

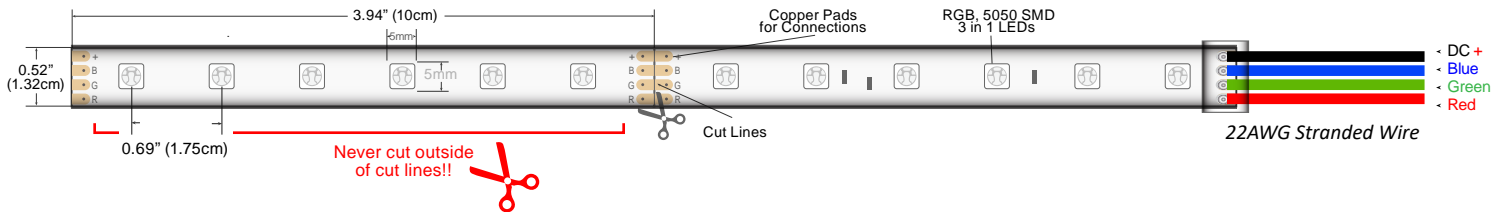
RGB 180 Waterproof LED Strip Light - 24VDC

SKU: RL-SC-RS-RGB24-T-10

ECOLOCITY
LED LIGHTING SOLUTIONS

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

SPECIFICATIONS



Product SKU : RL-SC-RS-RGB24-T-10

LED Size : 5050 SMD

LED Quantity : 6 LEDs per 3.94"

Input Power : 24VDC Constant Voltage

Watts : 4.30W per foot

Max Serial Connection : 30ft

Operating Temp : -4° ~ 104°F

Beam Angle : 120°

Rating : IP67 Waterproof

Warranty Period : 2 Years

Input Power: 24VDC Constant Voltage

Power supply equation

$$X * 4.30 = Y$$

X = linear strip light footage

Y = minimum transformer wattage

PRECAUTIONS



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.



24VDC Use 24VDC Input Only!



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



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 30ft serial connection!
BE CERTAIN your 24VDC source and wire gauge is suffice for powered load.

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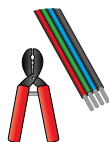
SKU: RL-SC-RS-RGB24-T-10

INSTALLATION

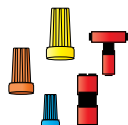
REQUIRED SUPPLIES



Cleaning Supplies or Degreaser



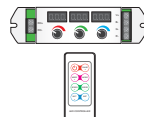
Stranded Wire and Wire Strippers



Wire Nuts or Connectors

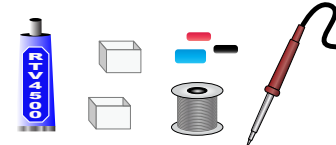


24VDC Power Supply



RGB 3 Channel Color Controller

OPTIONAL SUPPLIES



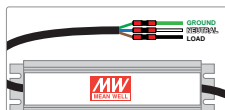
Solder, Solder Iron, Adhesive and End Caps (Required to cut and re-connect)

1.) Clean Mounting Surface



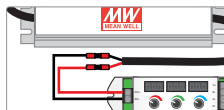
Use your cleaning supplies to clean your mounting surface. Please note that mounting surface must be smooth, clean and dry for the 3M tape to permanently adhere.

2.) Connect Transformer



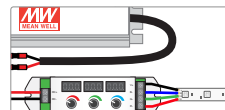
WARNING – This step should be done by a qualified professional. Always disable AC power before connecting! Use wire nuts or connectors to secure your AC input to your 24V transformer.

3.) Connect Controller



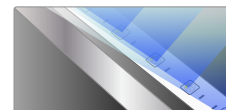
Always be certain power is disabled before connecting! Use a small screw driver to connect your 24VDC positive and negative wires to your 3 channel RGB controller input.

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.

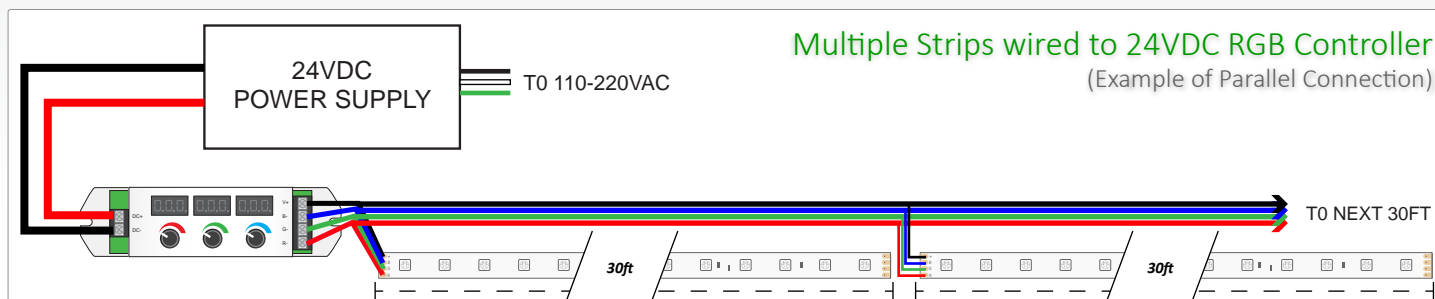
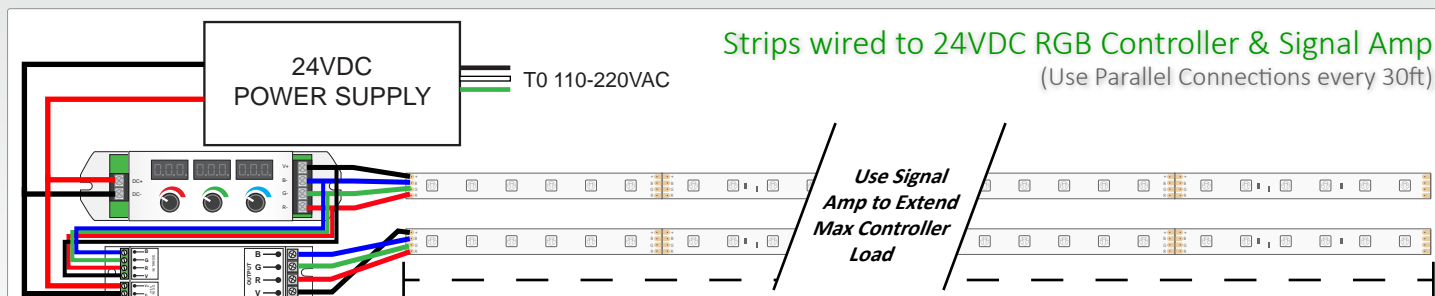
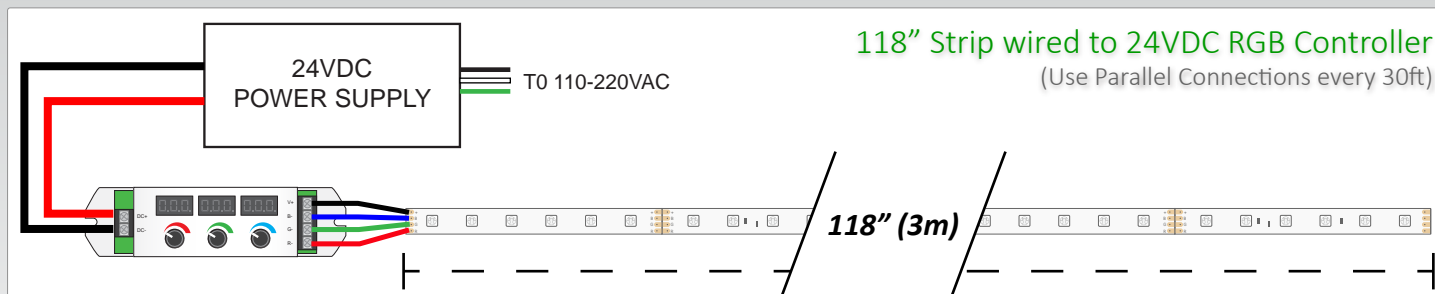
4.) Test and Mount Strips



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.

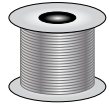


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SOLDERING INSTRUCTION

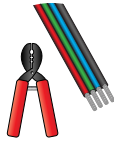
REQUIRED SUPPLIES



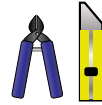
Rosin Core
Electrical Solder



Electrical Soldering Iron
(Preferably Temp Adjustable)



Stranded Wire and
Wire Strippers



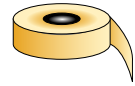
Razor Blade or
Cutting Tool



Silicone
Adhesive

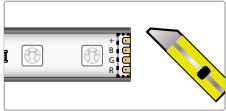


Strip Light
End Caps



Masking
Tape

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.

2.) Tin Strip Light Pads



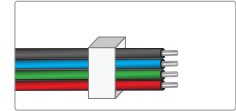
Heat your soldering iron to 500-600°F. Use a piece of masking tape to secure your strip then tin each copper pad with rosin core electrical solder.

3.) Strip and Tin Wire



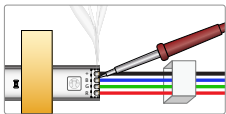
Strip your 2 conductor stranded wire roughly 1/8". Tin the exposed wires with rosin core solder.

4.) Push Wires through Cap



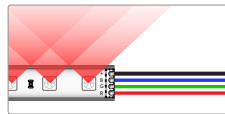
Push your connection wires through the end cap with wire holes. Be sure to face the end cap in the right direction.

5.) Solder Wire to Strip



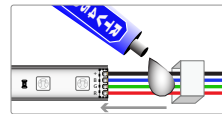
Mate your tinned wire to the copper pad with respective polarity. Black wire to DC+ (positive), Red wire to (R), Green to (G) and Blue to (B).

6.) Test Connection



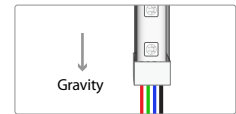
Before permanently adhering your end cap to the strip light, it is a good idea to test your connection first.

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.

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



24VDC Power Supplies



RGB LED Controllers



Aluminum Extrusions
and Covers

HELPFUL LINKS:

24VDC Power Supplies - https://www.ecolocityled.com/category/led_power_supplies_24v

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