

Ribbon Star Ultra 2 LED Strip Light - 24VDC

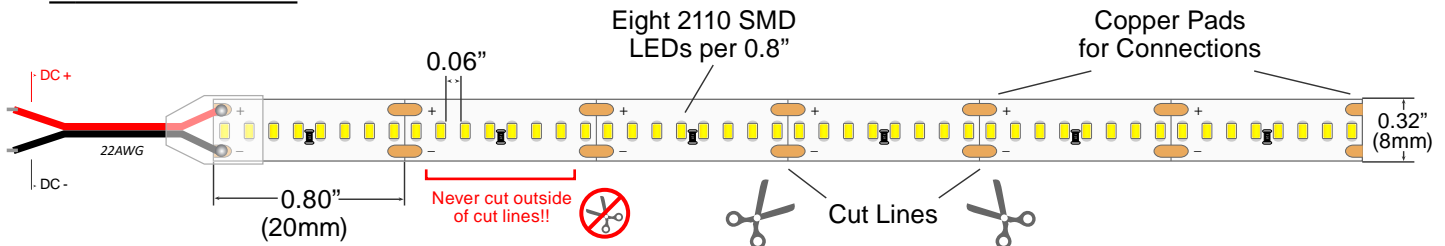
SKU: RL-SC-UT24

ECOLOCITY
LED LIGHTING SOLUTIONS

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



SPECIFICATIONS



Product SKU : RL-SC-UT24

LED Size : 2110 SMD

LED Quantity : 8 LEDs per 0.80"

Input Power : 24VDC Constant Voltage

Watts : 6.1W 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

$$X * 6.10 = Y$$

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 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.

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INSTALLATION

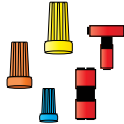
REQUIRED SUPPLIES



Cleaning Supplies
or Degreaser



Stranded Wire and
Wire Strippers

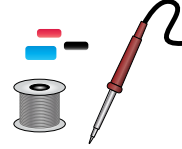


Wire Nuts or
Connectors



24VDC Power
Supply

OPTIONAL SUPPLIES



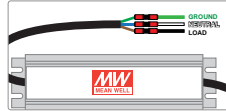
Rosin Core Solder, Solder Iron and Heat Shrink
(Required to cut and re-connect)

1.) Clean Mounting Surface



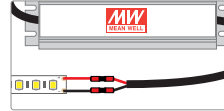
Use your cleaning supplies to clean your mounting surface. Please note that mounting surface must be smooth, clean and dry for the 3M tape to permanently adhere.

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



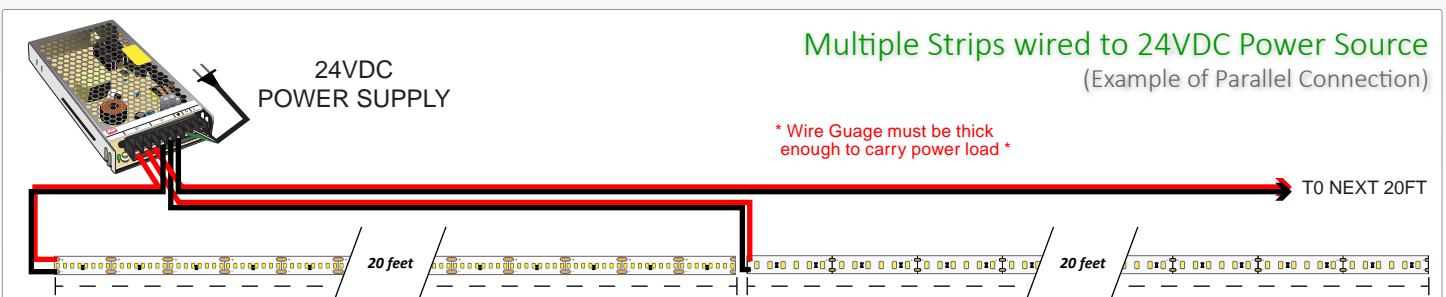
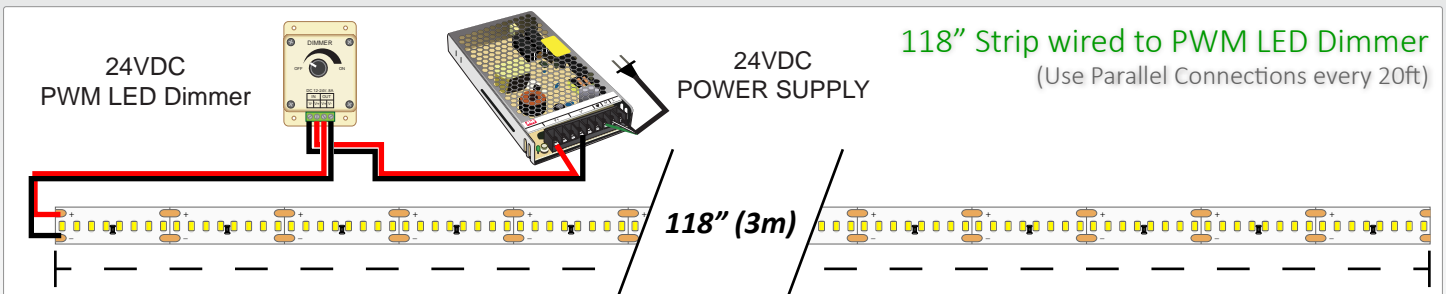
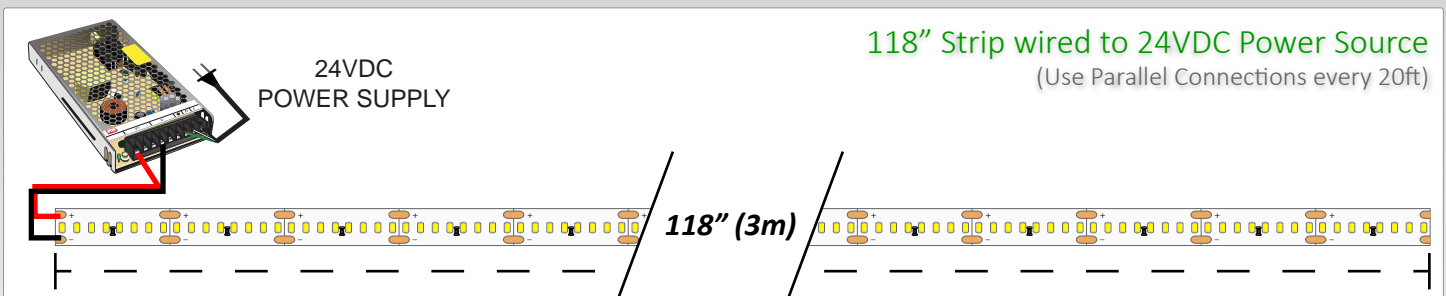
Always be certain power is disabled before connecting! Use wire nuts, connectors, or solder and heat shrink to secure your 24V DC+ and DC- output wires to your LED Strip Light.

4.) Test and Mount Strip Lights



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.

CONNECTION EXAMPLES: 6.1 Watts per foot



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SOLDERING INSTRUCTION

REQUIRED SUPPLIES



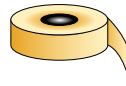
Rosin Core
Electrical Solder



Electrical Soldering Iron
(Preferably Temp Adjustable)

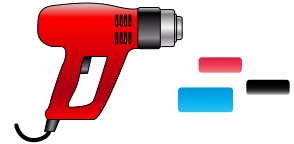


Stranded Wire and
Wire Strippers



Masking
Tape

OPTIONAL SUPPLIES



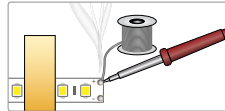
Heat Shrink and Heat Gun
(Recommended but not required)

1.) Strip and Tin Wire



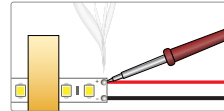
Heat your soldering iron to 500-600°F. Strip your 2 conductor stranded wire roughly 1/8". Tin the exposed wires with rosin core solder.

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:



Connection Wire



24VDC Power Supplies



PWM LED Dimmers



Aluminium Extrusions
and Covers

HELPFUL LINKS:

Connection Wire - https://www.ecolocityled.com/category/led_connection_wire_products

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

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

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

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