



x-Glo tunnel series

» **x-Glo-XX-XXX**

USER MANUAL

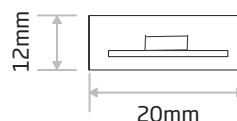
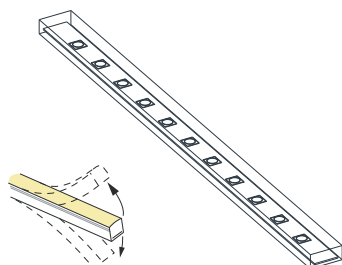
PLEASE READ THESE INSTRUCTIONS CAREFULLY
BEFORE INSTALLATION. LEAVE A COPY FOR THE
END USER/MAINTENANCE ENGINEER FOR FUTURE
REFERENCE



» SAFETY & CAUTION

1. DO NOT press on this product during storage. Long-term pressing may cause damage.
2. Disconnect the mains before making any cuts, installation, maintenance or connection.
3. Operate this light according to instructions, and make sure the working voltage aligns with product requirements.
4. The strip lights can NOT be illuminated when kept rolled up for more than 30 minutes, otherwise the heat in the middle of the roll will damage the PVC and silicone.
5. Confirm the polarity of the connector before inserting the front connection cable.
6. Connect and cut this product correctly. Any wrong operation will damage this product.
7. Use only factory-recommended connectors and accessories.
8. All diy connectors must be connected correctly to achieve IP67 rating.
9. Suitable for mounting on normally flammable surfaces.

» Dimensions of Light



Note: Unless otherwise specified, the tolerance of the dimensions is $\pm 0.3\text{mm}$.

» Technical Parameters:PVC Series

Color	White (6500K)	White (6500K)	White (6500K)	White (6500K)	RGBW (6500K)
Working Voltage	DC 48V	DC 48V	DC 48V	DC 48V	DC 48V
Rated Power/m	2W	5W	9W	12W	4W
LED Qty/m	48LEDs	48LEDs	48LEDs	72LEDs	96LEDs
LED Distance	20.83mm	20.83mm	20.83mm	20.83mm	83.3mm
Min. Cutting Unit	12LEDs(1unit)	12LEDs(1unit)	12LEDs(1unit)	12LEDs(1unit)	12LEDs(1unit)
Min. Cutting Length	250mm(1unit)	250mm(1unit)	250mm(1unit)	166.7mm(1unit)	125mm(1unit)
Continuous Length	200m(20m*1pc)	180m(20m*1pc)	120m(20m*1pc)	100m(20m*1pc)	70m(20m*1pc)
Weight/m	350g	350g	350g	350g	350g
Storing Temp.	-20~60°C	-20~60°C	-20~60°C	-20~60°C	-20~60°C
Ambient Working Tempeature	-20~55°C	-20~55°C	-20~50°C	-20~45°C	-20~55°C
Ambient Installation Tempeature	> 0°C	> 0°C	> 0°C	> 0°C	> 0°C
IP Rating	IP67	IP67	IP67	IP67	IP67

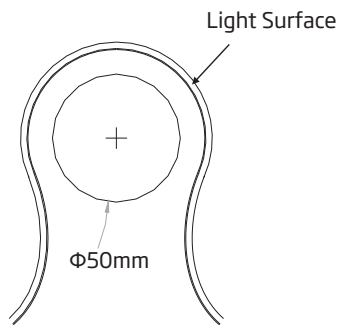
» Technical Parameters:Silicone Series

Color	White (6500K)	White (6500K)	White (6500K)	White (6500K)
Working Voltage	DC 48V	DC 48V	DC 48V	DC 48V
Rated Power/m	2W	5W	9W	12W
LED Qty/m	48LEDs	48LEDs	48LEDs	72LEDs
LED Distance	20.83mm	20.83mm	20.83mm	20.83mm
Min. Cutting Unit	12LEDs(1unit)	12LEDs(1unit)	12LEDs(1unit)	12LEDs(1unit)
Min. Cutting Length	250mm(1unit)	250mm(1unit)	250mm(1unit)	166.7mm(1unit)
Continuous Length	200m(20m*1pc)	180m(20m*1pc)	120m(20m*1pc)	100m(20m*1pc)
Weight/m	350g	350g	350g	350g
Storing Temp.	-40~60°C	-40~60°C	-40~60°C	-40~60°C
Ambient Working Tempeature	-40~65°C	-40~65°C	-40~60°C	-40~55°C
Ambient Installation Tempeature	> -40°C	> -40°C	> -40°C	> -40°C
IP Rating	IP67	IP67	IP67	IP67

» Optical Parameters

Photometric Data				
LED Type	SMD	PVC	Silicone	Power/m
Color	CCT	Lumen/m	Lumen/m	Power/m
6500K	6532±455K	>160lm	>180lm	2W
6500K	6532±455K	>400lm	>420lm	5W
6500K	6532±455K	>640lm	>700lm	9W
6500K	6532±455K	>950lm	>950lm	12W

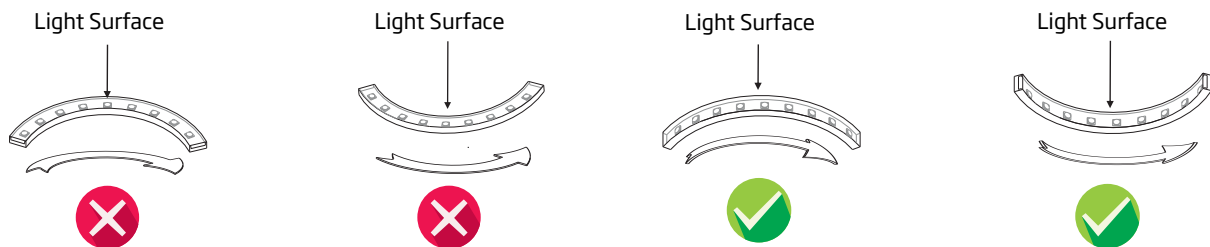
» Fig.2 Minimum bent diameter 50mm



» Fig.3 Twisting is forbidden.

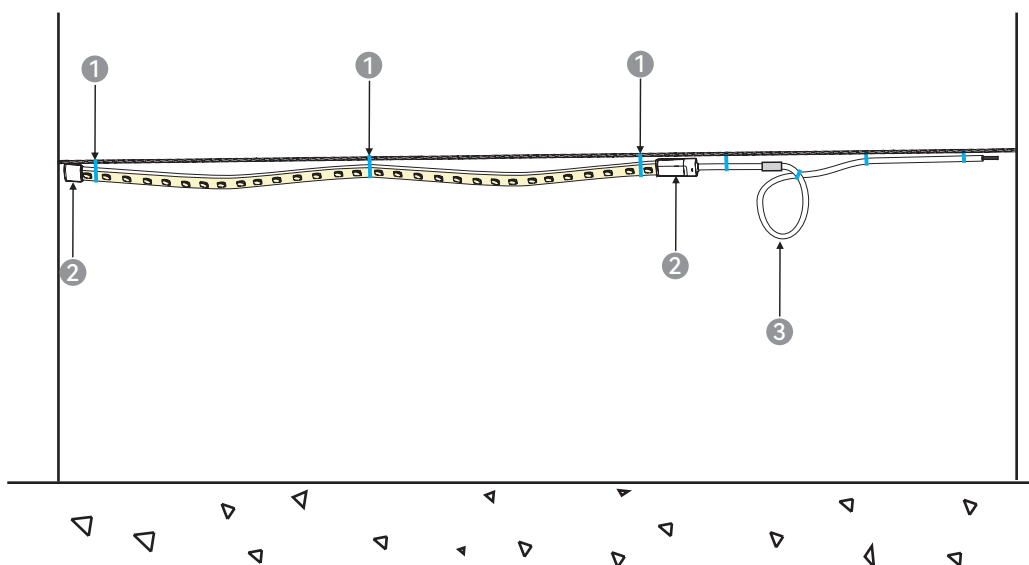


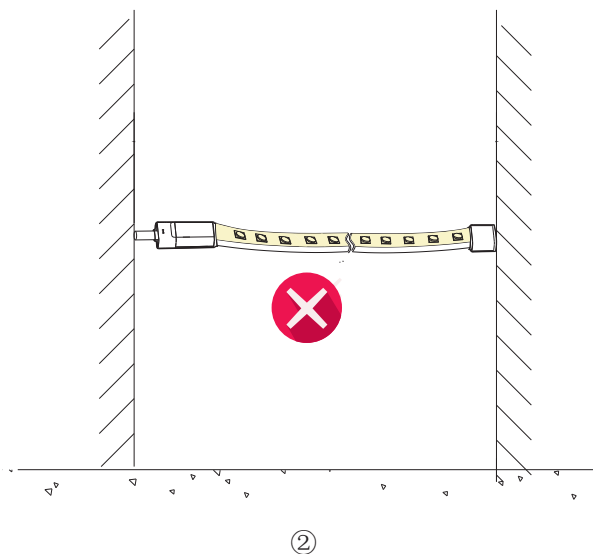
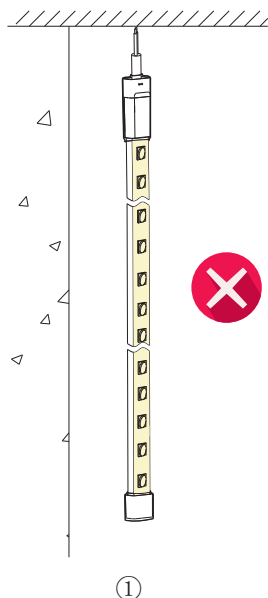
» Fig.4 Bend the light in the right direction.



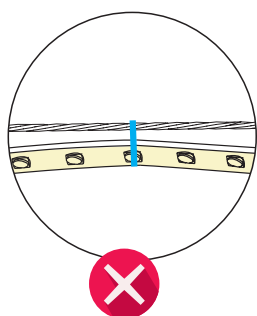
» Fig.5 How to Install Lights Safely and Correctly

- 1 Secure the light between two light sources to prevent damage.
- 2 Install the connector or end cap level with or above the light strip to prevent water buildup and potential failure.
- 3 Create a drip loop with the front-end cable to prevent water from collecting at the connector and causing failure.

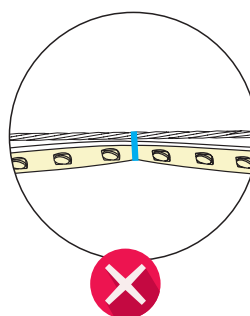




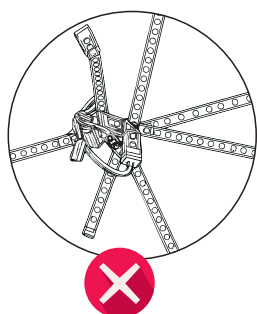
DO NOT leave the light hanging without support. Secure it properly to prevent damage.



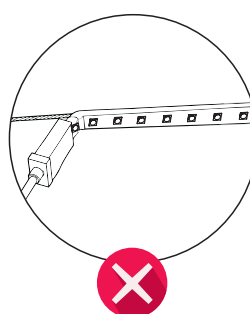
DO NOT attach the cable tie directly to the light source.



DO NOT fasten or squeeze the light body too tightly as it may damage the housing or internal parts.



DO NOT overlap light strips as this can cause overheating, yellowing, or shorten lifespan.

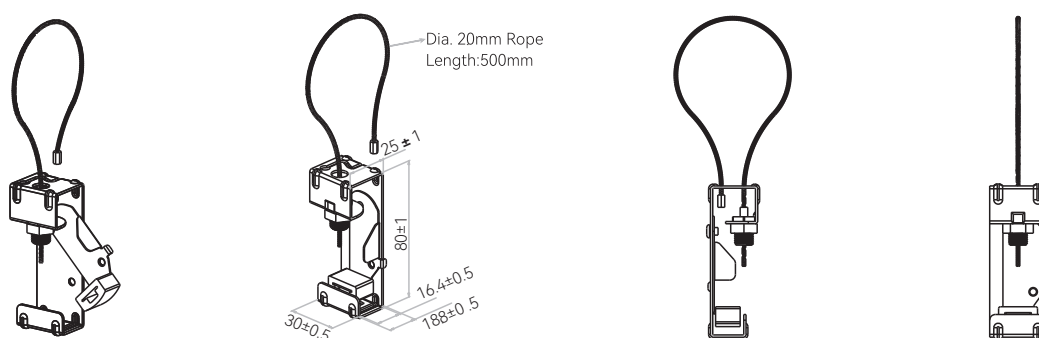


NEVER bend the light strip at a right angle as it can damage the PCB or cause failure.

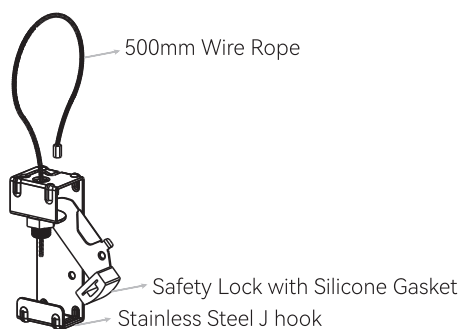
» Fig.5 Suspended Mounting



5.1 Dimension: mm



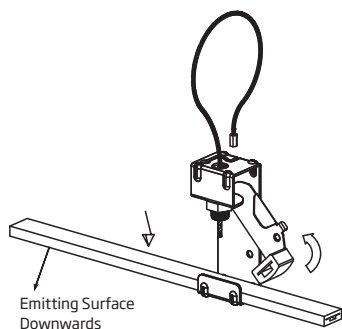
5.2 Main Components



5.3 Installation Instructions

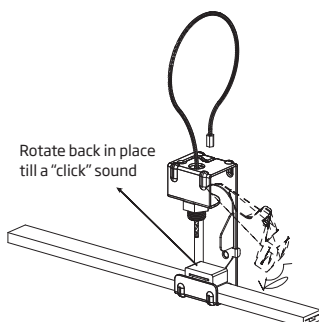
Friendly Reminder: please read instructions carefully before operation.

➤ Step 1



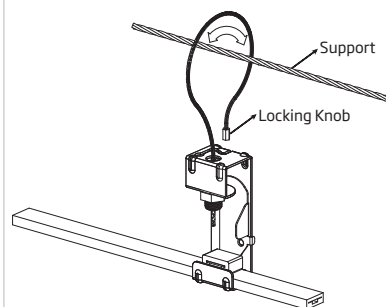
Rotate the safety lock outwards and put the LED strip in the J hook.

➤ Step 2



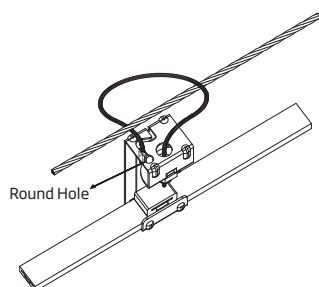
Rotate the safety lock back to press the led strip tightly.

➤ Step 3



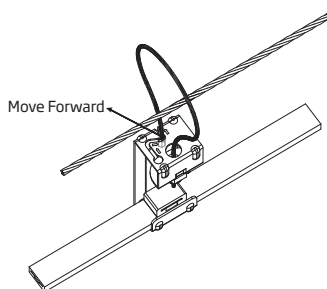
Wind the wire rope with the locking knob around the support.

➤ Step 4



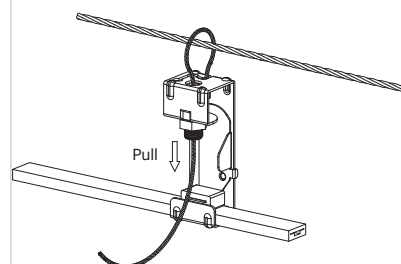
Thread the locking knob of wire rope through the round hole.

➤ Step 5



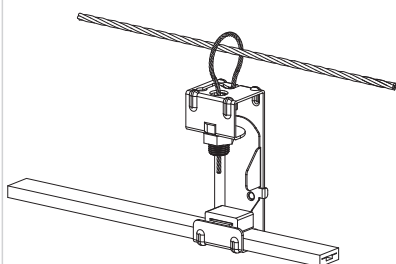
Move the wire rope forward to the end along with the arrows aside.

➤ Step 6



Pull the wire rope to adjust the height to the desired one.

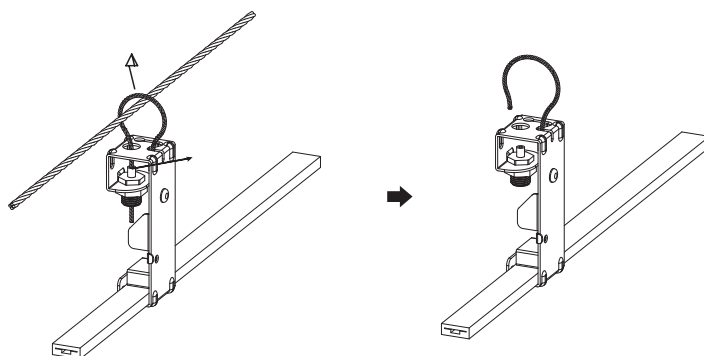
➤ Step 7



Cut or roll the excess wire rope.

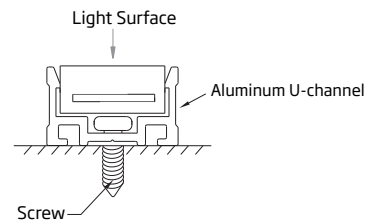
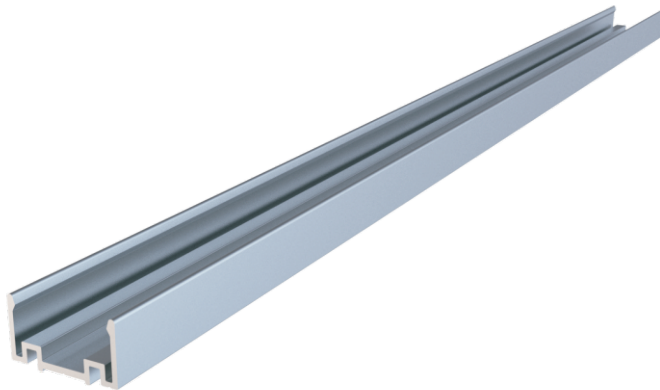
NOTE: The recommended quantity is 3pcs for every meter or adjustable based on the specific case.

➤ Tip



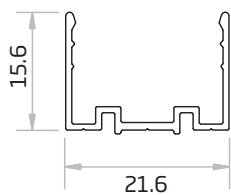
Push in the plunger of cable gripper to pull out the wire rope if needed.

» Fig.6 Surface Mounting

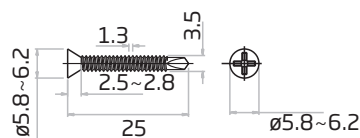


Install the light into the aluminum U-channel

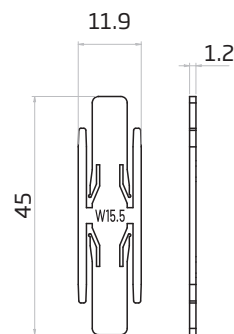
6.1 Dimension: mm



Tolerance(AL): ±0.3mm

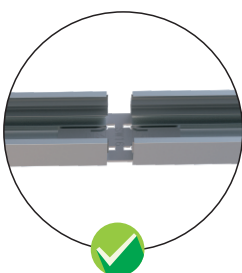


Screw



Joining Bracket (Optional)

6.2 Splicing



Locks the profiles together to avoid misalignment.



Please reserve at least 5mm for profile jointing to enable enough space for contraction and expansion.



Angular Misalignment

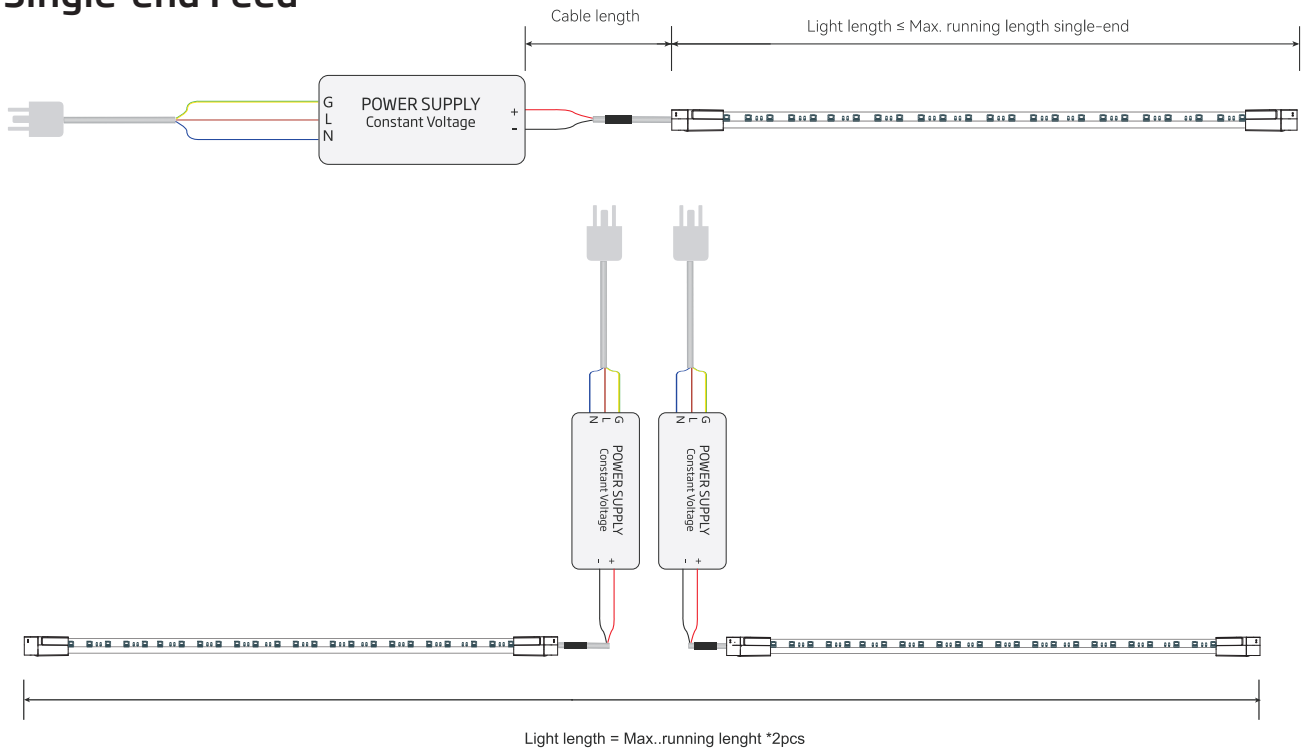


Parallel Vertical Misalignment



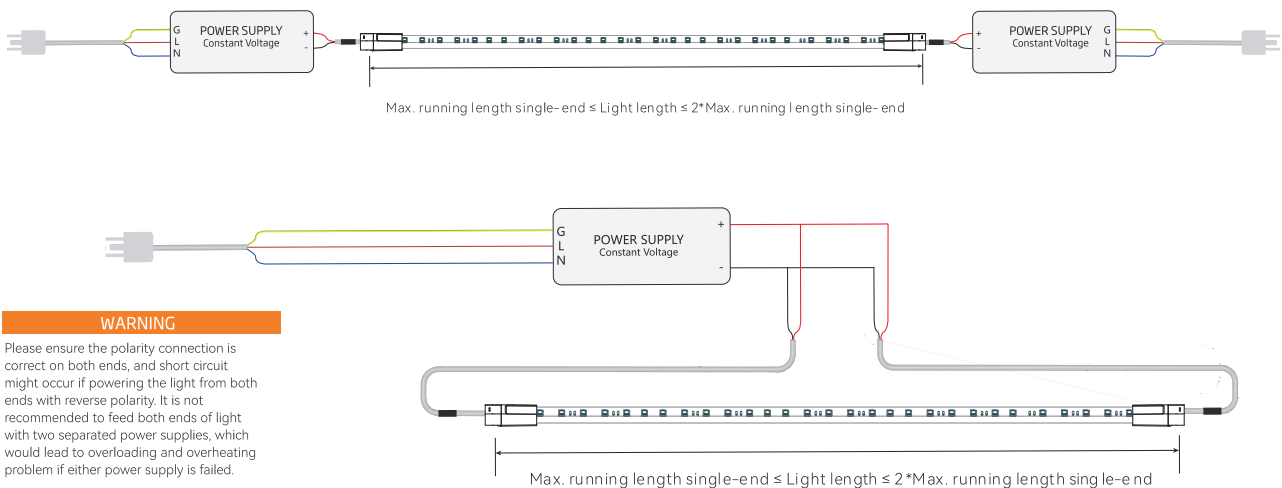
Parallel Horizontal Misalignment

Single-end Feed



Double-end Feed

The following wiring diagram with double-end feed to run length that is longer than max. running length for single-end feed but less than twice the value.



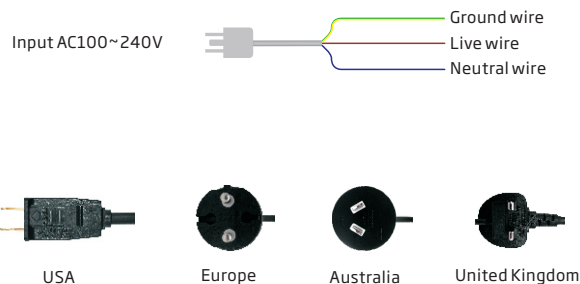
WARNING

Please ensure the polarity connection is correct on both ends, and short circuit might occur if powering the light from both ends with reverse polarity. It is not recommended to feed both ends of light with two separated power supplies, which would lead to overloading and overheating problem if either power supply is failed.

NOTE: For the AC light series, DO NOT power from both ends, as this may damage the lights.

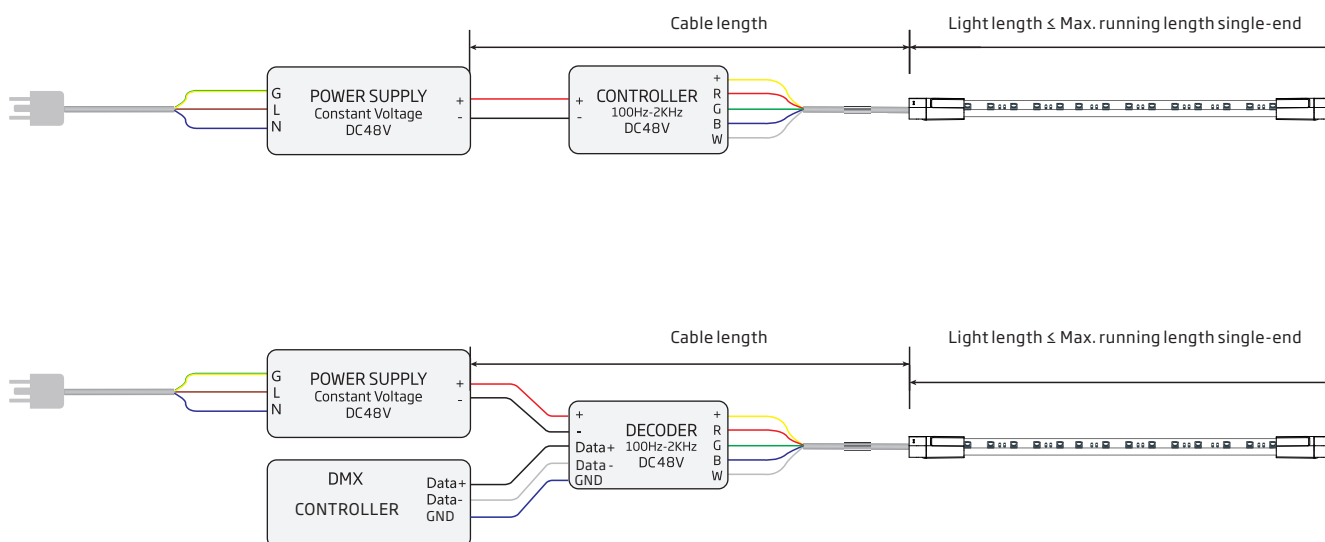
Wiring Diagram RGBW

1. Please use a constant voltage power supply with corresponding output voltage, and rated wattage of the power supply shall be 25% more than the actual power consumption of light to increase its life expectancy;
2. A compatible controller is required to achieve various light changing effects;
3. The rated power of controller/decoder shall be higher than the actual power consumption of light; its frequency range shall be 100~2000Hz, and 500Hz is recommended;
4. Full loading in RGBW is not recommended to avoid the overheating of light.
5. This wiring diagram is using the mains of AC230V with brown and blue wires as an example, and please connect with the corresponding live and neutral wires for other mains electricity;



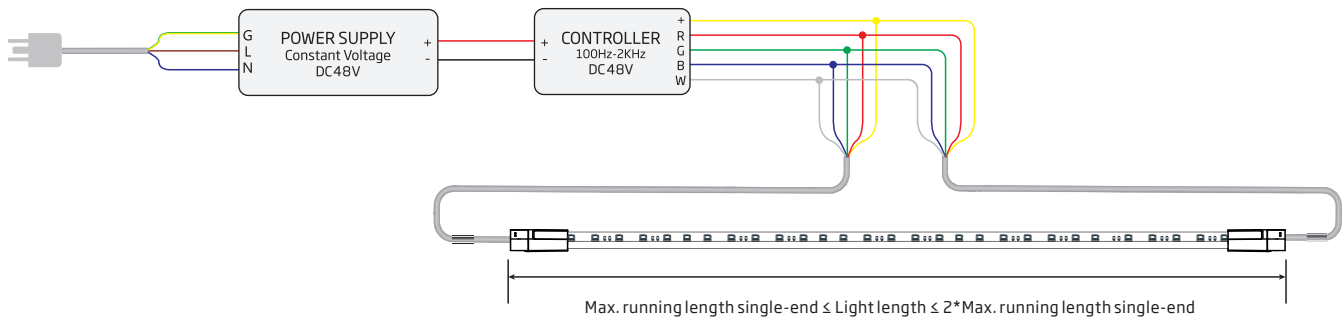
6. Types of standard plugs are optional if power cord is purchased from CLEAR.

Single-end Feed



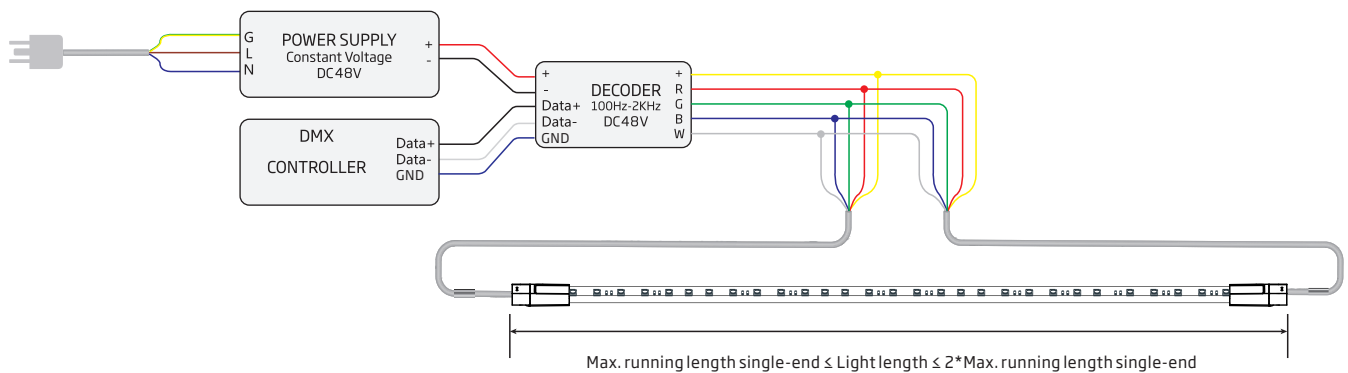
Double-end Feed

Please refer to the following wiring diagram with double-end feed to run length that is longer than max. running length for single-end feed but less than twice the value.



WARNING

Please ensure the polarity connection is correct on both ends, and short circuit might occur if powering the light from both ends with reverse polarity. It is not recommended to feed both ends of light with two separated power supplies, which would lead to overloading and overheating problem if either power supply is failed.



NOTE: For the AC light series, DO NOT power from both ends, as this may damage the lights.

Global (LED) Lighting Solutions Ltd warrants to the original purchaser, x-Glo LED light strip finished products to be free of manufacturing defects in material and workmanship and shall operate in accordance with the standard product specifications, furthermore the:

- Warranty for x-Glo low voltage LED light strip products shall expire sixty (60) months from the date of manufacture as printed on the back of the LED light strip (Refer week/year).
- Warranty for x-Glo Low voltage LED light strip products cover usage time of 24 hours per day 7 days per week.
- Warranty for x-Glo high voltage LED light strip products shall expire Twenty-four (24) months from the date of manufacture as printed on the back of the LED light strip (Refer week/year).

The above warranties and remedies are conditioned upon:

- a) The product is properly handled, installed and maintained according to official latest instructions or manual of x-Glo and applicable regulation standards.
- b) The buyer provides proof purchase with a copy of the original purchase order and invoice.
- c) The buyer can demonstrate the proper storage, installation, use, operation and maintenance of the x-Glo LED light strip in accordance with the product specifications.
- d) Modification or repair of the product can only be authorized by the seller in writing.
- e) The correct external power supplies are used in accordance with voltage and wattage specifications for the x-Glo LED light strip.
- f) The external power supply used must have corresponding international certification.

Failure to meet any such conditions renders the warranty null and void.

This is not a service contract, and the warranty does not include maintenance, cleaning or periodic checkups.

Parts not covered by the warranty include, fuses, external power supplies, third party items not manufactured by x-Glo.

If the x-Glo LED covered by this warranty fails to operate as specified, the buyer shall promptly notify the seller in writing prior to the expiration date of the warranty period. x-Glo reserves the right to re-call a sample of the product to be sent to the seller for further investigation of the fault / damage. A full investigation will be done by the manufacturer which includes the return of the 8D Corrective Action Report which covers all aspects of the failure and damage. The seller shall then at their own discretion, repair or replace the product or the defective part. This does not include the removal or the reinstallation costs or expenses, including, without limitation, any labor costs or expense relating to the shipping costs or any damages that may occur returning the product or the supply of the new product.

If x-Glo chooses to replace the product and is not able to do so because it has been discontinued or is not available, x-Glo may replace it with a comparable product. X-Glo reserves the right to use new, reconditioned, refurbished, repaired, or remanufactured products or parts in the repair or replacement of any product covered by this limited warranty. Please note that lighting properties of replacement products may differ from the original product due to technical advancements and usage-related changes in the light flux and light colour.

The warranty period is neither extended nor renewed if the product is repaired.

x-Glo reserves the right to make changes in design and/or improvements upon its products and accessories without any obligation to include these changes in any products theretofore manufactured.

Exclusion of Warranty:

- a. Warranty period has expired.
- b. Legal proof-of-purchase invoice or PO numbers are not provided, or are reasonably believed to have been forged or tampered with.
- c. Damage caused by improper installation, wiring, storage, transportation, incorrect use, bending or operation not in accordance with the official latest instructions or manual.
- d. Damage caused by unauthorized modification, dissection, soldering, or any deliberate damage or losses.
- e. Damaged caused by the carrier in-transit, which will be handled under separate terms (Purchaser's designated consignee is responsible for all eight claims; x-Glo will be available to assist in such matters if proving forward service).
- f. Accessories or attachments to the product that are not supplied or approved by x-Glo and led to the damage.
- g. The product is not used for the purpose for which designed or if any repairs, alterations or maintenances are made by any person not authorized by x-Glo
- h. Product silk printed serial numbers, crimped waterproof ring show signs of tampering or removal.
- i. Conditions demonstrating misapplication, under/over voltage situations, extreme environmental conditions beyond those defined in the product specification.
- j. Abrasions and natural appearance variations (i.e. dusty, fouling, etc.) that do not affect the function of the product.
- k. Direct or indirect losses caused by force majeure (i.e. vandalism, natural disaster, warfare, acts of terrorism, riots, fire, explosion, etc.).

Freight

Transportation cost for return product will be carriage paid (at the cost of the claimant). If the product was found to be defective after inspection, x-Glo will reimburse the freight cost by deducting it from future order and bear the cost of replacement or repaired product delivery x-Glo will, at its own discretion, select the shipping way); if the product was found not to be defective or exclusion of warranty, the claimant shall bear all the return expenditures and need to re-purchase the product if requires replacement.

All products covered by this warranty were manufactured after January 1, 2018, and bear identifying code to that effect. This warranty is the only written warranty applicable to x-Glo Products and supersedes all prior warranties and written descriptions of warranty terms and conditions heretofore published.