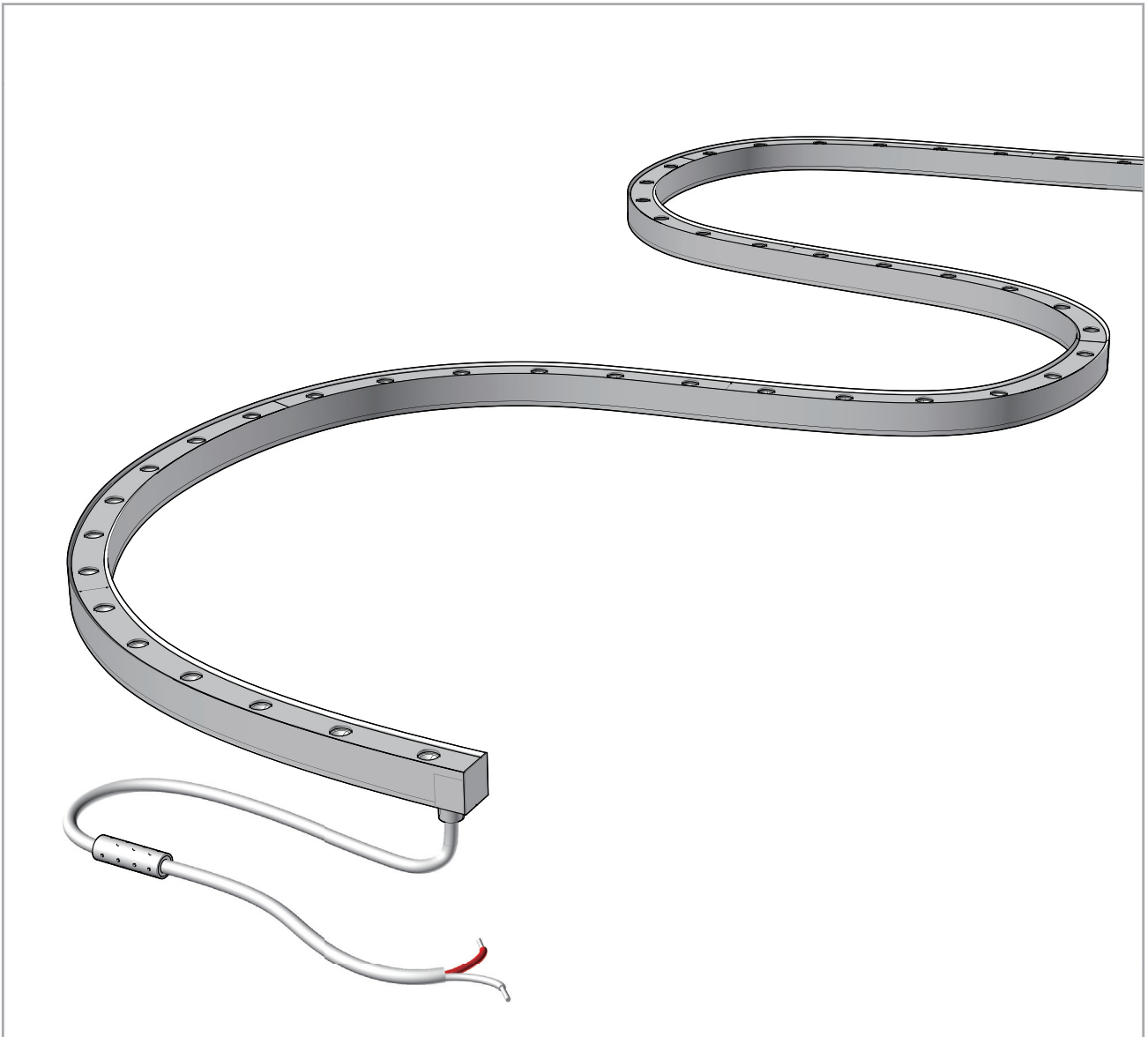


AKWAWGFLEX-01
WALL GRAZER

User Manual



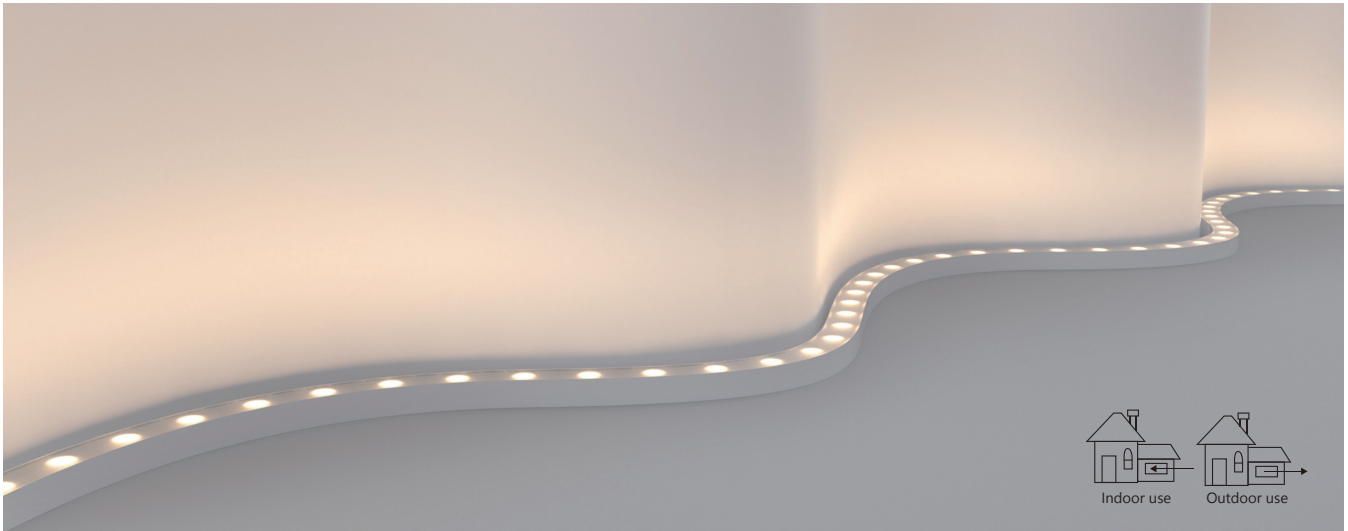
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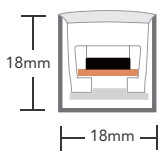
Introduction

Silicone Flexible LED Wall Grazer

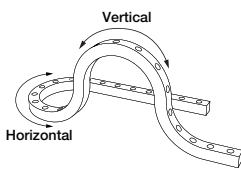
This product is a flexible LED grazer, Specialized in lighting on the curved wall and pillars. It is well designed and structured with built-in lens of different lighting angle options. With the cross section of 18mm x 18mm, And it can be flexibly bent in both horizontal and vertical directions.



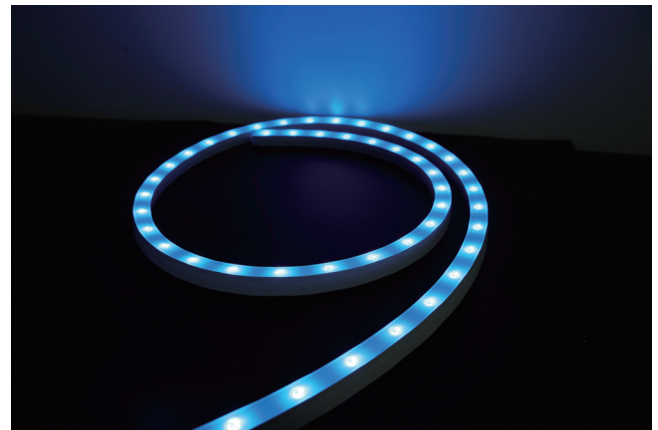
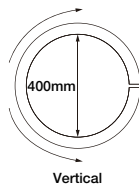
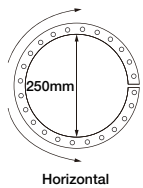
Dimension



Bending Direction



Min. Bending Diameter



Different Series



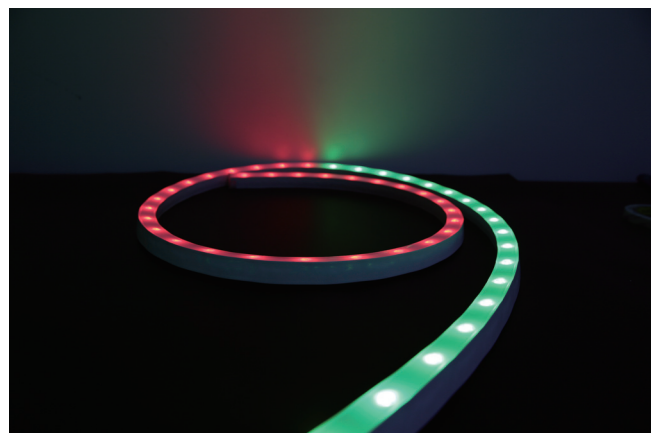
Mono Color



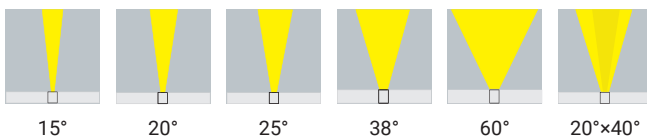
Tunable White



Pixel RGBW



Optional LENS Distribution



SDCM<3



One Bin



Dimmable



Class 3



Ambient Temp.



LM-80



5 Years Warranty



IK08



Submersible



Flame Resistant



UV Resistant



Dirt Resistant



CE



RoHS

Installation Guide

This product left the place of manufacture in perfect condition. In order to maintain this condition and for safe operation, the user must always follow the instructions and safety warnings described in this user manual.

Safety Warning!

General

- This product must be installed by a qualified and competent professional.
- When working on the fixture, heat resistant gloves should be worn to provide adequate user protection.
- Do not work on the product with wet hands.
- Always disconnect the power supply before attempting to maintain or service the equipment.
- Always operate the equipment as described in this user manual.
- Do not stand close to the equipment and stare directly into the LED light source.
- Make sure that all parts of the equipment are kept clean and free of dust which should be carried out as part of a maintenance cycle that's appropriate for the installation location of the product.
- When transferring the product, it is advisable to use the original packaging in which the product left the factory.
- Shields, lenses, ultraviolet screens and pressure release valves should be changed if they have become damaged to such an extent that their effectiveness is impaired.
- LED Wall Grazer should be changed if it has become damaged or thermally deformed.
- The power supply (PSU), DMX / RDM driver and LED drivers should be changed if they fail to operate.

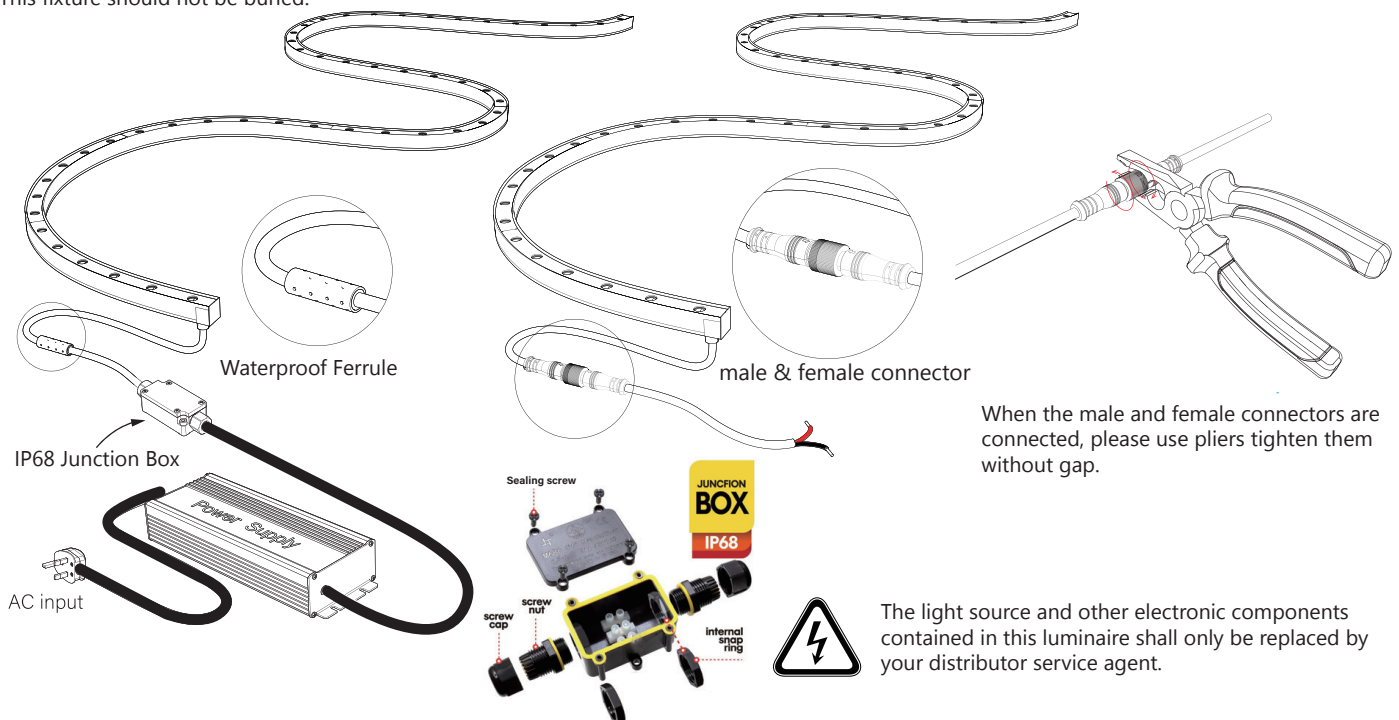
Installation

- A minimum distance of 0.5m must be maintained between the equipment and any combustible surface. The mounting surface must not be combustible.
- Always ensure the supporting structure is a flat and solid surface and can support the weight of the product and any additional wind or shear force. Supporting structure must be capable for the installation of luminaires, and advice must be taken from an appropriately qualified and competent person to verify proposed mounting positions and surfaces.
- Always make sure that the equipment is installed securely and ensure all safety anchors are installed.
- The product must be installed within well-ventilated areas.
- The Earth wire MUST ALWAYS be connected.
- Local electrical and building regulations must be followed. If in doubt, please contact support distributor
- Avoid shaking or strong impacts to any part of the equipment.
- Always make sure that the power and data connections are connected correctly and securely. If there's any malfunction of the equipment, contact your local distributor immediately.
- This fixture should not be buried.

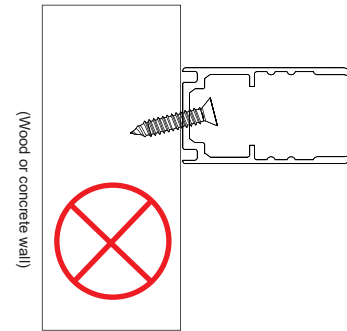
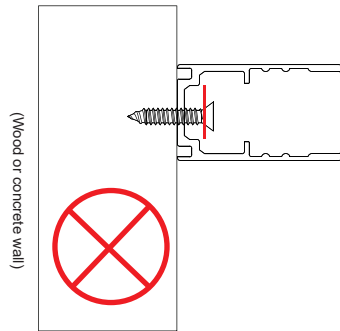
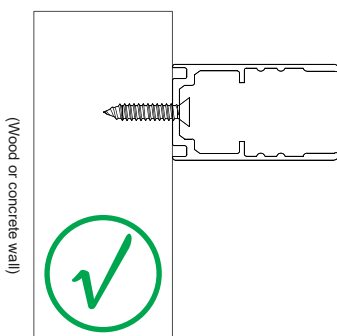
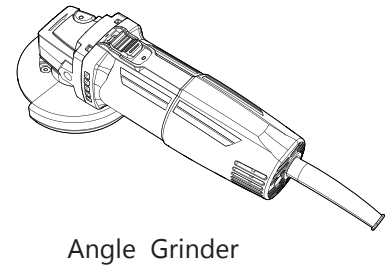
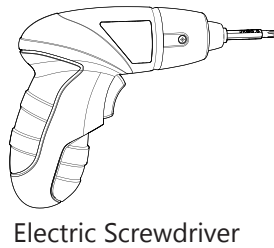
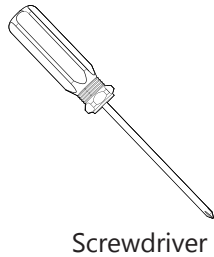
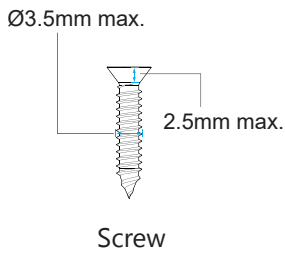
This user manual is intended to cover as much detail as possible for this product, and great care has been taken to ensure this and the accuracy of the information contained within, however should additional information or clarification be required that is not covered within this manual or associated data sheets, or if there are any uncertainties regarding the installation and operation of this product, Distributor MUST be contacted before any work is carried out on the fixture or associated products.

Specific Installation

- Although this product does not generate a great amount of heat, it is recommended that you do not cover or conceal it.
- Do not route the product through walls, doors, windows, or building structures.
- Do not roll out the product onto rough surfaces or over sharp corners. This will scratch silicone optics and damage the finish of the product.
- Do not use the product if:
The outer silicone jacket is damaged.
There are loose electrical connections.
The wires are visible without insulation.
- Do not secure the product with staples, nails, or alike that might damage the insulation or silicone material.
- Do not operate/run the product in temperatures exceeding 55°C.
- Do not operate the product over the specified voltage or LED life degradation will be greatly increased.
- Do not leave any part of the product unsecured.
- Constant movement over time from weather can cause damage.
- Do not reverse polarity when connecting from both ends. This will damage the internal PCB. Always test connections with a multi-meter before applying power.
- Do not energise the product whilst in packaging.
- The product can be cut only where marked. Look for the "Dotted Line" on top surface and also cutting mark on the side. A cut section must have the appropriate IP rated cap flex accessory to maintain IP ratings.
- Cutting outside of the specified mark will damage the light.
- Do not cut while the LED flex neon is connected to power.
- Do not install in human inhabited pools.
- During installation, violent pulling and bending are prohibited.
- Must always be used with an electrical isolation transformer providing SELV (safety extra low voltage).
- Do not cut off the cable wire between the waterproof metal ferrule and connector. Even the male or female Connector.
- For outdoor environment installation, must handle cable connection with a IP68 rated junction box.



Mounting Profile

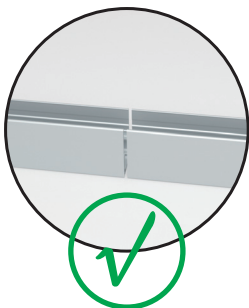


Install the screw into position and ensure the screw head flush or lower the base of aluminum profile.

Screw head above the base of aluminum profile.

Gradient installing of screw

Correct joint



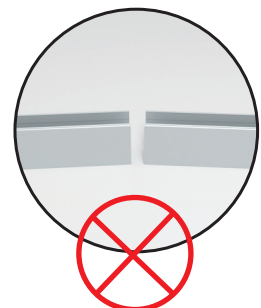
Displacement of up and down



Displacement of left and right

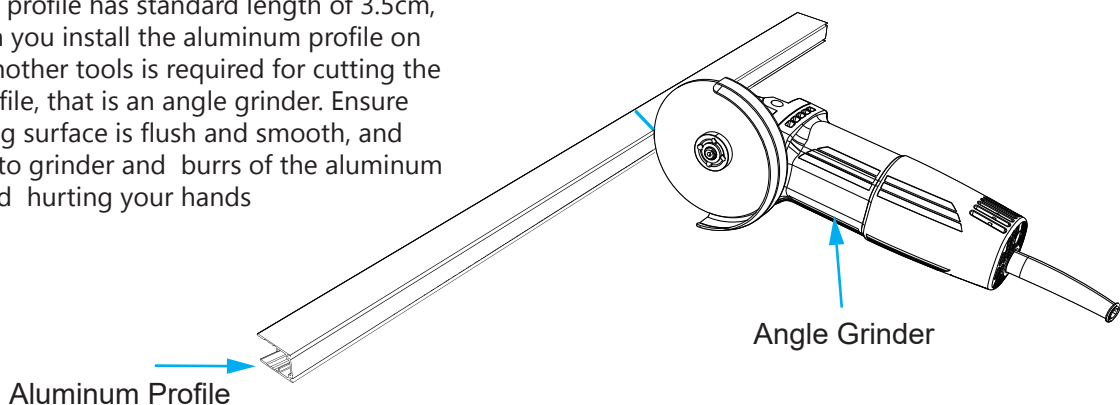


Generate a curve



Displacement of profiles up and down leads to the incorrect bending on the horizontal bending product, after working for a period of time, the light may fail because of PCB fracture and wrinkle (cause by incorrect bending).

The mounting profile has standard length of 3.5cm, 1m, 2m, When you install the aluminum profile on the surface, another tools is required for cutting the aluminum profile, that is an angle grinder. Ensure that the cutting surface is flush and smooth, and pay attention to grinder and burrs of the aluminum profile to avoid hurting your hands



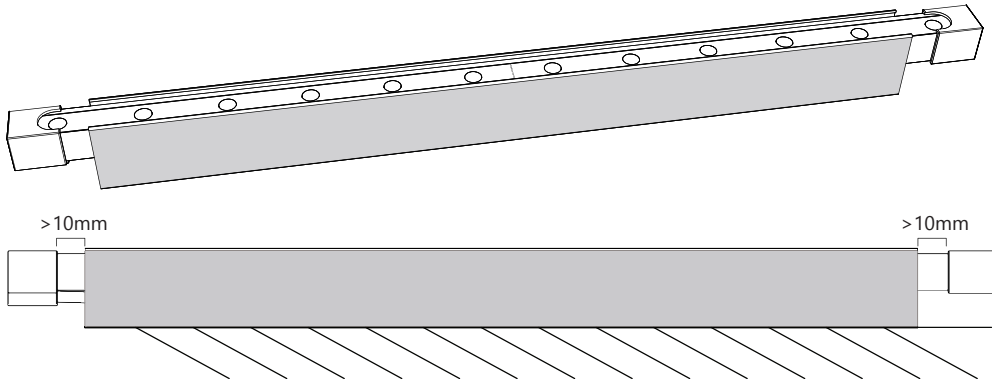
General Mounting

LED wall grazer can be fastened to surfaces using appropriate accessories available from distributor. Please refer to data sheets or contact technical support for a copy. The use of glues and resin as fixing agents should be avoided. Use of glues and resins may invalidate the warranty of the product, unless it's agreed in writing by distributor as part of a detailed project specification.

The images indicate one type of fixing available in the accessories range. The different fixing serve obvious purposes, however when in doubt technical support should be contacted.

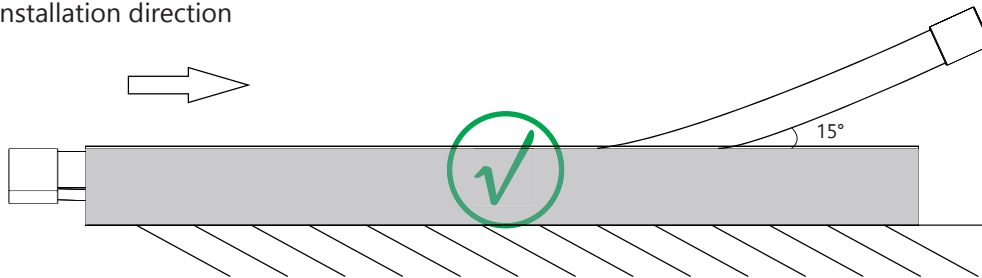
Quantity of accessories and fixing are dependent on the type and its effect on the variant it's being used with. Care should be taken to ensure dropping is avoided, and to ensure that is fastened adequately to avoid stresses on itself.

The plastic mounting piece of IP67 front connector and end cap should keep at least 10mm space apart from aluminum channel when making installation.

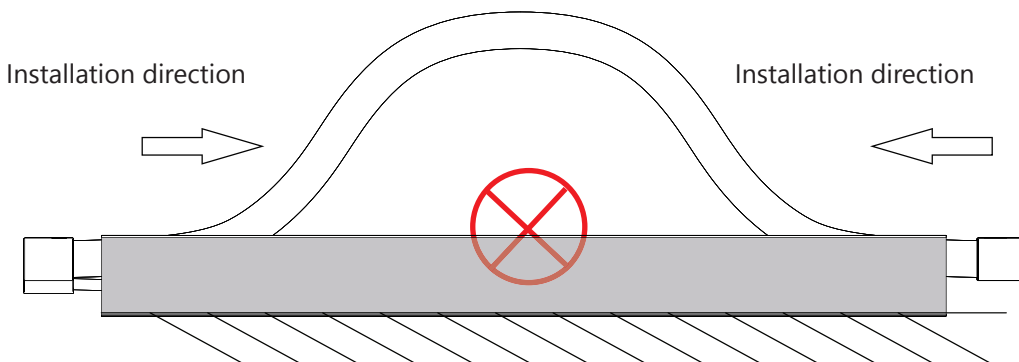


Press LED wall grazer into mounted aluminum channel in one direction.

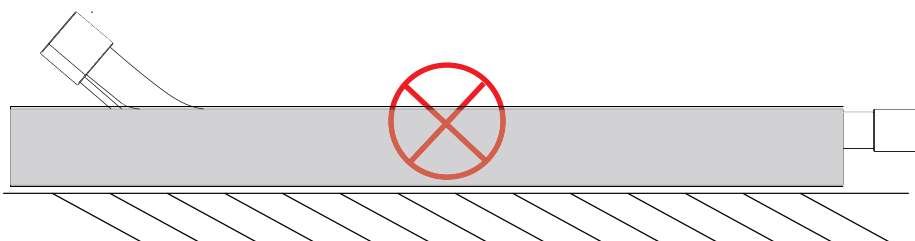
Installation direction



Incorrect installation like below picture could lead to light failure.



Incorrect installation way



Electrical Connections

LED wall grazer is manufactured to order, meaning that the appropriate power feeds are moulded. There are two options available for all versions, these are bare end cables or plugs.

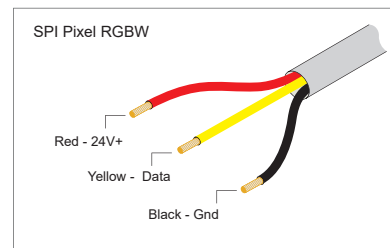
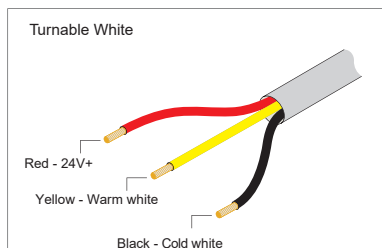
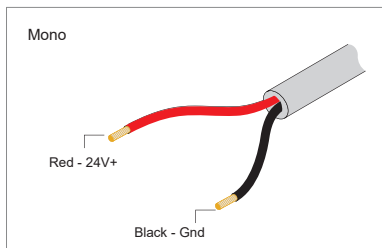
Bare end cables come with a standard length which can vary pending the manufacturing process, therefore it is recommended to ensure the feeder cable is long enough to reach the cable entry point of flex, where connections can be made.

Plugs are designed for "plug-and-play" type installations, whereas the installer would ensure female sockets are available at each flex start location, with the male type connector then plugging into this female type socket. Female sockets are available as separate items. Note that custom feed cable lengths are available upon special request.

LED linear flex is a high-powered product, which requires a detailed electrical design to ensure equal balancing of loads across drivers and power supplies. Reference can be made to the various data sheets for specific variants, that indicate the operating voltage and the wattage per metre. Technical support is on hand to assist with control and power design. Product operates at 24Vdc unless otherwise stated in specific data sheets or product labels. Care should be taken to ensure the operating voltage is constant(constant voltage). A maximum volt drop of 5% is allowed (for example at 24Vdc, the maximum voltage drop would be 1.2V meaning a delivered voltage of 22.8V to the fixture).

Providing with an extensive range of power supplies, LED Drivers, SPI pixel gateways and various DC-DC transformers which allow installers to overcome volt drop issues, as well as various control options such as stand-alone DMX interfaces to multi-universe video matrix type products. We also has an in-house design and engineering team that can deliver such systems, please contact support for more information.

Below is a guide which indicates the number of cores and the connections they relate to. Each manufactured length of flex will have a factory fitted label which indicates the correct cores to use, as well as the colour of each specific core and its associated connection. The below guide is in black and white for clarity, and reference should always be made to the label on the product itself as sometimes, the cable colours may vary pending manufacturing processes or for custom orders. If in doubt, or if the label is missing, contact support for assistance before connecting to power.

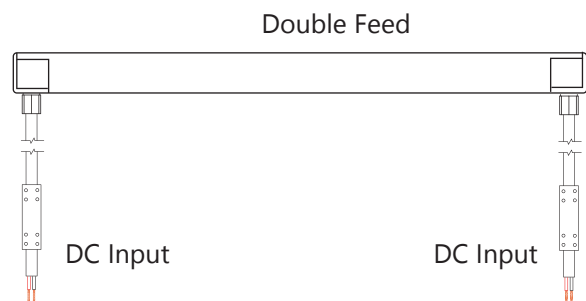
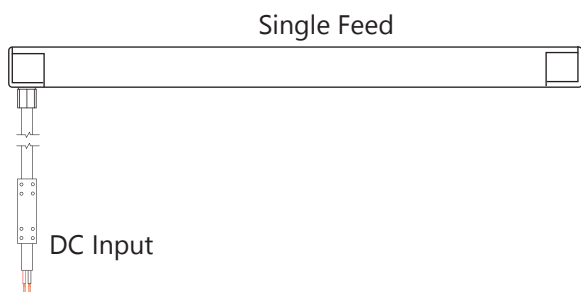


Load Chart

Power Supply

Rated Power	40W	60W	80W	100W	150W	185W	240W
18W	1.75m	2.75m	3.5m	4.5m	7m	8m	10.5m
19W	1.625m	2.5m	3.375m	4.25m	6.125m	7.75m	10m
23W	1.5m	2m	2.75m	3.5m	5m	6.5m	8.25m

Lead Type

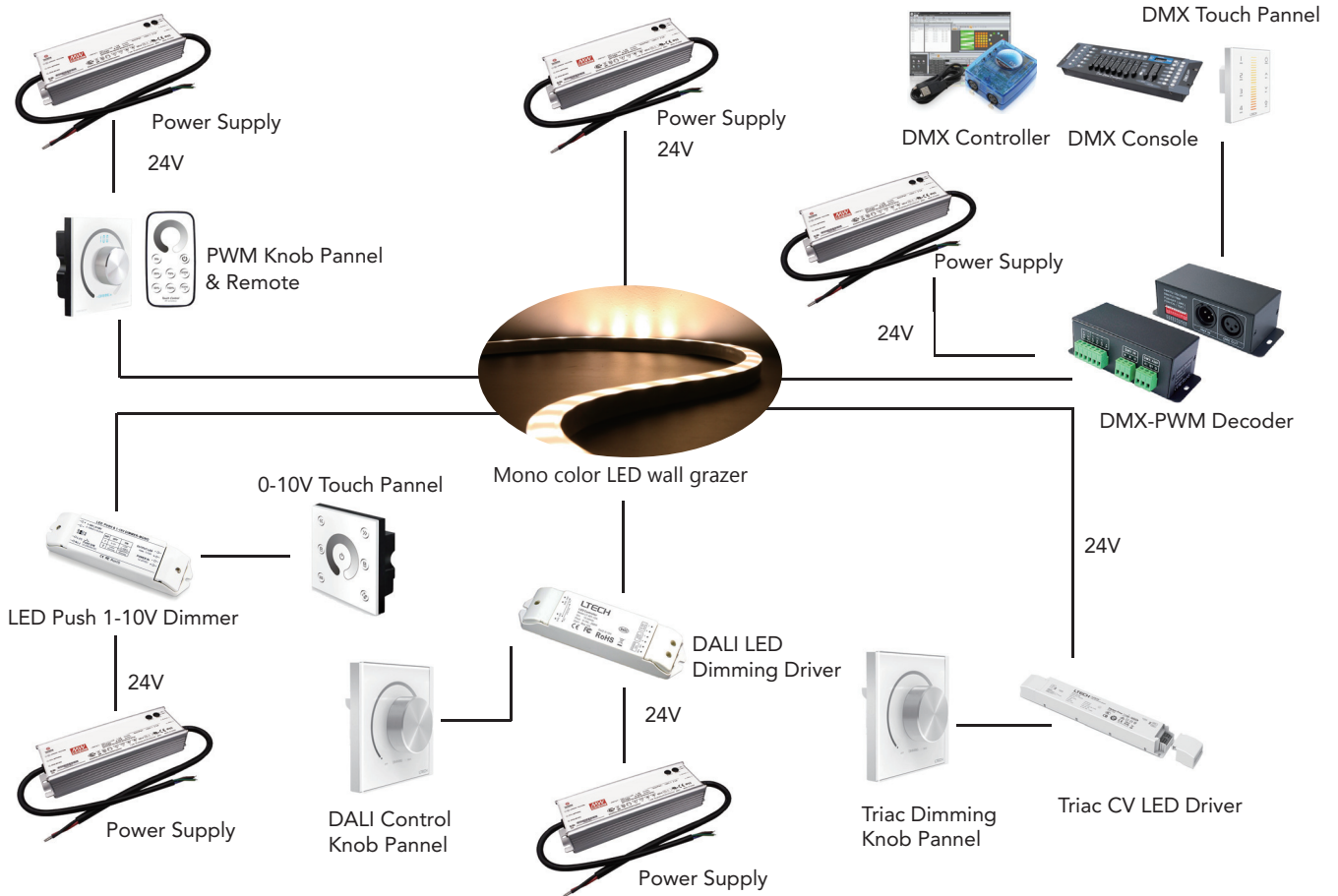


Note: These are the max recommended run lengths based on power supply.

For example: It is recommended to use one 80W power supply for a single-feed run of 3.5m at 18W/m.

Connection Diagram

Mono Color



Tunable White

