

WARNING

THIS PRODUCT USES HIGH BRIGHTNESS LEDs. DIRECT VIEWING OF THE SMD LEDs AT CLOSE RANGE SHOULD BE AVOIDED.

HAVING ISSUED THIS WARNING THE LITEWAVE COMPANY ACCEPTS NO RESPONSIBILITY FOR ISSUES ARISING FROM ANY FAILURE TO COMPLY WITH THIS CLEAR INSTRUCTION.

LITEWAVE. WILL NOT ACCEPT RESPONSIBILITY FOR ANY OTHER ISSUES ARISING FROM IMPROPER USE OR FITTING OF THIS PRODUCT AS THESE MATTERS ARE BEYOND OUR CONTROL.

Installation

Prior to Installation we advise that you bench test the Flexible LED Tape, it is usually tested prior to dispatch. Connect the white wire to the positive (+) wire of the power supply (a 9v pp3 will also work), then separately connect the 3 coloured wires to the negative (-) wire of the power supply (or battery) to confirm that each of the primary colours – Red, Green, and Blue are all working.

Ensure that all of the LEDs are fully lit – **AVOID VIEWING THE LEDS DIRECTLY**

Decide where you want to place the LED Tape. The Tape has a 3M self-adhesive backing, once the location for it is decided simply remove the backing strip and carefully lay the Tape in place working from one end to the other ensuring there are no raised sections. Using a lint-free cloth gently press between the LEDs on the tape to remove any air bubbles and activate the adhesive, make sure you do not press on the LEDs themselves as this could damage the joint.

The Tape can be removed from the protective silica sleeve by carefully sliding a sharp pair of scissors along one side. Be careful not to catch any of the LEDs or the tape with the scissors or this could damage the product.

Wiring

There are 4 wires from the LED Tape, they can be extended if necessary by using any 4 wire cable.

Wiring without the ICELED Flexidriver:

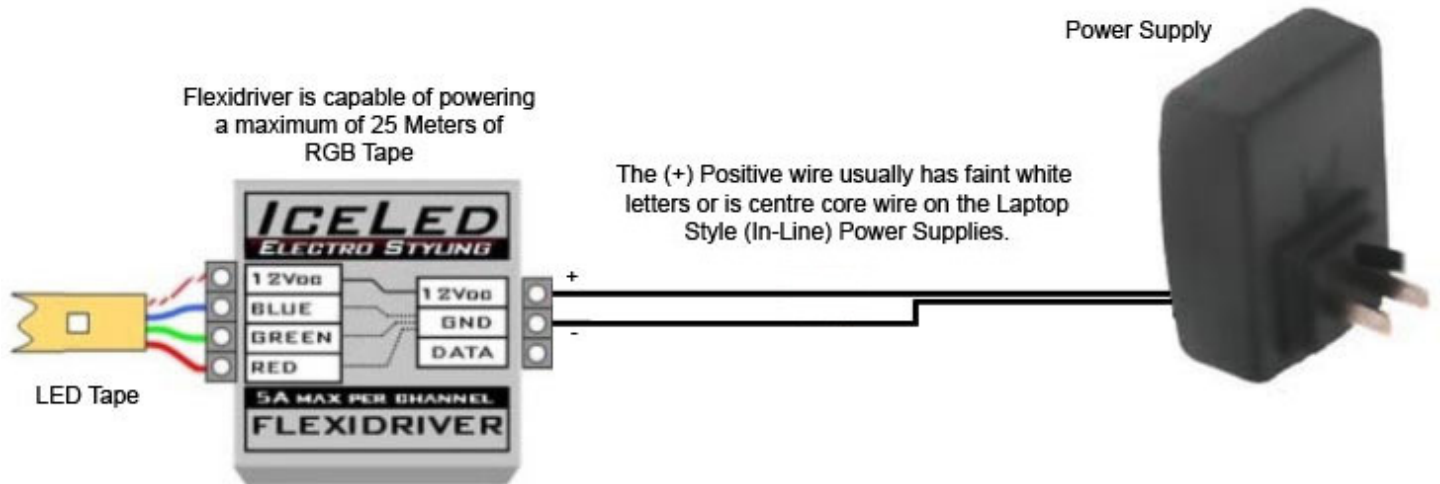
The best way for basic control (although you will only get 7 colours) is to use a switch along each of the coloured wires as shown below. The switch in turn should be connected to the negative of the power supply.



However we would advise using our Flexidriver (£38) which will give you a colour range of 2.1 million colours by varying the power to each of the 3 colours. For even further control use the Flexidriver in conjunction with a Zap+ or ZEN Controller.

Wiring the Tape to the Flexidriver:

Connect the White (sometimes yellow) wire to the terminal labeled "12VDC", the remaining coloured wires should be connected to the corresponding labels on the Flexidriver as shown below, make sure all the screws are tightened securely onto the wires.



Next you will need to connect the 12vdc power supply to the Flexidriver. To do this you will first need to remove the small DC plug from the end of the thin wire from the power supply, it looks like this:

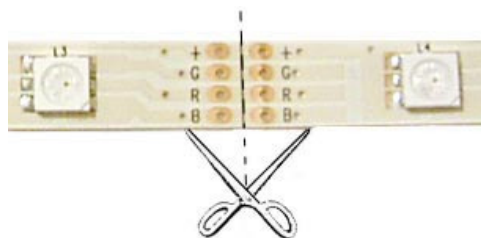
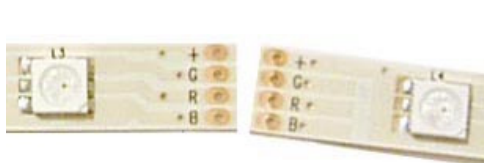
The black wire with the white stripe is usually the positive (+) wire so should be connected to the "12VDC" label on the Flexidriver, the remaining black wire connects to the "GND" label. Switch on the power to the power supply, the Tape should now light up. If it does not try swapping the wires from the power supply around, it should now light. For permanent installations we would advise using a 1A fuse between the positive wire of the power supply and the input to the Flexidriver.



Cutting and joining the Tape

Although we advise against cutting the LED Tape because this will void your warranty, we have provided a brief guide of how to cut and join the tape below.

You need to cut the tape along the line between the 8 copper pads, so there are 4 remaining on either side, as shown below:

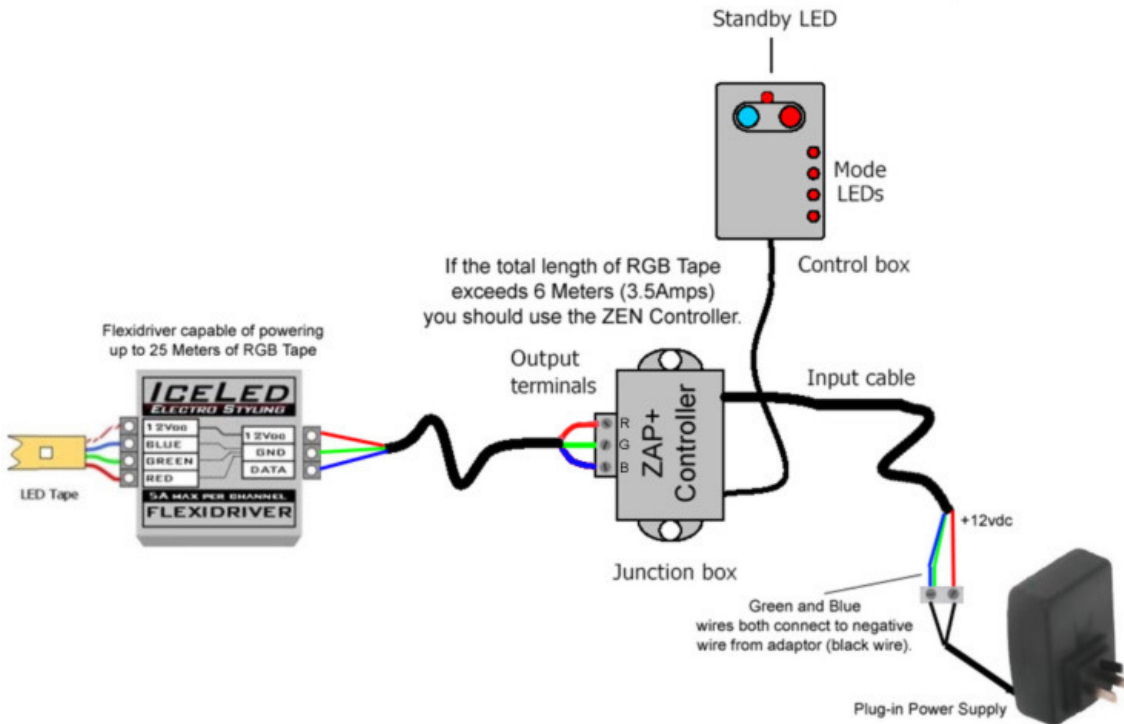


Then solder a white wire to the positive, and solder (red, green, and blue) wires to the remaining pads. Be careful when soldering that you do not overheat the pads as this heat can damage the pad and the

LEDs, a small dab of flux paste helps with a fast solder connection.

Additional Controllers

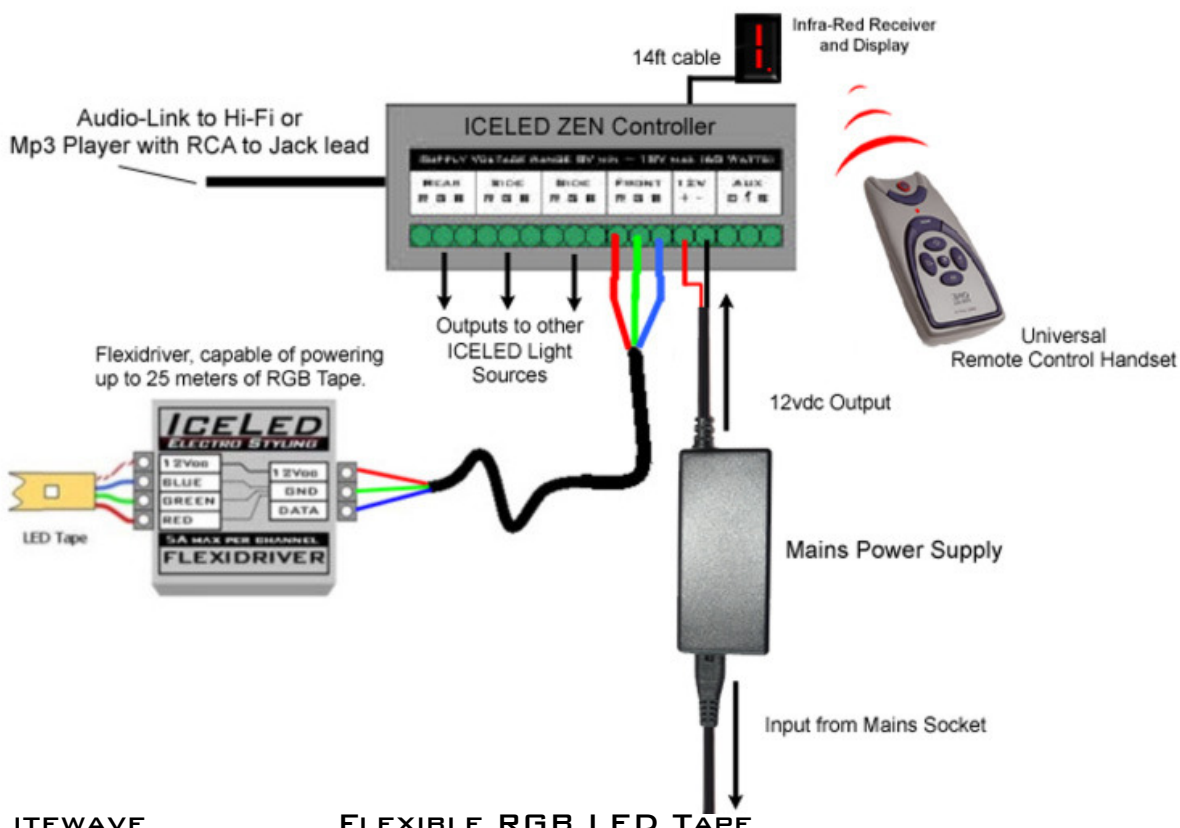
Connection to a ZAP+ Controller:



NOTE: The maximum length of RGB Tape that can be connected using this method is 6 Meters. If you wish to power more than that using the ZAP+ Controller please contact us and we will email you an alternative diagram.

To power the maximum amount (6M) of Tape a minimum 3.8A Power Supply is required.

Connection to a ZEN+ Controller:



Warranty

This product is warranted from manufacturing defect only. This warranty is valid for 1 year from the date of purchase. This warranty does not apply to damage caused by user installation or normal wear and tear. Cutting the tape will automatically void your warranty, so do so carefully. If a segment becomes faulty only that part can be replaced under warranty once cut.

The Litewave Company nor its respective owners gives no warranty against damage to any surface due to removing or applying this product.

Please follow instructions and warnings carefully.

Specifications

Nominal supply voltage:	12 Volts DC (¹)
Viewing Angle:	120 Degrees
Maximum current drain:	0.57 Amps (570ma) per Meter
LED Type:	SMD
Light Output:	600mcd
IP Rating:	IP67. Note – This tape is <u>not</u> waterproof if removed from silica sleeve.



Resources

To see the full Litewave product range visit <http://www.litewave.co.uk>

Environmental Information



At the end of this product's usable life it should be disposed of according to WEEE regulations, which means it should be taken to your local municipal site for safe disposal/recycling.