

Ribbon Star Supreme LED Strip Light - 24VDC

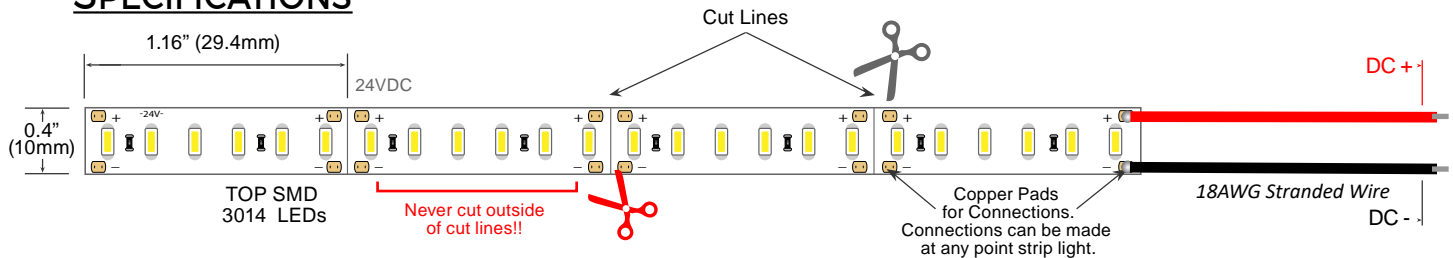
SKU: RL-SC-RSS24

ECOLOCITY
LED Lighting Solutions

255 Distribution Dr. #104
Sparks, NV 89441, USA
ECOLOCITYLED.COM
775-636-6060



SPECIFICATIONS



Product SKU : RL-SC-RSS24

LED Size : 3014 SMD

LED Quantity : 6 LEDs per 1.16"

Input Power : 24VDC Constant Voltage

Watts : 9.5W per foot

Max Serial Connection : 20ft

Operating Temp : -4° ~ 113°F

Beam Angle : 120°

Rating : Dry

Warranty Period : 2 Years

Input Power: 24VDC Constant Voltage

Power supply equation

$$X * 9.50 = Y$$

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 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 113°F.
DO install on a metal heat sink.



This product is not designed to be installed in wet or damp environments.



DO NOT exceed 20ft serial connection!
BE CERTAIN your 24VDC source and wire gauge is suffice for powered load.

EcolocityLED.com
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INSTALLATION

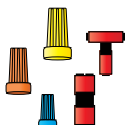
REQUIRED SUPPLIES



Cleaning Supplies or Degreaser



Stranded Wire and Wire Strippers

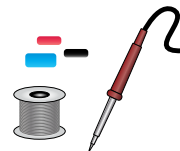


Wire Nuts or Connectors



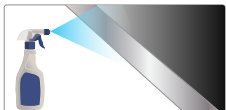
24VDC Power Supply

OPTIONAL SUPPLIES



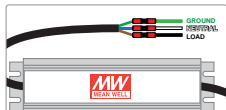
Solder, Solder Iron and Heat Shrink (Required to cut and re-connect)

1.) Clean Mounting Surface



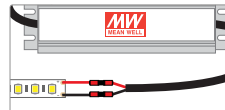
Use your cleaning supplies to clean your mounting surface. Please note that mounting surface must be smooth, clean and dry for the 3M tape to permanently adhere.

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 Strip Lights



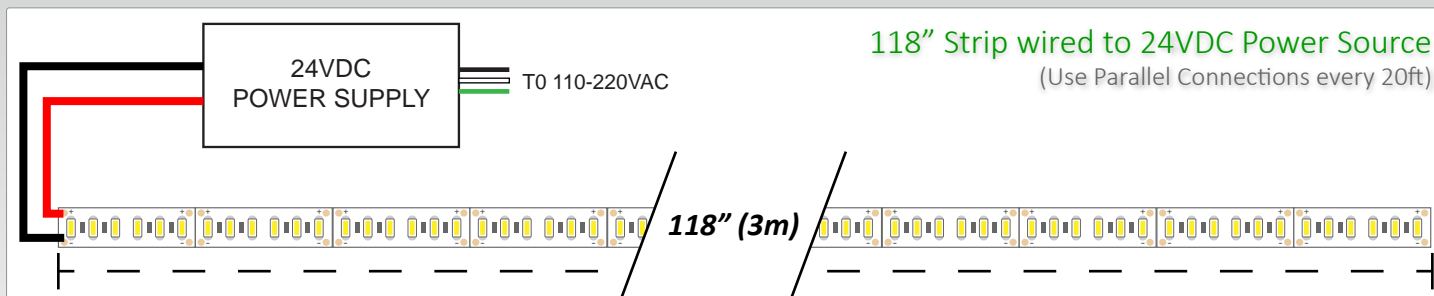
Always be certain power is disabled before connecting! Use wire nuts, connectors, or solder and heat shrink to secure your 24V DC+ and DC- output wires to your LED Strip Light.

4.) Test and Mount Strip Lights

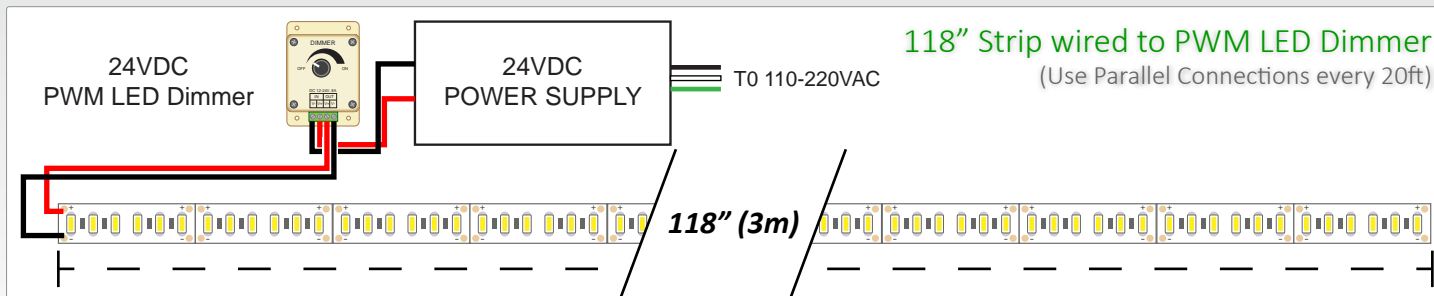


Always test your strip lights before adhering the 3M double sided tape. **Never test the strip light when rolled inside the plastic reel.**

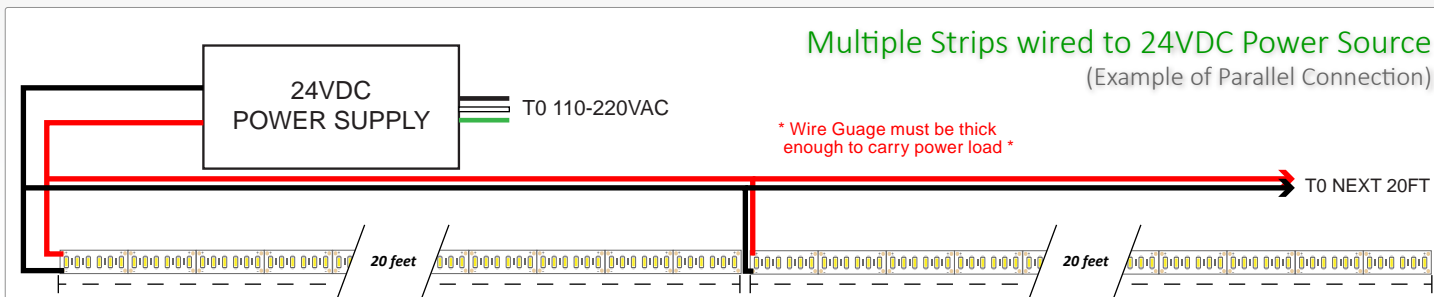
CONNECTION EXAMPLES: 9.50 Watts per foot



118" Strip wired to 24VDC Power Source
(Use Parallel Connections every 20ft)



118" Strip wired to PWM LED Dimmer
(Use Parallel Connections every 20ft)



Multiple Strips wired to 24VDC Power Source
(Example of Parallel Connection)

* Wire Gauge must be thick enough to carry power load *

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SOLDERING INSTRUCTION

REQUIRED SUPPLIES



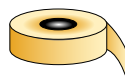
Rosin Core
Electrical Solder



Electrical Soldering Iron
(Preferably Temp Adjustable)



Stranded Wire and
Wire Strippers



Masking
Tape

OPTIONAL SUPPLIES



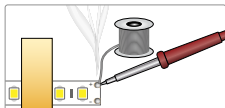
Heat Shrink and Heat Gun
(Recommended but not required)

1.) Strip and Tin Wire



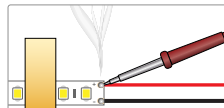
Heat your soldering iron to 500-600°F. Strip your 2 conductor stranded wire roughly 1/8". Tin the exposed wires with rosin core solder.

2.) Tin Strip Light Pads



Cut your strip light to length on cut line between copper pads then secure with masking tape. Tin each copper pad with rosin core solder.

3.) Solder Wire to Strip



Mate your tinned wire to the copper pad with respective polarity. Red wire to DC+ (positive), Black wire to DC- (negative).

4.) Test and Heat Shrink



Test your soldered connection for continuity or any electrical arcing. Once tested you can cover exposed copper pads with heat shrink if desired.

STRIP LIGHT ACCESSORIES:



NO CONNECTORS
(Strip light must be soldered)



24VDC Power Supplies



PWM LED Dimmers



Aluminum Extrusions
and Covers

HELPFUL LINKS:

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

PWM LED Dimmers - http://www.ecolocityled.com/category/pwm_led_light_dimmer

18AWG Connection Wire - http://www.ecolocityled.com/product/50ft_dc_connection_wire_bonded

Aluminum Extrusions - http://www.ecolocityled.com/category/led_aluminum_extrusions

Strip Light Soldering Guide - http://www.ecolocityled.com/category/led_tutorials_dc_solder