Ribbon Star SlimLux LED Strip Light - 24VDC
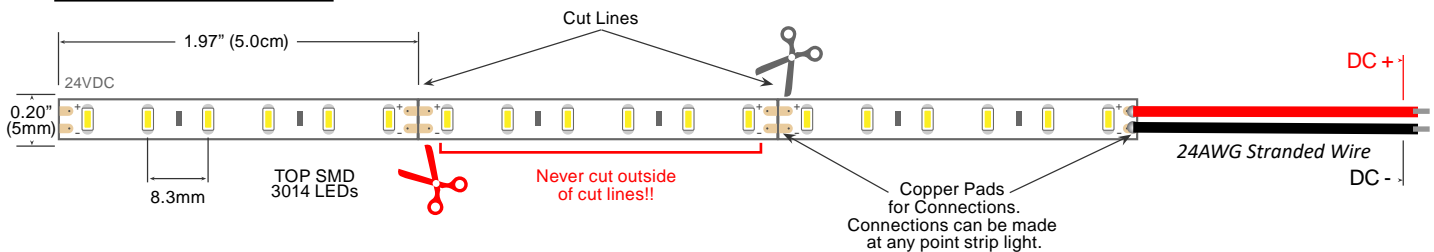## SKU: RL-DX-SLL

ECOLOCITY
LED Lighting Solutions

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

SPECIFICATIONS

1.97" (5.0cm)
24VDC
0.20" (5mm)
8.3mm
Cut Lines
Never cut outside of cut lines!!
TOP SMD 3014 LEDs
Copper Pads for Connections. Connections can be made at any point strip light.
24AWG Stranded Wire
DC +
DC -

Product SKU : RL-DX-SLL
LED Size : 3014 SMD
LED Quantity : 6 LEDs per 1.97"
Input Power : 24VDC Constant Voltage
Watts : 3.05W per foot
Max Serial Connection : 30ft
Operating Temp : -4° ~ 113°F
Beam Angle : 120°
Rating : Dry
Warranty Period : 2 Years

Input Power: 24VDC Constant Voltage

Power supply equation

$$X * 3.05 = Y$$

X = linear strip light footage
Y = minimum transformer wattage

PRECAUTIONS

WARNING – This product should be installed, cut and connected only by a qualified professional.

24VDC Use 24VDC Input Only!

120VAC DO NOT use AC Input!

This product is not designed to be installed in wet or damp environments.

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.

DO NOT use in direct sunlight.
DO NOT use in environments over 113°F.
DO install on a metal heat sink.

DO NOT exceed 30ft serial connection! BE CERTAIN your 24VDC source and wire gauge is suffice for powered load.

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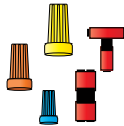
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INSTALLATION
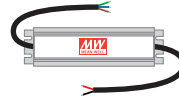
REQUIRED SUPPLIES

Cleaning Supplies or Degreaser
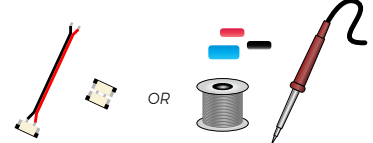
Stranded Wire and Wire Strippers

Wire Nuts or Connectors
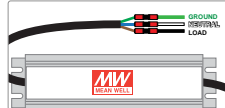
24VDC Power Supply

OPTIONAL SUPPLIES

OR

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

GROUND
NEUTRAL
LOAD

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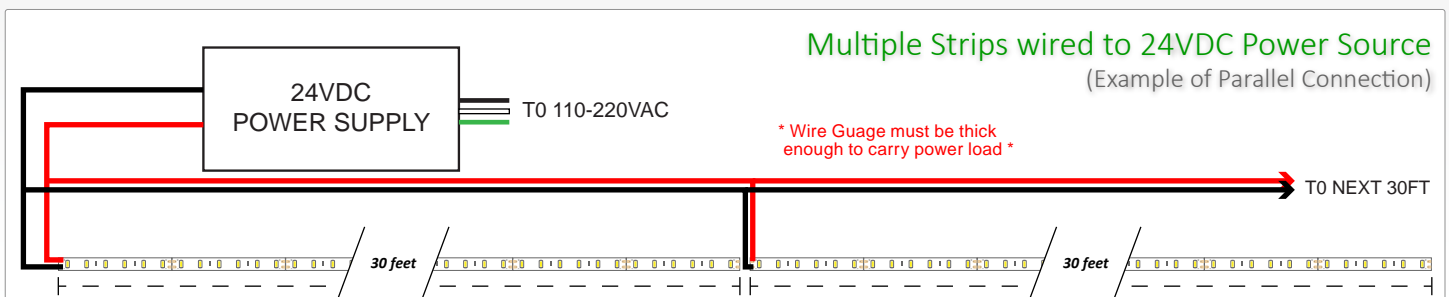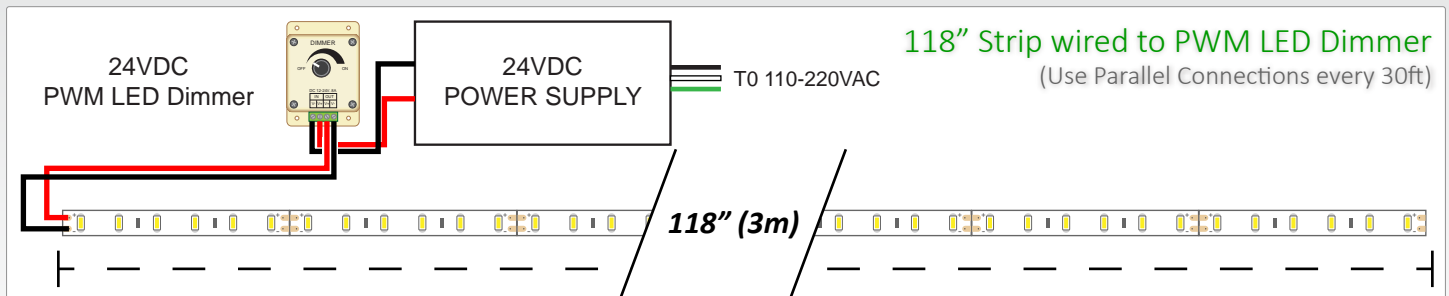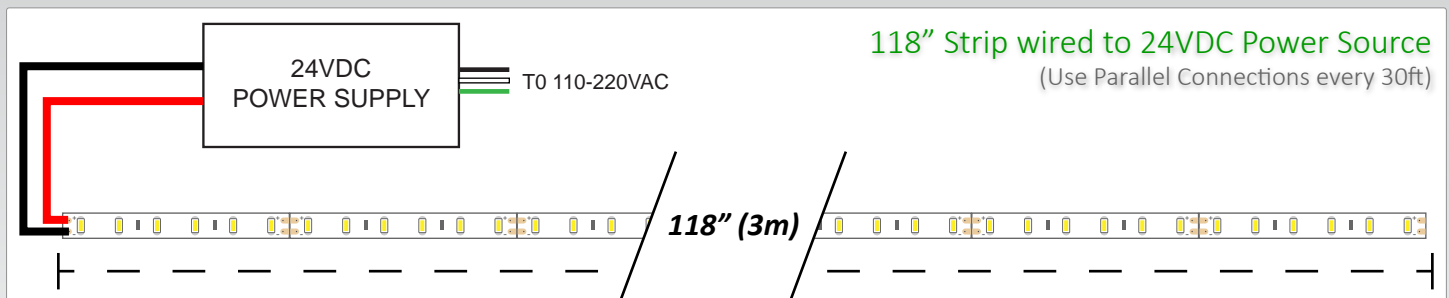
3.) Connect Strip Lights
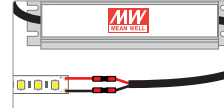
Always be certain power is disabled before connecting! Use wire nuts, connectors, or solder and heat shrink to secure your 24V DC+ and DC- output wires to your LED Strip Light.

4.) Test and Mount Strip Lights

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: 3.05 Watts per foot

118" Strip wired to 24VDC Power Source
(Use Parallel Connections every 30ft)

24VDC POWER SUPPLY

T0 110-220VAC

118" (3m)

118" Strip wired to PWM LED Dimmer
(Use Parallel Connections every 30ft)

24VDC PWM LED Dimmer

DIMMER

24VDC POWER SUPPLY

T0 110-220VAC

118" (3m)

Multiple Strips wired to 24VDC Power Source
(Example of Parallel Connection)

24VDC POWER SUPPLY

T0 110-220VAC

* Wire Guage must be thick enough to carry power load *

T0 NEXT 30FT

30 feet *30 feet*

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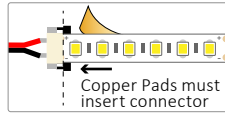
Quick Connector Instruction

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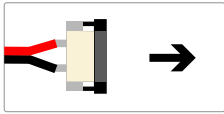
Gently pull out the black plastic tab about 1/16".

2.) Insert Strip Light
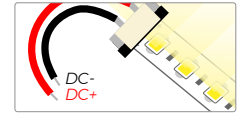
Copper Pads must insert connector

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

3.) Push Back Tabs
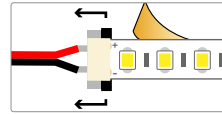
Push back the plastic tabs to pinch the strip light into place.

4.) Test your Connection

DC-
DC+

Test your connection before installation.

Soldering Instruction
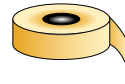
REQUIRED SUPPLIES

Rosin Core Electrical Solder

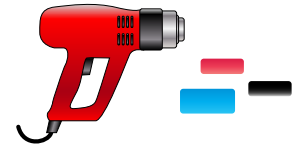Electrical Soldering Iron (Preferably Temp Adjustable)

Stranded Wire and Wire Strippers

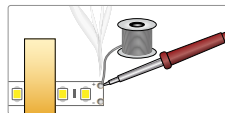Masking Tape

OPTIONAL SUPPLIES

Heat Shrink and Heat Gun (Recommended but not required)

1.) Strip and Tin Wire

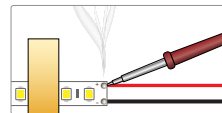Heat your soldering iron to 500-600°F. Strip your 2 conductor stranded wire roughly 1/8". Tin the exposed wires with rosin core solder.

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

24VDC Power Supplies

PWM LED Dimmers

Aluminum Extrusions
and Covers

Helpful Links:

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

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

18AWG Connection Wire - *http://www.ecolocityled.com/product/50ft_dc_connection_wire_bonded*

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

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

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