

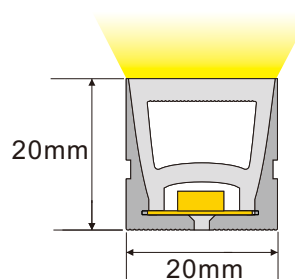
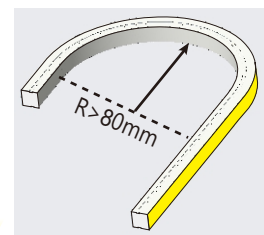
Neon Flex Specification

N020060CB3SF(N2020)-Single sided
N020060CC3SF(N2020)-Single sided



Product Parameter

- 20X20 Shan is lighting the neon light bar, which can be bent up and down;
- Light source: highlights lamp beads;
- Control method: Adopting the SPI signal can achieve animation effects such as flowing water, horse race, jumping, gradients, etc.
- Strengthen anti -interference ability;
- Craft material: high -light transmission and environmental -friendly silicone material, good flexibility of silicone material;
- Optical design: Unique optical light structure design, uniform light on the surface, no shadow,
- The light -free spots, the light is very soft;
- Exterior design: simple and fashionable, exquisite and unique brings better lighting performance to indoor/outside applications;
- Product certification: UL, CE, RoHS;
- Environmental characteristics: salt tolerance, corrosion resistance, flame retardant, UV resistance;
- Work / storage temperature: TA: -25 ~ 55 °C / 0 °C ~ 60 °C;
- Product application: signature lighting, outdoor/interior decoration, architectural contour application;
- 2 years of quality insurance, working life ≥36000 hours.



Photoelectric parameters

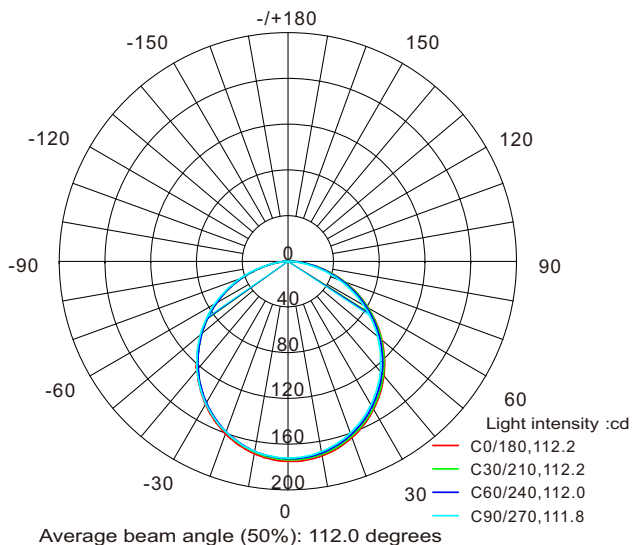
PN	Color	Wavelength	LEDs/m	Pixel/M	Cutting Length	Voltage	Power	Brightness (lm/M)	Standard Length	Max Length
N020060CB3SF (N2020)- Single sided	RGB	R:620-630nm G:520-530nm B:460-470nm	SMD5050 60PCS/m	20Pixel/M WS2811	50mm	DC12V	14.4W/m	R:53lm	5025 ±15mm	10m
								G:128lm		
N020060CC3SF (N2020)- Single sided				10Pixel/M WS2811	100mm	DC24V	14.4W/m	B:20lm		15m

Remarks:

1. The above parameters are tested based on 1M standard products
2. Light flux allows ± 10% of the error range;
3. The above parameters are typical values
4. The length of the conventional neon lamp bars is greater than 5 meters to 15 meters, and power supply is required at both ends
5. If there is a change, do not notify separately.
6. Length tolerance applies. Actual product dimensions may vary.



Product light distribution curve



Light distribution curve

Remarks: The above data is based on monochrome 4000K color temperature

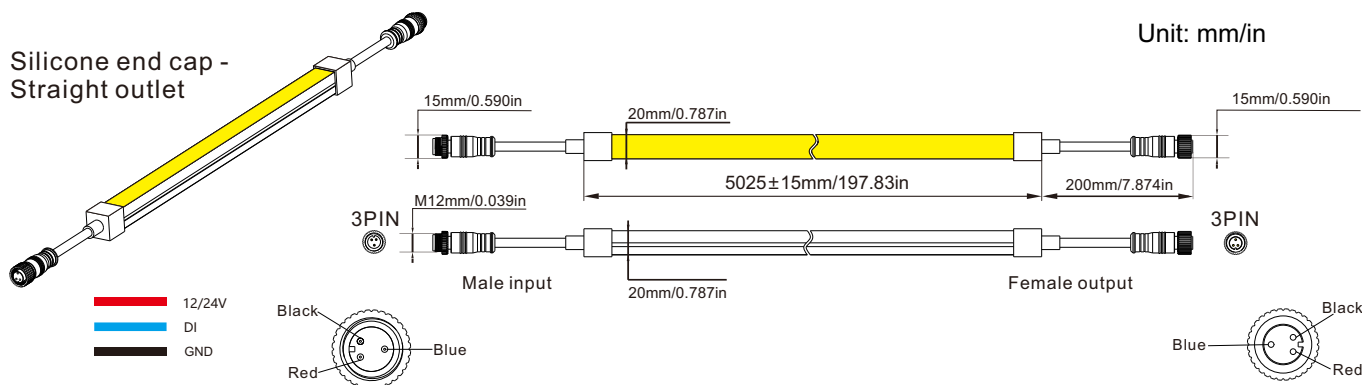
Luminous output:356.0 lm

Height	Eavg,Emax	Angle:110.72°	Diameter
1m	51.55,174.9lx		289.50cm
2m	12.89,43.73lx		579.01cm
3m	5.728,19.43lx		868.51cm
4m	3.222,10.93lx		1158.01cm
5m	2.062,6.997lx		1447.52cm
6m	1.432,4.859lx		1737.02cm
7m	1.052,3.570lx		2026.52cm
8m	0.8055,2.733lx		2316.03cm
9m	0.6365,2.159lx		2605.53cm
10m	0.5155,1.749lx		2895.03cm

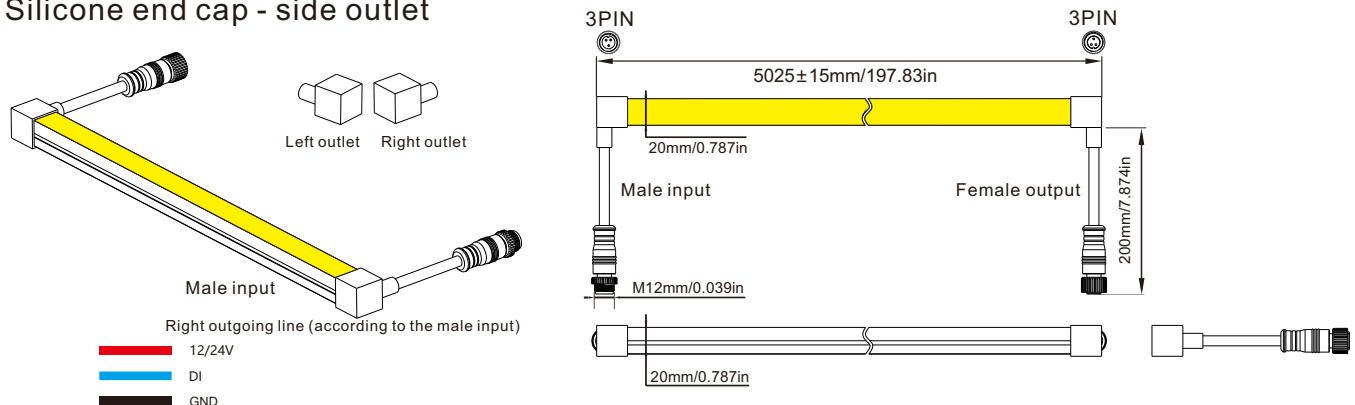
Note: the curve is the illumination area and the average illumination within the area of the lamp under different projection distance

Mechanical parameters

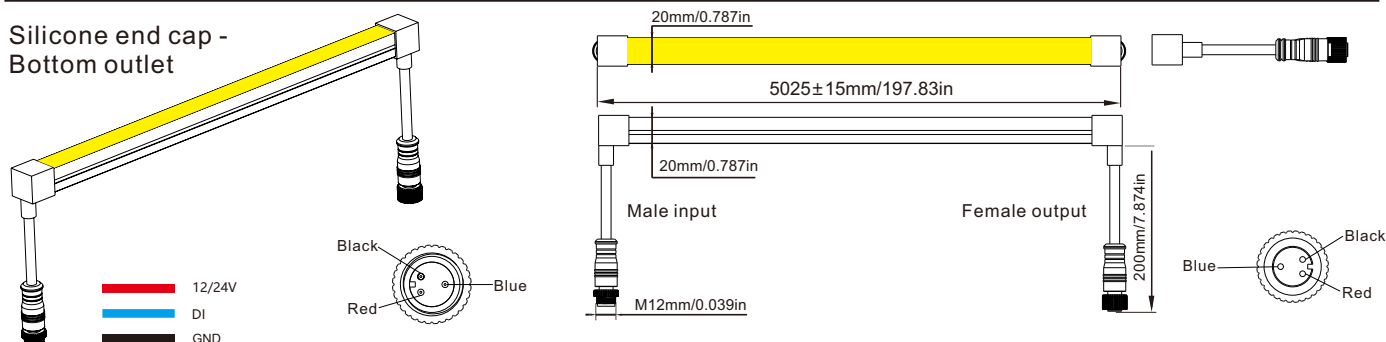
Silicone end cap -
Straight outlet



Silicone end cap - side outlet



Silicone end cap -
Bottom outlet

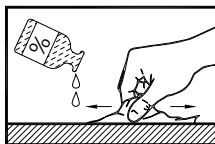


Note: Length tolerance applies. Actual product dimensions may vary.

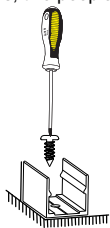


2020 Installation diagram

Wipe the dust on the installation luminous surface with clean water.

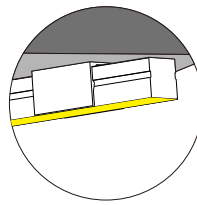
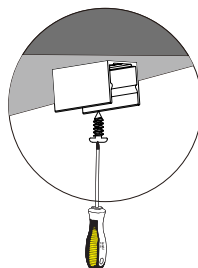


First fix the buckle with screws, and then clip the LED flex wall washer into the buckle. When the length of the LED flex wall washer is greater than 2 meters, two people are required to install it together. (refer to the figure below)

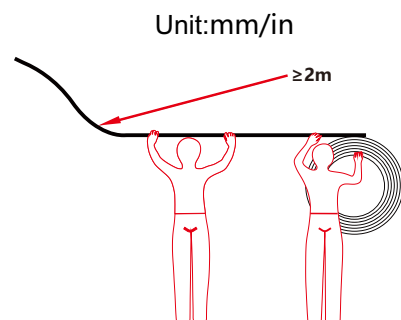


Overall dimension of buckle :

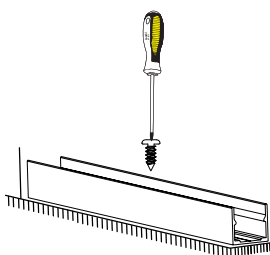
L20*W22.5*H21.5mm
L0.787*W0.885*H0.846in



Surface

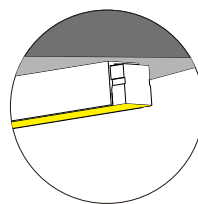
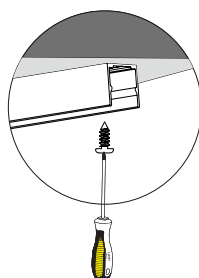


When the length of LED flex wall washer is more than 2 meters, two people are required to install it together.

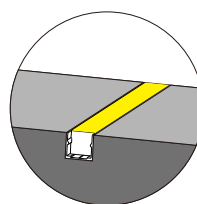


Overall dimension of aluminum profile:

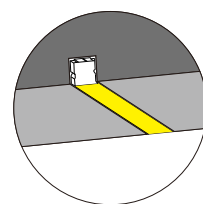
L1000*W22.5*H21.5mm
L39.37*W0.885*H0.846in



Surface

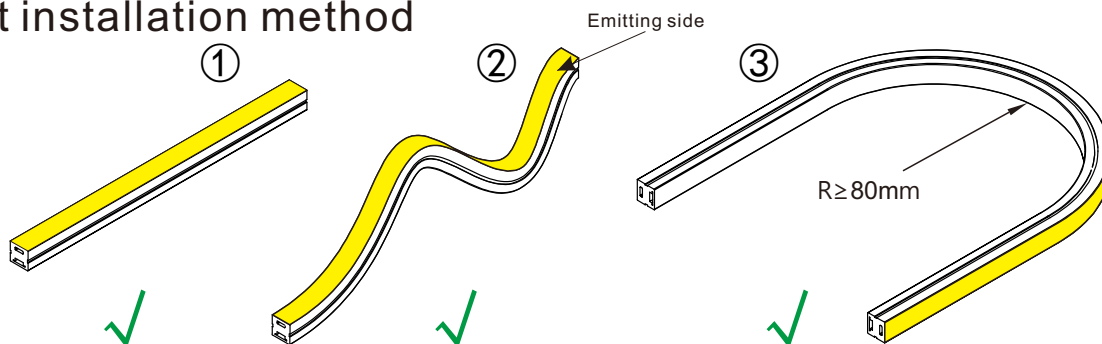


Mounted embedded

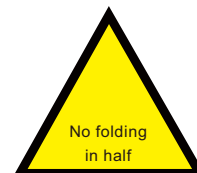
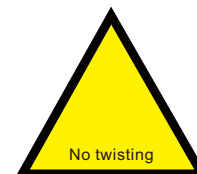
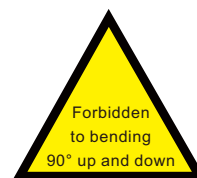
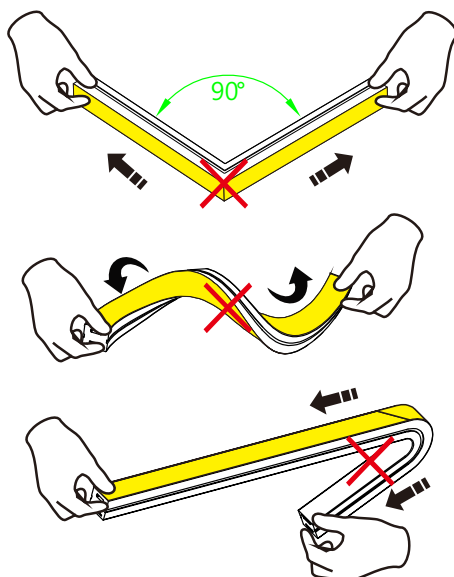


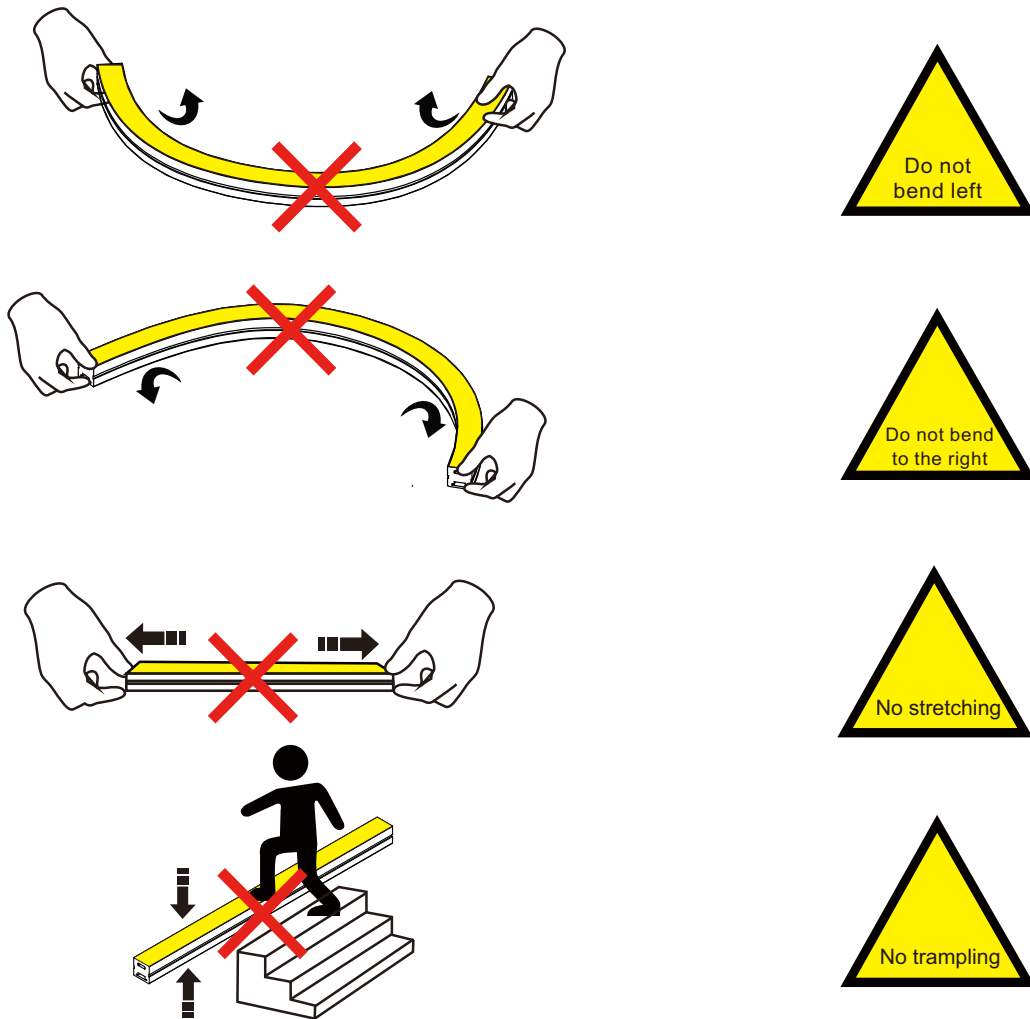
Mounted embedded

Correct installation method



Error installation method

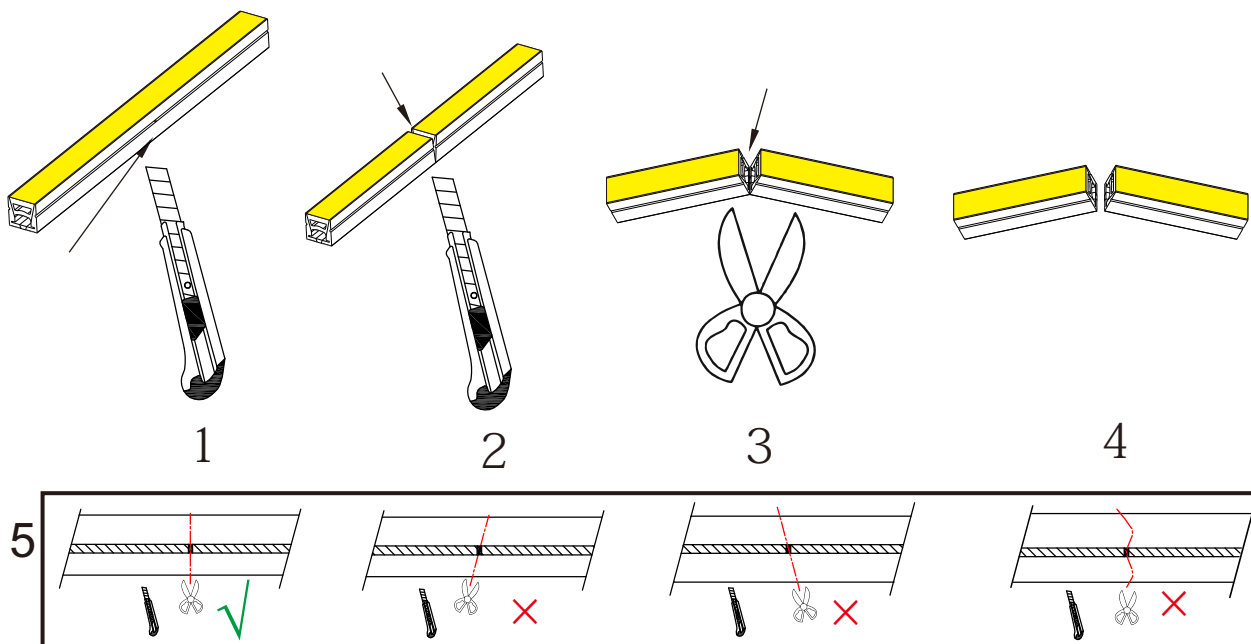




Cutting and the waterproof treatment of both ends

By default, our products will be shipped in regular lengths according to customer requirements.

If the customer has to cut and assemble on site, we can provide some end caps with holes and end caps without holes (all sections can be used). However, please note that in this case, the front and rear ends must be glued for waterproof treatment.



Cutting precautions

Waterproof treatment after cutting

1. The cut output end is glued and plugged with a non hole end cap (Fig. 1);
2. If there is no welding cable at the head and tail ends after cutting, first thread the male wire through the end cap, then weld it to the head end of the LED neon flex, and then apply glue for waterproof treatment (Fig. 2);
3. If there is no cable at the input end of cutting, and the male input cable must be welded (Fig. 3).

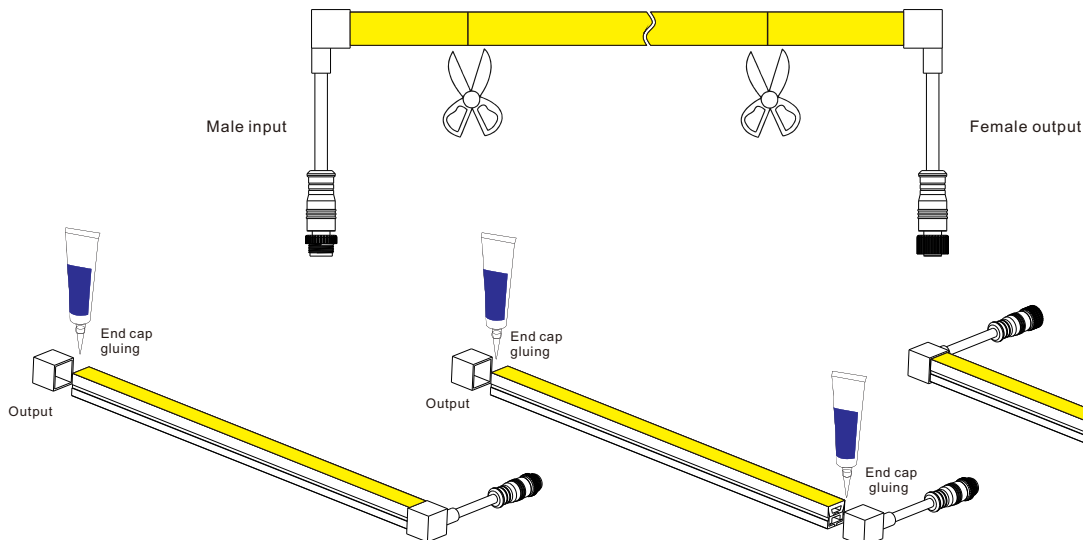


Figure 1

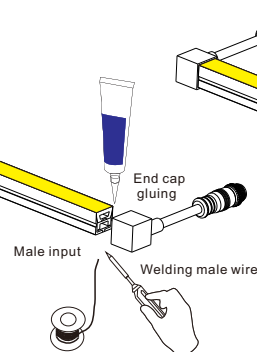


Figure 2

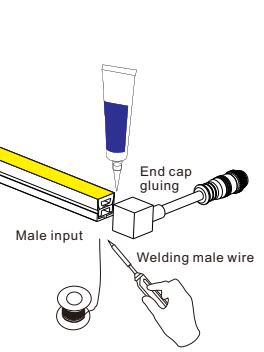


Figure 3

matters needing attention

Please use DC12V or DC24V isolation power supply according to the actual LED light strip, and the ripple of the constant voltage source is less than 5%. The LED light bar can not be used to use the resistance to lower voltage pressure, non-isolation and other types of power supply.

·In practical application, the power supply should reserve 20% margin (it is recommended to use only 80% power) to ensure sufficient voltage to drive products.

·Please operate carefully. When the power is connected, do not touch the AC power terminal to prevent electric shock.

·Pay attention to the positive and negative poles of the power line. Do not connect them incorrectly. Check whether the voltage of the power supply is consistent with that of the product to avoid product damage.

·Please avoid scratching, twisting and irregular bending of the product during installation, otherwise it may cause irreparable damage to the product.

·In order to ensure the service life and reliability of the led neon flex, please do not bend in the arc with a radius of less than 80 mm. Too small bending radius will damage the product itself.

·If the actual application length exceeds the specified length, it will lead to overload, heating, uneven brightness and other phenomena.

·In order to protect your eyes from injury, try to avoid staring at the luminous surface of the led neon flex for a long time.

·Non professional personnel are forbidden to install, disassemble and repair the product.

·It is strictly prohibited to use any acidic or alkaline adhesive to fix the product (including but not limited to glass adhesive, etc.).

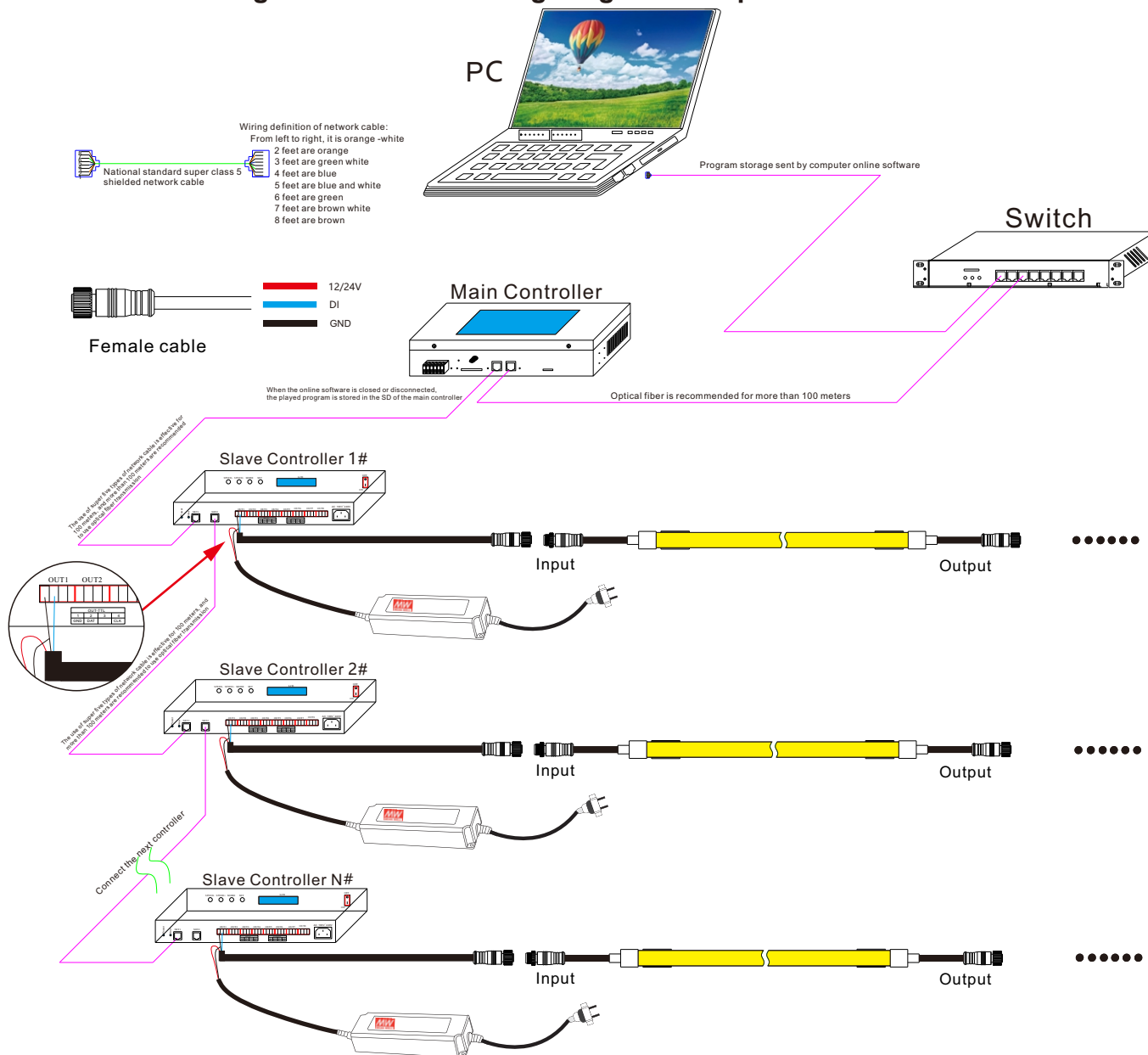
·The use scenarios of different IP grades of products are different, and IP67 is not suitable for immersion environment.

·Due to structural differences of products with different sizes and specifications under the same color temperature value, the final color of the product is slightly deviated, which shall be confirmed before use.

·Please use professional cutting tools when cutting.



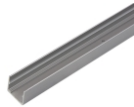





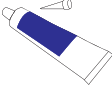



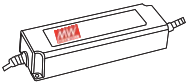


Main control - integrated control wiring diagram computer



Product control system solution

Product picture	Name	PN	Product specifications	Applicable products
	Main controller	XS-809-A	Power supply: ac110-240v Power: 10 W Data interface: network interface Memory card type: SDHC card Operating temperature: -10 °C - 60 °C Size: 260mm * 160mm * 52mm(L*W*H) Weight: 2.0kg	SPI Neon flex DMX512Neon flex
	Slave controller	T-790	Power supply: ac110-240v Power: 5 W Output type: 4Pin connector Operating temperature: -20 °C - 85 °C Size: 310mm * 152mm * 42mm(L*W*H) Weight: 2.0kg	SPI Neon flex DMX512Neon flex
	Offline controller	K-1000C	power supply: DC 5V or DC 12-24V input Power consumption: 2 W Output type: 3pin terminal block Operating temperature: -30 °C - 85 °C Size: 159mm * 89mm * 24mm(L*W*H) Weight: 0.35kg	SPI Neon flex DMX512Neon flex

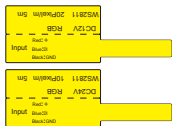
Product Accessories

Name	Describe	Picture	Net weight (g)	Product size (mm)	Remarks
Alum LED Profile	Pre installation slot		200g	L1000xW22.5xH21.5	Aluminum
Alum LED Profile	Pre installation slot		4.15g	L20xW22.5xH21.5	Aluminum
Modeling carrier	Shapable mounting slot		480g	L1000xW21.5xH10.8	Stainless steel
Straight outlet end cap	Silicone front outlet end cap		4.1g	L24.5xW22.8xH22.8	Silicone
Side outlet end cap	Silicone side outlet end cap		5g	L23.3xW38.5xH23.3	Silicone
Seal the end cap	Silicone sealing end cap		2.3g	L14xW22xH22	Silicone
Filling glue	300h mono molecular silica gel		125g	L32xW46xH17	Liquid glue
Female Connector	3Pin Cable connector (0.5M)		23g	φ 15xL200	PVC
Male Connector	3PIN Connector		18g	φ 15xL200	PVC
Connector	3PIN IP65 Connector		/	/	PVC
Power supply	240W waterproof power supply		1.38Kg	L244.2xW68xH38.8	/
Power supply	350W Non-waterproof power supply		0.82Kg	L215xW115xH30	/
Power supply	400W rainproof power supply		1.23Kg	L220.4xW130xH48	/

Product packaging

· Standard packaging

1.For carton packaging, the line label is pasted 80mm away from the end of the line, the information label is pasted on the product, and the product information label and box number label are pasted on the side of the carton,QC inspection stamp.



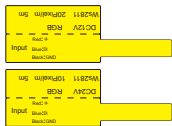
Voltage & input line identification



Product information label



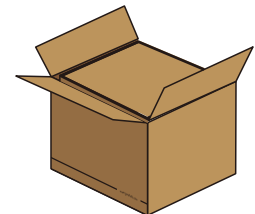
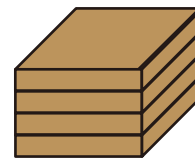
2.For single carton packaging, the line label is pasted 80mm away from the end of the line, the information label is pasted on the product, and the product information label and box number label are pasted on the side of the carton,QC inspection stamp.



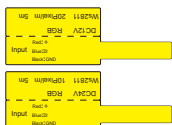
Voltage & input line identification



Product information label



3. For wooden case packaging, the line label is pasted 80mm away from the line end, the information label is pasted on the product, and the product information label and box number label are pasted on the side of the carton,QC inspection stamp.



Voltage & input line identification



Product information label



Name	Size	Quantity / box	Quantity / box	Net weight of single product (kg)	Net weight of each box (kg)	Gross weight (kg)	Outer box size (mm)
Carton	L5000*20*20mm	5m*3	15m	1.7	5.1	5.4	360*360*60
Carton	L5000*20*20mm	5m*12	60m	1.7	20.4	21.3	380*380*265
Wooden case	Customized to order	/	/	1.7	/	/	/

Reliability testing

Test item	Test requirement	Test standard	Test method or condition
Safety regulation test	Mechanical strength	GB-7000.1	Impact hammer 0.7 J
	Dust and water proof test	GB-7000.1	IP67
	Winding test	GB-7000.1	φ150mm wooden disc, 60N tension, 10 times at room temperature, 10 times after cold treatment (-15°C±2°C, 16h)
	Low temperature winding test	GB-7000.1	Winding the winding shaft, low temperature box -c, after 16h, 15 °C± 2 °C winding the winding shaft for 2 turns
	Low temperature impact test	GB-7000.1	Winding the winding shaft, low temperature box -15°C±5°C, after 16h, winding the winding shaft for 2 turns
	Insulation resistance	GB-7000.1	≤ 2MΩ
	Electrical strength	GB-7000.1	500V
Mechanical reliability test	Up and down bending test	Internal standards	With an interval of 200mm (including welding points), the upper and lower bends are respectively 100 times
	Distortion test	Internal standards	Twist clockwise for 5 turns and then relax. Repeat for 100 times
	Falling test	Internal standards	100 times of wrestling
Environmental reliability test	High temperature storage	GB/T 2423.2	60°C, 168 hours
	Low temperature storage	GB/T 2423.1	-30°C, 168 hours
	High temperature and humidity operation	GB/T 2423.3	60°C, 85%RH
	Salt spray Test	GB/T 2423.17	5% salt solution concentration, 24h
	IK Test	GB/T 20138	Each exposed surface bears 5 impacts
	Normal temperature aging	Internal standards	25°C, 6000 hours
	Switching impulse	Internal standards	10s on, 10s off, 10000 times