



LED TAPE LIGHTING installation guide

January 2019

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L-VMW600-16-Temp



L-RMW300-16-Temp



L-DMW150-16-Temp

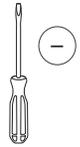
Dimming Components

Part Number	Description and Use
L-VMW600-16-Temp	High Light Output – Vivid LED Tape Lighting with Micro Waterproof Coating – IP65 Rated.
L-RMW300-16-Temp	Medium Light Output – Radiance LED Tape Lighting with Micro Waterproof Coating – IP65 Rated.
L-DMW150-16-Temp	Lower Light Output – Drizzle LED Tape Lighting with Micro Waterproof Coating – IP65 Rated.

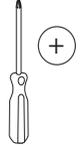
Tools Needed



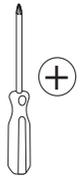
Wire Strippers



Flat Head Screwdriver



#1 Phillips Screwdriver



#2 Phillips Screwdriver

Product Legend



Male Barrel Connector T-MBC



Female Barrel Connector T-FBC



EZ Connector L-8MM-EZ



Factory installed Male Plug

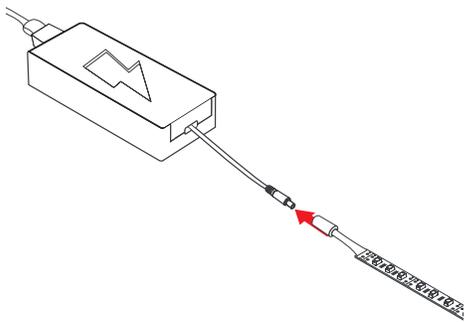


Factory installed Female Plug

Step 1. Pre-Installation Testing

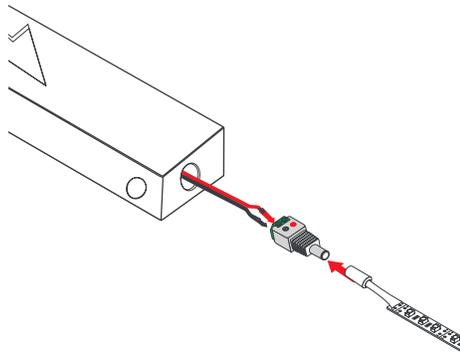
1. Completely unroll the LED Tape Light from the reel.

Plug-In Power Supply

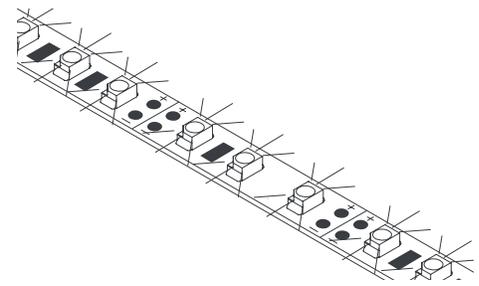


2. **Plug-in Power Supply** – insert the Male Cable Plug on the Power Supply into the Female Connector on the end of the LED Tape Light.

Hardwired Power Supply



2. **Hardwired Power Supply** – Using Red/Black Connection wire, connect a Male Barrel Connector (T-MBC) to the 12V DC output of the Power Supply. Insert T-MBC into the Female Connector on the end of the LED Tape Light.

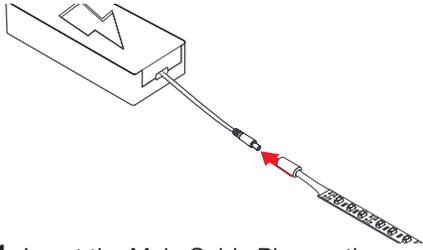


3. Turn on 120V AC power to the Power Supply. All LEDs should illuminate.

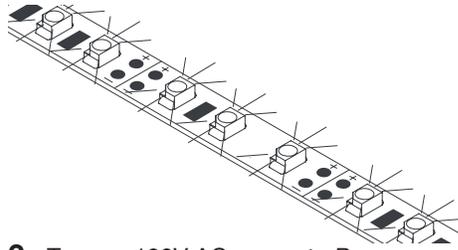
Step 2. Plug-In Power Supply to Tape Light

Provide receptacle for Plug-in Power Supply or use existing outlet behind the microwave, refrigerator, dishwasher, or under the sink. If using our in-line low voltage switches, sensors, or Wireless Control systems, see instructions packaged with the components.

Direct Connection – Plug-In Power Supply to Tape Light

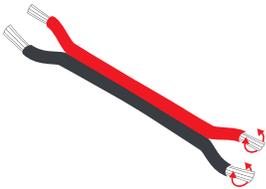


1. Insert the Male Cable Plug on the Power Supply into the Female Connector on the end of the LED Tape Light.

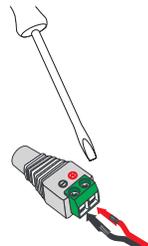


2. Turn on 120V AC power to Power Supply and switch lights on.

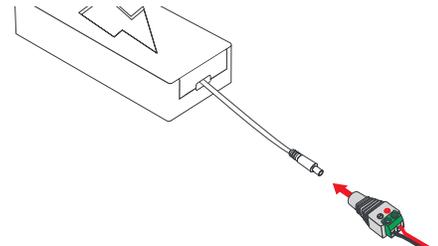
Remote Connection – Plug-In Power Supply to Tape Light



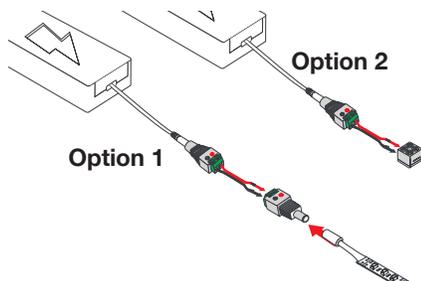
1. Cut length of wire to run from Power Supply to Tape Light location, strip 1/4" from both ends of wire, twist, and fold stripped wire section in half.



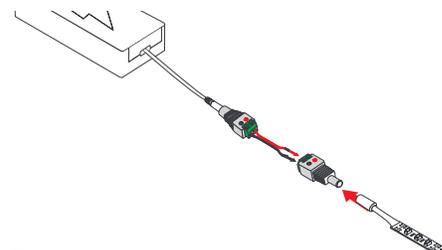
2. Use Flat blade screwdriver to loosen screws on Female Barrel Connector T-FBC. Insert one end of folded wires into the terminals of T-FBC, Red wire to (+), Black wire to (-), tighten screws.



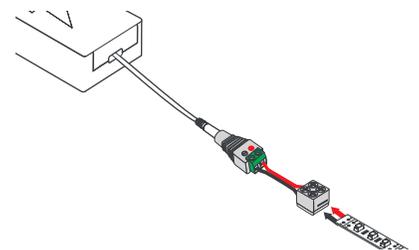
3. Insert Male Plug on Power Supply to Female Barrel Connector T-FBC.



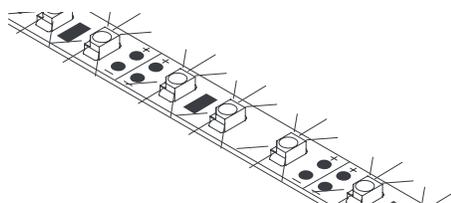
4. Connect the other end of stripped wires to LED Tape Light using **Option 1** or **Option 2** for connecting.



5. Option 1 – Using LED Tape Light Factory Installed Female Plug
Insert stripped wires into the terminals of a Male Barrel Connector T-MBC, Red wire to (+), Black wire to (-), tighten screws. Plug into Female Plug on end of the LED Tape Light.

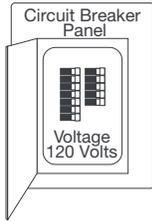


5. Option 2 – Using L-8MM-EZ Connectors Cut factory installed Female Plug off the end of the LED Tape Light. Use #1 Phillips to loosen the 4 terminal screws on 8MM-EZ Connector. Peel 1/2" of the adhesive protector from back of LED Tape Light, insert into connector, evenly tighten screws. Insert wires from T-FBC into terminals, Red wire to (+) side of tape, Black wire to (-) side of tape; tighten screws. Check all connections for wire polarity – Red wire to (+), Black wire to (-).

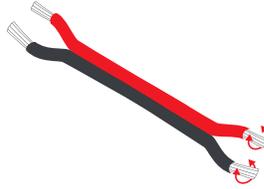


6. Turn on 120V AC power to Power Supply and switch lights on.

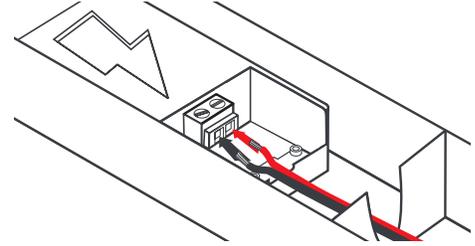
Connecting Hardwired Power Supply to Tape Light



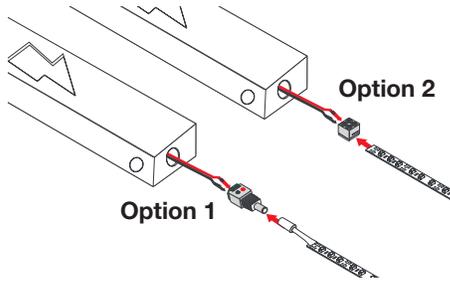
1. Turn off 120V AC power at Circuit Breaker Panel.



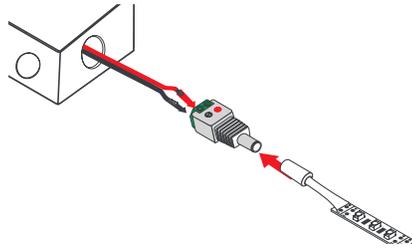
2. Cut length of wire to run from Power Supply to Tape Light location, strip 1/4" from both ends of wire, twist, and fold stripped wire section in half.



3. Connect one end of the wire to the OUTPUT terminal block on the Power Supply, Red wire to (+), Black wire to (-).

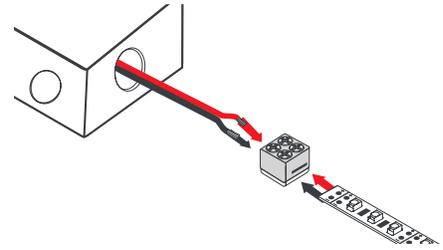


4. Connect the other end of stripped wires to LED Tape Light using **Option 1** or **Option 2** for connecting.



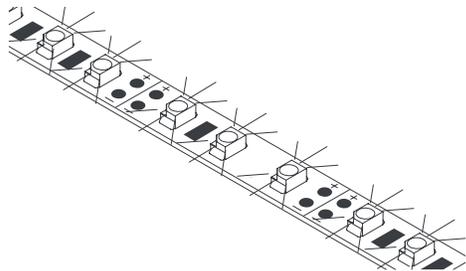
5. Option 1 – Using LED Tape Light Factory Installed Female Plug

Insert stripped wires into the terminals of a Male Barrel Connector T-MBC, Red wire to (+), Black wire to (-), tighten screws. Plug into Female Plug on end of the LED Tape Light.



5. Option 2 – Using L-8MM-EZ Connectors

Cut factory installed Female Plug off the end of the LED Tape Light. Use #1 Phillips to loosen the 4 terminal screws on 8MM-EZ Connector. Peel 1/2" of the adhesive protector from back of LED Tape Light, insert into connector, evenly tighten screws. Insert wires into terminals, Red wire to (+) side of tape, Black wire to (-) side of tape; tighten screws. Check all connections for wire polarity – Red wire to (+), Black wire to (-).



6. Turn on 120V AC power to Power Supply and switch lights on.



T-12W-12V-PI



T-24W-12V-PI



T-36W-12V-PI



T-60W-12V-PI



T-96W-12V-PI



T-120W-12V-PI

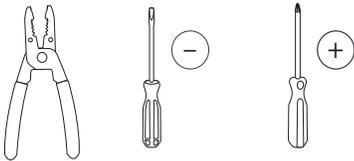
Power Supplies – Constant Voltage

Part Number	Description and Use	Dimensions
T-12W-12V-PI	12W AC/DC 2 prong plug-in, 12V DC 1 amp	2-15/16" x 1-3/16" x 1-13/16"
T-24W-12V-PI	24W AC/DC 2 prong plug-in, 12V DC 2 amp	3-11/16" x 1-7/8" x 1-5/16"
T-36W-12V-PI	36W AC/DC 2 prong plug-in, 12V DC 3 amp	3-3/4" x 2" x 1-5/16"
T-60W-12V-PI	60W AC/DC 2 prong plug-in, 12V DC 5 amp	5-1/8" x 2-1/16" x 1-1/4"
T-96W-12V-PI	96W AC/DC 3 prong plug-in, 12V DC 10 amp	5-1/2" x 2-3/8" x 1-3/8"
T-120W-12V-PI	120W AC/DC 3 prong plug-in, 12V DC 10 amp	6-3/8" x 2-11/16" x 1-1/4"

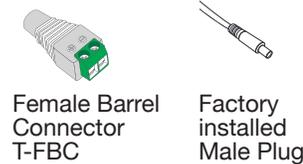
NOTE

- **DO NOT** connect low-voltage LED tape light to high-voltage power.
- Power Supply **cannot be dimmed** on the 120V AC side.
- For wireless switching, use low voltage controls on the 12V DC controls on the Power Supply (see pages 24-45)
- Install in an accessible, well-ventilated area such as sink base or on top of cabinet. For best operation, do not locate in an attic or other area of high ambient temperature.

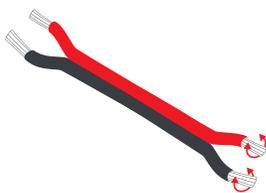
Tools Needed



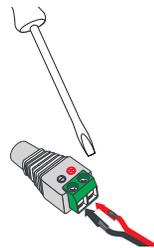
Product Legend



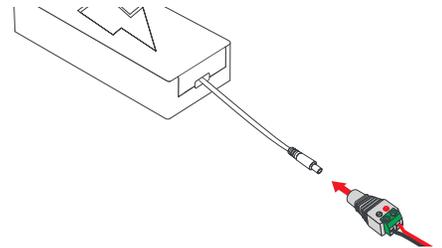
Connecting Plug-In Power Supply



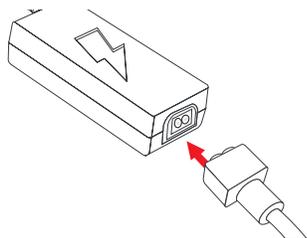
1. Cut length of wire to run from Power Supply to the installation location of the LED Tape Light. Strip 1/4" from both ends of wire, twist, and fold stripped wire section in half.



2. Use Flat blade screwdriver to loosen screws on Female Barrel Connector T-FBC, included with Power Supply. Insert one end of folded wires into the terminals of T-FBC, Red wire to (+), Black wire to (-), tighten screws.



3. Insert Male Plug on Power Supply into Female Barrel Connector. If using T-12W-12V-PI, T-24W-12V-PI, or T-36W-12V-PI, plug into a switched 120V AC outlet. Use a standard 120V AC on/off switch to control the outlet. Proceed to Step 4 if using a 60W or larger Plug-In Power Supply.



4. Insert the Plug on the Power Cord into Power Supply and plug into a switched 120V AC outlet. Use a standard 120V AC on/off switch to control the outlet.



T-60W-12-WP-HW



T-150W-12-WP-HW

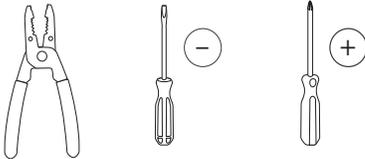
Power Supplies – IP67 rated Waterproof

Part Number	Description and Use	Dimensions
T-60W-12-WP-HW	60W 12V – IP67 rated waterproof LED hardwired	6-1/2" x 1-5/8" x 1-1/4"
T-150W-12-WP-HW	150W 12V – IP67 rated waterproof LED hardwired	7-3/8" x 2-3/8" x 1-1/2"

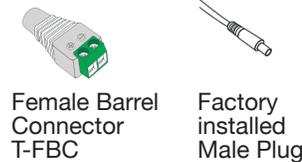
NOTE

- **DO NOT** connect low-voltage LED tape light to high-voltage power.
- Install in accordance with NEC and local regulations.
- Make all 120V AC connections inside UL Listed junction box
- Power Supply **cannot be dimmed** on the 120V AC side.
- For wireless switching, use low voltage controls on the 12V DC controls on the Power Supply (see pages 24-45)
- Install in an accessible, well-ventilated area such as sink base or on top of cabinet. For best operation, do not locate in an attic or other area of high ambient temperature.

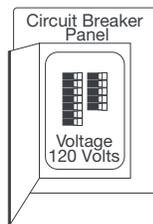
Tools Needed



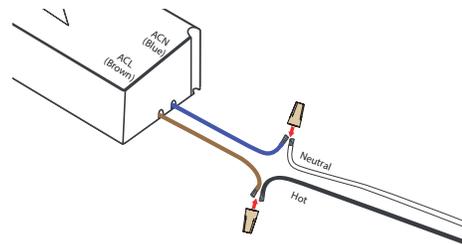
Product Legend



Wiring 120V AC side of Hardwired Waterproof Power Supply

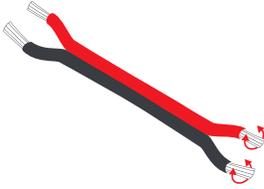


1. Turn off 120V AC power at Circuit Breaker Panel.

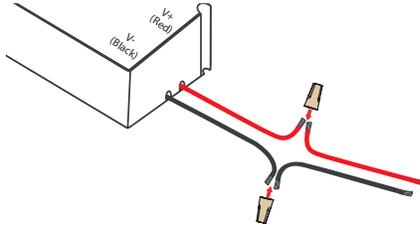


2. Using wire nuts, connect 120V AC wires to Power Supply. Hot to BROWN wire, Neutral to BLUE wire.
NOTE: Power Supply is IP67 rated waterproof, connections are not. Wire nuts or connection need sealed from water if placed in wet location.

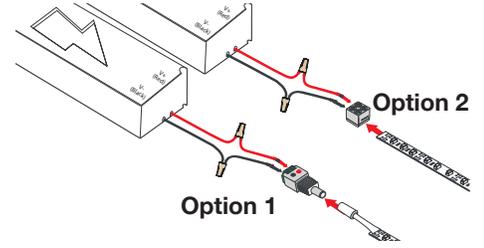
Wiring 12V DC side of Hardwired Waterproof Power Supply



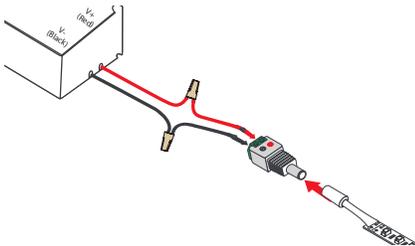
1. Cut length of wire to run from Power Supply to the installation location of the LED Tape Light. Strip 1/4" from both ends of wire, twist, and fold stripped wire section in half.



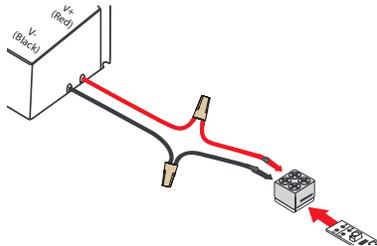
2. On the OUTPUT side of Power Supply, use wire nuts to connect Red wire to (V+) Red, Black wire to (V-) Black.



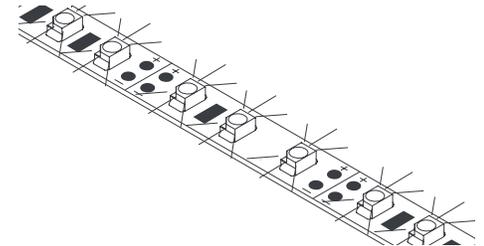
3. Connect the other end of stripped wires to LED Tape Light using one of the illumLED Connectors, Red wire to (+), Black wire to (-). See **Option 1** or **Option 2** for connecting.



4. Option 1 – Using LED Tape Light Factory Installed Female Plug
Insert stripped wires into the terminals of a Male Barrel Connector T-MBC, Red wire to (+), Black wire to (-), tighten screws. Plug into Female Plug on end of the LED Tape Light.

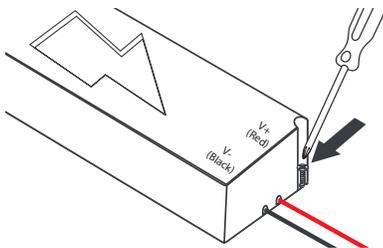


4. Option 2 – Using L-8MM-EZ Connectors Cut factory installed Female Plug off the end of the LED Tape Light. Use #1 Phillips to loosen the 4 terminal screws on 8MM-EZ Connector. Peel 1/2" of the adhesive protector from back of LED Tape Light, insert into connector, evenly tighten screws. Insert wires into terminals, Red wire to (+) side of tape, Black wire to (-) side of tape; tighten screws. Check all connections for wire polarity – Red wire to (+), Black wire to (-).



5. Turn on 120V AC power to Power Supply and switch lights on.

Mounting Hardwired Waterproof Power Supply



1. Position junction box in place and use two screws to secure to mounting surface.



T-DT24W-12V-HW



T-DT48W-12V-HW



T-DT60W-12V-HW



T-DT120W-12V-HW

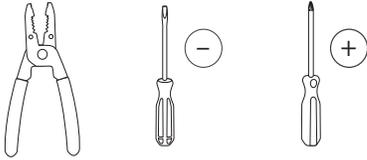
Power Supplies – Dimmable –for single color tape light

Part Number	Description and Use	Dimensions
T-DT24W-12V-HW	24W 12V DC dimmable class 2 LED hardwired	13-3/4" x 3" x 1-5/8"
T-DT48W-12V-HW	48W 12V DC dimmable class 2 LED hardwired	13-3/4" x 3" x 1-5/8"
T-DT60W-12V-HW	60W 12V DC dimmable class 2 LED hardwired	13-3/4" x 3" x 1-5/8"
T-DT120W-12V-HW	120W 12V DC dimmable LED hardwired	15" x 3-1/8" x 2-1/2"

NOTE

- **DO NOT** connect low-voltage LED tape light to high-voltage power.
- Install in accordance with NEC and local regulations.
- Make all 120V AC connections inside UL Listed junction box
- Compatible with 120V magnetic low voltage dimmer switch
- NOT Compatible with the following dimmers, switches, or sensors: T-Q-1Z-WC-RF, T-Q-2Z-WC-RF, T-Q-4Z-WC-RF, T-1Z-MR-RF, T-PSS-60W-IR, T-DSS-30W-IR, T-TDS-60W, and T-MSS-60W
- NOT Compatible with RGB Inferno Series Multi-Color LED Tape Light
- Install in an accessible, well-ventilated area such as sink base or on top of cabinet. For best operation, do not locate in an attic or other area of high ambient temperature.

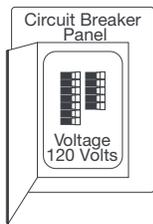
Tools Needed



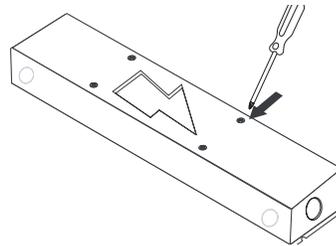
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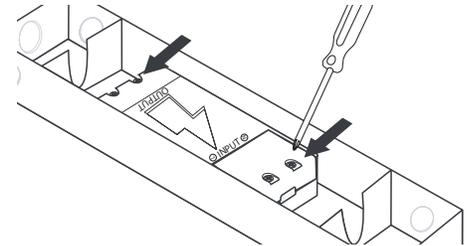
Wiring 120V AC side of Hardwired Dimmable Power Supply



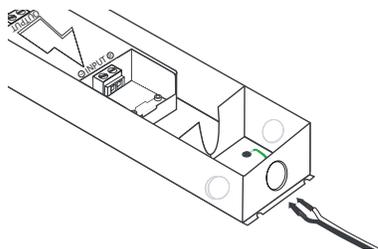
1. Turn off 120V AC power at Circuit Breaker Panel.



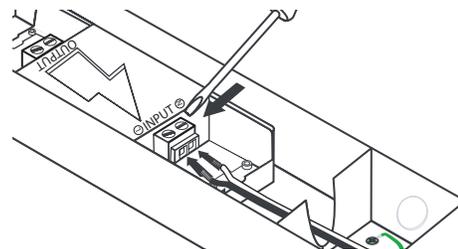
2. Use a screwdriver to remove Power Supply junction box lid. Knock out one of the openings to the junction box.



3. Remove screws from Power Supply wire port covers; remove covers.

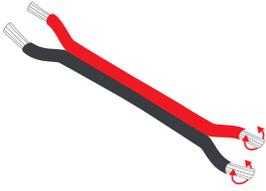


4. Thread 120V AC wire into junction box through knock out. (Terminals on the 120V AC side will accept up to 12AWG solid-core copper wire.)

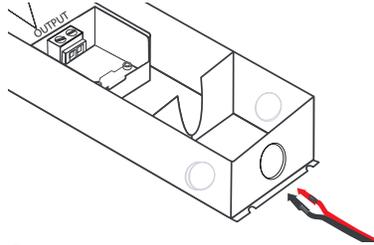


5. Loosen screws on the INPUT side of Power Supply. Insert Black wire to terminal (L), White wire to terminal (N), Green wire to grounding stud. Tighten screws.

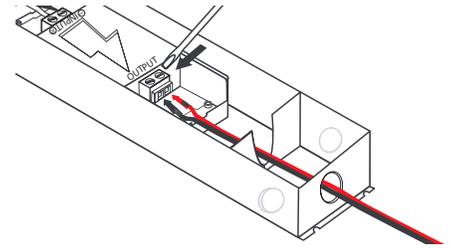
Wiring 12V DC side of Hardwired Dimmable Power Supply



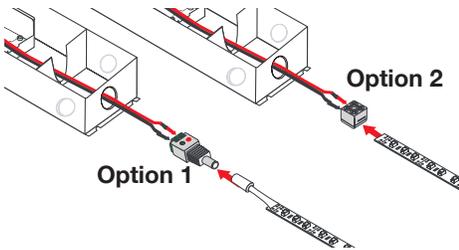
1. Cut length of wire to run from Power Supply to the installation location of the LED Tape Light. Strip 1/4" from both ends of wire, twist, and fold stripped wire section in half.



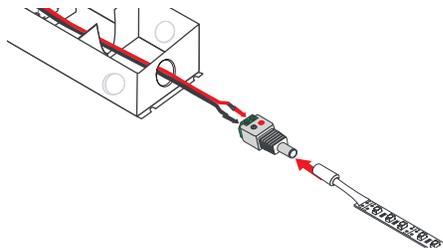
2. Knock out one of the openings on the **Output** side of the junction box. Thread connection wires through knock out.



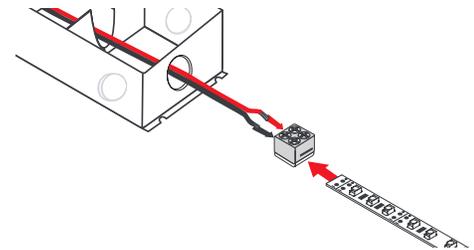
3. On the **Output** side of Power Supply, insert Red wire into terminal (V+) Red, Black wire to (V-) Black; tighten screws.



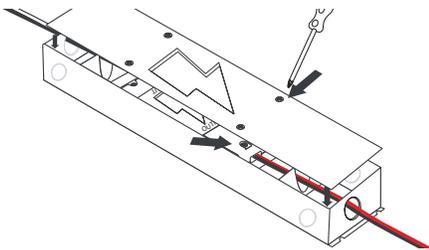
4. Connect the other end of stripped wires to LED Tape Light using one of the illumLED Connectors, Red wire to (+), Black wire to (-). See **Option 1** or **Option 2** for connecting.



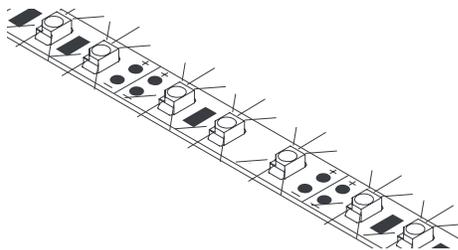
5. Option 1 – Using LED Tape Light Factory Installed Female Plug Insert stripped wires into the terminals of a Male Barrel Connector T-MBC, Red wire to (+), Black wire to (-), tighten screws. Plug into Female Plug on end of the LED Tape Light.



5. Option 2 – Using L-8MM-EZ Connectors Cut factory installed Female Plug off the end of the LED Tape Light. Use #1 Phillips to loosen the 4 terminal screws on 8MM-EZ Connector. Peel 1/2" of the adhesive protector from back of LED Tape Light, insert into connector, evenly tighten screws. Insert wires into terminals, Red wire to (+) side of tape, Black wire to (-) side of tape; tighten screws. Check all connections for wire polarity – Red wire to (+), Black wire to (-).

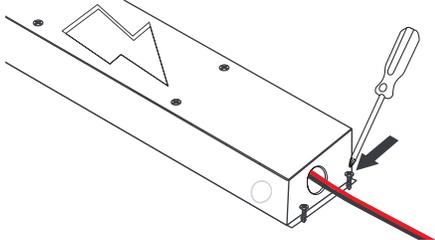


6. Position port covers back in place and tighten screws. Replace lid on junction box and tighten the 4 screws.



7. Turn on 120V AC power to Power Supply and switch lights on.

Mounting Hardwired Dimmable Power Supply



1. Position junction box in place and use screws to secure to mounting surface.