UNO
LONDON

LED STRIP NANO MANUAL GUIDE

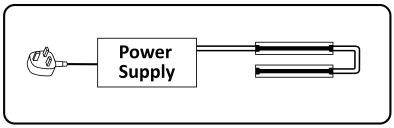
For 24V constant-voltage LED strip lighting

Installation Planning

LED flexible strip lighting is a highly versatile solution suitable for backlighting, cove lighting, task lighting, display lighting, accent lighting and cabinet lighting. To achieve the best performance and lighting effect, consider the following points before installation:

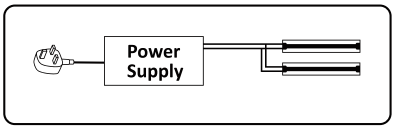
- Where will the nearest 24V power supply be located?
- How will the lighting be switched on and off?
- Will the installation require dimming?
- Which wiring layout is most suitable for the installation?
- How will the cables be routed to the LED strip?

Layout Options



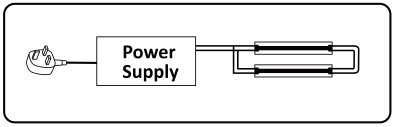
1. Continuous Run

The LED strip is powered from one end. Sections furthest from the 24V power supply are more likely to experience voltage drop.



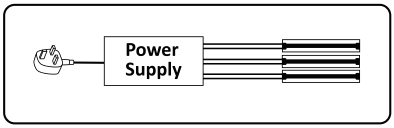
2. Centre Feed Connection

The LED strip is powered from the centre, helping to provide more consistent brightness and colour across the installation.



3. Loop-Back Connection

A loop-back wiring method provides a more even voltage distribution and is commonly used for room perimeter and cove lighting.



4. Parallel Connection

Each LED strip is individually connected to the 24V power supply. Ensure the total connected load does not exceed the power supply's rated output.

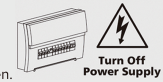
Voltage Drop

Voltage drop is a natural reduction in voltage that occurs as electrical current travels through low-voltage cables. The longer the cable run and the higher the load, the greater the voltage drop. Cable length, cable size and power consumption all influence the amount of voltage drop.

Important: Always select a suitable 24V power supply with adequate spare capacity. Unless the product specification states otherwise, allow at least 20% headroom above the calculated LED load.

WARNING

1. Please check the product before installation; Do not install the product if it is founded broken.
2. The product must be installed by a qualified electrical installer.
3. In order to avoid the damage of the product, keep the accessory to the place away from children.
4. Protect the lifespan of this product by installing drivers in well-ventilated area and free of excessive heat and gases.



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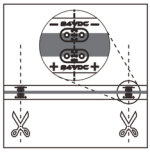
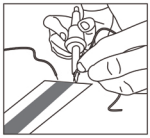
1. Prepare the surface

Thoroughly clean the mounting surface to remove grease, dust and dirt. Allow it to dry fully before installation. Porous, uneven or textured surfaces may require additional fixing methods.



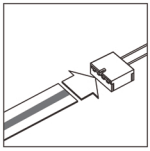
2. Cut only at marked points

Only cut the LED strip at the marked cutting points. Cutting elsewhere may damage the PCB and cause permanent failure.



3. Solder carefully

Soldering should only be carried out by a qualified electrician or competent installer. Use a soldering iron at no more than 350° C and heat each solder pad for no longer than 2 seconds. Use lead-free solder.



4. Use the correct connector

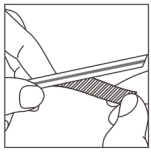
Ensure the connector width and pin configuration match the LED strip: single colour - 2 pin; CCT - 3 pin; RGB - 4 pin; RGBW - 5 pin. RGBW strips may be unsuitable for some quick connectors due to limited space.

5. Observe the bend radius

Do not bend the LED strip beyond its minimum bending radius. Excessive bending may damage the PCB, even if the strip continues to operate initially.

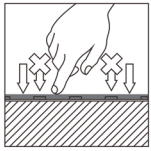
6. Do not twist, fold or crease

Do not twist, fold or sharply crease the LED strip. Only bend it in the direction recommended for the product.



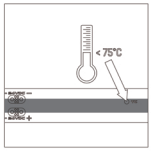
7. Remove the adhesive backing carefully

Carefully peel away the protective backing from the adhesive tape. Do not stretch the LED strip or the adhesive during installation.



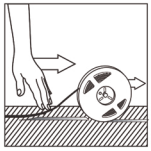
8. Protect the LEDs

Use suitable anti-static precautions when handling LED strip. Apply pressure only to the PCB or the sides of the strip. Do not press directly on the LED chips.



9. Heat Dissipation

Mount LED strip on timber, plasterboard or plastic inside an aluminium profile to control temperature, preserve performance and extend lifespan. Keep PCB temperature below 75° C unless specified otherwise.



10. Protect the strip and reel

Do not stand on the LED strip, place heavy objects on it or allow it to become trapped beneath the reel. Unroll the strip carefully and keep the installation area clear.

Before switching on:

Check polarity, cable connections and the total connected wattage. Confirm that the LED strip is compatible with the 24V power supply and any dimming or control equipment.