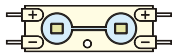


LED & Power Supply Specifications

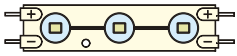


Kings LED 2 Module
26mm x 7mm x 4mm, 12v 0.3 watts per module, IP65, 20 modules max per chain

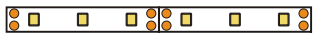
Available Colours



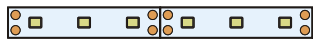
Kings LED 2 Xtra Bright Module
44mm x 15mm x 7mm, 12v 0.48 watts per module, IP67, 50 modules max per chain



Kings LED 3 Xtra Bright Module
66mm x 15mm x 7mm, 12v 0.72 watts per module, IP67, 40 modules max per chain



Kings LED Ribbon
5m x 8mm x 2mm, 12v 6 watts per metre, IP33, 5m max per run



Kings LED Waterproof Ribbon
5m x 10mm x 2mm, 12v 6 watts per metre, IP64, 5m max per run



Kings LED Ribbon RGB30 & RGB60
5m x 10mm x 3mm, 12v 8 watts/14.4 watts per metre, IP33, 5m max per run



Kings LED Flexi-Ribbon
5m x 6mm x 2mm, 12v 8.4 watts per metre, IP33, 5m max per run



Kings LED Drivers
20w Driver - 136mm x 29mm x 20mm



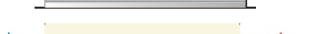
30w Driver - 182mm x 29mm x 20mm



40w Driver - 229mm x 29mm x 20mm



60w Driver - 199mm x 41mm x 36mm



100w Meanwell Driver - 190mm x 52mm x 37mm



150w Meanwell Driver - 228mm x 68mm x 39mm

Other power supply options as well as RGB Controllers, LED Dimmers, connectors & accessories available on request.

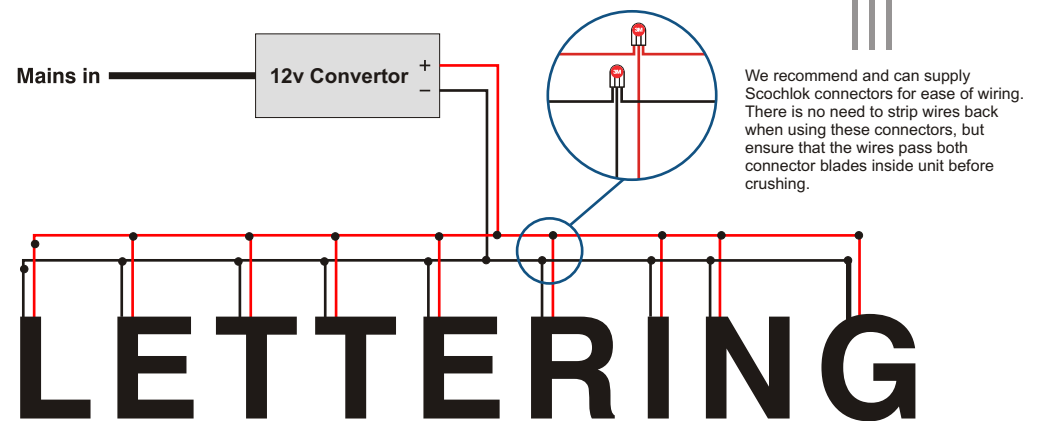
If you have any specific questions or need clarification regarding any of the information herewith, please feel free to contact our team who will be pleased to help or advise..

Kings LED Wiring & Assembly Guide

Kings LEDs are a range of high quality products, carefully selected for both budget and performance characteristics.

This booklet explains clearly how to wire and assemble our range of 12v LEDs. Please familiarise yourself with these instructions before starting work as any deviation may result in reduced efficiency, longevity or product failure.

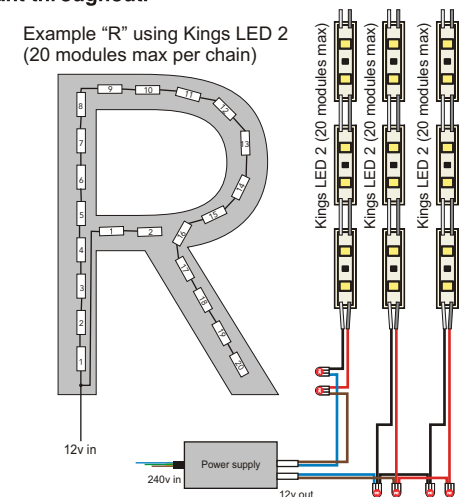
Wiring internally illuminated lettering using LEDs



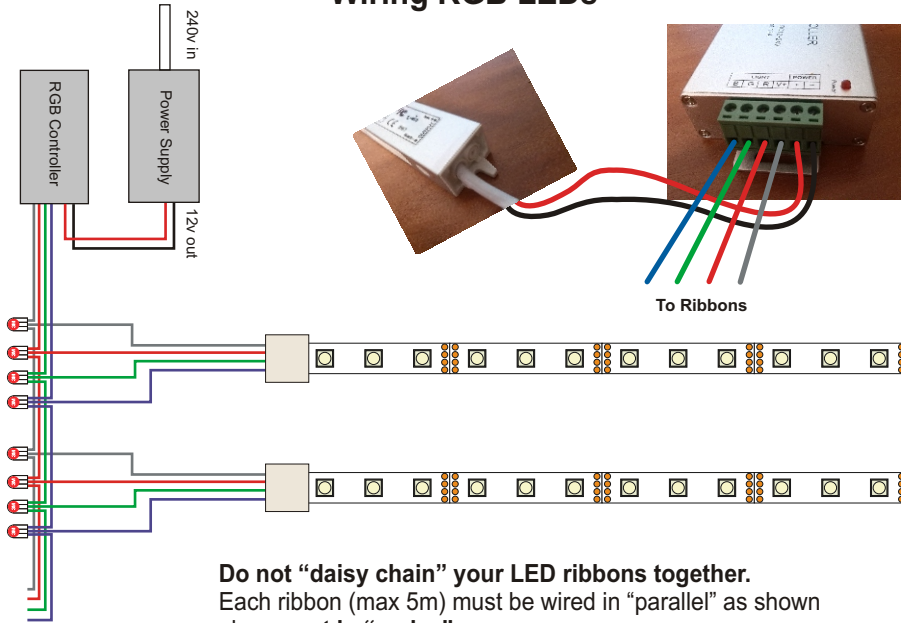
Please note:
Care must be taken to ensure that the polarity is constant throughout.

Do not "daisy chain" your LEDs together.
Each chain must be wired in "parallel" as shown on the right, **not in "series"**.

The example here shows the 12v supply coming into the letter then splitting into 2 separate feeds (rather than running the last 2 modules from the end of first chain of 20)

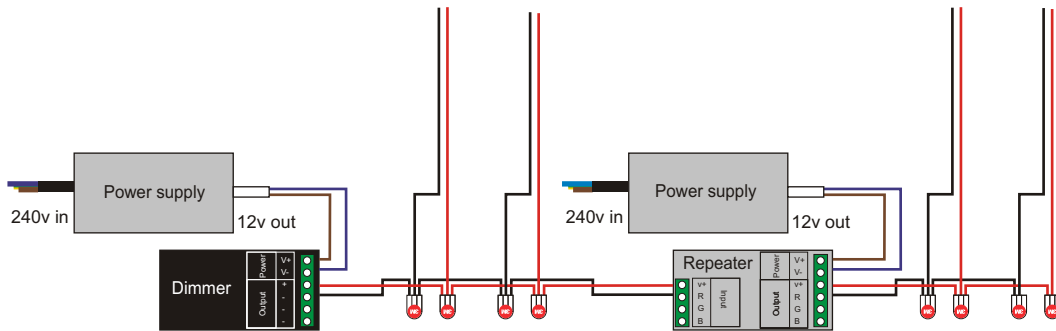


Wiring RGB LEDs



Do not “daisy chain” your LED ribbons together. Each ribbon (max 5m) must be wired in “parallel” as shown above, **not in “series”**.

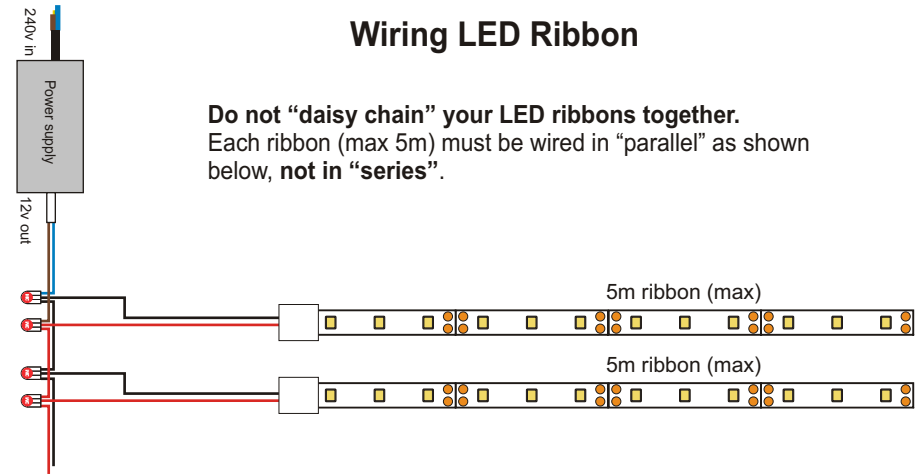
Wiring LEDs Using Dimmer & Repeater



Do not “daisy chain” your LED ribbons or module chains together. Each ribbon (max 5m) or chain of modules (see reverse for max chain lengths) must be wired in “parallel” as shown above, **not in “series”**.

This method allow multiple signs, letters or units to be dimmed together. The same format can be used with RGB leds as well, allowing synchronised colour changing over a quantity of units.

Wiring LED Ribbon

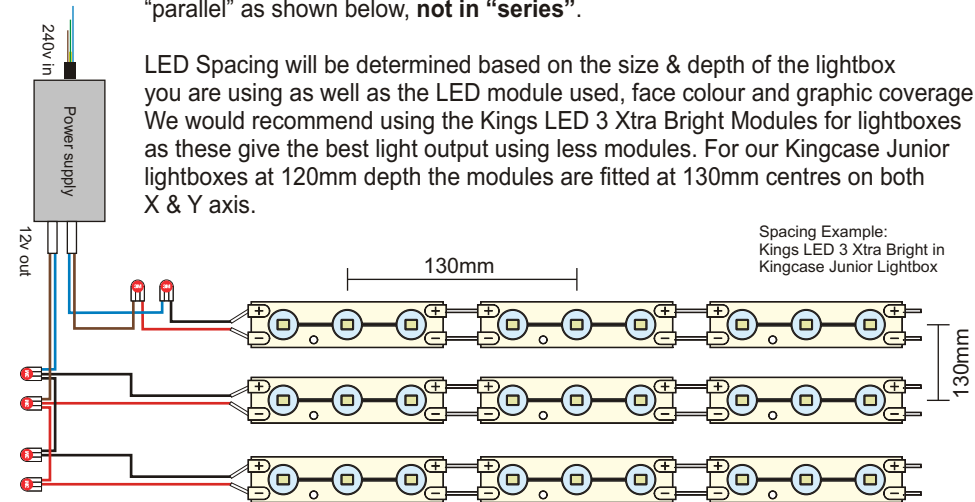


Do not “daisy chain” your LED ribbons together. Each ribbon (max 5m) must be wired in “parallel” as shown below, **not in “series”**.

Wiring LED Modules in Lightboxes

Do not “daisy chain” your LED ribbons together. Each chain (see reverse for max chain lengths) must be wired in “parallel” as shown below, **not in “series”**.

LED Spacing will be determined based on the size & depth of the lightbox you are using as well as the LED module used, face colour and graphic coverage. We would recommend using the Kings LED 3 Xtra Bright Modules for lightboxes as these give the best light output using less modules. For our Kingcase Junior lightboxes at 120mm depth the modules are fitted at 130mm centres on both X & Y axis.



Calculating the Power Supply required for your project

To calculate the correct power supply for your project, please do as follows:

- 1) Add up the total wattage of your LEDs
- 2) Add 20% as a safety margin to avoid overloading the power supply
eg. 5 chains of Kings LED 2 Modules @ 0.3w per module
Total 100 modules x 0.3w = 30w + 20% = 36w
Therefore 1x 40w driver would be required.