

# Ribbon Star MegaLux LED Strip Light - 24VDC

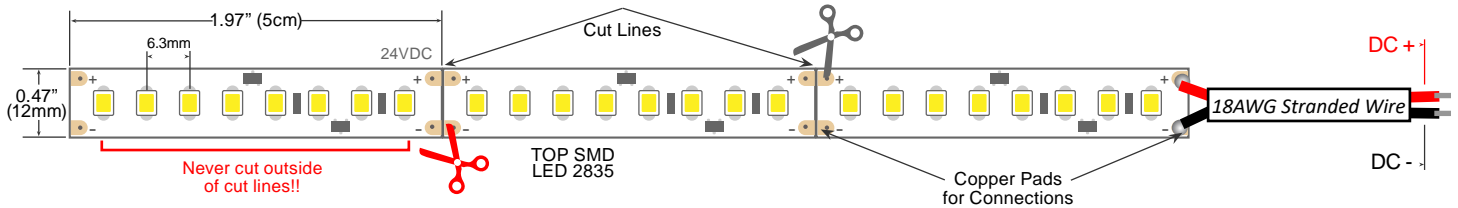
SKU: RL-DX-MGL

**ECOLOCITY**  
LED LIGHTING SOLUTIONS

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



## SPECIFICATIONS



Product SKU : RL-DX-MGL

LED Size : 2835 SMD

LED Quantity : 8 LEDs per 1.97"

Input Power : 24VDC Constant Voltage

Watts : 8.77W per foot

Max Serial Connection : 20ft

Beam Angle : 120°

Ambient Temperature : -4° ~ 113°F

Rating : Dry

Warranty Period : 2 Years

**Input Power: 24VDC Constant Voltage**

Power supply equation

$$X * 8.77 = Y$$

*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.

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# Ribbon Star MegaLux LED Strip Light - 24VDC

SKU: RL-DX-MGL

## INSTALLATION

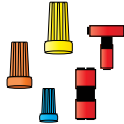
### REQUIRED SUPPLIES



Cleaning Supplies  
or Degreaser



Stranded Wire and  
Wire Strippers

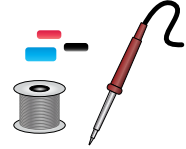


Wire Nuts or  
Connectors



24VDC Power  
Supply

### OPTIONAL SUPPLIES



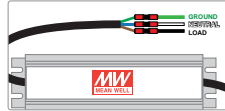
Solder, Solder Iron and Heat Shrink  
(Required to cut and re-connect)

#### 1.) Clean Mounting Surface



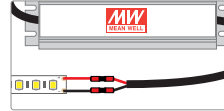
Use your cleaning supplies to clean your mounting surface. Please note that mounting surface must be smooth, clean and dry for the 3M tape to permanently adhere.

#### 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



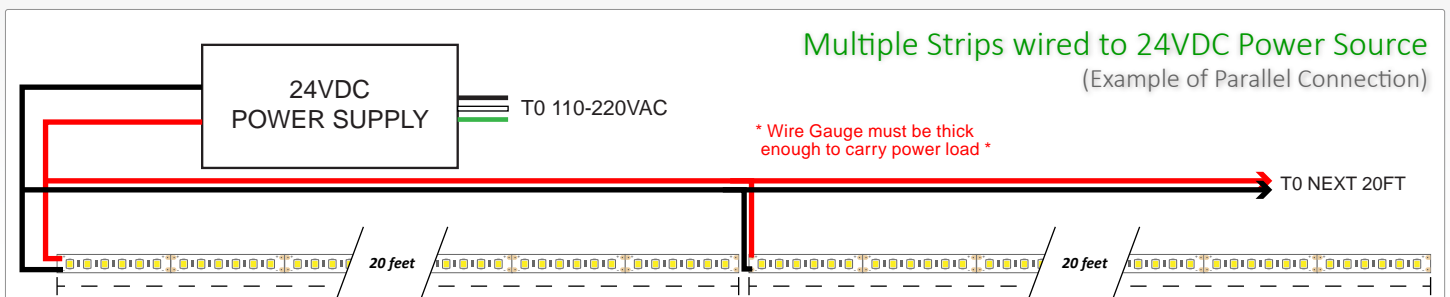
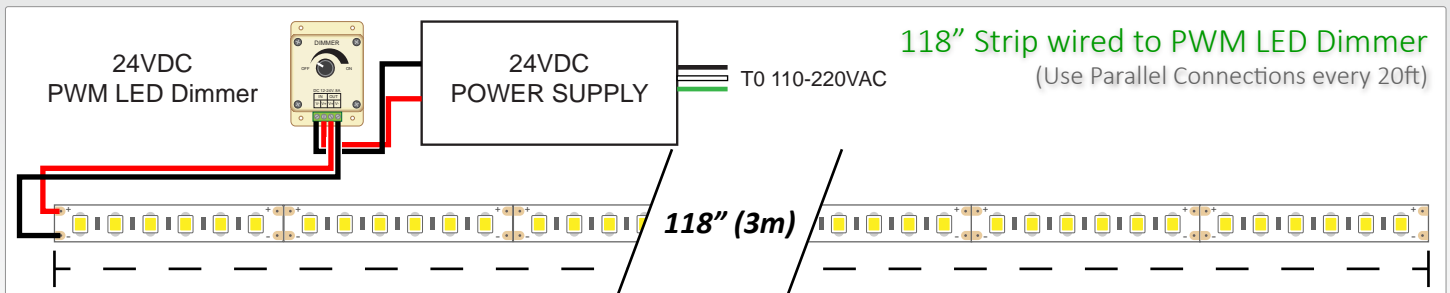
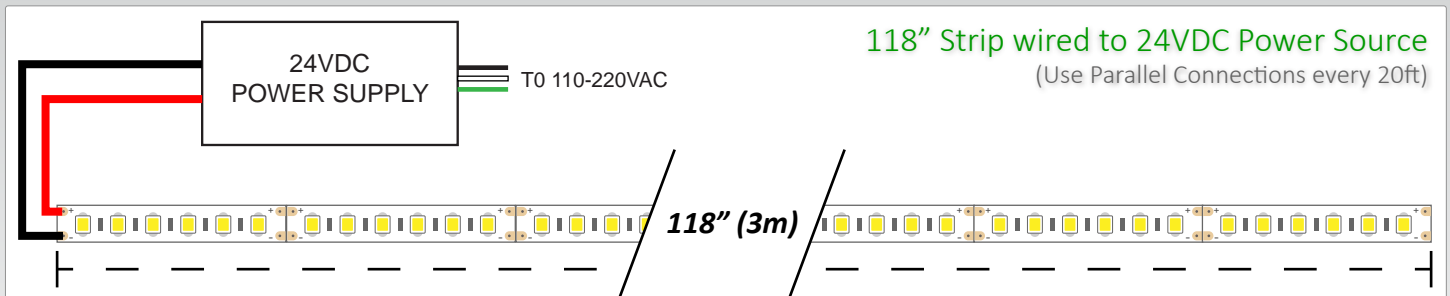
Always be certain power is disabled before connecting! Use wire nuts, connectors, or solder and heat shrink to secure your 24V DC+ and DC- output wires to your LED Strip Light.

#### 4.) Test and Mount Strip Lights



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: 8.77 Watts per foot



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## SOLDERING INSTRUCTION

### REQUIRED SUPPLIES



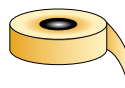
Rosin Core  
Electrical Solder



Electrical Soldering Iron  
(Preferably Temp Adjustable)



Stranded Wire and  
Wire Strippers



Masking  
Tape

### OPTIONAL SUPPLIES



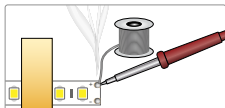
Heat Shrink and Heat Gun  
(Recommended but not required)

#### 1.) Strip and Tin Wire



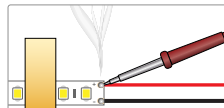
Heat your soldering iron to 500-600°F. Strip your 2 conductor stranded wire roughly 1/8". Tin the exposed wires with rosin core solder.

#### 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:



**NO CONNECTORS**  
(Strip light must be soldered)



24VDC Power Supplies



PWM LED Dimmers



Aluminium Extrusions  
and Covers

## HELPFUL LINKS:

**24VDC Power Supplies** - [http://www.ecolocityled.com/category/led\\_power\\_supplies\\_24v](http://www.ecolocityled.com/category/led_power_supplies_24v)

**PWM LED Dimmers** - [http://www.ecolocityled.com/category/pwm\\_led\\_light\\_dimmer](http://www.ecolocityled.com/category/pwm_led_light_dimmer)

**18AWG Connection Wire** - [http://www.ecolocityled.com/product/50ft\\_dc\\_connection\\_wire\\_bonded](http://www.ecolocityled.com/product/50ft_dc_connection_wire_bonded)

**Aluminium Extrusions** - [http://www.ecolocityled.com/category/led\\_aluminum\\_extrusions](http://www.ecolocityled.com/category/led_aluminum_extrusions)

**Strip Light Soldering Guide** - [http://www.ecolocityled.com/category/led\\_tutorials\\_dc\\_solder](http://www.ecolocityled.com/category/led_tutorials_dc_solder)