

WARNING! Read this section before any installation work is carried out. All work should be carried out as per our instructions.

All work involving electrical components should be carried out by a competent qualified electrical professional in accordance with IET BS 7671 and any local by laws.

Ensure all mains power is turned off before starting installation or maintenance; and remains off for the duration of installation or maintenance.

VOLTAGE, DRIVERS & MAXIMUM LOAD

This LED tape is NOT mains voltage. Do not exceed the LED ribbons maximum voltage.

You must use 12V DC LED drivers for 12V LED tape or 24V DC LED drivers for 24V LED tape. You should check the correct LED driver is used before starting installation, incorrect drivers may damage the LED tape beyond repair. You can find the voltage of your LED tape printed on the strip.

Your LED driver will have a maximum load. Do not put more load through the LED driver than the maximum load. Our LED drivers maximum load are rated by wattage.

To calculate the minimum wattage of your LED driver for your LED tape use the following this equation:

$$\begin{array}{rcccl} \text{Wattage of LED tape per Metre} & \times & \text{Total Length of LED Tape in Metres} & = & \text{Total Wattage Required of LED Driver} \\ \text{e.g 14.4} & \times & 2 & = & 28.8\text{W} \end{array}$$

Ensure your LED drivers maximum load is greater than Total Wattage Required of LED Driver from the above equation.

MOUNTING SURFACE

LED tape is not designed to be attached directly to wood, brick, paper or plastic. Doing so may reduced the life of the LED.

It is recommended to use aluminum backing on all LED tape. Other options are available but please contact us for advice.

On some materials the self adhesive strip may require additional adhesive. We recommend a grab adhesive.

CORNERS & BENDS

LED tape is flexible, however it will not make 90° bends. Trying to force the LED tape to make these bends may damage the LED circuit board, causing some or all LEDs to stop working.

CUTTING

You must always cut LED tape along the cut points. The cut point is indicated by the scissor mark.

Cutting the LED tape anywhere else other than along the cut point will stop the LED tape working.

MAXIMUM RUN LENGTH

The maximum run length of this LED tape is 5 metres. You should not exceed these lengths in one continuous run. Doing so may

cause brightness drop in the LED tape.

To create longer runs, wire multiple lengths in parallel to the LED driver.

LED DRIVER FUSES

LED Driver 12V	Fuse
LPH18-12 LPV20-12 LPV35-12 LPV60-12 LPV100-12 RS25-12* RS50-12* RS100-12*	2 AMP
RS150-12* SP200-12* SP320-12*	3 AMP

LED Driver 24V	Fuse
LPH18-24 LPV20-24 LPV35-24 LPV60-24 LPV100-24 RS25-24* RS50-24* RS100-24*	2 AMP
RS150-24* SP200-24* SP320-24*	3 AMP

* These drivers require finger guards and must be Earthed.

STATIC COLOUR INSTALLATION INSTRUCTIONS

1. Ensure all mains power is turned off.

2. Ensure the surface where your LED tape and aluminium are to be installed are clean and dry.

3. Fix the Aluminium strip to the surface.
The aluminium strip can be fixed into place with either screws or using a grab adhesive.

When fixing with screws you will need to drill your own holes where you require them.

Ensure the grab adhesive is dry before continuing your installation.

4. Remove the 3M backing of the LED tape.

5. With the adhesive side of the LED tape facing the aluminium strip, fix the LED tape to the aluminium strip.

NOTE: You may need our red tape (sold separately) in humid, damp or wet prone environments for added strength. Fix this to the aluminium strip before fixing the LED tape.

6. Connecting the LED driver to the mains. Follow the diagram on installation of LED driver to mains.

It is recommended to install the LED driver via an switch fuse isolator fitted with the correct fuse depending on the LED driver used. (See table for LED driver fuses).

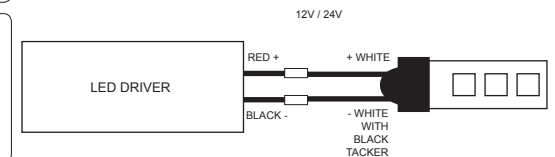
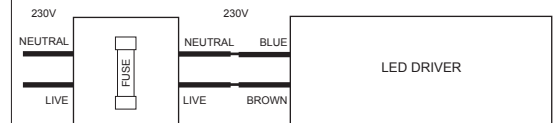
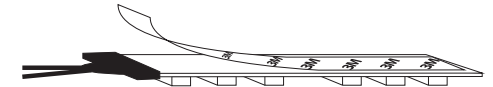
NOTE: Ensure the LED driver has a clearance and air flow to prevent overheating.

Drivers in the table (to the left) marked with * require a finger guard and must be Earthed

7. Connecting the LED driver to LED tape. Follow the diagram installation of LED driver to LED tape.

It is recommended to make the connection using an in-line crimp.

8. Once all wiring is completed and made safe turn on mains power.



COLOUR CHANGE INSTALLATION INSTRUCTIONS

1. Ensure all mains power is turned off.

2. Ensure the surface where your LED tape and aluminium are to be installed are clean and dry.

3. Fix the Aluminium strip to the surface.

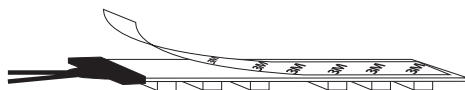
The aluminium strip can be fixed into place with either screws or using a grab adhesive.

When fixing with screws you will need to drill your own holes where you require them.

Ensure the grab adhesive is dry before continuing your installation.



4. Remove the 3M backing of the LED tape.



5. With the adhesive side of the LED tape facing the aluminium strip, fix the LED tape to the aluminium strip.

NOTE: You may need our red tape (sold separately) in humid, damp or wet prone environments for added strength. Fix this to the aluminium strip before fixing the LED tape.

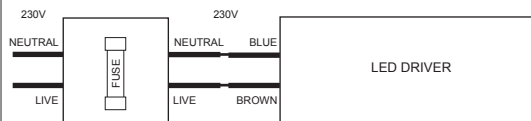


6. Connecting the LED driver to the mains. Follow the diagram on installation of LED driver to mains.

It is recommended to install the LED driver via a switch fuse isolator fitted with the correct fuse depending on the LED driver used. (See table for LED driver fuses).

NOTE: Ensure the LED driver has a clearance and air flow to prevent overheating.

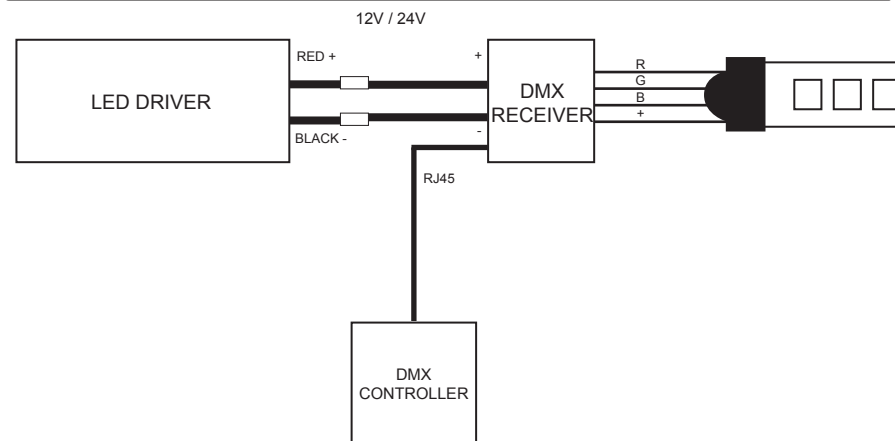
Drivers in the table (to the left) marked with * require a finger guard and must be Earthed



7. Connecting the LED driver to DMX receiver. Follow the diagram installation of LED driver to DMX receiver.

It is recommended to make the connection using an in-line crimp.

NOTE: DMX controllers will vary on how to install, follow the manufactures installation instructions supplied with your DMX controller.



8. Once all wiring is completed and made safe turn on mains power.