RGB 180 Waterproof LED Strip Light - 12VDC

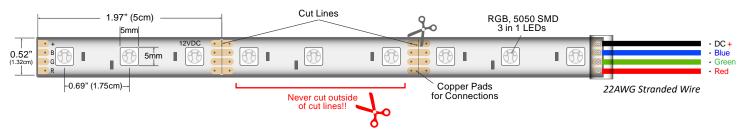
SKU: RL-SC-RS-RGB1-T-10



1092 Greg Street Sparks, NV 89431 ECOLOCITYLED.COM 775-636-6060



SPECIFICATIONS



Product SKU: RL-SC-RS-RGB1-T-10

LED Size: 5050 SMD

LED Quantity: 3 LEDs per 1.97"

Input Power: 12VDC Constant Voltage

Watts: 4.30W per foot

Max Serial Connection: 20ft

Operating Temp: -4° ~ 104°F

Beam Angle: 120°

Rating: IP67 Waterproof

Warranty Period: 2 Years

Input Power: 12VDC Constant Voltage

Power supply equation

X * 4.30 = Y

X = linear strip light footage

Y = minimum transformer wattage

<u>Precautions</u>



WARNING - This product should be installed, cut and connected only by a qualified professional.



NEVER cut, connect, or join wires while product is connected to a live power source.



Use 12VDC Input Only!



DO NOT bend, fold or crease the strip in a manner that will damage the conductivity of the circuit board.



VAC DO NOT use AC Input!



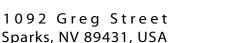
DO NOT use in direct sunlight. DO NOT use in environments over 104°F.



This product must be sealed properly with glue and end caps after cutting to retain IP67 waterproof rating.



DO NOT exceed 20ft serial connection! BE CERTAIN your 12VDC source and wire gauge is suffice for powered load.





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INSTALLATION





1.) Clean Mounting Surface



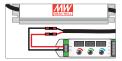
Use your cleaning supplies to clean your mounting surface. Please note that mounting surface must be smooth, clean and dry for the 3M tape to permanently adhere.

2.) Connect Transformer



WARNING – This step should be done by a qualified professional. Always disable AC power before connecting! Use wire nuts or connectors to secure your AC input to your 12V transformer.

3.) Connect Controller



Always be certain power is disabled before connecting! Use a small screw driver to connect your 12VDC positive and negative wires to your 3 channel RGB controller input.

3.) Connect Strip Lights



Always be certain power is disabled before connecting! Use a screw driver to connect the 4 wires from your RGB strip light to the proper output ports of your 3 channel RGB controller.

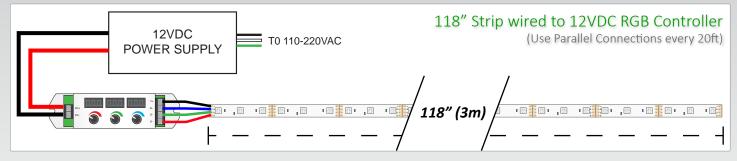
4.) Test and Mount Strips

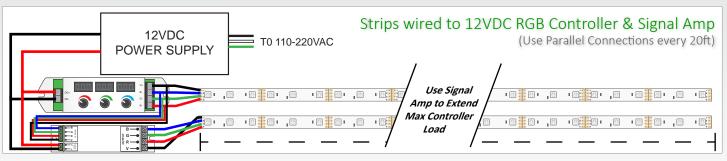


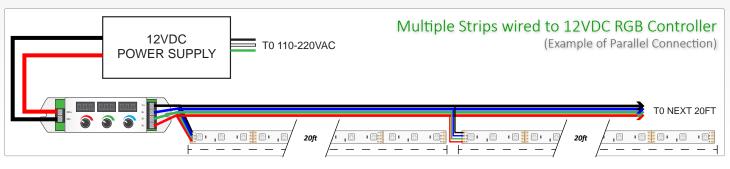
Always test your strip lights before adhering the 3M double sided tape. Never test the strip light when rolled inside the plastic reel.

CONNECTION EXAMPLES: 4.3 Watts per foot

POWER SUPPLY AND CONTROLLER AMP OUTPUT RATING MUST BE GREATER THAN THE LOAD OF THE STRIP LIGHT OUTPUT.



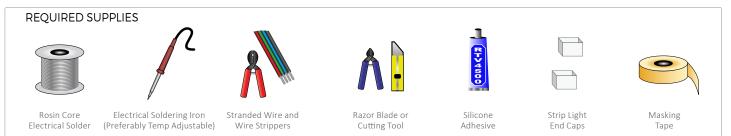




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SOLDERING INSTRUCTION

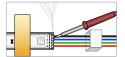


1.) Cut Waterproof Coating



Cut your strip light to length on the cut line only. Then use a sharp blade or cutting tool to expose the copper pads enough for soldering.

5.) Solder Wire to Strip



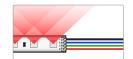
Mate your tinned wire to the copper pad with respective polarity. Black wire to DC+ (positive), Red wire to (R), Green to (G) and Blue to (B).

2.) Tin Strip Light Pads



Heat your soldering iron to 500-600°F. Use a piece of masking tape to secure your strip then tin each copper pad with rosin core electrical solder.

6.) Test Connection



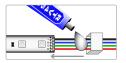
Before permanently adhering your end cap to the strip light, it is a good idea to test your connection first.

3.) Strip and Tin Wire



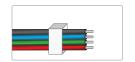
Strip your 2 conductor stranded wire roughly 1/8". Tin the exposed wires with rosin core solder.

7.) Glue End Cap



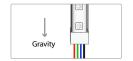
You can now glue on your end cap. We recommend using RTV 4500 Silicone type adhesive, fill the entire end cap and gum all commisures.

4.) Push Wires through Cap



Push your connection wires through the end cap with wire holes. Be sure to face the end cap in the right direction.

8.) Let Glue Set



Our waterproof strip lights have a hollow inside. Be certain to hang the strip vertical so that the glue sets inside the mounting cap.

STRIP LIGHT ACCESSORIES:



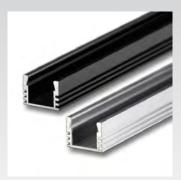
RGB Waterproof Connectors



12VDC Power Supplies



RGB LED Controllers



Aluminum Extrusions and Covers

HELPFUL LINKS:

12VDC Power Supplies - https://www.ecolocityled.com/category/led_power_supplies_12v
RGB LED Controllers - https://www.ecolocityled.com/category/rgb_led_lighting_controllers_only
RGB Connection Wire - https://www.ecolocityled.com/category/led_connection_wire_products
Aluminum Extrusions - https://www.ecolocityled.com/category/led_aluminum_extrusions
Strip Light Soldering Guide - https://www.ecolocityled.com/category/led_tutorials_rgb_solder