Ribbon Star Max Waterproof LED Strip Light - 12VDC
SKU: RL-SC-RSM-T

SPECIFICATIONS

Product SKU: RL-SC-RSM-T
LED Size: 3528 SMD
LED Quantity: 3 LEDs per 0.98"
Input Power: 12VDC Constant Voltage
Watts: 2.92W per foot
Max Serial Connection: 30ft
Operating Temp: -4°C~104°F
Beam Angle: 120°
Rating: IP67 Waterproof
Warranty Period: 2 Years

Input Power: 12VDC Constant Voltage

Power supply equation

\[ X \times 2.92 = Y \]

\[ X = \text{linear strip light footage} \]

\[ Y = \text{minimum transformer wattage} \]

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.

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

To extend the life of this product do not use in direct sun or environments over 104°F.

DO NOT exceed 30ft serial connection! BE CERTAIN your 12VDC source and wire gauge is suffice for powered load.

This product must be sealed properly with glue and end caps after cutting to retain IP67 waterproof rating.
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**INSTALLATION**

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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 VHB double sided tape. Never test the strip light when it is rolled up.

**CONNECTION EXAMPLES:** 2.92 Watts per foot

- 12VDC POWER SUPPLY

118” Strip wired to 12VDC Power Source

(Use Parallel Connections every 30ft)

118” Strip wired to PWM LED Dimmer

(Use Parallel Connections every 30ft)

Multiple Strips wired to 12VDC 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 Solder Iron (Preferably Temp Adjustable)
- Stranded Wire and Wire Strippers
- Razor Blade or Cutting Tool
- UV 6800 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 plastic 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. Red wire to DC+ (positive), Black wire to DC- (negative).

### 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 UV6800 type adhesive, fill the entire end cap and gum all commissures.

### 4) 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.

**Helpful Links:**
- **12VDC Power Supplies** - [http://www.ecolocityled.com/category/led_power_supplies_12v](http://www.ecolocityled.com/category/led_power_supplies_12v)
- **18AWG Connection Wire** - [http://www.ecolocityled.com/product/2conductor_outdoor_wire](http://www.ecolocityled.com/product/2conductor_outdoor_wire)