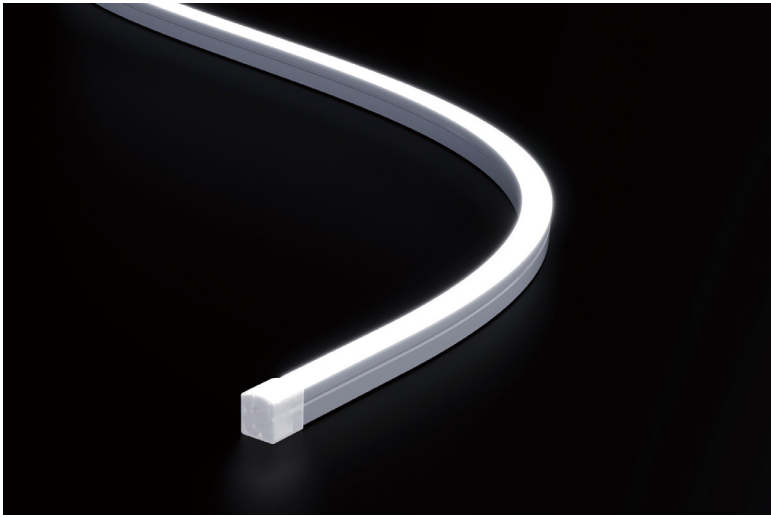


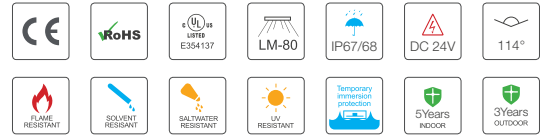
# LED NEON FLEX NSF1617





**Features**

- Color options: Single color, Tunable white , RGB, RGBW and PIXEL.
- High quality components with stable performance.
- Designed with anti-wicking ferrule.
- Good flexibility, side bending and easy to shape.
- Single color does not support PWM dimming; Pixel recommend MR-502 controller.
- Warranty: 5 years indoor, 3 years outdoor.
- Customization: multiple spec options, can be customized upon requirements.



**Optical & Electrical Parameters**

Model No.	Voltage	CRI	Color	Lm/m	Lm/W	Rated Power (W/m)			
NSF1617-Single color	24V DC	>90	2300K	1026	60	17.2			
			2800K	1122	63				
			3200K	1141	64				
			3500K	1041	60				
			4100K	1229	69				
			5100K	1164	67				
			6600K	1144	64				
NSF1617-Single color	24V DC	/	Red	391	22	17.2			
			Green	1020	58				
			Blue	244	14				
			Yellow	268	15				
			Orange	460	26				
			W+N	946	66				
NSF1617-WN	24V DC	>90	2700K	468	65	7.2			
			6500K	487	66	7.2			
			W+N	946	66	14.4			
			NSF1617-RGB	24V DC	/	Red	94	17	5.7
						Green	269	48	5.7
Blue	56	10				5.7			
RGB	416	25				17.2			
NSF1617-RGBW	24V DC	/	3000K	231	43	4.8			
			Red	71	15	4.8			
			Green	204	42	4.8			
			Blue	49	10	4.8			
			RGBW	553	28	19.2			
			RGB	142	11	12.96			
NSF1617-PIXEL (RGB)	24V DC	/	Red	52	8	6			
			Green	70	11	5.8			
			Blue	23	3	6.2			
			RGB	142	11	12.96			

Note: For single color the head-to-tail current difference is 10%

**Other Parameters**

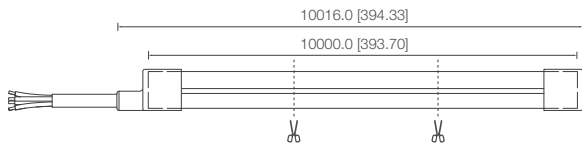
Model No.	LED QTY (pcs/m)	Standard Run	Min. Cuttable Length	Working Temperature	Storage Temperature
NSF1617-Single color	140	10.0m	50.0mm	-20~+60°C	-20~+70°C
NSF1617-WN	224	5.0m	62.5mm		
NSF1617-RGB	120	5.0m	50.0mm		
NSF1617-RGBW	84	5.0m	71.42mm		
NSF1617-PIXEL (RGB)	60	5.0m	100.0mm		

Note: monochrome light head-tail cascade current difference 10%

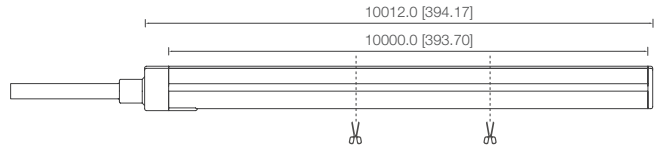
## Profile Drawings

Unit: mm[inch]

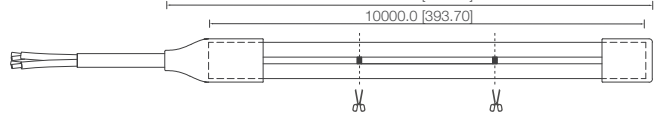
Glue Process (IP67)



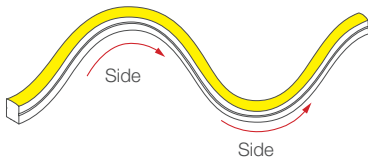
Molding pressed (IP67)



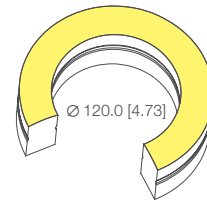
Molding pressed (IP68)



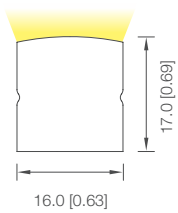
Bend direction



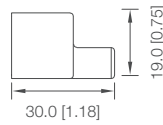
Bending Diameter



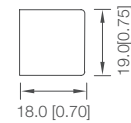
Sectional view



Front cap



Closing End-cap



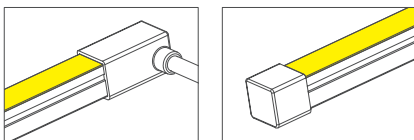
**Notes:**

IP67: suitable for rainy environment or short-term soaking environment; the depth ≤ 1m, the time ≤ 1h. (factory assembly only)

IP68: Suitable for rainy environment or short-term soaking environment; the depth ≤ 1m. (factory assembly only)

IP Process Technology

**Glue Process (IP67)**



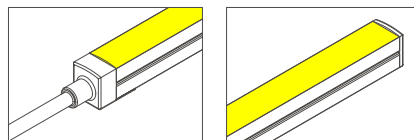
**Color**

Single color / CCT / RGB / PIXEL(RGB)

**Outlet Direction**

Straight / Left / Right / Bottom

**Molding Pressed (IP67)**



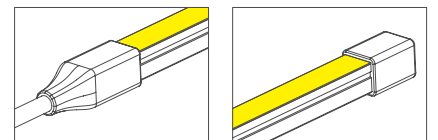
**Color**

Single color / CCT / RGB / PIXEL(RGB)

**Outlet Direction**

Straight / Left / Right / Bottom

**Molding Pressed (IP68)**



**Color**

Single color / CCT / RGB

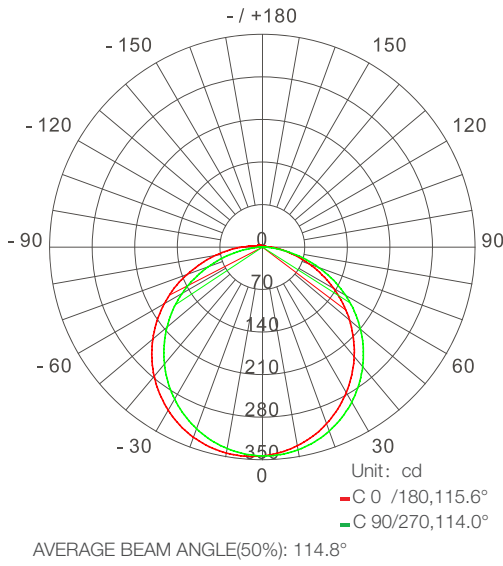
**Outlet Direction**

Straight

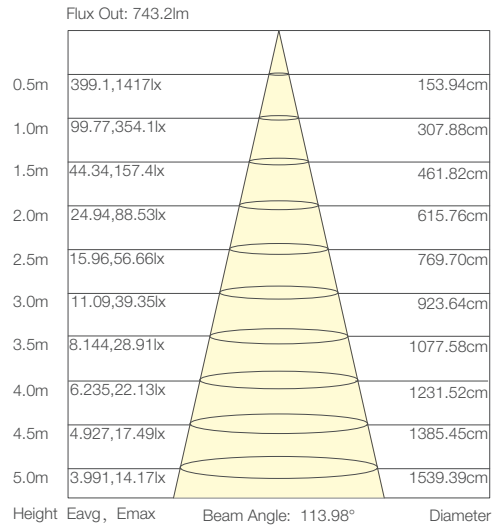
- Glue process the end cap after cutting, warranty will be provided upon IP65 rated.
- No warranty will be provided if the injection moulded(IP68) end cap destroyed or reprocessed.
- Corresponding molding equipment and mold needed for self-processing injection moulded end cap, contact the sales for more information.



Luminous Intensity Distribution Diagram



Average Illumination

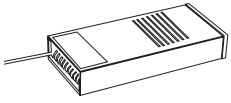


Note: Note: The data is the test result of Single color at White of 2800K. For other data, please consult sales rep.

Recommended power supply upon working length

Model No.	Working Length	Measured Current	Rated Voltage	Measured Power	Recommended Power Supply	Power Supply Mode
NSF1617-Single color	1m	0.72 A	24 V DC	17.28 W	24 W	Single Feed
	10m	6.9 A	24 V DC	165.6 W	220 W	
NSF1617-WN	1m	0.6 A	24 V DC	14.4 W	24 W	Single Feed
	5m	2.7 A	24 V DC	64.8 W	100 W	
NSF1617-RGB	1m	0.72 A	24 V DC	17.28 W	24 W	Single Feed
	5m	3.20 A	24 V DC	76.80 W	100 W	
NSF1617-RGB-R	1m	0.23 A	24 V DC	5.52 W	7.2 W	Single Feed
	15m	3.11 A	24 V DC	74.52 W	100 W	
NSF1617-RGB-G	1m	0.23 A	24 V DC	5.52 W	7.2 W	Single Feed
	15m	3.11 A	24 V DC	74.52 W	100 W	
NSF1617-RGB-B	1m	0.23 A	24 V DC	5.52 W	7.2 W	Single Feed
	15m	3.11 A	24 V DC	74.52 W	100 W	
NSF1617-RGBW	1m	0.80 A	24 V DC	19.20 W	24 W	Single Feed
	5m	3.60 A	24 V DC	86.40 W	120 W	
NSF1617-RGBW-R	1m	0.19 A	24 V DC	4.56 W	7.2 W	Single Feed
	20m	3.42 A	24 V DC	82.08 W	120 W	
NSF1617-RGBW-G	1m	0.20 A	24 V DC	4.80 W	7.2 W	Single Feed
	20m	3.60 A	24 V DC	86.40 W	120 W	
NSF1617-RGBW-B	1m	0.20 A	24 V DC	4.80 W	7.2 W	Single Feed
	20m	3.60 A	24 V DC	86.40 W	120 W	
NSF1617-RGBW-W	1m	0.22 A	24 V DC	5.28 W	7.2 W	Single Feed
	20m	3.96 A	24 V DC	95.04 W	120 W	
NSF1617-PIXEL (RGB)	1m	0.54 A	24 V DC	12.96 W	24 W	Single Feed
	5m	2.17 A	24 V DC	52.08 W	70 W	

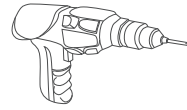
Products and Tools



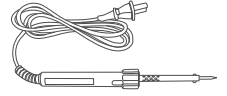
LED power supply



Cutter

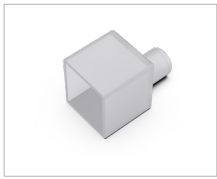


Electric drill



Electric iron

Product accessories



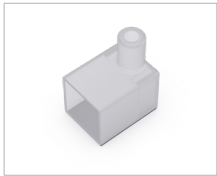
**ASY-NSF1617-N00NNH-EC**

Item: Front cap  
 Dimensions L\*W\*H: 30.0\*18.0\*18.0mm  
 Quantity / 10m: 2-6pcs  
 Free/Optional: Free



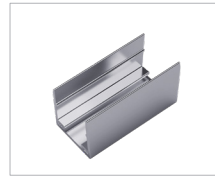
**ASY-NSF1617-N00NNX-EC**

Item: Closing End-cap  
 Dimensions L\*W\*H: 18.0\*19.0\*18.0mm  
 Quantity / 10m: 2-6pcs  
 Free/Optional: Free



**ASY-NSF1617-N00NNS-EC**

Item: Front cap(Side)  
 Dimensions L\*W\*H: 25.0\*30.0\*19.0mm  
 Quantity / 10m: --  
 Free/Optional: Optional



**ASY-NSF1617-A3NN0035-MT**

Item: Aluminum clip  
 Dimensions L\*W\*H: 35.0\*19.3\*18.7mm  
 Quantity / 10m: --  
 Free/Optional: Optional



**ASY-NSF1617-MNN0500-MT**

Item: S-type Track  
 Dimensions L\*W\*H: 500\*17.2\*17.8mm  
 Quantity / 10m: --  
 Free/Optional: Optional



**ASY-NSF1617-A1NN1000-MT**

Item: Aluminum Channel  
 Dimensions L\*W\*H: 1000\*19.3\*18.7mm  
 Quantity / 10m: --  
 Free/Optional: Optional



**ASY-NSF1617-A4NN0035-MT**

Item: Aluminum track  
 Dimensions L\*W\*H: 35.0\*21.2\*19.0mm  
 Quantity / 10m: --  
 Free/Optional: Optional



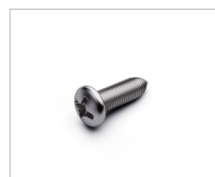
**ASY-NSF1617-A2NN1000-MT**

Item: Aluminum Channel  
 Dimensions L\*W\*H: --  
 Quantity / 10m: --  
 Free/Optional: Optional



**WR-7516**

Item: Silicone Glue  
 Dimensions: 45g/pc  
 Quantity / 10m: --  
 Free/Optional: Optional



**PA3**

Item: Screws  
 Dimensions L\*W\*H: PA3\*10  
 Quantity / 10m: --  
 Free/Optional: Optional

Note:

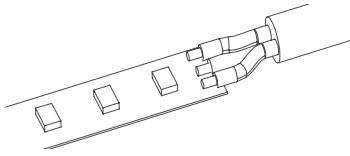
Accessories can be added according to customers' requirements;

If customers want to process molded caps by themselves, corresponding molds and molding equipment are needed;

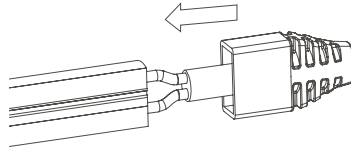
If the customer processed the molded cap, resulting in its waterproof failure to meet our standards, the hidden quality risks are not covered by the warranty;

Installation

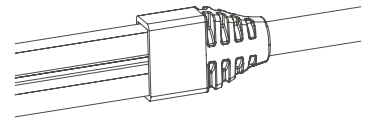
Front cap installation



Weld the wire to the PCB board.

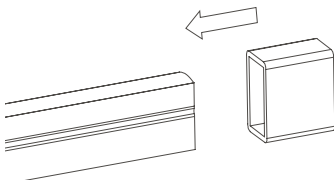


Filling the cap with glue, then push it into the strip light.

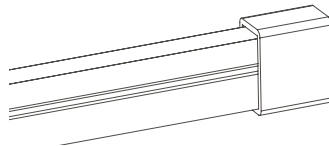


Wipe off the excess glue and wait to dry.

Closing-end cap installation

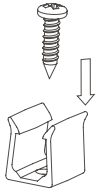


Filling the cap with glue, then push it into the strip light.

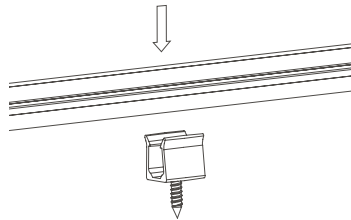


Wipe off the excess glue and wait to dry.

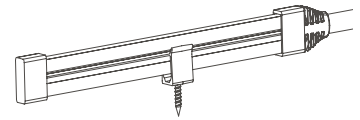
Plastic clip installation



Fix the clip with screws



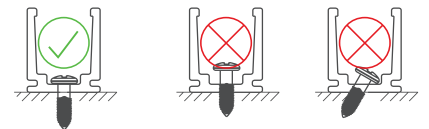
Put the strip into the clip



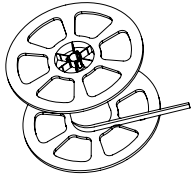
Finished

Notes:

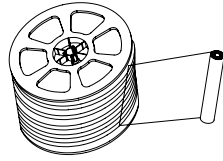
- At the welding place, please pay attention to the positive and negative poles of the wire and the strip;
- Each connection must use 10g silica gel for waterproof and insulating treatment;
- The screws must be vertical to the mounting surface and be fastened, as shown in the figure on the right;
- Please choose suitable operation steps according to the actual needs;
- During mounting, please pay attention to the min bending diameter, and best to use original factory accessories;
- More information, please feel free to consult us;



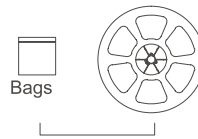
Packaging Information



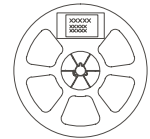
Roll the product to a reel, then wrap it with PE film



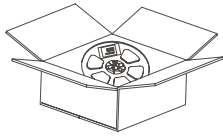
Label the reel;



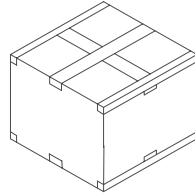
Put the reel and accessories into the bag



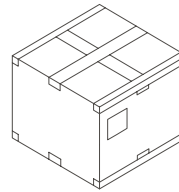
Seal and label the bag;



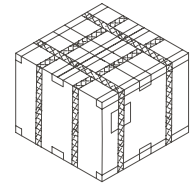
Put the prepared bags into a carton box;



Seal the carton box;



Label the carton box;



Use packing belt to pack. Add edge protectors if necessary

Packaging information

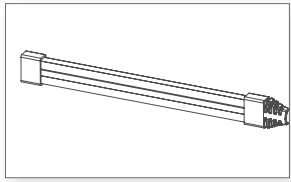
Model No.	Product Size (mm)	Carton Size (mm)	Meter/Reel	Reel/Carton	Net Weight (kg)	Gross Weight (kg)
NSF1617-Single color	10000*16*17	480*445*370	10	6	/(1±10%)	16.50 (1± 10%)
NSF1617-WN	5000*16*17	480*445*370	5	12	/(1±10%)	16.20 (1± 10%)
NSF1617-RGB	5000*16*17	480*445*370	5	12	/(1±10%)	16.20 (1± 10%)
NSF1617-RGBW	5000*16*17	480*445*370	5	12	/(1±10%)	16.70 (1± 10%)
NSF1617-PIXEL (RGB)	5000*16*17	480*445*370	5	12	/(1±10%)	16.50 (1± 10%)

- 5/10m per reel, and the reel is packed in an aluminum foil bag, and finally in an outer box.
- For other customized length packaging, please ask our sales rep.
- The above-mentioned packaging quantity and weight are only for the illustrated packaging method. For other packaging methods, the packaging quantity and weight will be different. The actual weight is subject to the actual product.

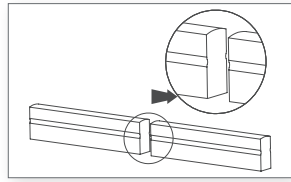
Reliability test

Project	Reference standards	Category	Test conditions	Outcome
Environmental test	Blueview standard	PTC test	Test temperature -40°C to 60°C, cycle once every 2h (temperature holding time 15min, heating and cooling time 45min)	Pass
		Room temperature aging test	TH=25°C, continuous power on	
		High temperature resistant test	TH=60°C working environment, continuous light up	
		Room temperature bending test	Bending diameter 40mm, TH=25°C, continuous power on	
Mechanical strength testing	Blueview standard	Tensile test	Fix both ends of the sample on the upper and lower clamps of the tensile machine and record the tensile value of the product when the light is off.	Pass
		Twist test	24V light on; rotate 360° forward and reverse, if there is no abnormality, increase the degree of rotation until the sample fails.	

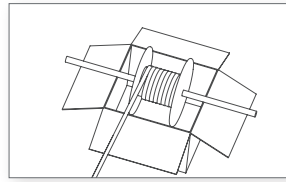
Warning Mark



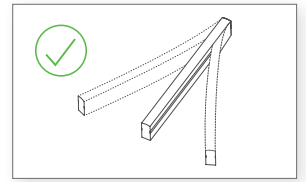
Cuttable identifier



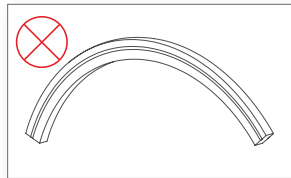
Neat and smooth cut



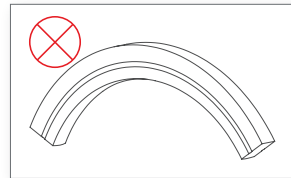
Insert a stick on the reel and place it on the packing box, and rotate the reel to get the product.



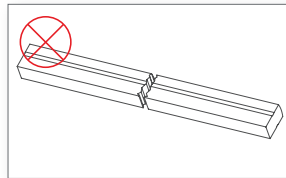
Side bending



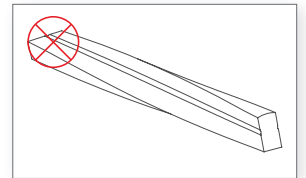
use in concave direction



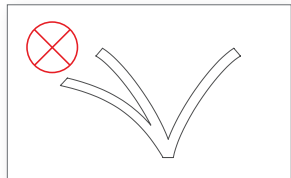
use in convex direction



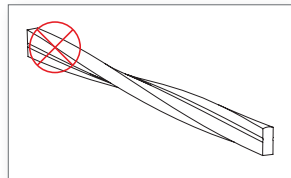
Do not make irregular cuts.



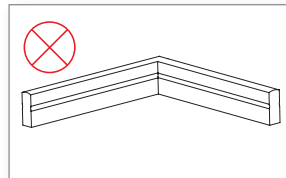
Do not use in distortions



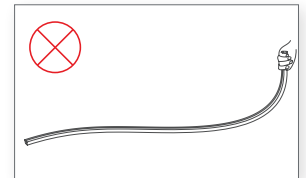
Do not bend many times, for it can endanger electronic lines.



Do not use on wringing (twist)



Do not bend at right angles



Do not throw or pull when taking products

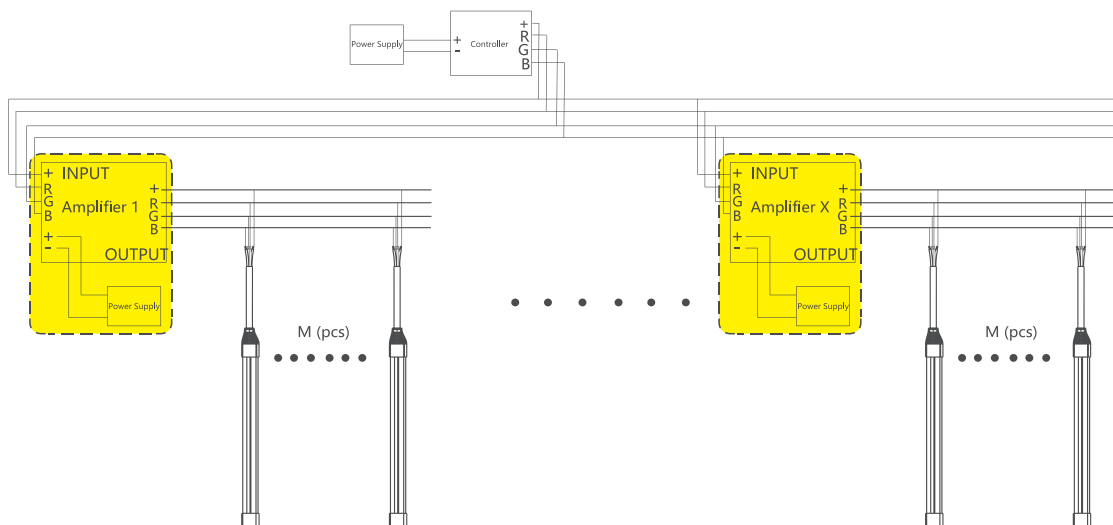
Note:

There are cutting marks on the FPCB;

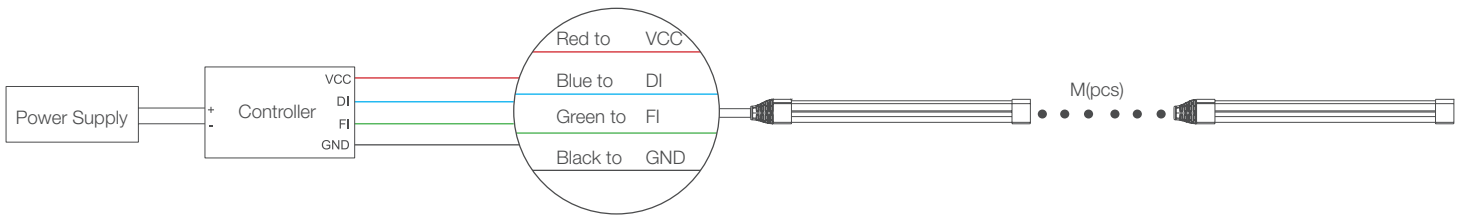
Please pay attention to the above warnings during transportation and mounting;

Connection Diagram of Controller

Wiring diagram of RGB controller:





**Wiring diagram of RGB digital controller:****Warning**

- Do not disassemble or retrofit the light. Do not touch the surface of the light with a sharp object.
- Do not do live-line working during installation, especially for high voltage product.
- Do not use any organic chemical solvents.
- Use neutral glass adhesive to fix this product and it needs to be dried 4 hours in the open environment after operation.
- Treat the ends and the circuit connection points that are not connected to the main line with insulation, waterproof, and anti-corrosion in the installation.
- Use 18AWG (0.75mm<sup>2</sup> cross-sectional area) or thicker core wire to avoid adverse consequences caused by overheating, if the power cable need to lengthen.
- Make sure the input voltage meets the requirements and lines are connected correctly before lighting on
- This product is for signage, and do not use as general lighting.
- Series connection within the max run.
- The length of the power cable between the power supply and the led strip should not exceed 2 meters. Otherwise, large circuit loss will lead to inconsistent brightness.
- Installation, maintenance and repair should be operated by a qualified technician.

**Attentions before installation**

- Before installation, check that the product parameters are consistent with the requirements (Seeing product specifications or product labels)
- Load voltage, current, power and power supply should be matched with the product.
- Follow the instructions of wiring diagram (first connect the load and then the power supply) to avoid short circuit
- Make sure the correct connection of positive and negative poles between products and power supply. Otherwise, the light will not be on.
- Make sure the power cord firmly screwed into the terminal and it should not be pulled out by hands.
- The terminal should have waterproof and anti-corrosive treatment.

**Statements and Recycling****Packaging information**

- Repair should be operated by a qualified technician or supplier, if the external circuit or main line of this product is damaged.
- The parameters given in this manual are typical values and for reference only
- All illustrations and drawings in this manual are for reference.
- This product is subject to change without notice.

**Recycling**

- LED lighting products belongs to electronic products, please do recycling treatment according to the relevant WEEE directives.

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