

Ribbon Star LED Strip Light - 12VDC

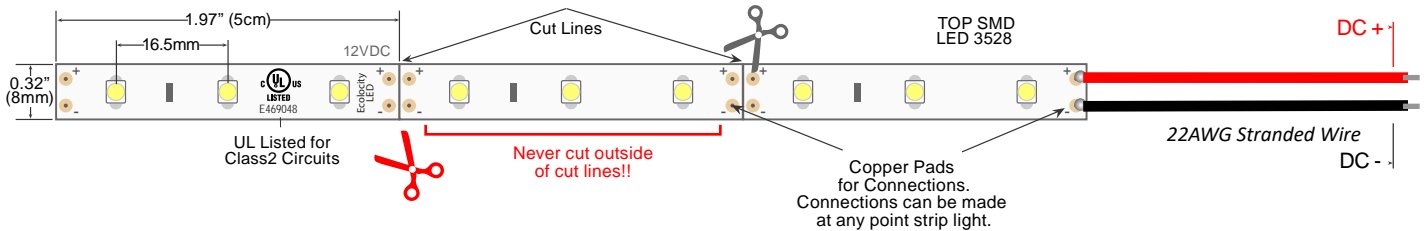
SKU: RL-SC-RS

ECOCITY
LED Lighting Solutions

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



SPECIFICATIONS



Product SKU : RL-SC-RS

LED Size : 3528 SMD

LED Quantity : 3 LEDs per 1.97"

Input Power : 12VDC Constant Voltage

Watts : 1.46W per foot

Max Serial Connection : 30ft

Operating Temp : -4° ~ 113°F

Beam Angle : 120°

Rating : Dry

Warranty Period : 2 Years

Input Power: 12VDC Constant Voltage

Power supply equation

$$X * 1.46 = Y$$

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.



12VDC Use 12VDC 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 30ft serial connection!
BE CERTAIN your 12VDC source and wire gauge is suffice for powered load.

EcolocityLED.com
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INSTALLATION

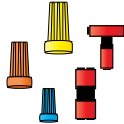
REQUIRED SUPPLIES



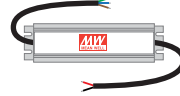
Cleaning Supplies
or Degreaser



Stranded Wire and
Wire Strippers

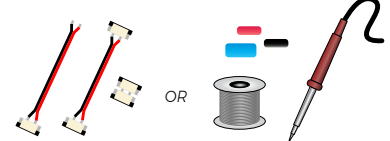


Wire Nuts or
Connectors



12VDC Power
Supply

OPTIONAL SUPPLIES



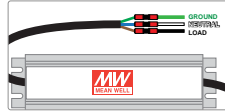
Quick Connectors or Solder, Solder Iron and Heat Shrink
(Required to cut and re-connect)

1.) Clean Mounting Surface



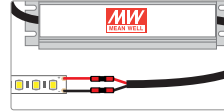
Use your cleaning supplies to clean your mounting surface. Please note that mounting surface must be smooth, clean and dry for the 3M tape to permanently adhere.

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 12V transformer.

3.) Connect Strip Lights



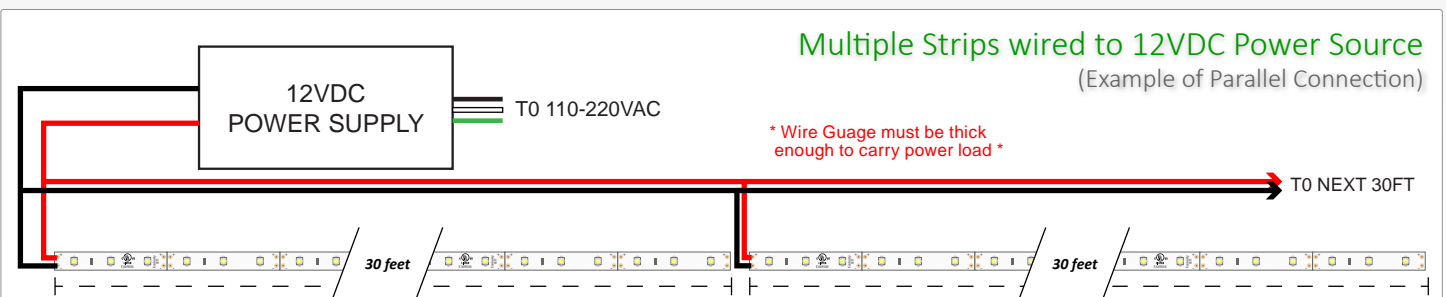
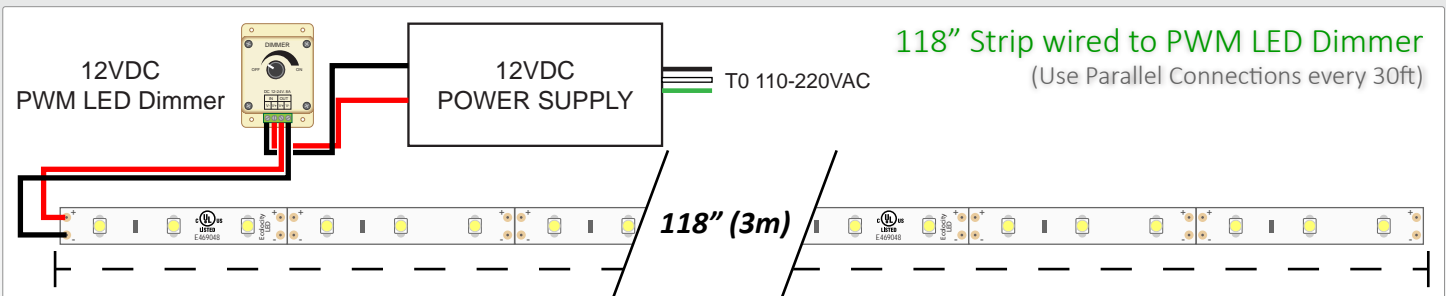
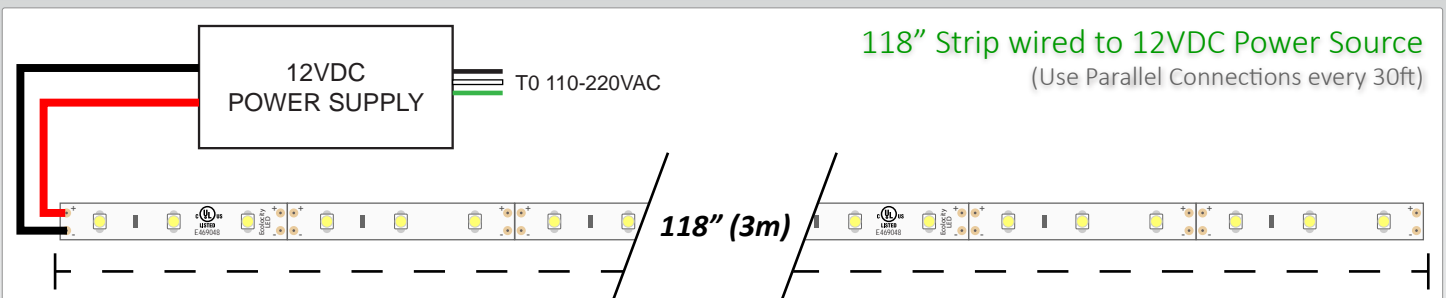
Always be certain power is disabled before connecting! Use wire nuts, connectors, or solder and heat shrink to secure your 12V DC+ and DC- output wires to your LED Strip Light.

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: 1.46 Watts per foot

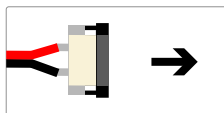


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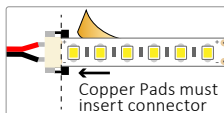
QUICK CONNECTOR INSTRUCTION

1.) Gently Pull Tab



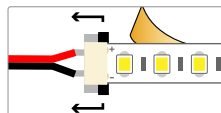
Gently pull out the black plastic tab about 1/16".

2.) Insert Strip Light



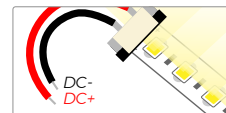
Slightly pull back 3M tape cover, Check the polarity of your strip then insert into the connector.

3.) Push Back Tabs



Push back the plastic tabs to pinch the strip light into place.

4.) Test your Connection



Test your connection before installation.

SOLDERING INSTRUCTION

REQUIRED SUPPLIES



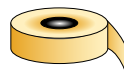
Rosin Core
Electrical Solder



Electrical Soldering Iron
(Preferably Temp Adjustable)

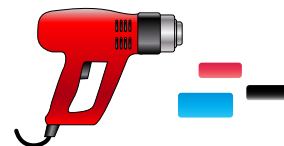


Stranded Wire and
Wire Strippers



Masking
Tape

OPTIONAL SUPPLIES



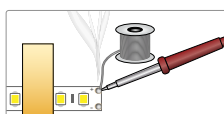
Heat Shrink and Heat Gun
(Recommended but not required)

1.) Strip and Tin Wire



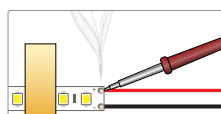
Heat your soldering iron to 500-600°F. Strip your 2 conductor stranded wire roughly 1/8". Tin the exposed wires with rosin core solder.

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:



Strip Light
Quick Connectors



12VDC Power Supplies



PWM LED Dimmers



Aluminum Extrusions
and Covers

HELPFUL LINKS:

12VDC Power Supplies - http://www.ecolocityled.com/category/led_power_supplies_12v

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

22AWG Connection Wire - http://www.ecolocityled.com/product/22_gauge_bonded_pair_dc_wire

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

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