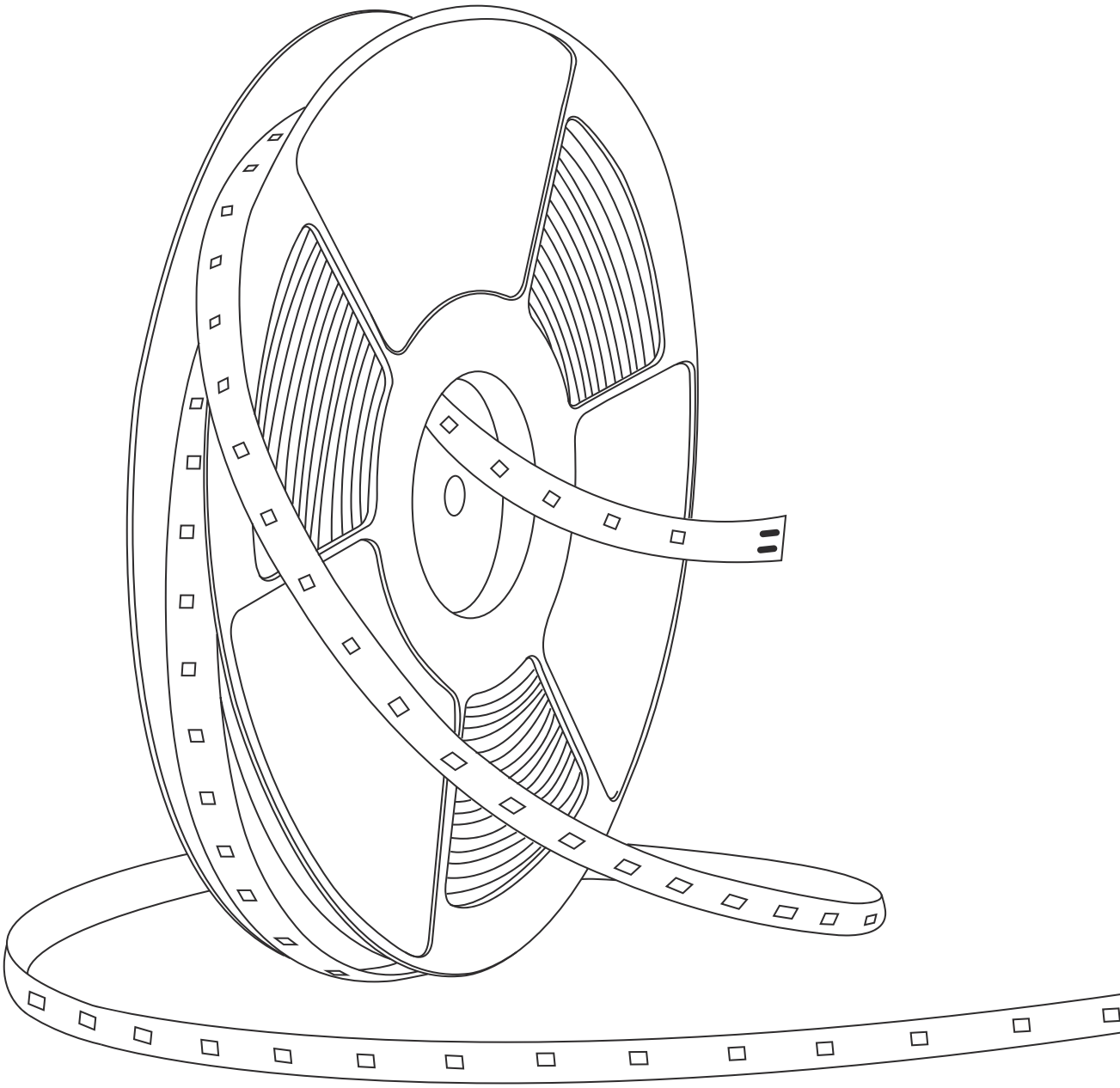
LED STRIP

USER MANUAL



Note:
Please read the manual carefully before installation and application, and use the product in the correct way.
Instructions of accessories are included in the manual.
Please properly maintain the manual after reading and understanding it for convenient reference by all users of the product in the future.

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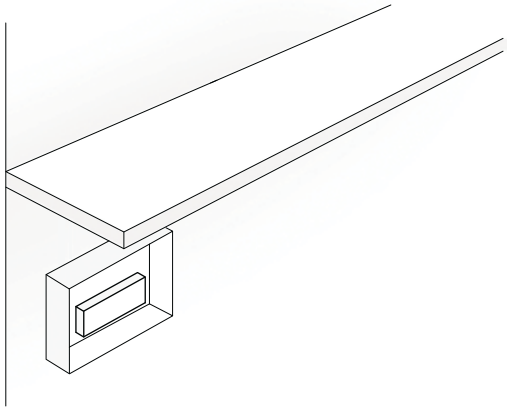
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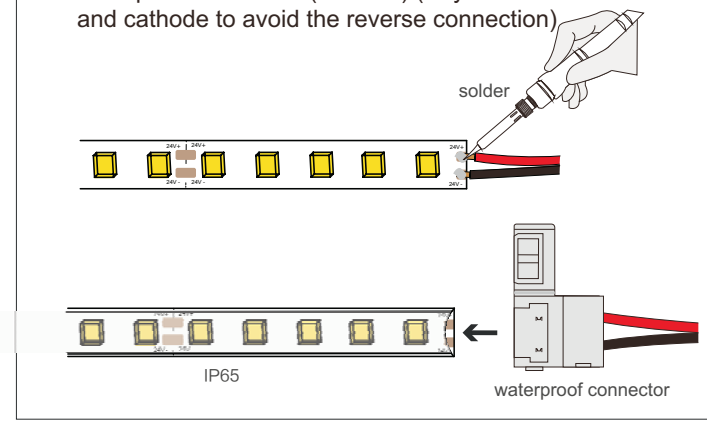
Installation(IP20/IP52)

1 Mount the power supply on a right place

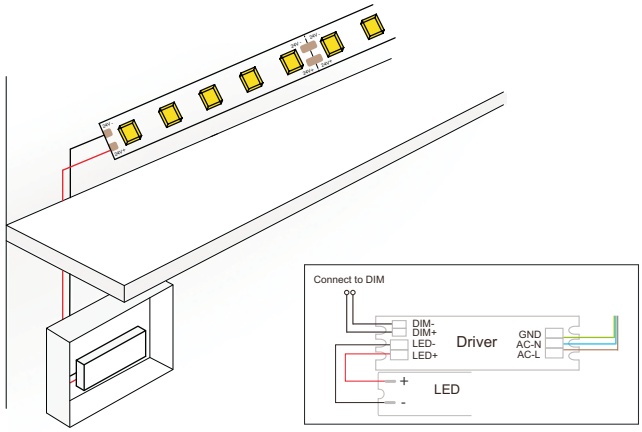
⚠ Do not touch with wet hands or there is a risk of electric shock



2 Connect the standard wire to the strip by soldering or waterproof connector (for IP65) (Pay attention to the anode and cathode to avoid the reverse connection)



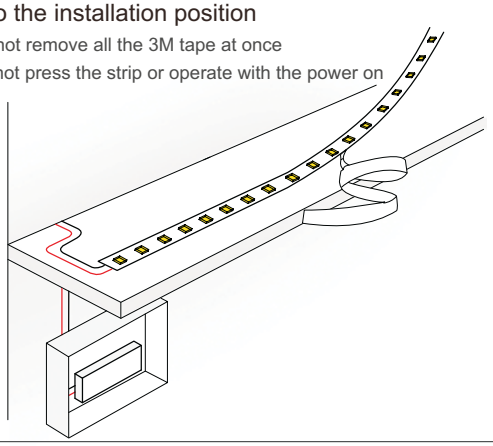
3 Connect the standard wire of strip to the power wire



4 Remove the 3M tape from the connection and attach the strip to the installation position

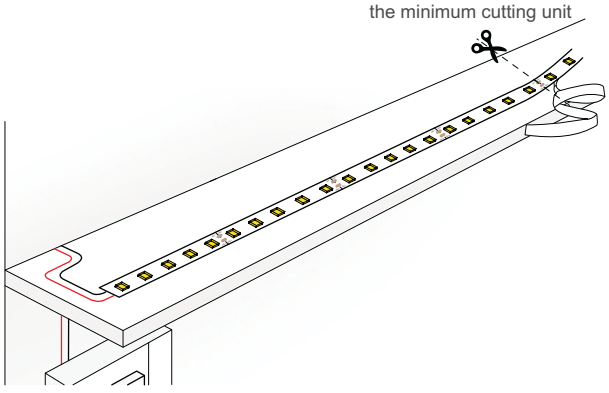
⚠ Do not remove all the 3M tape at once

⚠ Do not press the strip or operate with the power on

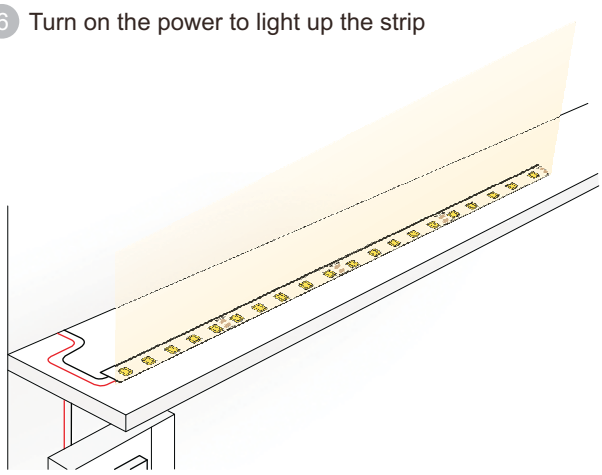


5 Cut the strip in accordance with the required length

⚠ Cut the strip at the minimum cutting unit



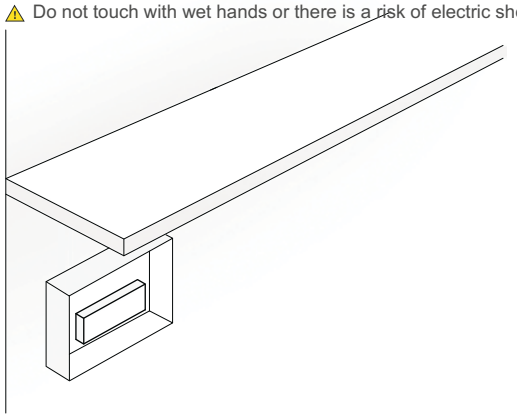
6 Turn on the power to light up the strip



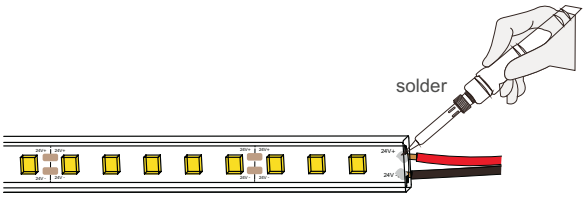
Installation(IP65H/IP65/IP67/IP67E/IP68)

1 Mount the power supply on a right place

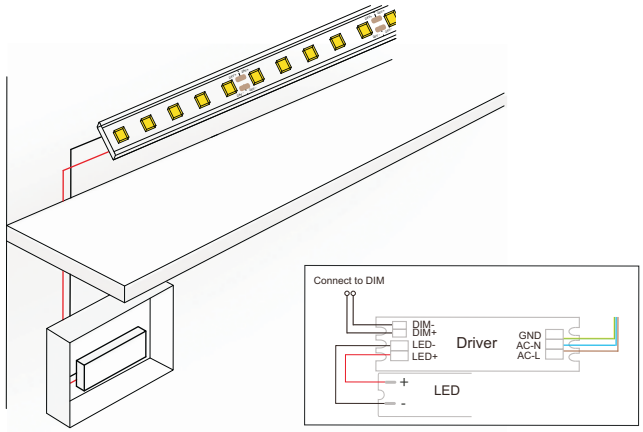
⚠ Do not touch with wet hands or there is a risk of electric shock



2 Connect the standard wire to the strip by soldering or waterproof connector (for IP67or IP68) (Pay attention to the anode and cathode to avoid the reverse connection)



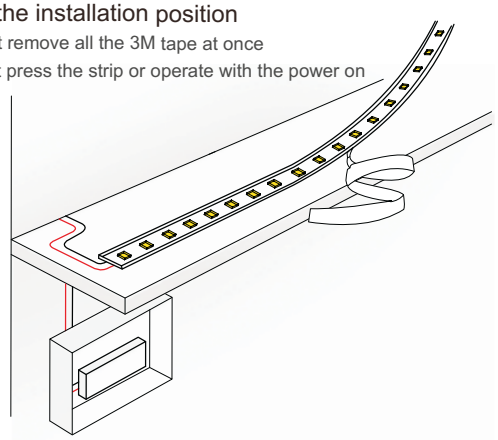
3 Connect the standard wire of strip to the power wire



4 Remove the 3M tape from the connection and attach the strip to the installation position

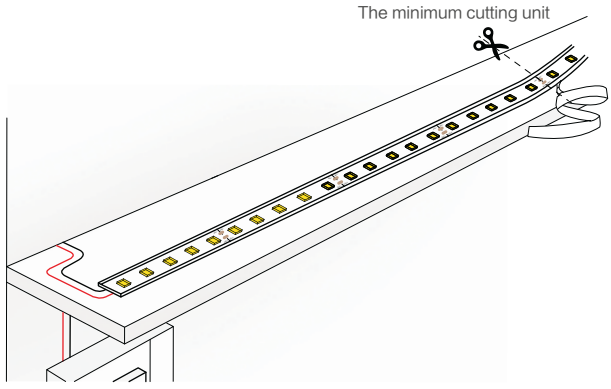
⚠ Do not remove all the 3M tape at once

⚠ Do not press the strip or operate with the power on

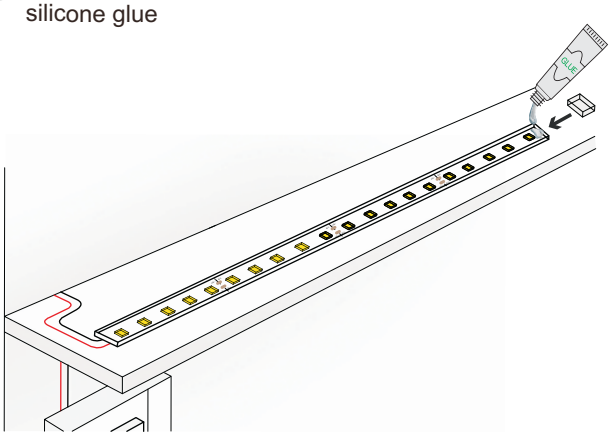


5 Cut the strip in accordance with the required length

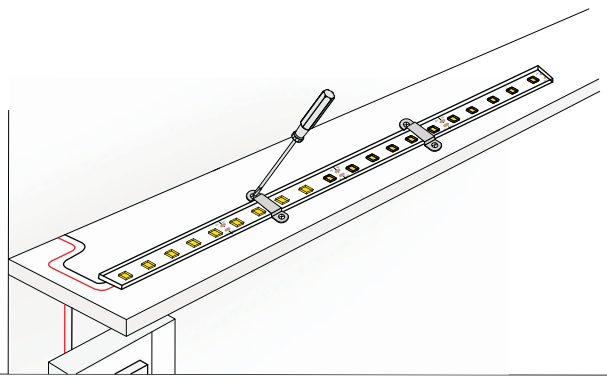
⚠ Cut the strip at the minimum cutting unit



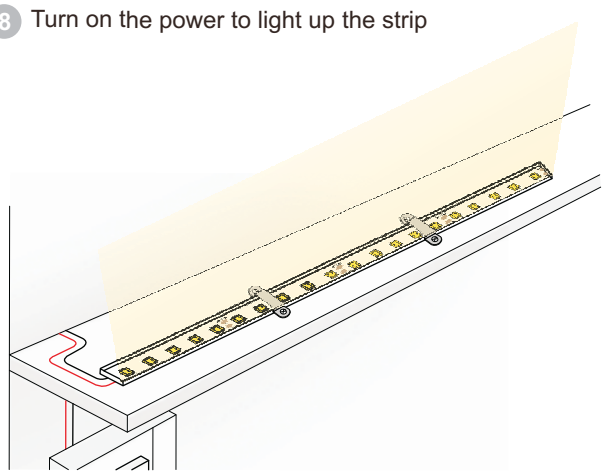
6 Install the end cap without hole at the end of cutting with silicone glue



7 Fix the strip on the installation position with clips



8 Turn on the power to light up the strip



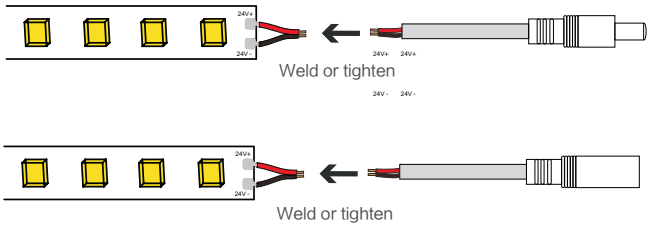
Accessories

Wire Connector

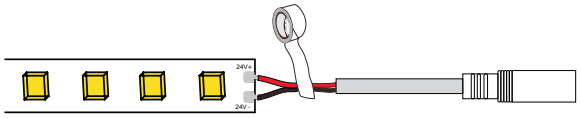
1. Wire

DC male wire/DC female wire

1. Weld or tighten the standard wires



2. Place insulation on the connection

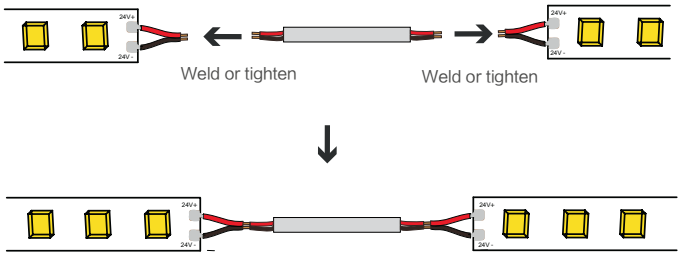


Connect the DC male to the DC female



Crystal wire

⚠ Place insulation on the connection

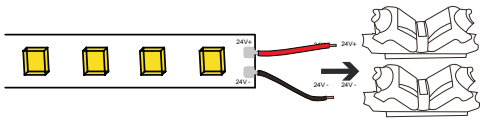


2. Wire Connector

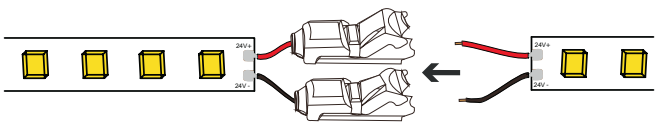
Single pin wire connector

⚠ Suitable for the outer diameter of wire less than 2.1mm

1. Connect the standard wires to the single pin wire connectors



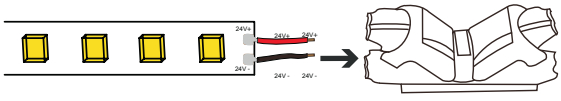
2. Connect the standard wires to the single pin wire connectors(do not confuse the anode with the cathode)



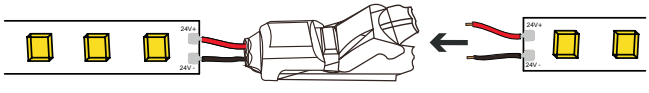
Dual pin wire connector

⚠ Suitable for the outer diameter of wire less than 2.1mm

1. Connect the standard wire to the dual pin wire connector



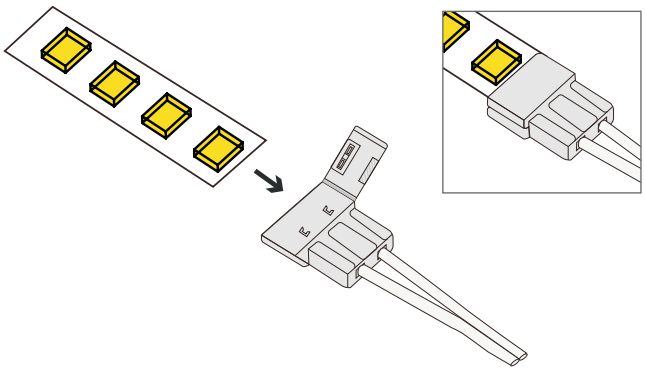
2. Connect the standard wire to the dual pin wire connector (do not confuse the anode with the cathode)



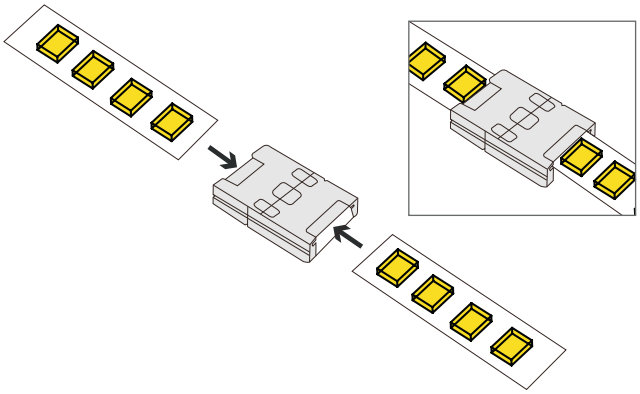
Connectors

1. Non-Waterproof Connector

Input connector



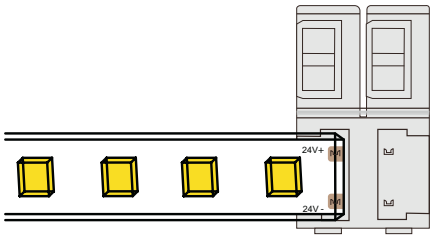
Connector



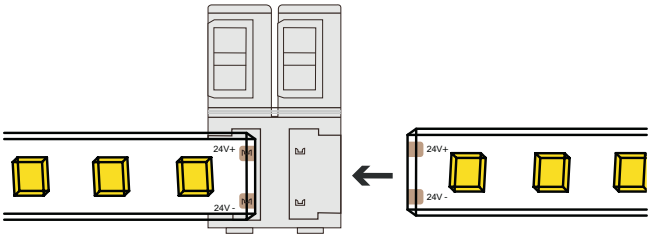
2. Waterproof Connector

Waterproof Connector

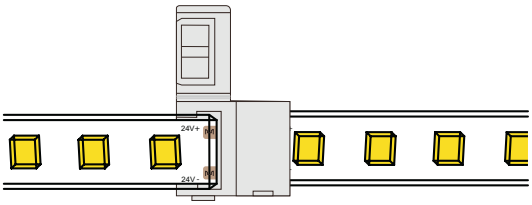
1 Fix the strip on one end of the connector with copper foil



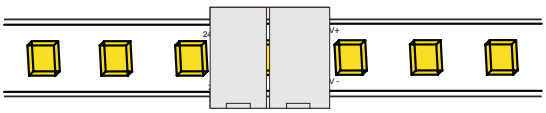
2 Fix another strip on the other end of the connector



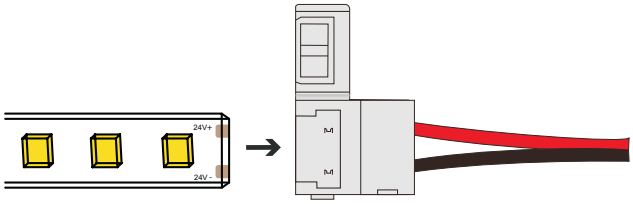
3 Press the cover of the connector

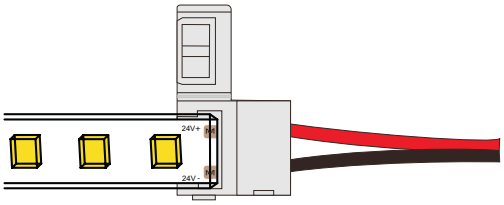


4 Finished

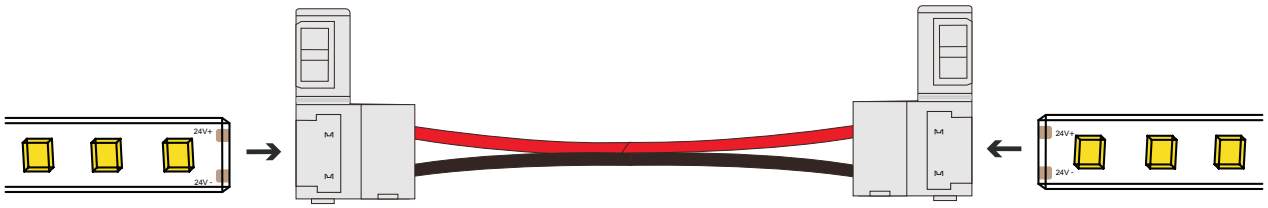


FPC Connector (waterproof)



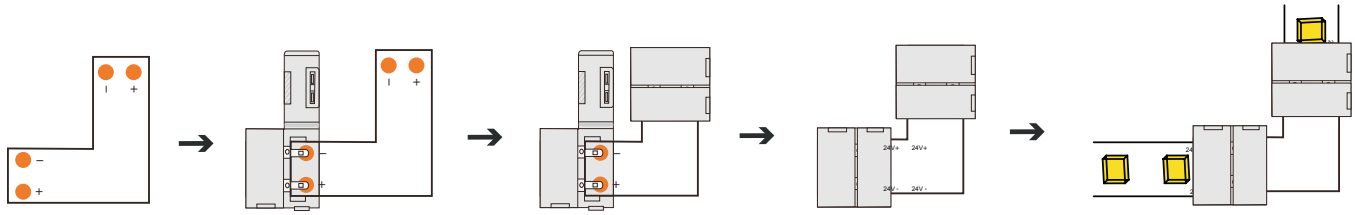


FPC Extender (waterproof)

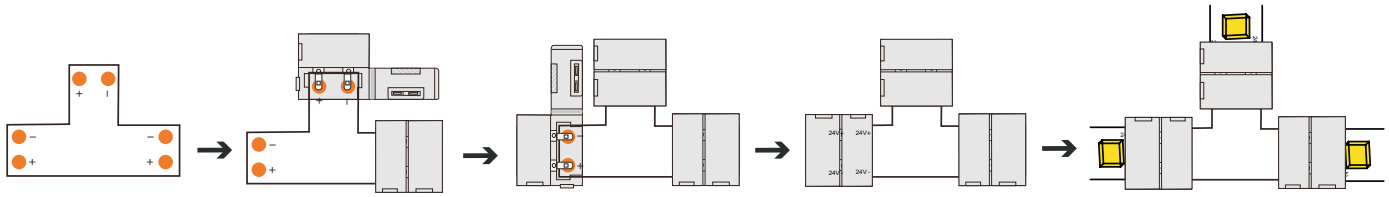


3. Connection

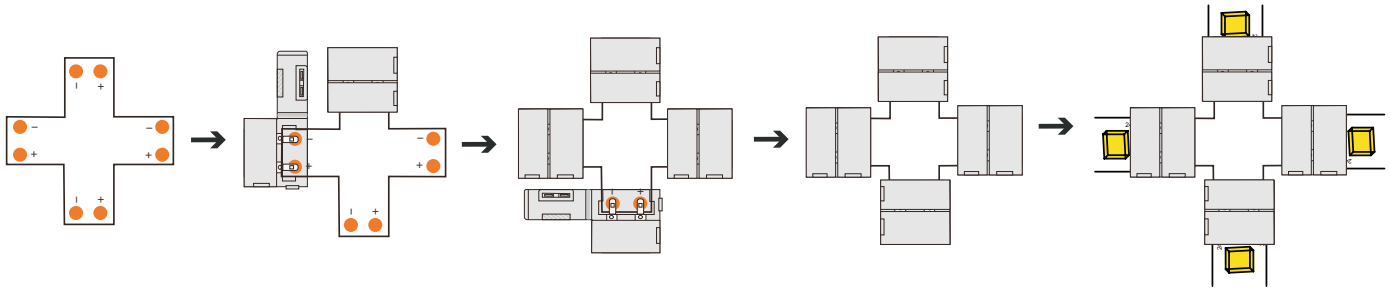
L Connection



T Connection

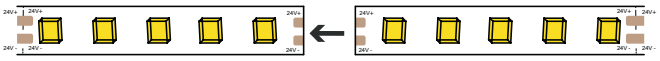


+ Connection

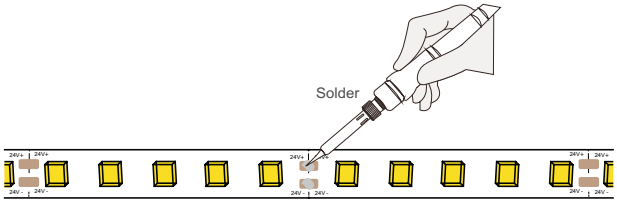


4. Soldering

1 Align the strips after cutting (Do not confuse the anode with the cathode)

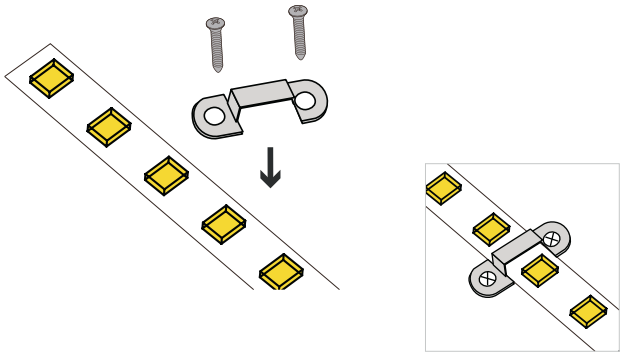


2 Finished

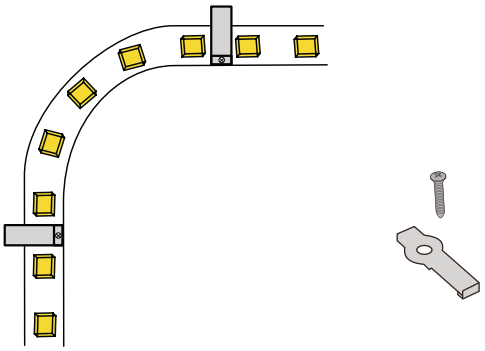


Fixed Accessories

Fixed clip



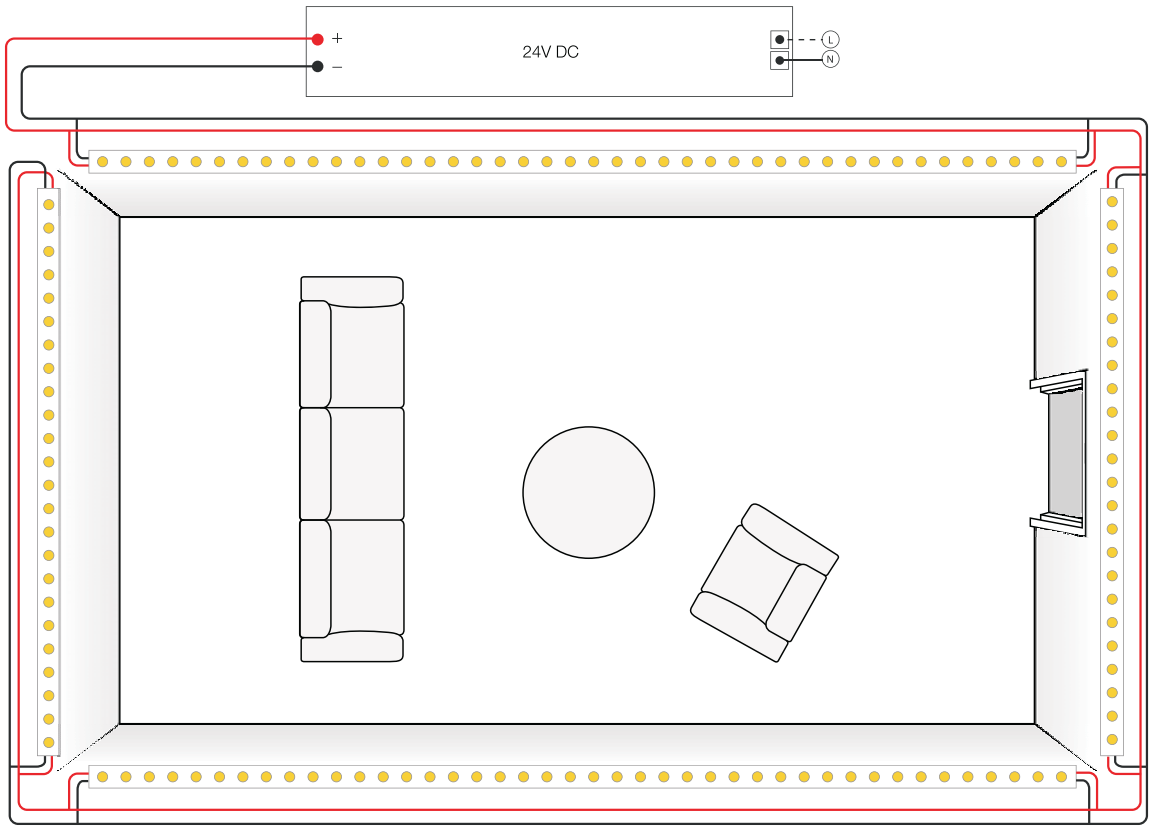
Fixed clip



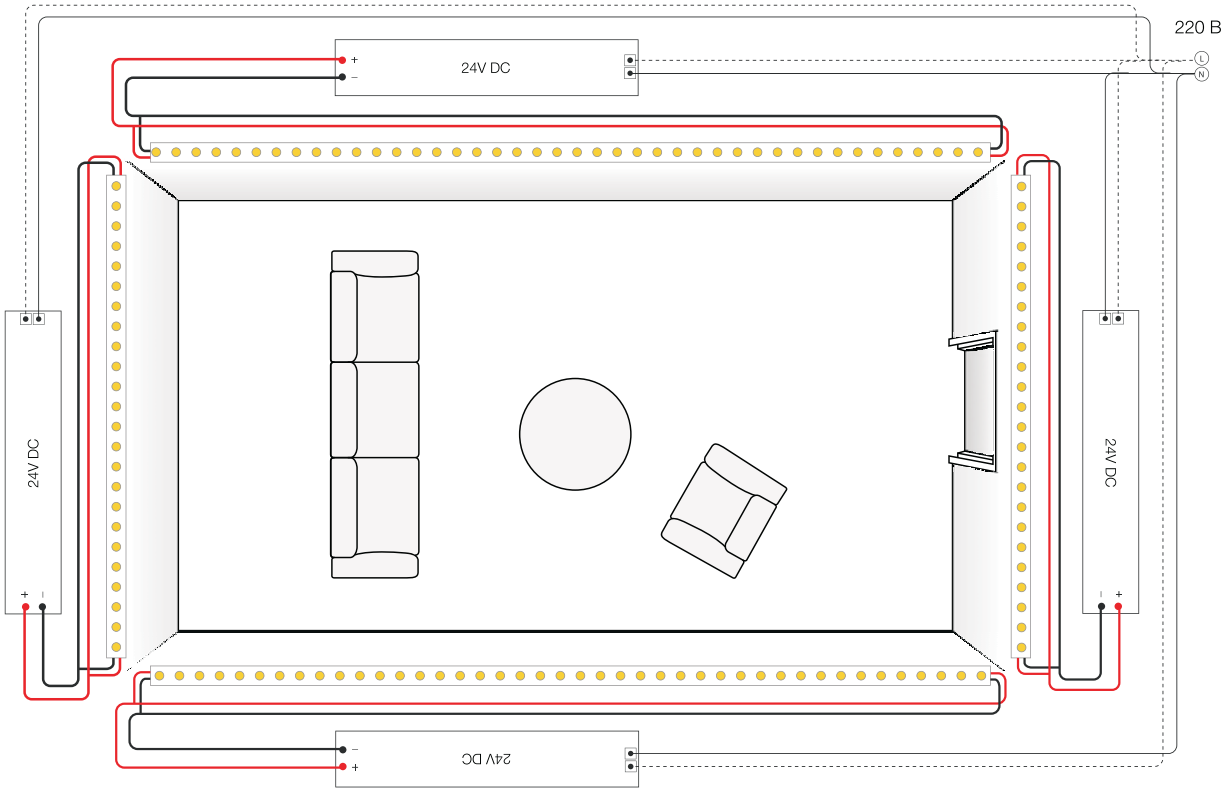
Instruction of power supply

1. Connect multiple strips to one power supply

⚠ When L<5m: connect one end of the strip to the power supply under constant voltage;When 5m<L<10m: connect dual ends of the strip to the power supply under constant voltage

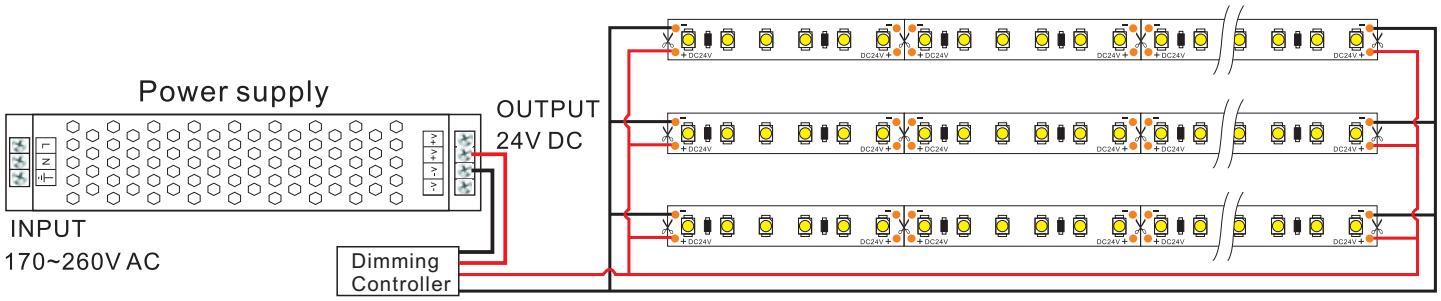


2. Connect multiple strips to multiple power supplies

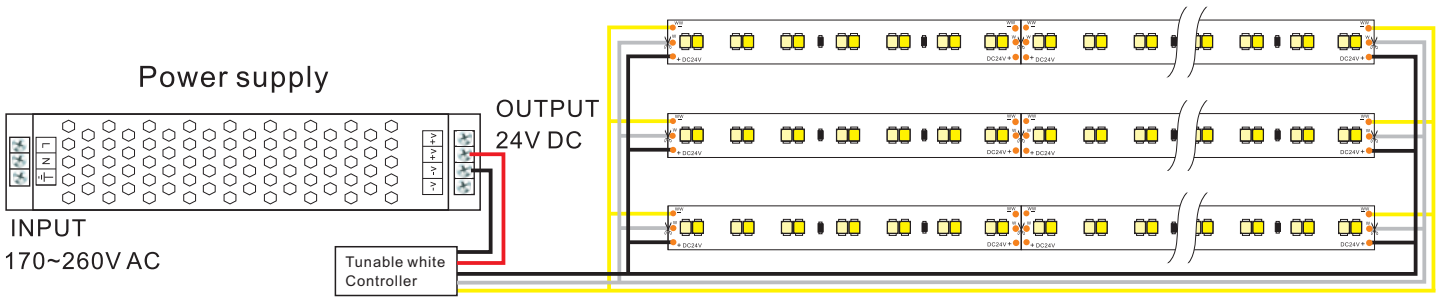


Instruction of Controller

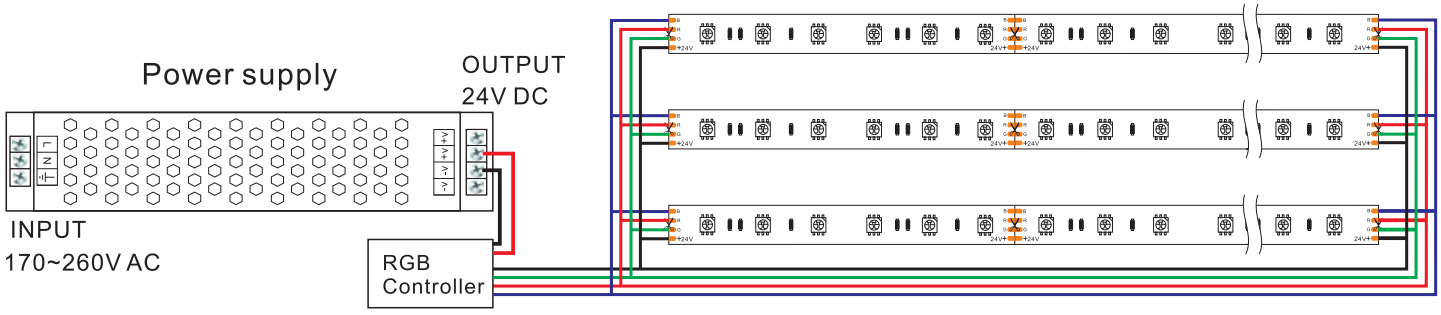
Single color strip (1 channel controller, SMD3528, 180LEDs, 24V, item NO.:LY180-S3528W-W24)



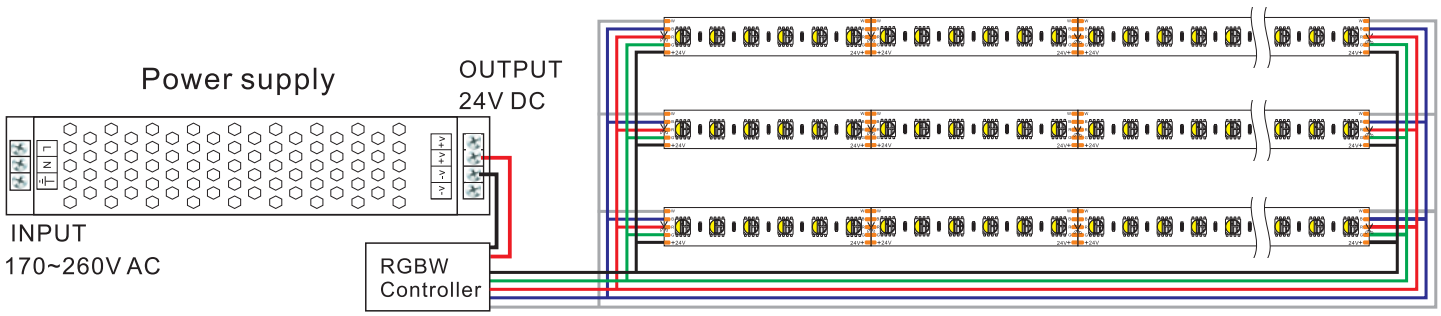
Tunable white strip(2channel, SMD2835, 112LEDs, 24V, item NO.: LY112-S2835TW-W24)



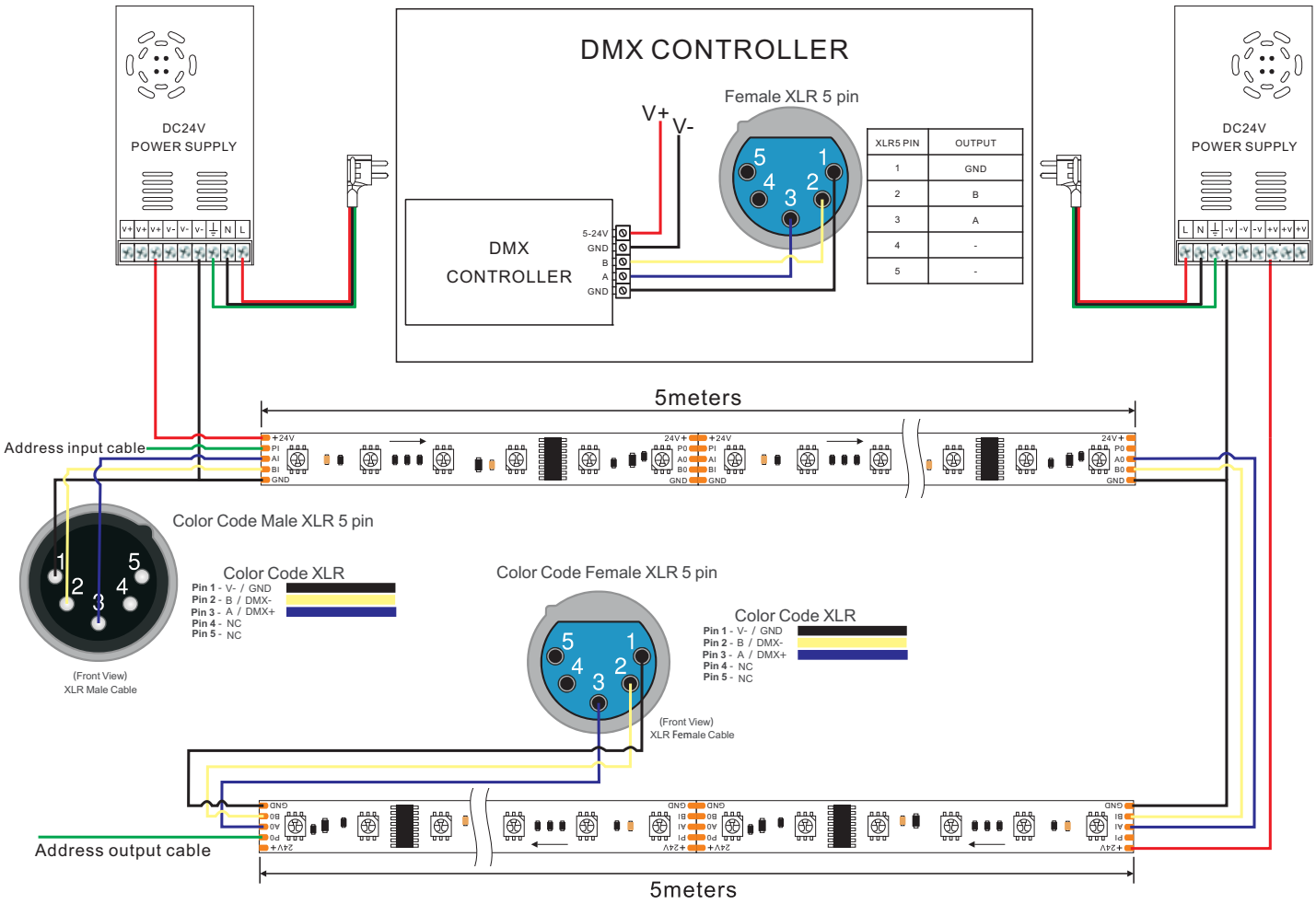
RGB color strip (3 channel, SMD5050, 60LEDs, 24V, item NO.:LY60-S5050RGB-W24)



RGBW color strip (4 channel, SMD5050 4 chip in 1 LED, 96LEDs, 24V, item NO.:LY96-LS5050RGBW-W24)



DMX512 RGB strip(DMX controller, DMX512, SMD5050, 60LEDs, 24V item NO.: LY60-DMXS5050RGB-W24)

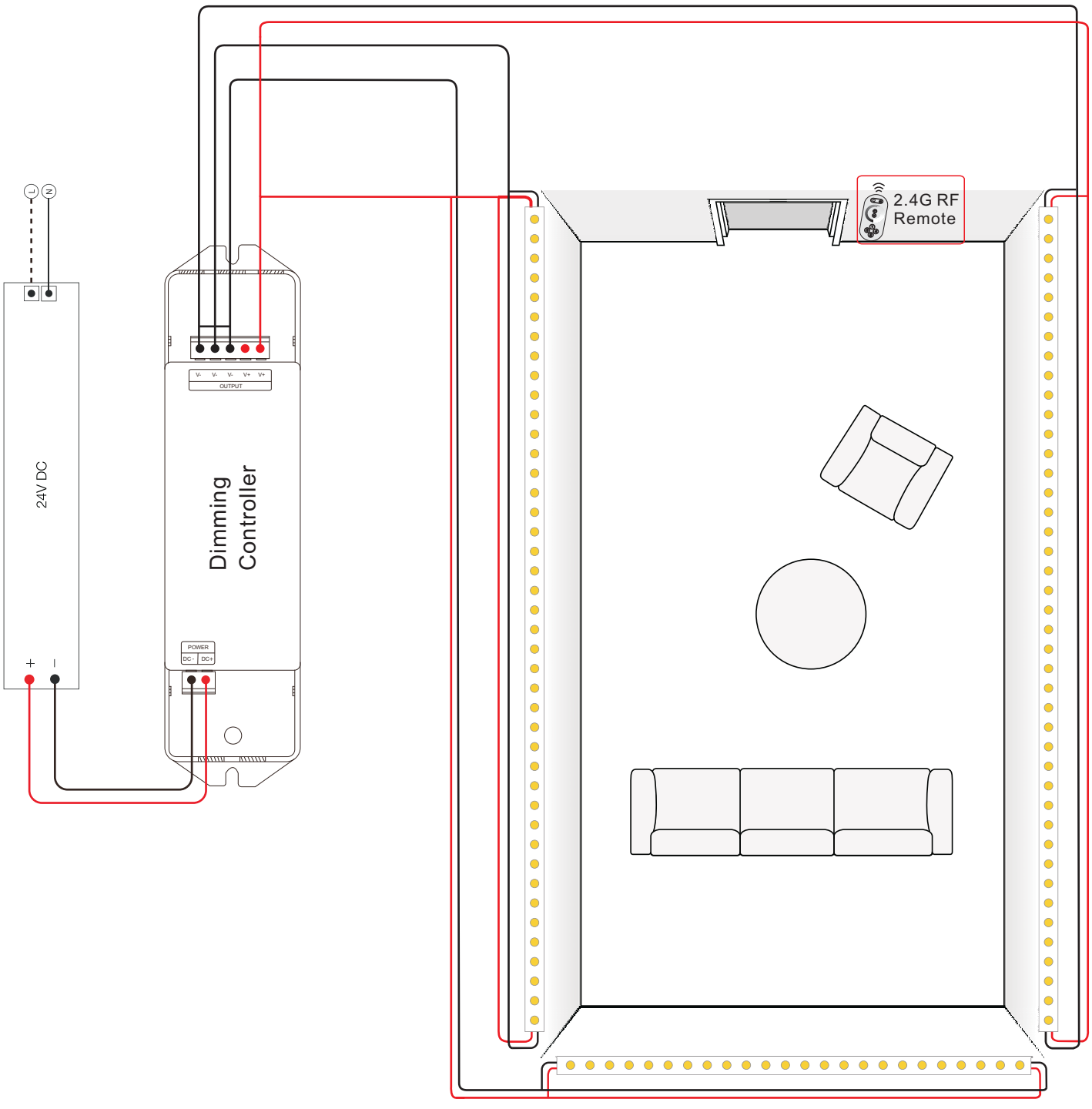


Important:

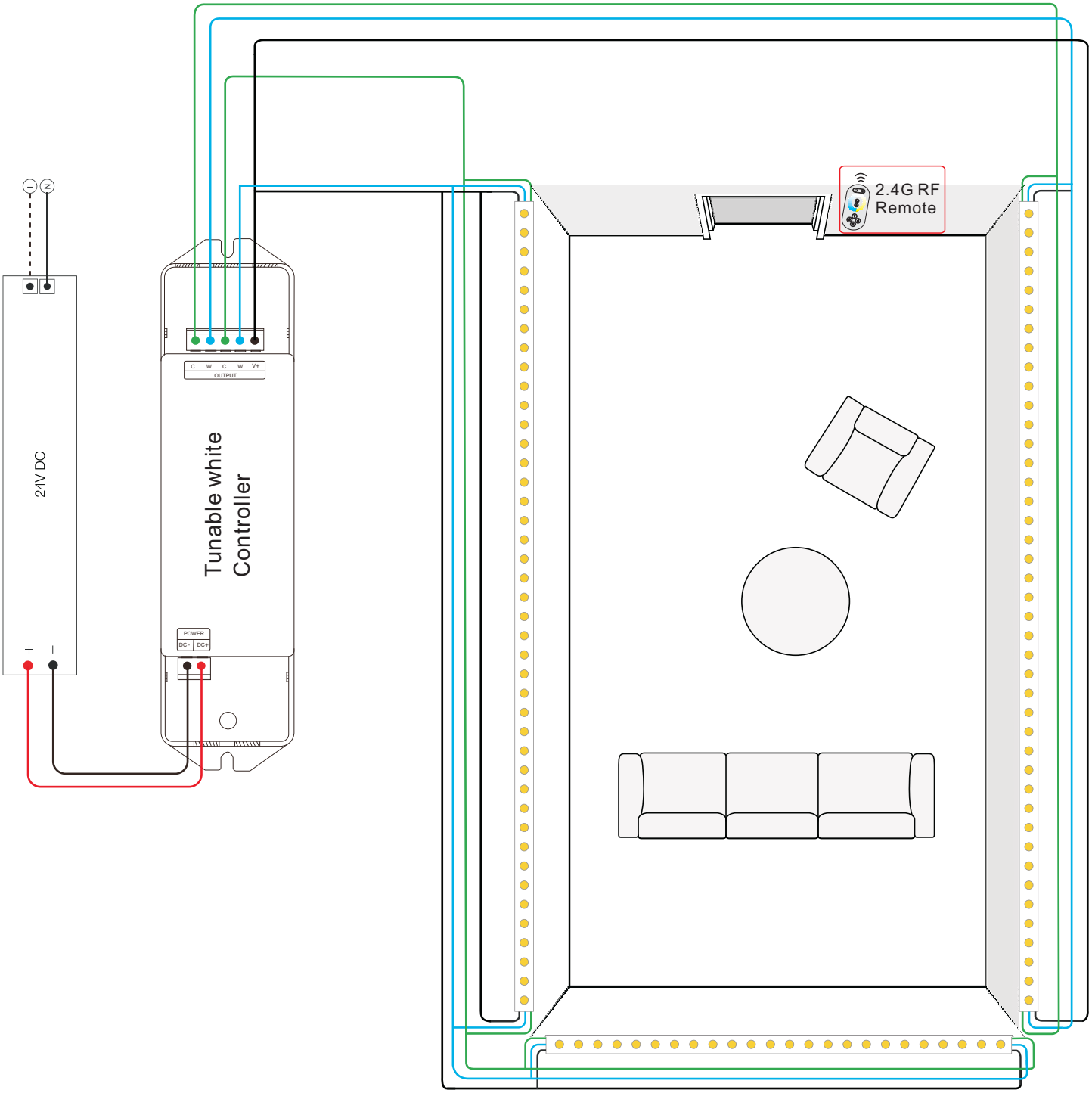
1. Regular DMX512 LED Strip not include the XLR connector, if need XLR connector, extra cost will be added.
2. If you want to change the starting address, you will need a DMX Address Editor, avaliable on our website.

Applications

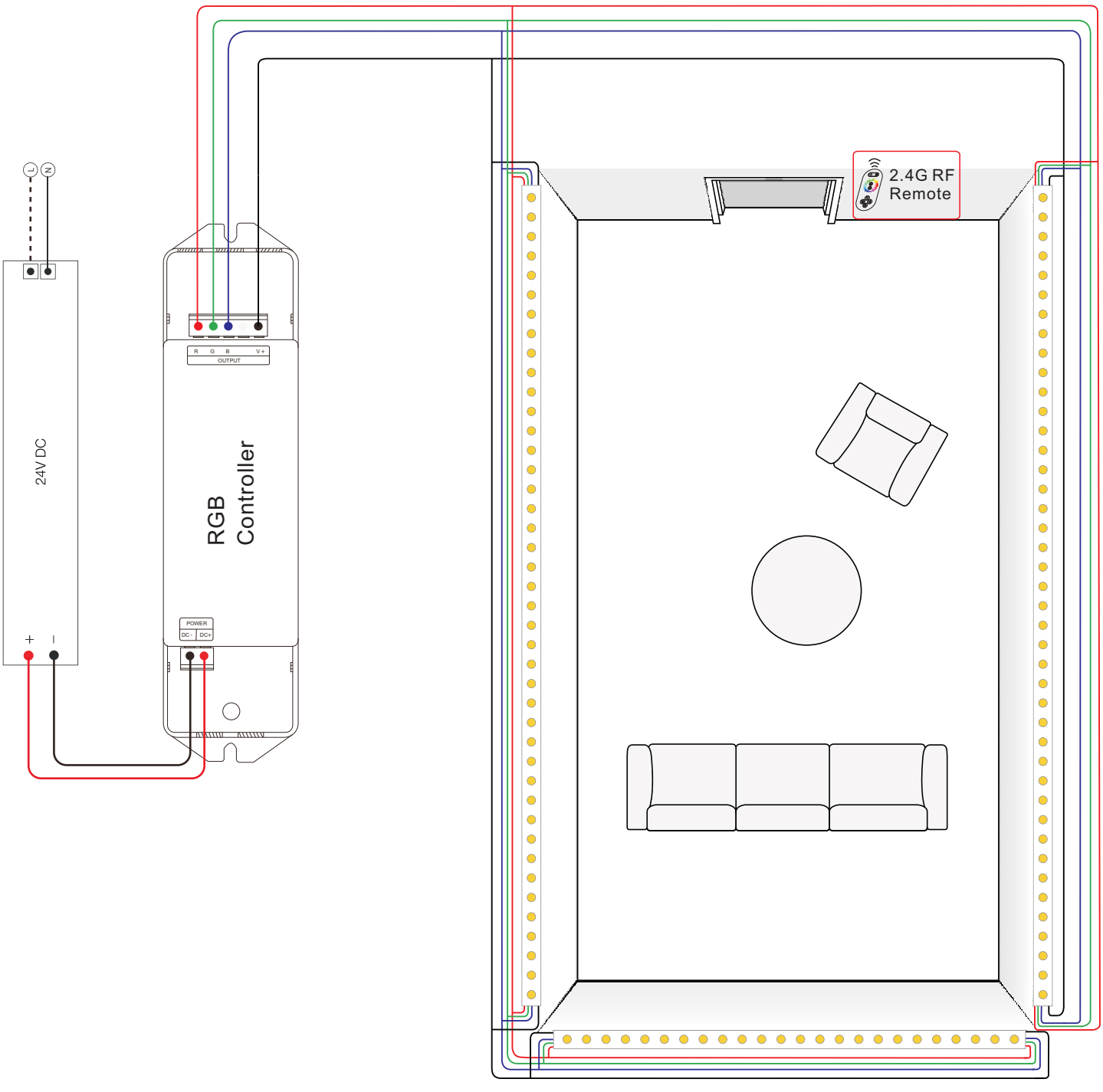
1. Dimming controller



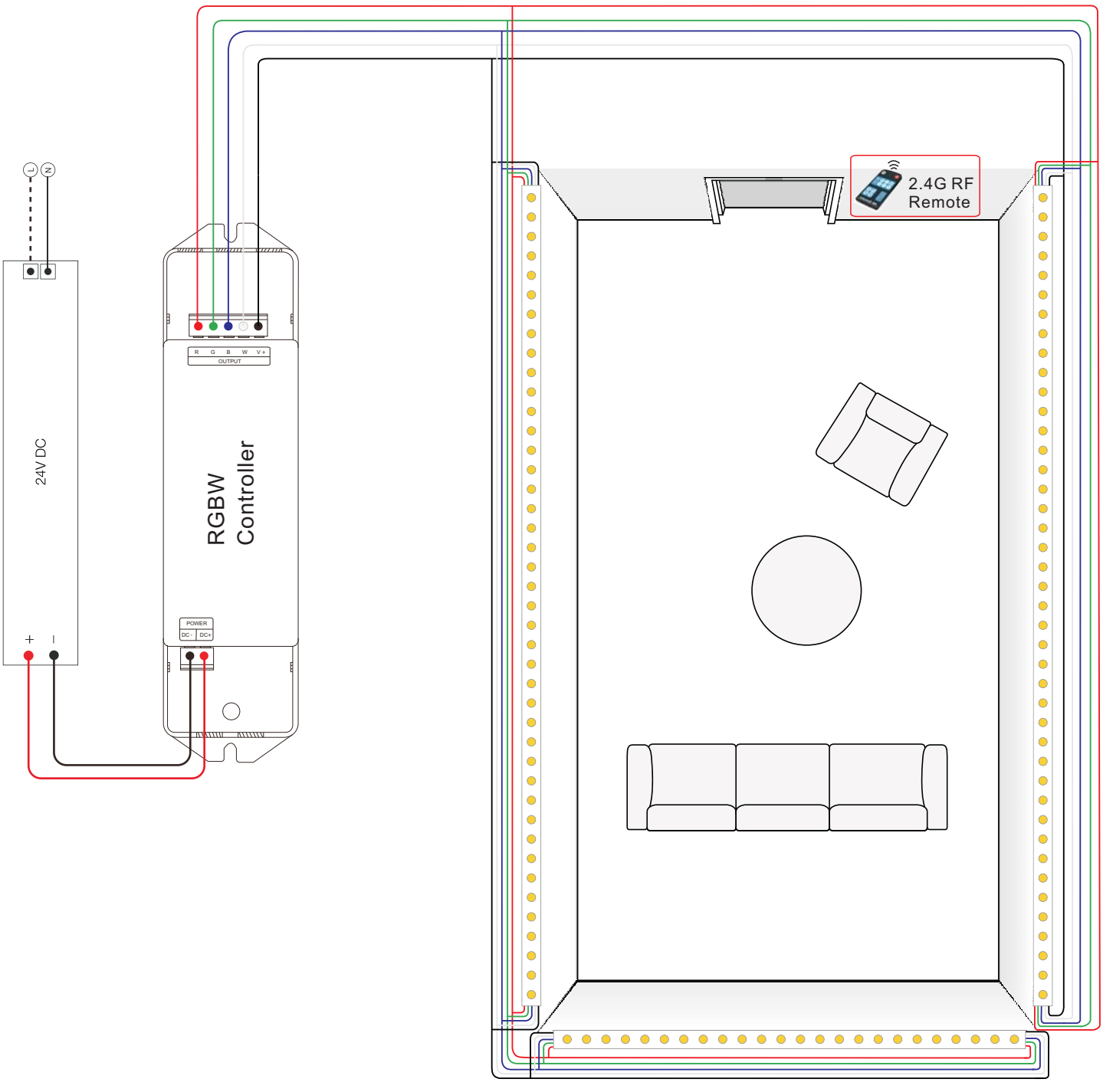
2. Tunable white controller



3. RGB controller



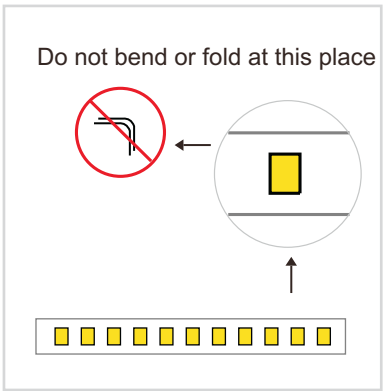
4. RGBW controller

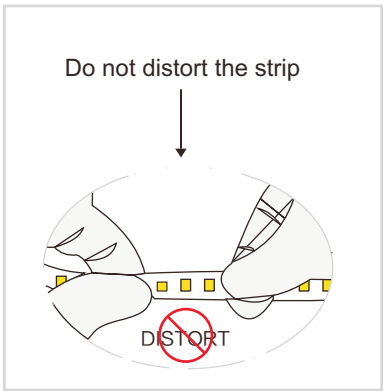


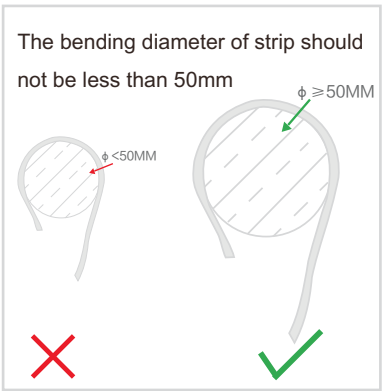
Precautions

Installation notes

1. Install in the space without chemicals like sulfur, acid, halogen.
2. The temperature of the application environment should range from -20℃ to 50℃.
3. The quality of atmosphere should not be lower than the national secondary standard.
4. The non-waterproof strip (IP20) can only be applied in indoors with the humidity no more than 55%.
5. The silicone(PU) coting strip (IP52) can only withstand a little water for a short time instead of being exposed to the environment with humidity more than 80% for a long time.
6. The silicone tube waterproof strip (IP65) can withstand the influences from atmosphere, but it can only withstand a little water for a short time instead of being exposed to the environment with humidity more than 80% for a long time.
7. The silicone filling(IP67)/silicone extrusion(IP67E)/PU extrusion(IP68) waterproof strip, a product that is suitable for indoors and outdoors, can withstand 1m underwater pressure for a short time if it has been protected well from the extrusion and ultra-violet radiation.
8. To ensure the lighting effect, the power supply of every 5m long strip should be connected to a main power supply.
9. To ensure the long life span of strip, please do not pull the strip or power supply wire hard during installation and using.
10. To ensure the stability and long life span of strip, the bending diameter of strip should not be less than 50mm. The strip cannot be folded to prevent the LED beads from damage.
11. Please make sure the wire is connected to the anode and cathode correctly. The power output should be consistent with the voltage of the strip.
12. To avoid the damaged components caused by surge voltage or unstable current, please use the stable power supply.
13. Please leave 20% margin for the power supply to protect the strip from damage caused by overload.
14. Please make sure the product is well protected during installation and make an appropriate prevention from static.
15. The strip will dissipate heat during using, please make sure it has been placed at a ventilated place.
16. Do not light up the strip when it is rolled up.
17. LED strip storage environment: Temperature: 22-28°C, Humidity: 35-65%







Product Warranty

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.

FAQ

Q Why all the LED beads are not lit?

R Please check the following item:

1. If the power is on.
2. If the polarity is connected reversely.
3. If there is a short circuit in exterior power supply.
4. If there is a short circuit caused by automatic short-circuit protection for power supply.
5. If the fuse is burned, if there is, please replace the fuse.

Please take the appropriate measures to solve the problem if there is any problem listed above.

Q Why some strips are not lit?

R Please check the following item:

1. If every power supply is on.
2. If there is an error in circuit.

If there is, please check the power supply circuit to eliminate the faults.

Q Why there is inconsistent brightness in LED or the LED is not bright enough?

R Please check the following item:

1. If there is overload in power supply, if yes, please add more power supplies.
2. If there is too much loss in switching power supply circuit, if there is, please thicken the supply wire or make the power supply closer to the strip. Make sure the voltage of per five meter strip is kept above 95% of the rated voltage.
3. If there are too many strips connected in series, if yes, please adjust the numbers of strip to the numbers that can be driven by the power supply.

Q Why the LED flashes?

R Please check if the connection is in poor contact, if yes, please find out the bad unit.

Q Why some LED beads are not lit?

R Please check if it is caused by static breakdown, or by the faradic electricity breakdown of equipment, or by electricity leakage, if yes, please make sure the related electrical appliances are connected to the earth wire correctly and replace the LED beads.

LEDYI reserves the right to change the manual from time to time without further notice. LEDYI takes no liability concerning any loss due to mistakes in the manual. Replication of part or whole of the manual in any way is not allowed without permission from the company.