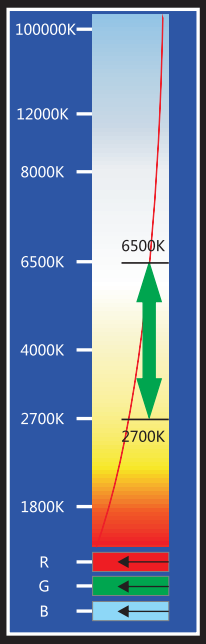
5050 STRIP LIGHT

DNXN-5050-XXX-XX-XXXX

BLUEVIEW

5050 | 120° | 12/24V | IP22 | 2Years



Version: A1.4

Features

- Adopt FPC material,good stability and reliability performance.
- Flexible and cuttable,stable quality, reliable use.
- Can achieve rich light changes with external controller.
- Cut or connected according to the required length.
- Long lifespan with great lumen maintenance.
- PWM dimming is not supported, controller MR-502 is recommended;

Bending radius: Rmin=20mm

Application

- landscape lighting, decorative lighting and cove lighting etc.

Installation

- Fix by screws or 3M self adhesive tape

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Specification

Model No.	Light Color	CCT/Wavelength (K/nm)	Beam Angle	Typical Luminous Flux value(lm/m)	Ra	Efficacy (lm/W)	Voltage (V DC)	Power (W/m)
DMXN-5050-30-12-RGB	R	615-630	120°	52	--	15.5	12	3.36
	G	515-530		76		22.5		3.36
	B	460-470		20		5.8		3.36
	R+G+B	100000		153		19.9		7.68
DMXN-5050-60-12-RGB	R	615-630	120°	104	--	15.5	12	6.72
	G	515-530		152		22.5		6.72
	B	460-470		39		5.8		6.72
	R+G+B	100000		306		19.9		15.36
DMXN-5050-60-24-RGB	R	615-630	120°	104	--	15.5	24	6.72
	G	515-530		152		22.5		6.72
	B	460-470		39		5.8		6.72
	R+G+B	100000		306		19.9		15.36

Model No.	Light Color	CCT/Wavelength (K/nm)	Beam Angle	Typical Luminous Flux value(lm/m)	Ra	Efficacy (lm/W)	Voltage (V DC)	Power (W/m)
DMXN-F5050-30-12-RGBW	R	615-630	120°	52	--	15.5	12	3.36
	G	515-530		119	--	35.5		3.36
	B	460-470		29	--	8.6		3.36
	W	2700-6500		134-202	80+	40-60		3.36
	R+G+B+W	100000		295-443	--	30-45		9.84
DMXN-F5050-60-12-RGBW	R	615-630	120°	105	--	15.5	12	6.72
	G	515-530		238	--	35.5		6.72
	B	460-470		58	--	8.6		6.72
	W	2700-6500		269-403	80+	40-60		6.72
	R+G+B+W	100000		590-885	--	30-45		19.68
DMXN-F5050-60-24-RGBW	R	615-630	120°	105	--	15.5	24	6.72
	G	515-530		238	--	35.5		6.72
	B	460-470		58	--	8.6		6.72
	W	2700-6500		269-403	80+	40-60		6.72
	R+G+B+W	100000		590-885	--	30-45		19.68

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Model No.	Light Color	CCT/Wavelength (K/nm)	Beam Angle	Typical Luminous Flux value(lm/m)	Ra	Efficacy (lm/W)	Voltage (V DC)	Power (W/m)
DMXN-F5050-60 -24-RGBW-T	R	615-630	120°	105	--	15.5	24	6.72
	G	515-530		238	--	35.5		6.72
	B	460-470		58	--	8.6		6.72
	W	2700-6500		269-403	80+	40-60		6.72
	R+G+B+W	100000		590-885	--	30-45		19.68

Temperature-Related Parameters(Normal Working)

Model No.	Power(W/m)	No Brightness Difference MAX(m)	UL Max Run (single feed)(m)	T_A (°C)	Operating Temp MAXTc(°C)
DMXN-5050-30-12-RGB	7.68	4	--	-20~+60°C	--
DMXN-F5050-30-12-RGBW	9.84	3.5	--	-20~+60°C	--
DMXN-5050-60-12-RGB	15.36	2.5	--	-20~+60°C	--
DMXN-F5050-60-12-RGBW	19.68	2	--	-20~+60°C	--
DMXN-5050-60-24-RGB	15.36	3.5	--	-20~+60°C	--
DMXN-F5050-60-24-RGBW	19.68	4.5	--	-20~+60°C	--
DMXN-F5050-60-24-RGBW-T	19.68	3.5	--	-20~+60°C	--

Other Parameters

Model No.	LED Quantity(pcs/m)	Min Cuttable Length(mm)	Storage Temperature(°C)
DMXN-5050-30-12-RGB	30	100	-20~+70°C
DMXN-F5050-30-12-RGBW	30	100	
DMXN-5050-60-12-RGB	60	50	
DMXN-F5050-60-12-RGBW	60	50	
DMXN-5050-60-24-RGB	60	100	
DMXN-F5050-60-24-RGBW	60	100	
DMXN-F5050-60-24-RGBW-T	60	100	

NOTE:

1.Test environment temperature : 25±2°C.
2. Figures above are typical figures. Actual figures could be different with typical figures, and the data is subject to change without notice.
3.The luminous flux is tested with corresponding color light on.
4.Different color temperature will make luminous flux different.
5.The light efficacy is measured value.
6.UL max run is in single feed.
7.The luminous flux and power tolerance within ±10%.
8.Power is tested at the full RGB/RGBW lights normal on and under control.

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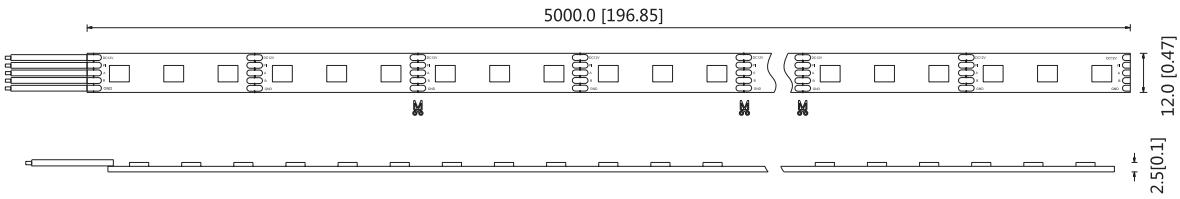
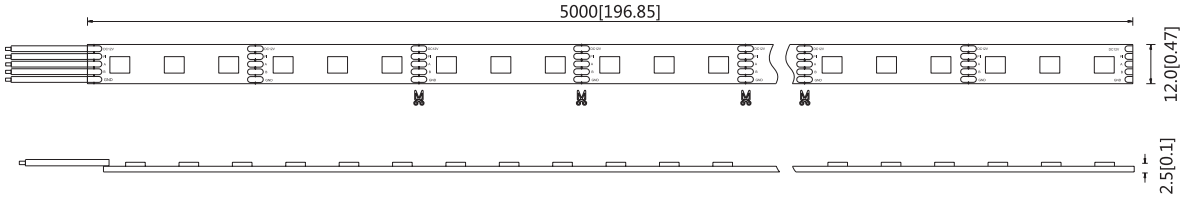
Profile Drawings

Unit:mm[inch]

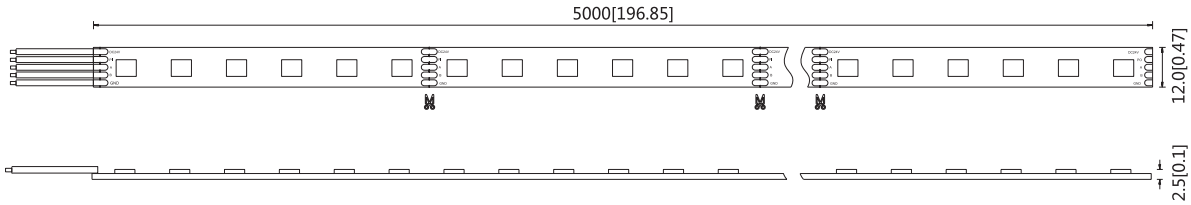
DMXN-5050/F5050-30-12-RGB/RGBW



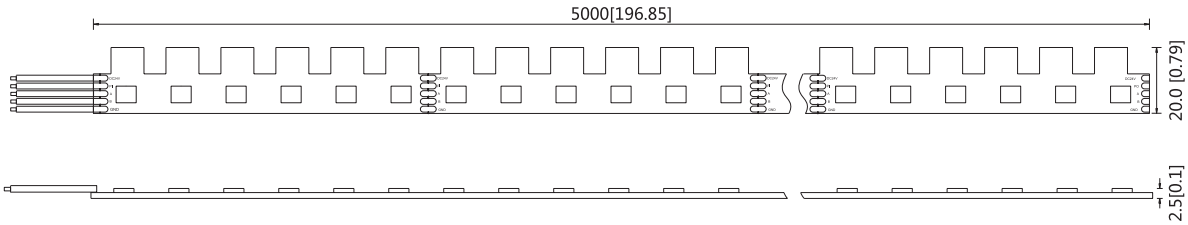
DMXN-5050/F5050-60-12-RGB/RGBW



DMXN-5050/F5050-60-24-RGB/RGBW



DMXN-F5050-60-24-RGBW-T



NOTE:For detailed drawing, please consult sales rep.

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Operating Length VS. Electrical Parameters

DMXN-5050-60-12-RGB	Operating Length(m)					
Parameters	1	2	2.5	3	4	5
Operating Voltage (DC V)	12.0	12.0	12.0	12.0	12.0	12.0
Total Current(A)	1.29	2.49	3.06	3.49	3.95	4.16
Total Power(W)	15.44	29.92	36.72	41.93	47.40	49.92
Head voltage(V)	11.87	11.84	11.82	11.80	11.78	11.76
Tail voltage(V)	11.61	10.70	10.07	9.49	8.84	8.21
Head Current(mA)	64.00	64.00	64.00	64.00	64.00	64.00
Tail Current(mA)	64.00	64.00	64.00	54.00	40.00	29.80
Head-to-tail Voltage Drop Rate(%)	2.19	9.63	14.81	19.58	24.96	30.19
Head-to-tail Current Drop Rate(%)	0	0	0	15.63	37.5	53.44
Single/Double feed	Single Feed	Single Feed	Single Feed	Double feed	Double feed	Double feed

DMXN-F5050-60-12-RGBW	Operating Length(m)				
Parameters	1	2	3	4	5
Operating Voltage (DC V)	12.0	12.0	12.0	12.0	12.0
Total Current(A)	1.65	3.24	3.942	4.46	4.77
Total Power(W)	19.82	38.88	47.30	53.52	57.24
Head voltage(V)	11.85	11.82	11.80	11.77	11.72
Tail voltage(V)	11.55	10.30	8.92	8.24	7.85
Head Current(mA)	82.00	82.00	82.00	82.00	82.00
Tail Current(mA)	82.00	82.00	66.00	47.00	31.00
Head-to-tail Voltage Drop Rate(%)	2.53	12.86	24.41	30.00	33.02
Head-to-tail Current Drop Rate(%)	0	0	19.51	42.68	62.2
Single/Double feed	Single Feed	Single Feed	Double feed	Double feed	Double feed

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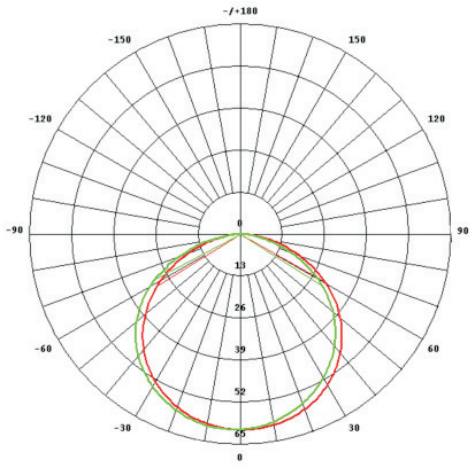
Luminous Intensity Distribution Diagram

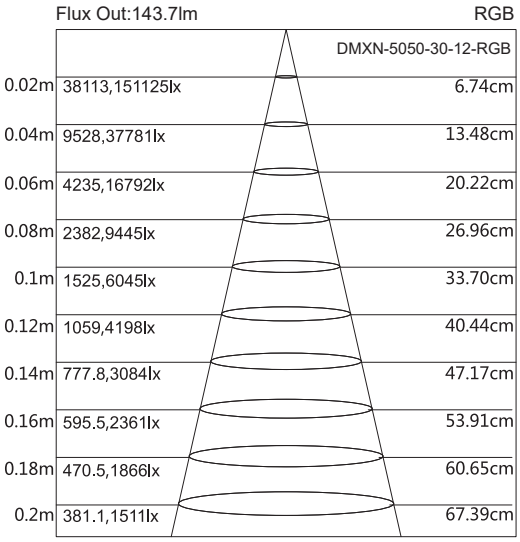


Unit：cd

AVERAGE BEAM ANGLE(50%)： 119.1°

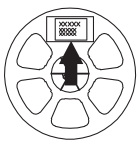
C0/ 180,118.6°
C90/270,119.5°

Average Illumination

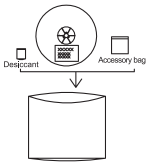


Note:the above two figures are tested with the sample DMXN-5050-30-12-RGB at RGB three lights on and under control,for other data,please consult sales rep.

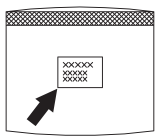
packing



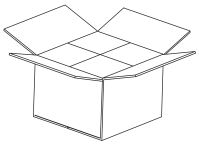
Label the reel;



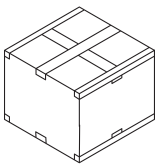
Put reel, accessory bag and desiccant together into static shielding bag;



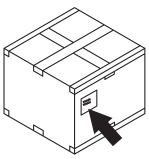
Seal and label the static shielding bag;



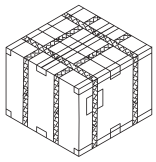
Put the packed static shielding bag into carton box;



Seal the carton box;



Label the box;



Use packing belt to pack. Add edge protectors if necessary.

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Packaging information

Model No.	Product Size L*W(mm)	Carton Size(mm)	Meter/Reel	Reel/Carton	Net Weight(kg)	Gross Weight(kg)
DMXN-5050-30-12-RGB	5000*12	550X400X340	5	80	10.8(1±10%)	15.5(1±10%)
DMXN-F5050-30-12-RGBW					10.8(1±10%)	15.5(1±10%)
DMXN-5050-60-12-RGB					11.6(1±10%)	16.3(1±10%)
DMXN-F5050-60-12-RGBW					11.6(1±10%)	16.3(1±10%)
DMXN-5050-60-24-RGB					12.2(1±10%)	16.9(1±10%)
DMXN-F5050-60-24-RGBW					12.2(1±10%)	16.9(1±10%)
DMXN-F5050-60-24-RGBW-T	5000*20	550X400X340	5	40	10.2(1±10%)	14.9(1±10%)

Note:

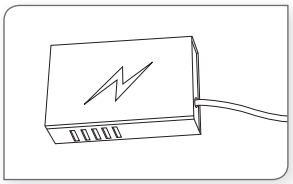
Every 5m for a reel,one reel for a static shielding bag.

The above quantity and weight are only for the illustrated packaging method. There will be differences in the quantity and weight with other packaging methods.

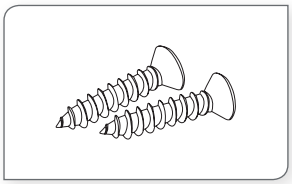
Installation

1.Products and Tools

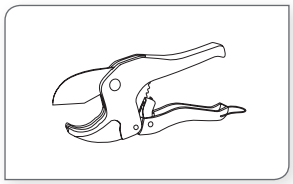
DNXN-5050-XXX-XX-XXXX



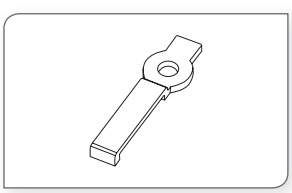
LED power supply



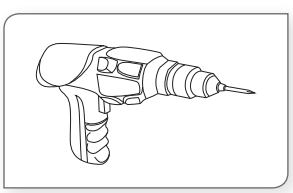
Self-tapping screw



Cutting tool



Clips



Electric drill

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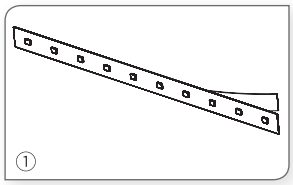
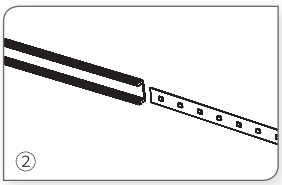
2.Installation Methods and Steps

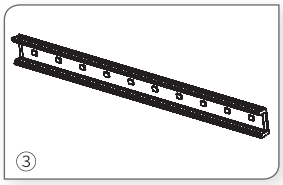
Aluminum channel installation



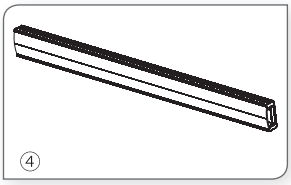
Peel away the self adhesive tape on the back of strip.



Cut off the excess part based on the installation position.

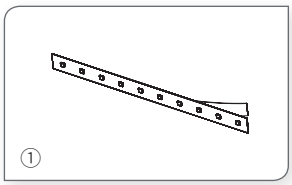


Evenly arrange the strips with appropriate space in the track.

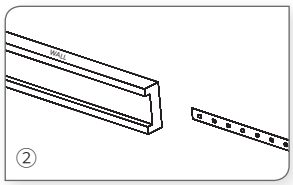


Install the cover and end cap.

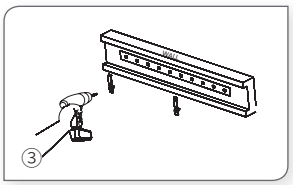
Covered channel installation



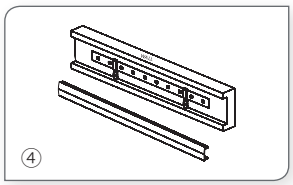
Peel away the self adhesive tape on the back of strip.



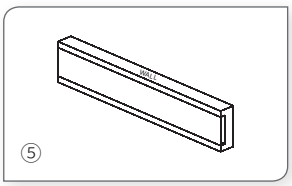
Cut off the excess part based on the installation position.



Evenly arrange the strips with appropriate space in the track and fix them with clips.



Install the cover and end cap.



Finished

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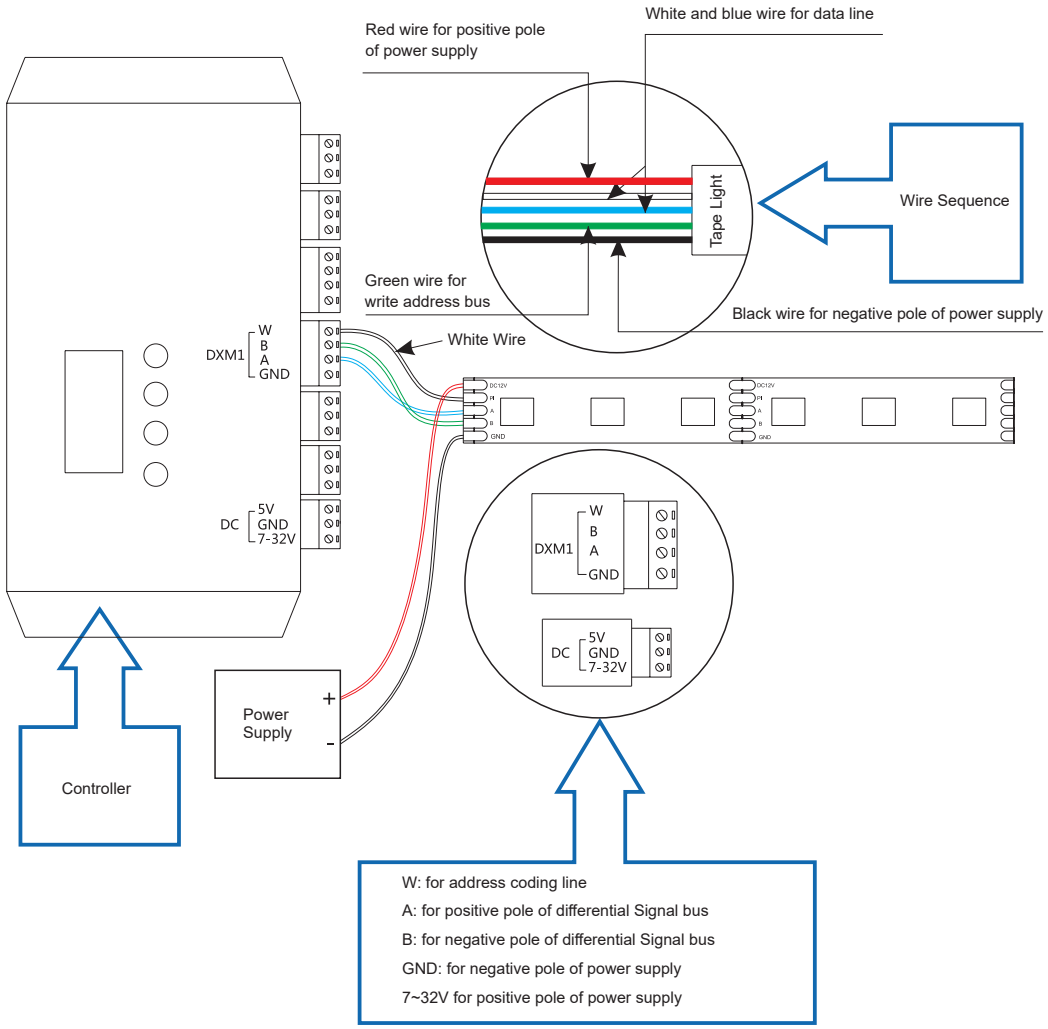
Controller Wiring Diagram



Note:

1. The controller is MR-502.
2. Single port of MR-502 can drive 512 pixels
3. The working voltage of the controller is DC 12V
4. This example chooses 12V product as an example, if it is 24V product, then choose 24V power supply;
5. For additional information, please refer to the MR-502 Instruction Manual.

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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 insulation,waterproof and anti-corrosive treatment.
If the working length exceeded the max run length, make sure to have extra power supply.
If it needs higher current of a LED, make sure having extra cooling.

Common Faults and Troubleshoot

Quick Guide		
Problems	Reasons	Solutions
All LEDs can not light on.	No electric supply.	Power on
	Automatic power protection from the open or short circuit in output of the power supply.	Fix the short circuit problem.
	Wrong connection of power supply.	
LEDs can not light on partly.	Some switching mode power supplies are not powered.	Check the power supply system to fix it.
	Power supply line error.	
	Mistaken wire connection of some of products	Correctly connection
Brightness of LED is inconsistent tor insufficient.	Power overloaded.	Replace with more powerful power
	Power supply circuit excessive consumption.	Make sure the working voltage of the product within ±5% of standard voltage, or keep balance by circuit power consumption.
	Excessive quantities in series connection of the product	Reduce the quantities of the product in series connection to meet requirement.
LED flicker.	Connection point fault.	Remove bad connection point.
	Switching power supply failure.	Replace a new power supply.
	Wrong Installation or use of products	Please follow the instructions

⚠ 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 (0.75mm² 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.

Statements and Recycling

Statements:

Repair should be operated by a qualified technician, 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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