Teucer LED strip installation manual

PLEASE READ THESE INSTRUCTIONS CAREFULLY BEFORE INSTALLATION

This installation manual is for single colour LED strip. For IP65, RGB, RGBW, RGBCCT and Tunable white LED strips please follow the same guidelines but in correspondence to their respective polarity/IP rating.

Installation guidelines and warnings:

- The installation guide does not supersede local, national or international laws, regulations, rules, ordinances and codes that may apply for electrical installations.
- Installation should be carried out by a qualified electrician in accordance with applicable and appropriate electrical codes and instructions provided by TEUCER.
- Always use a 24V constant voltage LED driver to power the LED strip.
- Ensure electricity is switched off at the mains (240V) before comencing installation or maintenance.
- Keep LED strip away from direct sources of heat, vibrations and water.
- All electrical connections needs to be tight and correspond to their respective polarity.
- Higher wattage LED strips of 9.6W/m and above **MUST** be mounted inside the aluminium profile to guarantee product performance and Teucer warranty.
- It is a good practice and is strongly recommended to mount the lower wattage LED strip below 8.2W/m into an aluminium profile to be protected from environmental factors and to ensure better heat dissipation.
- IP20 Non-waterproof LED strip - For indoor use only.
- IP65 Waterproof LED strip - For indoor and outdoor use (non-submersible in water), it comes as standard in a clear durable silicone tube.

SAFETY TIPS

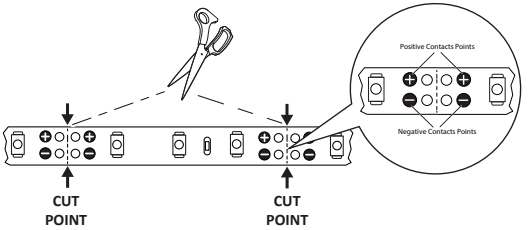
LED strip Handling

- Do not stare directly into the LED strip when illuminated.
- Always disconnect power supply before cutting/connecting LED strip.
- Do not connect more than the recommended length of strip you are installing.
- Do not expose LED strip to moisture if it is not IP65 rated.
- Do not bend the LED strip width-wise, or length-wise to a diameter less than 5 cm.
- Do not cut the LED strip anywhere else but the marked cut points.

Powering the LED strip

- Do not connect the LED strip lighting directly to 240V AC power.
- Always connect to a 24V DC constant voltage power supply/source equipped with overloading, short circuit and temperature protection.
- Apply power to LED strip before mounting to ensure all is in working order.
- Do not overload the power supply as overloading might cause overheating and shorting.
- Always ensure the polarity of the Power Supply and LED strip are matching.
- Ensure the Power Supply is located no further than the recommended distance from your LED strip.

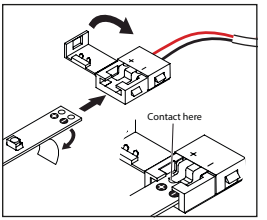
Cutting the LED strip:
The LED strip can be cut at regular intervals (varies depending on the LED strip model, please refer to datasheet for dimensions). Cutting intervals are marked by the lines lying between sets of soldering points, as illustrated below:



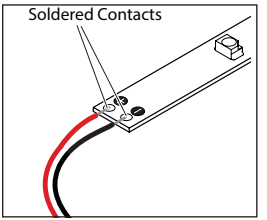
Using Strip Connectors
There are multiple ways of wiring an LED strip. Using Teucer connectors is considered the easiest way, but in some circumstances, soldering is necessary. Strip connectors are available for certain models of LED Strip but not all. It is important that the installer is trained with basic wiring and soldering skills.

Peel away a portion of the LED strip adhesive backing at one end. Open the connector from the side and slide the end of the LED strip until the copper points are positioned and secured under the metal pins

Note: Polarity symbols should match on each component.



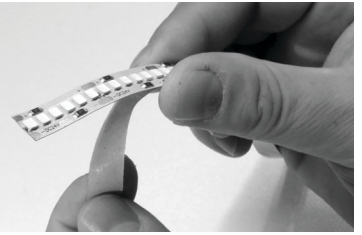
Soldering LED strip
In some circcumstances, soldering contact may be neccessary. For procedures as soldering and splicing, It is important that the installer is trained with basic wiring and soldering skills.



Mounting steps:
Before laying the LED strip, make sure the IP rating of the LED strip is suitable for the desired location.
Ensure the surface on which the LED Strip will be mounted on is clean, dust and grease free.

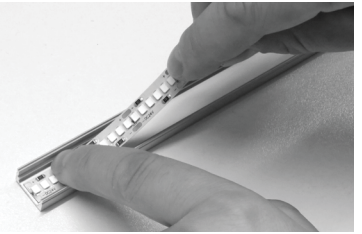
Installation steps for mounting LED strip inside the aluminium profile and on the other surfaces.

1. Peel away a portion of the LED strip adhesive backing at one end. Make sure not to touch the adhesive with your fingers as this could compromise adhesion of the tape.

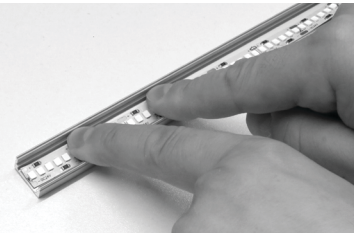


2. Align the beginning of the LED strip with the beginning of the alluminium profile and gently press down the LED strip to stick it to the profile.
Peel away more of the LED strip adhesive backing and gently press down the rest of the LED strip.

Make sure not to use excessive force when pressing as this could damage the LED strip.



3. Once you have mounted the rest of the LED strip, check once again that it is firmly mounted to the aluminium profile.



Ensure the IP rating of the LED strip is suitable for the desired location.
Ensure the surface on which the LED strip will be mounted on is clean, dust and grease free.

LED strips of 9.6W/m and above **MUST** be mounted on an aluminium profile to guarantee product performance and Teucer warranty.

Troubleshooting:

Entire LED strip does not light up

- Make sure your power supply is turned on and receiving power.
- Confirm you have maintained the correct polarity (+ to + and - to -) when joining the LED strips, as well as when connecting to the Power Supply (24V DC LED strip with 24V DC Driver).
- Check all the LED strip connections and any switch or dimmer connections from the power supply to the LED strip. Consider testing the Controllers and the batteries, ensuring they operate normally.

Part of the LED Strip does not light up

- Check the connections to the part of the LED strip which is not lit up.
- Confirm you have maintained the correct polarity (+ to + and - to -) when joining the LED strips, as well as when connecting to the Power Supply (24V DC LED strip with 24V DC Power supply). Make sure the strip connectors are properly positioned and installed.
- If only one “section” (LEDs between 2 cut points) is out, simply cut out that “section” and splice to the other length of strip or add a new section as replacement.

LED Strip lights up, then turns off

- Your Power Supply is not adequate for the load of the LED strip you are powering. Make sure the combined wattage of all the LED strips lengths does not exceed the Power Supply max Output. Install a higher wattage Power Supply or reduce the combined wattage used by shortening the length of the LED strip lighting.

LEDs positioned furthest from the power supply are noticeably dimmer

- This is the result of voltage drop. Decrease the length of your power feed wires or use thicker gauge wire between the Power Supply and the LED strip.
- Use shorter lengths of LED strip lighting or consider a different strip layout (add additional drivers).

Limited warranty

Improper use, bad installation, substandard customization, abuse or mis-powering of the LED strip will void the warranty. Any LED Strip which is cut / damaged (unless strip is faulty due to parts or manufacturing) cannot be returned or exchanged. Proof of purchase is required for all returns. For more information please refer to our Terms and Conditions at: www.teucerled.co.uk/terms-and-conditions/

For more installation guides and videos please visit our webiste www.teucerled.co.uk