

RGB LED TAPE

Installation Guide



| Stock code | Voltage | Power consumption | LEDs / metre | Luminous flux (Lumens per metre) |
|------------|---------|-------------------|--------------|----------------------------------|
| 156.720UK | 12Vdc | 14.4W/m | 60 | 600lm/m |
| 156.721UK | 12Vdc | 7.2W/m | 30 | 400lm/m |
| 156.770UK | 24Vdc | 14.4W/m | 60 | 600lm/m |
| 156.771UK | 24Vdc | 7.2W/m | 30 | 400lm/m |

| Common Specifications | |
|---|------------------|
| Beam angle | 140° |
| LED type | Epistar™ RGB5050 |
| Light intensity per LED (millicandelas) | 6000mcd |
| Reel length | 5m |
| IP rating | IP65 |
| Cross-section | 12 x 3mm |
| Weight | 230g |

| Recommended RGB Controllers | |
|-----------------------------|---|
| 153.699UK | In-line RF RGB LED Tape Controller |
| 153.701UK | In-line RGB LED Tape Amplifier |
| 153.702UK | In-line RGB LED Tape Controller |
| 153.742UK | RGB LED Controller with 17 Built-in Programs |
| 153.750UK | LR15 RGB Repeater/Amplifier |
| 153.771UK | In-line RGB LED Tape Amplifier with DC Socket |

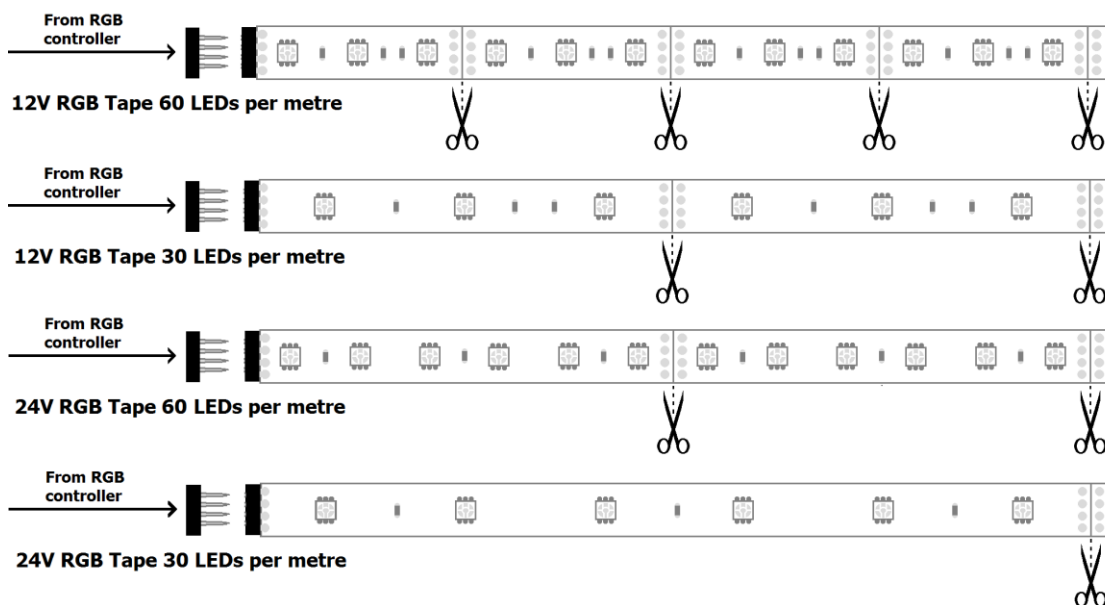


Caution: Please read this guide carefully before installing Lyyt LED tape
Damage caused by incorrect application is not covered by the warranty

Lyyt RGB LED tape is supplied on 5m reels in either 12Vdc or 24Vdc voltages and offers full colour mixing. Installation should be carried out by competent electrical installers, observing the relevant electrical safety procedures.

Lyyt RGB LED tape has a self-adhesive backing to allow it to be easily attached to a clean, non-porous surface.

Where less than 5m of tape is needed, there are solder points as shown below, where the tape may be cut to size. These cut points are at 5cm, 10cm or 20cm intervals, depending upon the version, as shown below. In order to re-connect to another length of tape after cutting, strip away the epoxy coating at the solder points and solder a wire from V+, R, G and B to like points on the next length of tape. Some accessories are supplied with the tape reel for this purpose. In order to retain weather-proofing, it is advised to seal the cuts and joints with silicone glue.



Each 5m reel of RGB LED tape is fitted with a 4-pin connector for power input from an RGB controller. Ensure that the V+, R, G and B pins are connected the correct way round.

Where more than 5m of tape is needed, an RGB repeater/amplifier should be used before each additional reel of 12V tape, whereas 24V tape can be installed in 10m lengths between repeater/amplifiers by using the included 4-pin couplers to connect 2 reels together in sequence. The amplifier repeater ensures that extension reels mimic the colour changes of the original reel as dictated by the controller.

It is imperative that the power supply, controller and amplifier/repeater should have higher than the rated capacity in Amps (A) for the current required to power the length(s) of LED tape installed. Please see the table below for reference.

| Tape length | 5m | 10m | 15m | 20m | 25m | 30m | 35m | 40m |
|-------------------------------|------|-----|------|-----|------|-----|-------|-----|
| Current for 12V tape 60 LED/m | 6A | 12A | 18A | 24A | 30A | 36A | 42A | 48A |
| Current for 12V tape 30 LED/m | 3A | 6A | 9A | 12A | 15A | 18A | 21A | 24A |
| Current for 24V tape 60 LED/m | 3A | 6A | 9A | 12A | 15A | 18A | 21A | 24A |
| Current for 24V tape 30 LED/m | 1.5A | 3A | 4.5A | 6A | 7.5A | 9A | 10.5A | 12A |

Please visit www.avsl.com to select from our range of 12Vdc and 24Vdc power supplies, RGB controllers and RGB amplifier/repeaters that are suitable for powering Lyyt RGB LED tapes.



Disposal: The "Crossed Wheelie Bin" symbol on the product means that the product is classed as Electrical or Electronic equipment and should not be disposed with other household or commercial waste at the end of its useful life. The goods must be disposed of according to your local council guidelines.