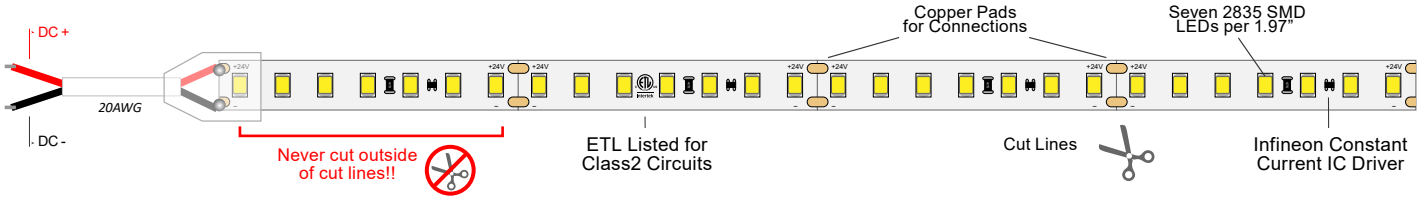
Ribbon Star Long Run LED Strip Light - 24VDC

SKU: RL-DX-LR140

ECOLOCITY
LED LIGHTING SOLUTIONS

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

Specifications



Product SKU :	RL-DX-LR140
LED Size :	2835 SMD
LED Quantity :	7 LEDs per 1.97"
Input Power :	24VDC Constant Voltage
Watts :	3.66W per foot
Max Serial Connection :	32.8ft
Operating Temp :	-4° ~ 113°F
Beam Angle :	120°
Rating :	IP20 / IP67
Warranty Period :	2 Years

Input Power: 24VDC Constant Voltage

Power supply equation

X * 3.66 = 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.

120VAC DO NOT use AC Input!

DO NOT use in environments over 113°F.

IP67 strip light can be installed in wet or damp environments. If silicone is cut it must be re-sealed by end user.

DO NOT exceed 33ft serial connection! BE CERTAIN your 24VDC source and wire gauge is suffice for powered load.

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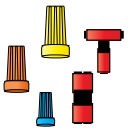
Installation

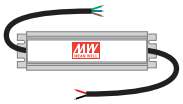
REQUIRED SUPPLIES

Cleaning Supplies or Degreaser

Stranded Wire and Wire Strippers

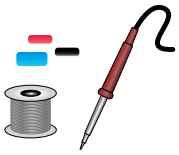


Wire Nuts or Connectors



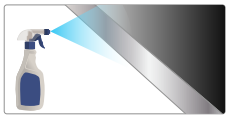
24VDC Power Supply

OPTIONAL SUPPLIES



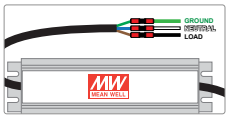
Rosin Core Solder, Solder Iron and Heat Shrink (Required to cut and re-connect)

1.) Clean Mounting Surface



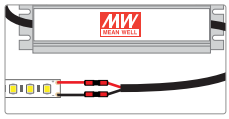
Use your cleaning supplies to clean your mounting surface. Please note that mounting surface must be smooth, clean and dry for the 3M tape to permanently adhere.

2.) Connect Transformer



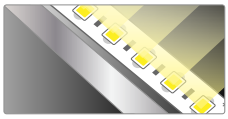
WARNING – This step should be done by a qualified professional. Always disable AC power before connecting! Use wire nuts or connectors to secure your AC input to your 24V transformer.

3.) Connect Strip Lights



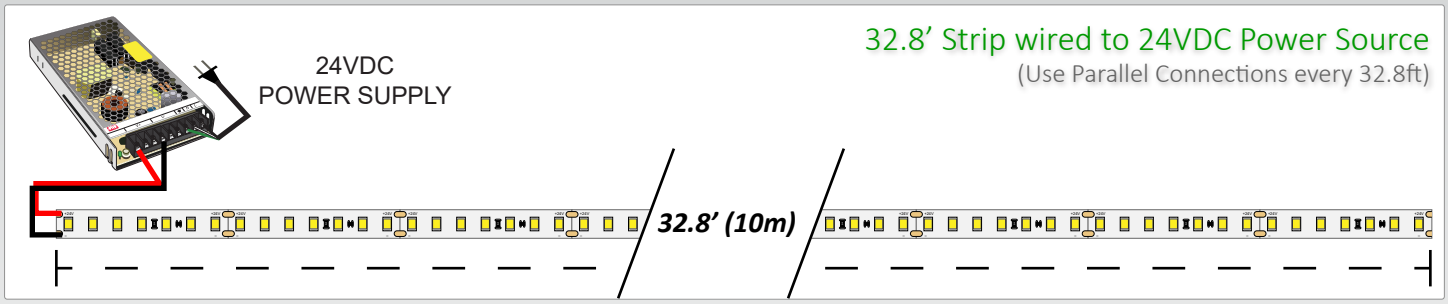
Always be certain power is disabled before connecting! Use wire nuts, connectors, or solder and heat shrink to secure your 24V DC+ and DC- output wires to your LED Strip Light.

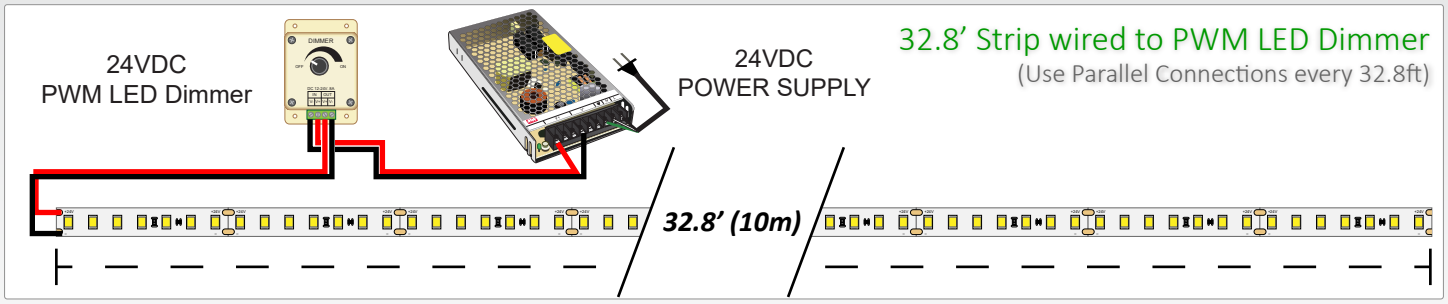
4.) Test and Mount Strip Lights

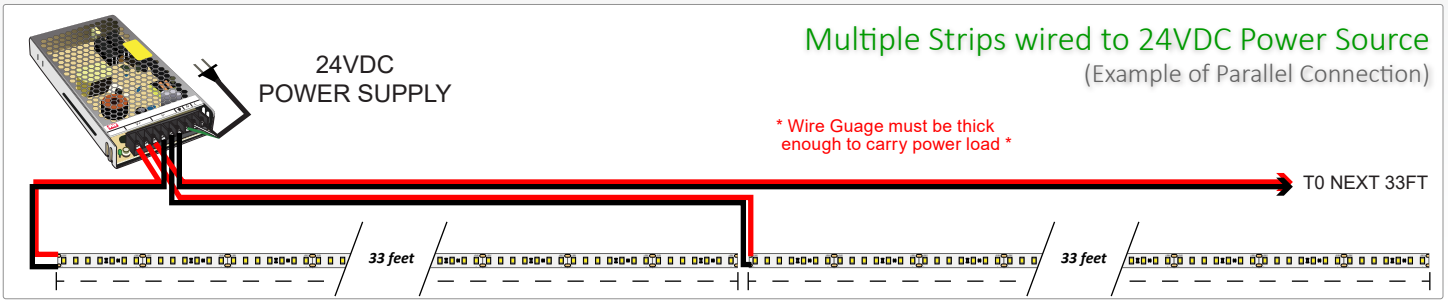


Use your cleaning supplies to clean your mounting surface. Please note that mounting surface must be smooth, clean and dry for the 3M tape to permanently adhere.

Connection Examples: 3.66 Watts per foot







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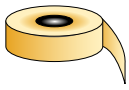
IP20 SOLDERING INSTRUCTION

REQUIRED SUPPLIES

Rosin Core Electrical Solder

Electrical Soldering Iron (Preferably Temp Adjustable)

Stranded Wire and Wire Strippers



Masking Tape

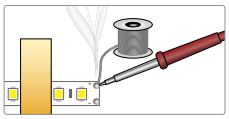
OPTIONAL SUPPLIES

Heat Shrink and Heat Gun (Recommended but not required)

1.) Strip and Tin Wire

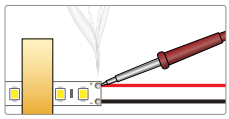
Heat your soldering iron to 500-600°F. Strip your 2 conductor stranded wire roughly 1/8". Tin the exposed wires with rosin core solder.

2.) Tin Strip Light Pads



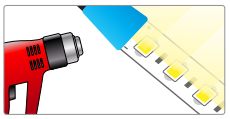
Cut your strip light to length on cut line between copper pads then secure with masking tape. Tin each copper pad with rosin core solder.

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.

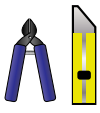
IP67 SOLDERING INSTRUCTION

REQUIRED SUPPLIES

Rosin Core Electrical Solder

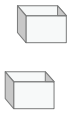
Electrical Soldering Iron (Preferably Temp Adjustable)

Stranded Wire and Wire Strippers

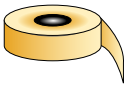


Razor Blade or Cutting Tool

Silicone Adhesive

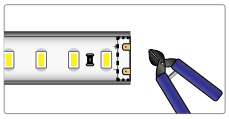


Strip Light End Caps



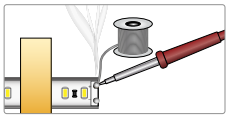
Masking Tape

1.) Cut Waterproof Coating



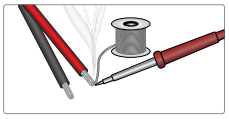
Cut your strip light to length on the cut line only. Then use a cutting tool to expose the copper pads enough for soldering.

2.) Tin Strip Light Pads



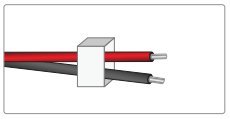
Heat your soldering iron to 500-600°F. Use a piece of masking tape to secure your strip then tin each copper pad with rosin core electrical solder.

3.) Strip and Tin Wire



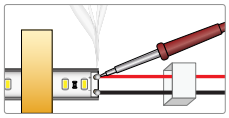
Strip your 2 conductor stranded wire roughly 1/8". Tin the exposed wires with rosin core solder.

4.) Push Wires through Cap



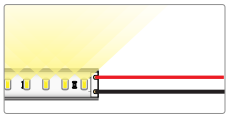
Push your connection wires through the plastic end cap with wire holes. Be sure to face the end cap in the right direction.

5.) Solder Wire to Strip



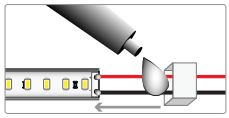
Mate your tinned wire to the copper pad with respective polarity. Red wire to DC+ (positive), Black wire to DC - (negative).

6.) Test Connection



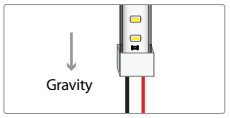
Before permanently adhering your end cap to the strip light, it is a good idea to test your connection first.

7.) Glue End Cap



You can now glue on your end cap. We recommend using RTV 4500 Silicone type adhesive, fill the entire end cap and gum all commisures.

8.) 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.

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