 10000	50
4 000 K	>80/90	24 V	0,4 A	9,6 W	520	W 12 x H 17	5000 x 10000	50
6 000 K	>80	24 V	0,4 A	9,6 W	460	W 12 x H 17	5000 x 10000	50
R 620-630 nm	-	24 V	0,34 A	8 W	-	W 12 x H 17	5000 x 10000	50
G 525-530 nm	-	24 V	0,34 A	8 W	-	W 12 x H 17	5000 x 10000	50
B 465-470 nm	-	24 V	0,34 A	8 W	-	W 12 x H 17	5000 x 10000	50
Y 587-592 nm	-	24 V	0,34 A	8 W	-	W 12 x H 17	5000 x 10000	50

CCT/ colors	CRI	Input voltage	Rated current	Rated power	Lumens (LM)	Size (mm)	Max. length (mm)	Cutting unit
RGB	-	24 V	0,5 A	12 W	-	W 12 x H 17	5000	83
R 620-630 nm	-	24 V	0,5 A	12 W	-	W 12 x H 17	5000	83
G 525-530 nm	-	24 V	0,5 A	12 W	-	W 12 x H 17	5000	83
B 465-470 nm	-	24 V	0,5 A	12 W	-	W 12 x H 17	5000	83
RGB ~ 2 700 K	-	24 V	0,6 A	14,4 W	-	W 12 x H 17	5000	62,5
RGB ~ 3 500 K	-	24 V	0,6 A	14,4 W	-	W 12 x H 17	5000	62,5
RGB ~ 4 000 K	-	24 V	0,6 A	14,4 W	-	W 12 x H 17	5000	62,5
RGB ~ 5 000 K	-	24 V	0,6 A	14,4 W	-	W 12 x H 17	5000	62,5
2 300 ~ 4 000 K	>80/90	24 V	0,5 A	12 W	650	W 12 x H 17	5000	100
2 700 ~ 6 000 K	>80/90	24 V	0,5 A	12 W	650	W 12 x H 17	5000	100

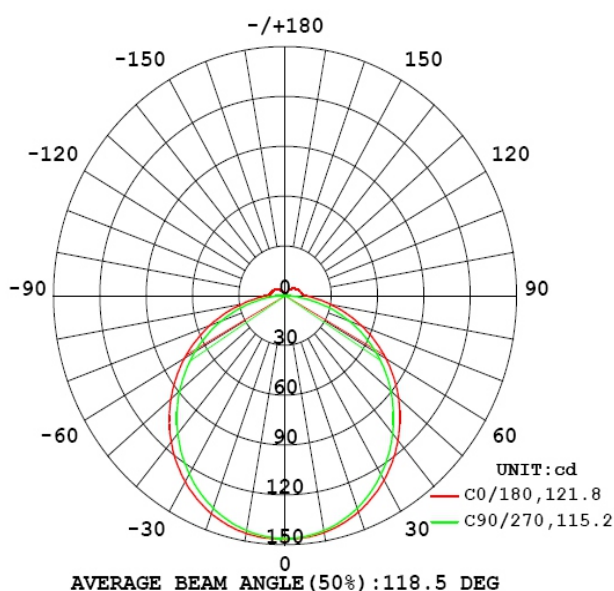
Note:

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

Light distribution



Effective average illuminance

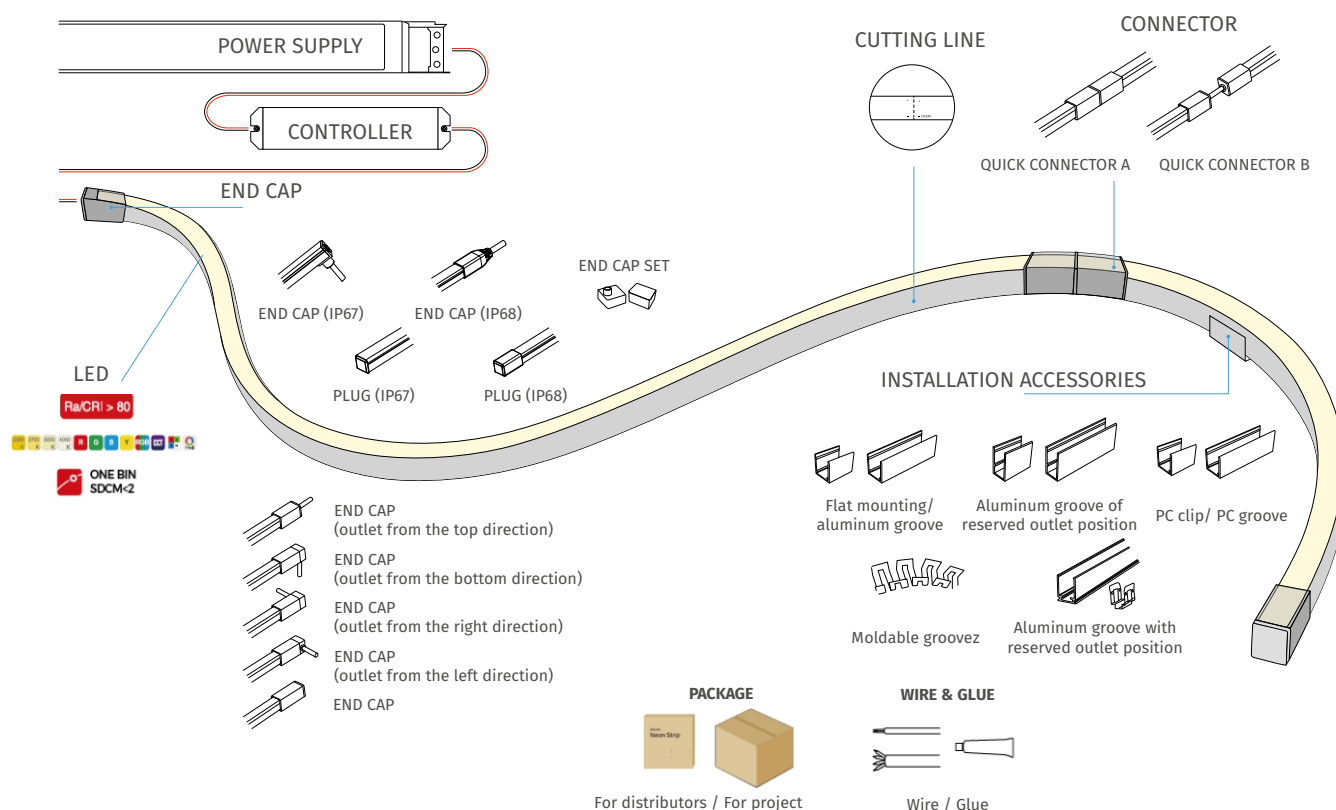


Light distribution

Note:

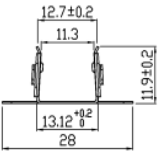
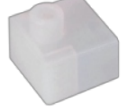
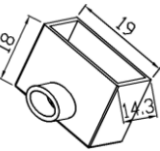
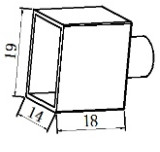
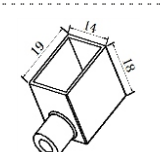
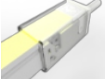
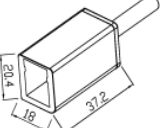
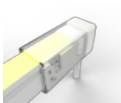
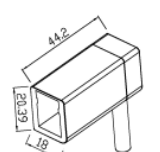
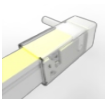
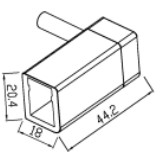
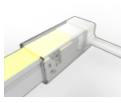
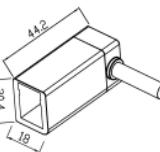
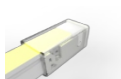
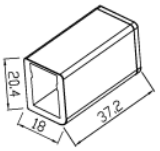
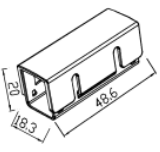
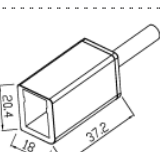
The above data is the testing result of CCT 4000 K, if there is need for the IES files of other colors, please download the specific file through the IES data bank.

System solution



Accessory information

Name	Description	Image	Selectional size	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			12	0,159	1,9908	3,0408	1290*112*50	Size: L1000*W14,4*H18,85 mm with screws
ALUMINUM CLIP	Flat mounting of clip			350	0,004	2,205	2,355	250*250*150	Size: L25*W14,4*H18,85 mm with screws
ALUMINA CARRIER	Aluminum groove reserved outlet position			8	0,1755	1,4592	2,5092	1290*112*50	Size: L1000*W14,4*H24,85 mm with screws
ALUMINUM CLIP	Clip of reserved outlet position			300	0,0044	2,01	2,16	250*250*150	Size: L25*W14,4*H24,85 mm with screws
ALUMINA CARRIER	Pre-installed alluminium groove			12	0,17	2,25	3,2	1290*112*50	Size: L1000*W15,8*H21 mm with screws 5 clips for 1 m
PC CARRIER	Flat mounting PC groove			12	0,08	1,0428	2,0928	1290*112*50	Size: L1000*W14,6*H19,35 mm with screws
PC CARRIER	Flat mounting of PC clip			350	0,004	1,505	1,655	250*250*150	Size: L25*W14,6*H19,35 mm with screws

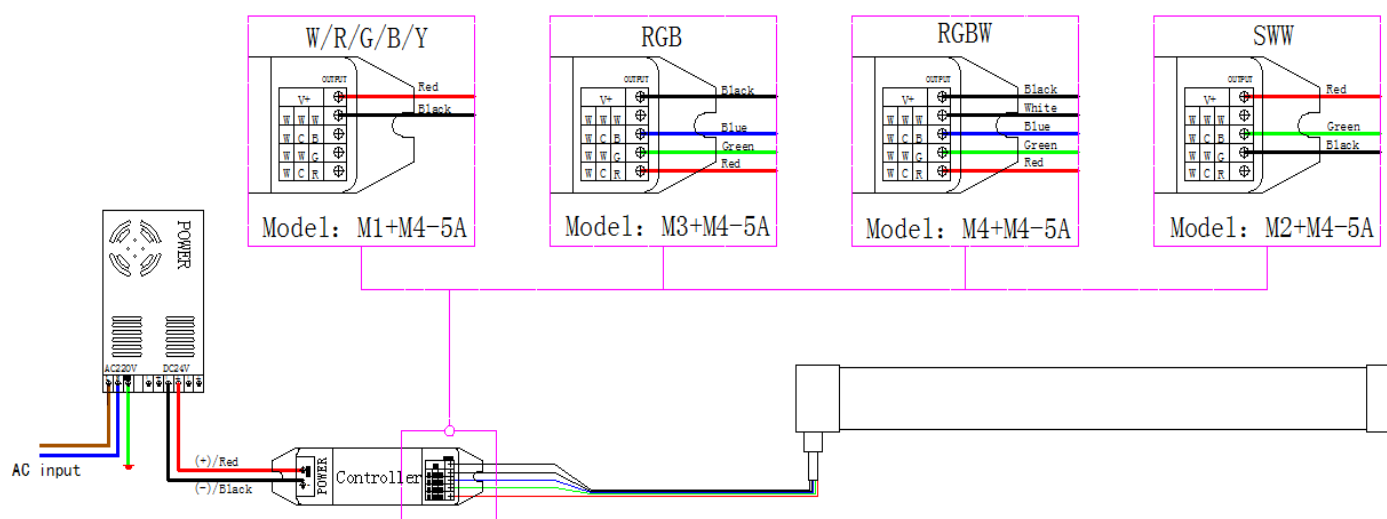
Name	Description	Image	Selectional size	Product quantity/ case (PCS)	Product quantity/ case (kg)	Net weight per box (kg)	Gross weight (kg)	Gross weight (mm)	Remark
MOLDABLE CARRIER	Moldable groovez			100	0,0377	3,77	6,49	500*290*290	Size: L500*W13,1*H11,9 mm with screws
END CAP SET	End cap set, including end cap and plug (outlet from the left direction)			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)			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)			400	0,0035	1,4	1,7	250*250*150	-
SOLDERING-FREE WATERPROOF END CAP	Quick connector (outlet from the top direction)			48	0,048	2,3	4,115	365*365*190	Outlet lenght 500 mm / IP67
SOLDERING-FREE WATERPROOF END CAP	Quick connector (outlet from the bottom direction)			48	0,048	2,3	4,115	365*365*190	Outlet lenght 500 mm / IP67
SOLDERING-FREE WATERPROOF END CAP	Quick connector (outlet from the left direction)			48	0,048	2,3	4,115	365*365*190	Outlet lenght 500 mm / IP67
SOLDERING-FREE WATERPROOF END CAP	Quick connector (outlet from the right direction)			48	0,048	2,3	4,115	365*365*190	Outlet lenght 500 mm / IP67
SOLDERING-FREE WATERPROOF END CAP	Quick connector (end cap)			48	0,035	1,68	3,495	365*365*190	IP67
SOLDERING-FREE WATERPROOF CONNECTOR	Quick connector (without wire)			96	0,028	2,688	2,96	365*365*190	IP67
SOLDERING-FREE WATERPROOF CONNECTOR	Quick connector (with wire in the middle)			48	0,058	2,784	3,062	365*365*190	The middle wire lenght 300 mm IP67

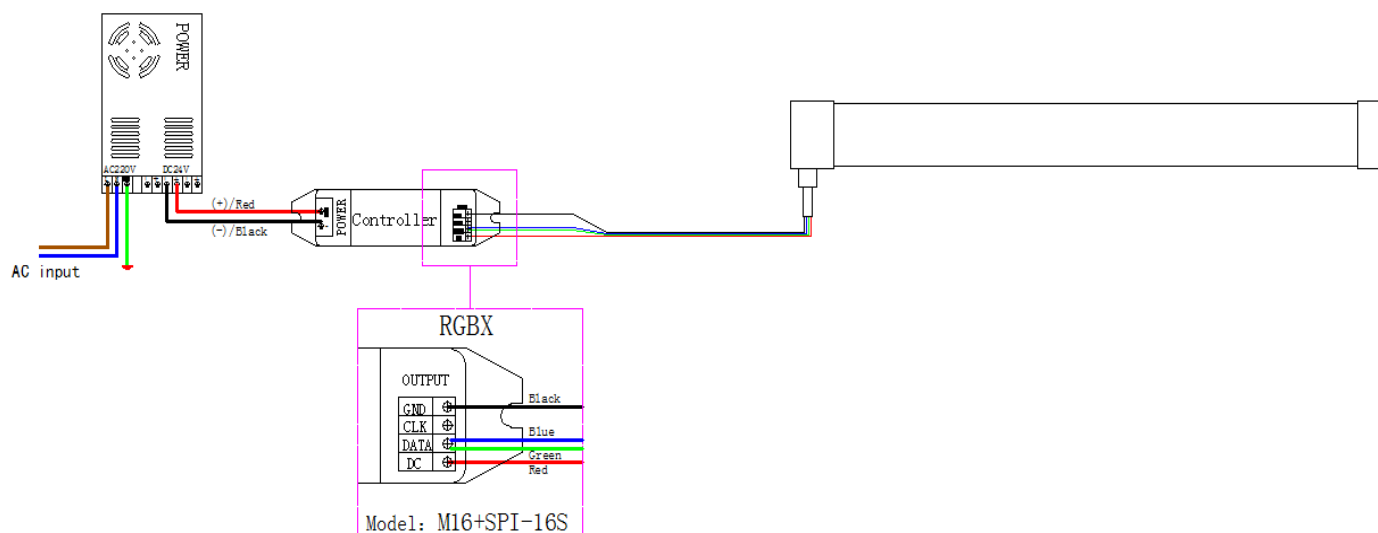
Name	Description	Image	Selectional size	Product quantity/ case (PCS)	Product quantity/ case (kg)	Net weight per box (kg)	Gross weight (kg)	Gross weight (mm)	Remark
GLUE	588G acidic glue		-	150	0,014	2,1	2,4	250*250*150	10 ml/ pcs
WIRE	2P PVC wire (0,5 m)		-	150	0,01541	2,31	2,61	250*250*150	Suitable for single color strip
WIRE	2P PVC wire (2 m)		-	125	0,0616	7,7	8	250*250*150	Suitable for single color strip
WIRE	3P PVC wire (0,5 m)		-	150	0,016	2,4	2,7	250*250*150	Suitable for SWW strip
WIRE	3P PVC wire (2 m)		-	125	0,0656	8,2	8,5	250*250*150	Suitable for SWW strip
WIRE	4P PVC wire (0,5 m)		-	150	0,0194	2,91	3,21	250*250*150	Suitable for RGB strip
WIRE	4P PVC wire (2 m)		-	125	0,0776	9,7	10	250*250*150	Suitable for RGB strip
WIRE	5P PVC wire (0,5 m)		-	150	0,0195	2,925	3,364	250*250*150	Suitable for RGBW strip
WIRE	5P PVC wire (2 m)		-	125	0,0755	9,4375	10,86	250*250*150	Suitable for RGBW strip
CONNECTOR	2PIN IP68 waterproof connector		-	512	0,016	8,192	9,5	365*365*190	Suitable for RGB strip
CONNECTOR	3PIN IP68 waterproof connector		-	512	0,018	9,216	10,2	365*365*190	Suitable for SWW strip
CONNECTOR	4PIN IP68 waterproof connector		-	288	0,03	8,64	9,6	365*365*190	Suitable for RGB strip Suitable for RGBW strip

Solution of controll system

	Name	Model	Parameters	Dimming constant-voltage asseptor	Suitable products
	Single color dimming set	M1+M4-5A	Operating voltage: 3VDC (Battery CR2032) Operating frequency: 433,92 MHz Remote control distance: 30 m Operating temperature: -30°C ~ 55°C	Imput voltage: 12-24 VDC Maximum loaded current: 5A*4CH 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	Operating voltage: 3VDC (Battery CR2032) Operating frequency: 433,92 MHz Remote control distance: 30 m Operating temperature: -30°C ~ 55°C	Imput voltage: 12-24 VDC Maximum loaded current: 5A*4CH 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	Operating voltage: 3VDC (Battery CR2032) Operating frequency: 433,92 MHz Remote control distance: 30 m Operating temperature: -30°C ~ 55°C	Imput voltage: 12-24 VDC 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	Operating voltage: 3VDC (Battery CR2032) Operating frequency: 433,92 MHz Remote control distance: 30 m Operating temperature: -30°C ~ 55°C	Imput voltage: 12-24 VDC Maximum loaded current: 5A*4CH 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	(Parameters of remote controller) Operating voltage: 3VDC (Battery CR2032) Operating frequency: 2,4 GHz Changing mode: 16 Operating temperature: -30°C ~ 55°C	(Dimming constant-voltage acceptor) Imput voltage: 5-24 VDC Output: SPI WIFI: 2,4 GHz Operating temperature: -30°C ~ 55°C Size: L135*W30*H20 mm Package size: L132*W198*H22 mm	Professional for SPI digital strip

Wiring diagram



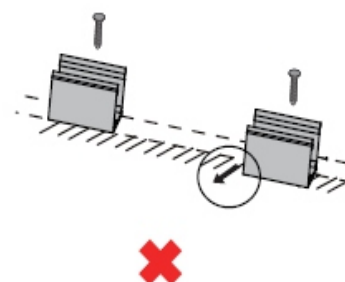
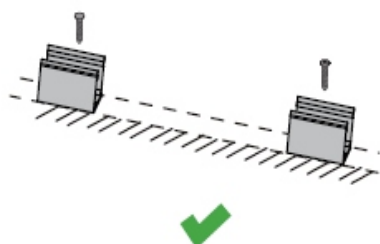


Installation guidance

Installation of clip

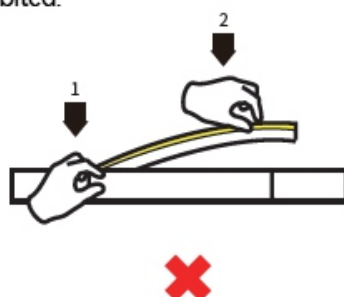
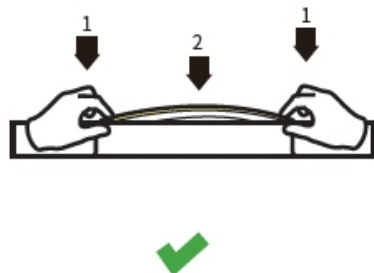
1. Use screws to fix the clips or carriers on the mounting position

⚠ 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.

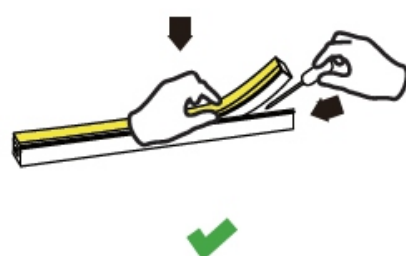


- ⚠ If the length of LED strip is over 2m, it is recommended to install by two persons.

> 2m

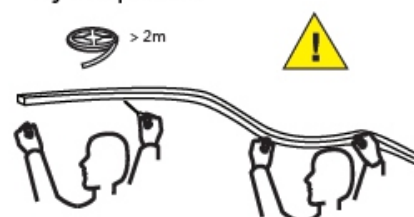


2. Use tool to disassemble carefully, and do not pull the LED strip directly.



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

> 2m



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

Cutting method

