PURE EDGE LIGHTING

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Installation Instructions for **Micro Track Recessed 48V Single Circuit** MTR48-1C-__

GENERAL INFORMATION

- Maximum linkable wattage per Loop: 48VDC systems, 96W
- Maximum track length per loop up to 40ft for 96W/100W systems.
- Power Supply and Dimming: 48V Power Supply & Class 2 Wiring (ELV, Triac, 0-10V)
- Tracks can be linked continuously without limitation up to 40ft before re-feeding. Sections can be individually controlled, allowing for flexible lighting layouts.
- Minimum loop voltage: Must maintain ≥45VDC at the end of each loop. Voltage below 45VDC may result in abnormal operation.
- Power buffer recommendation: Reserve - 20% buffer for linear modules & 25% buffer for other module types.
- Use only Pure Edge Lighting power supplies to avoid flickering, unstable dimming, noise or module failure and void warranty.
- When using multiple power supplies, use non-conductive connectors to separate each circuit.
- Voltage testing before installation: Measure output voltage from MT48-1C-EP with the power supply connected and confirm the reading is 48VDC. Then measure the voltage at the end of the circuit and to confirm no voltage drop.

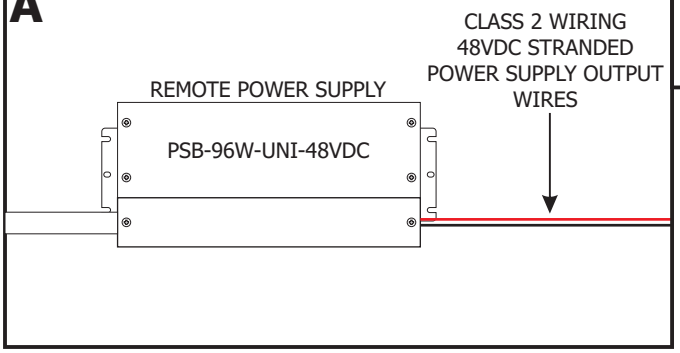
IMPORTANT INFORMATION

- This product must be installed by a qualified electrician and in accordance with local electrical codes.
- Before beginning any electrical work, ensure that power is turned **OFF.**
- **DO NOT** install any luminaire assembly close to any curtain or similar combustible material.
- This instruction shows a typical installation.

SAVE THESE INSTRUCTIONS!

Section One: Install the Remote Power Supply

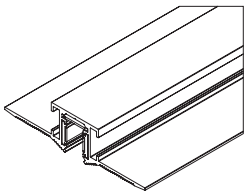
A



1: Remote power supplies must be installed within 40ft of the junction box. Refer to the instructions and wiring diagram provided with the remote power supplies.

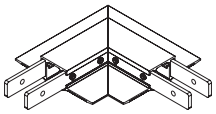
Section Two: Components

B



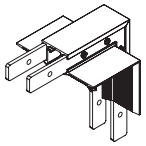
MICRO TRACK RECESSED 48V CHANNEL SINGLE CIRCUIT

MTR48-1C-4FT-BK 8FT MW



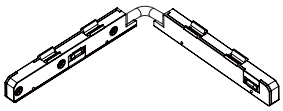
L-SHAPED CONNECTOR

MTR48-1C-LC- BK LNC MW



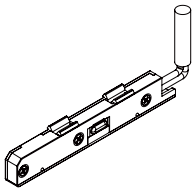
VERTICAL CONNECTOR

MTR48-1C-VC- BK VNC MW



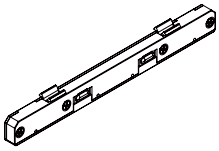
FLEX CONNECTOR

MT48-1C-FXC-BK MW



END POWER FEED

MT48-1C-EP-BK MW

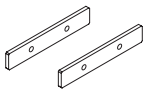


STRAIGHT CONNECTOR

MT48-1C-SC- BK SNC MW

SINGLE CIRCUIT END CAP

MT48-1C-CA-BK MW



REINFORCEMENT JOINERS

MT48-J2

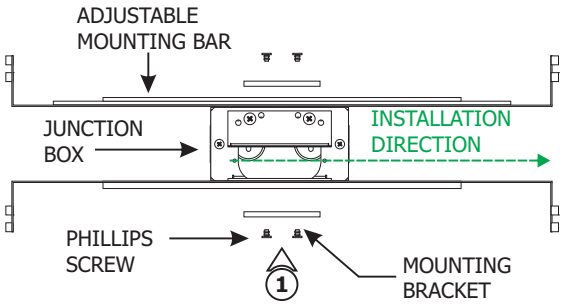
OPAQUE SLOT COVER

MT48-SCO-4FT-BK 8FT MW

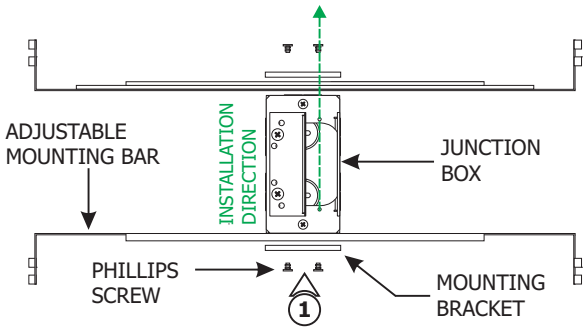
Section Three: Install the Junction Box

C

HORIZONTAL ORIENTATION

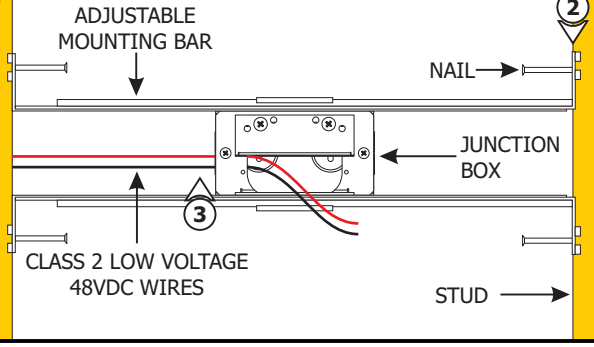


VERTICAL ORIENTATION



1: Mount each adjustable mounting bar to one side of the junction box and secure them with the mounting brackets and two Phillips screws provided.

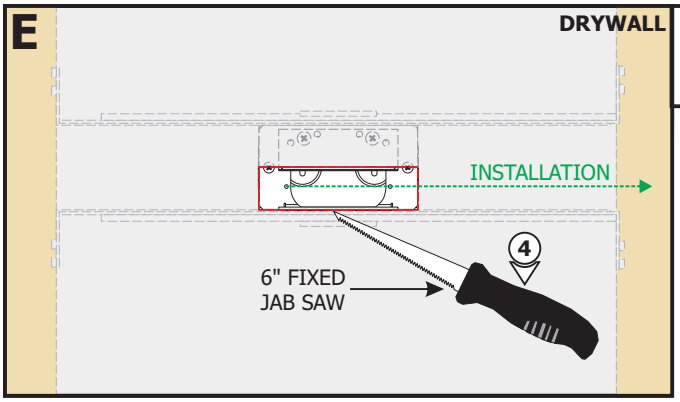
D



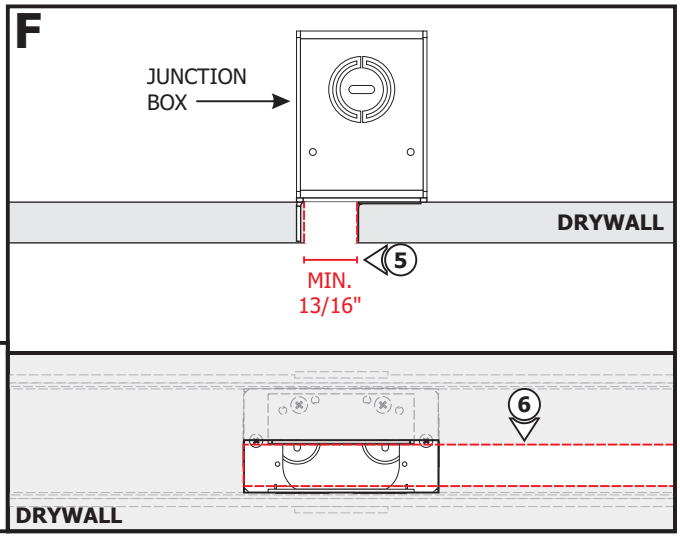
NOTE: The adjustable mounting bars mount to studs that are spaced 15" to 24" apart. If the span needs to be shorter than 15", then break the bar arms from dedicated lines.

2: Place the adjustable mounting bar tabs between the studs. Secure the adjustable bars to the studs using screws or use a hammer to pound the nails.

3: Run the 48VDC low voltage wires coming from the power supply to the junction box. Only install conduit if required by local electrical codes.

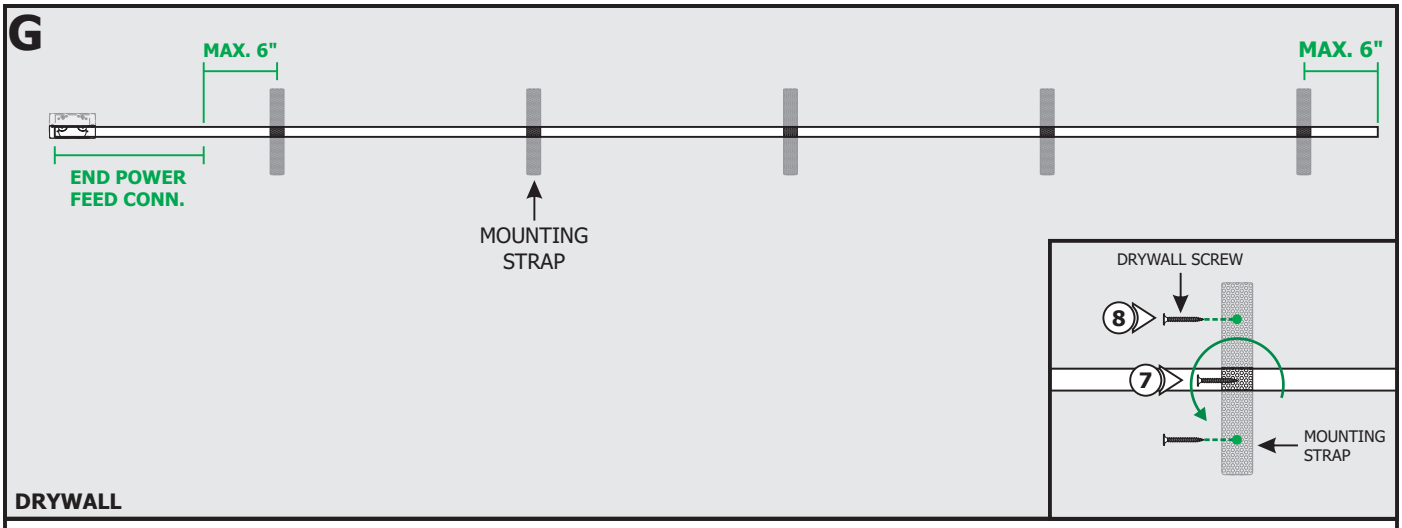


4: Cut a section of drywall using a 6" fixed jab saw or other appropriate tool to expose the mounting plate area. Install the drywall.



5: Mark and cut out the area where the installation will be located using the junction box opening as a guide (**MIN. 13/16"**).

6: Cut out the marked area using a "Dremel Multi-Max" or a 6" Fixed Jab Saw.



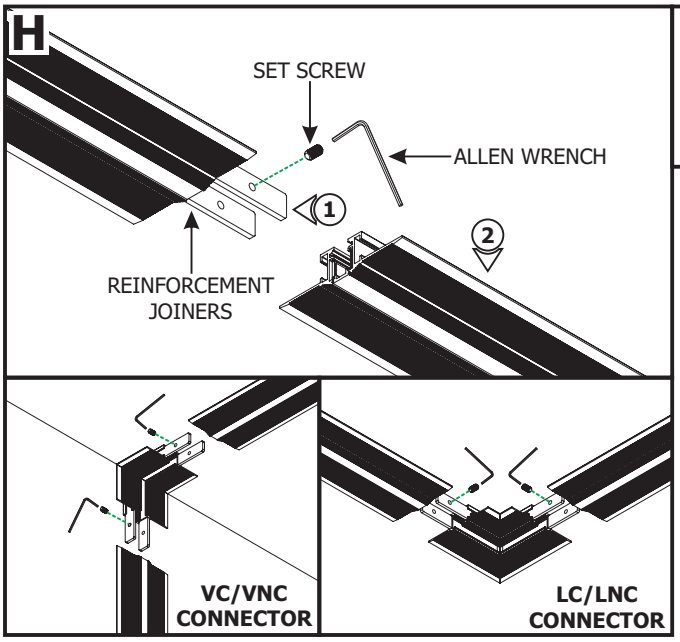
NOTE: To install channel in a wall without standard-spaced studs, install perforated mounting straps spaced evenly behind drywall. **Mounting straps must be placed maximum 6" from both ends of the track and evenly spaced along the fixture.**

NOTE: For areas with lots of vibrations, it is suggest to install 2X4 support braces (spaced evenly) before installing and finishing drywall to avoid cracking of plaster.

7: Thread a drywall screw into the perforated material. Place the mounting strap behind the drywall and rotate into place using the drywall screw.

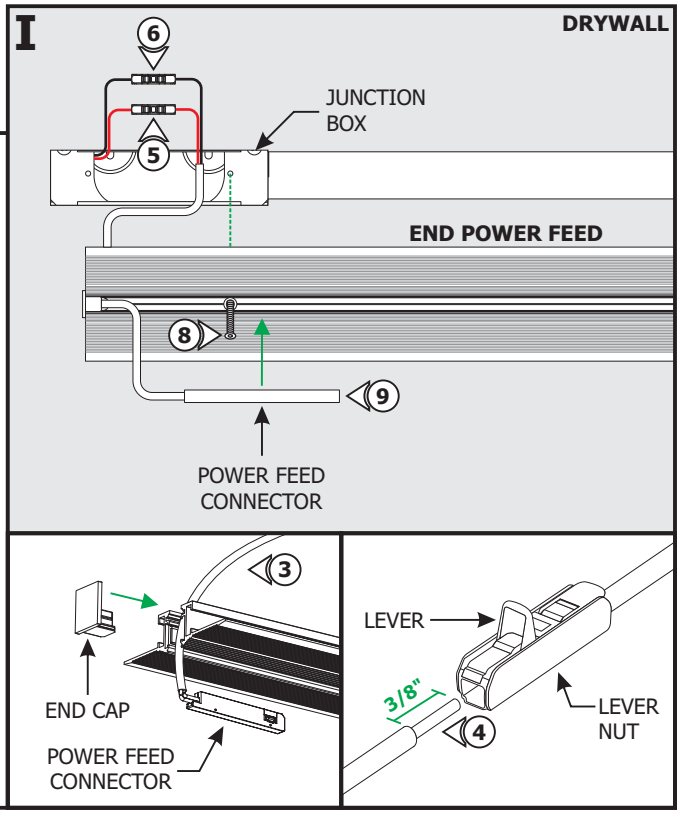
8: Secure the mounting strap to the drywall using two drywall screws. Mark the location of the mounting strap on the drywall.

Section Four: Connecting Sections



1: Insert the joiner halfway into the track. Tighten the two set screws on each joiner using an Allen wrench.

2: Slide the other section of track over the joiners and tighten the remaining set screws.



NOTE: End Power Feed shown for demonstration purposes.

3: Feed the Power Feed Connector cable through the notch on the End Power Feed. Push the end cap into the track.

4: Strip 3/8" off of the low voltage power supply wires, and the Power Feed Connector wires.

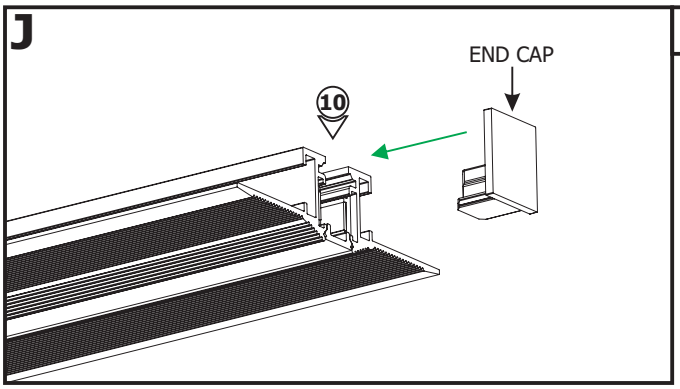
5: Pull up the levers of one lever nut and insert the red Power Feed Connector wire and the + power supply wire. Push the levers down to connect and lock into place.

6: Pull up the levers of the other lever nut and insert the black Power Feed Connector wire and the - power supply wire. Push the levers down to connect and lock into place.

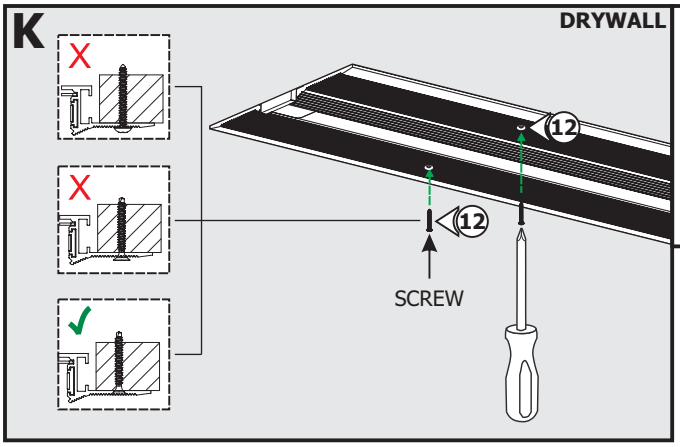
7: Lightly tug on the wires to ensure they are secured in place. Place all connections inside the junction box.

8: Secure the End Power Feed to the junction box using the supplied screw.

9: Place the Power Feed Connector inside the track.



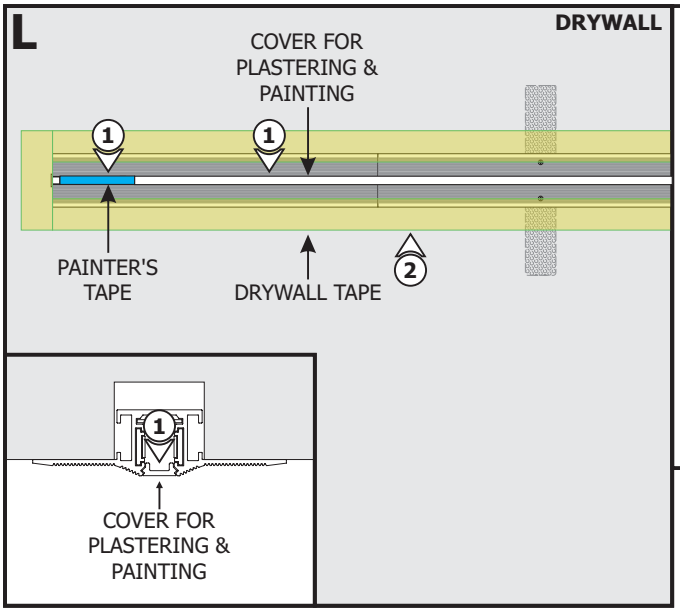
10: Install the end cap at the other end of the track.



11: Place the assembled track in the cutout area on the wall. Ensure the fixture is straight.

12: Using the marked mounting strap locations, carefully make holes on the track using a square drill and counter sink bit. Properly secure the track to the wall using drywall screws (**DO NOT over tighten**). Ensure all screw heads are flush with the track surface.

Section Five: Plastering & Painting



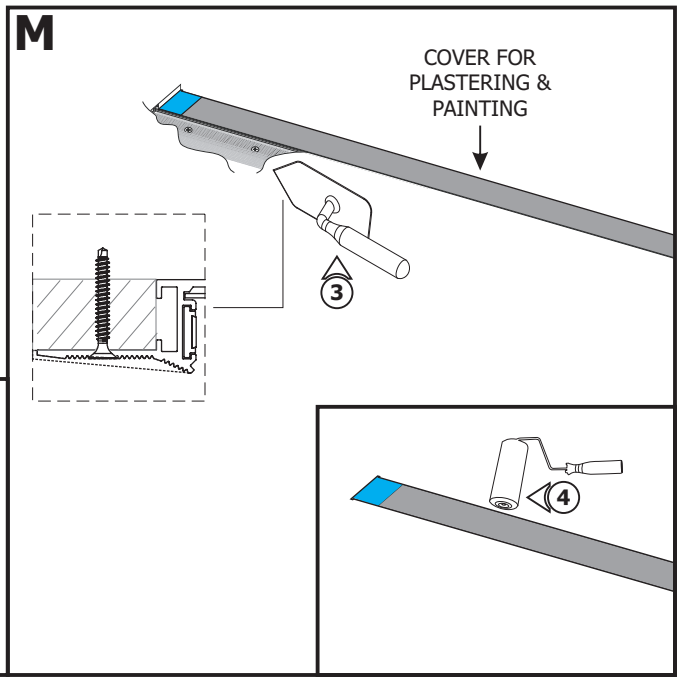
NOTE: Two covers are provided. Use one cover for plastering and painting. Use the second cover for the final installation.

NOTE: For areas with lots of vibrations, it is suggested to use Durabond to avoid cracking of plaster.

NOTE: Do Not use premixed joint compound "Soft Mud". No use compuesto para juntas premezclado "Soft Mud".

1: Install the cover for plastering and painting onto the track. Use painter's tape to cover any end caps and connectors.

2: Must apply drywall tape (Ultra-Thin drywall tape suggested) along edges of the track to prevent cracking of plaster after installation. **DO NOT** overlap strips of drywall tape.



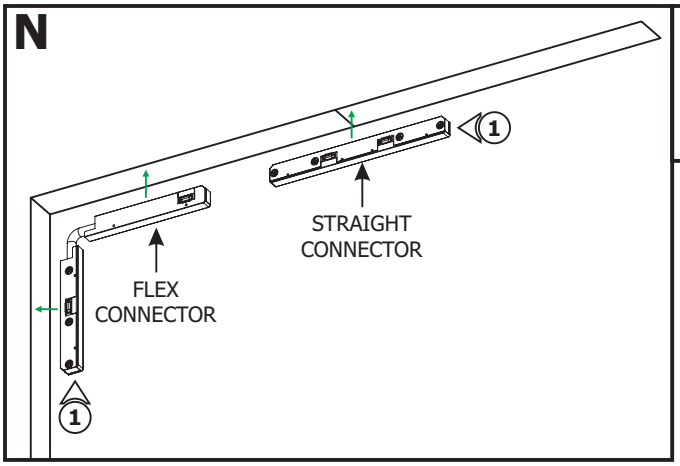
NOTE: Recommended plaster method: 1st Coat - Durabond 25 with 8" Blade, 2nd Coat - Easy Sand 45 with 10" Blade, 3rd Coat - skim coat with 12" blade. **Taper the plaster to blend with the surface.**

3: Use a compound knife for a smooth compound spread.

4: Sand, paint, and finish the plaster and drywall before removing the cover. Discard the cover and remove the painter's tape.

Section Six: Install the Connectors and Covers

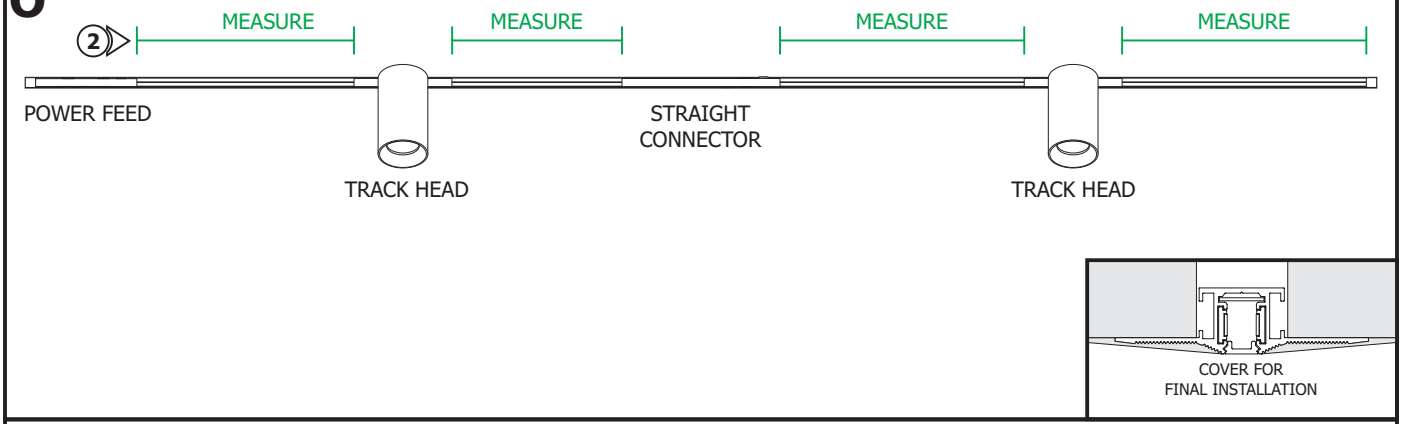
N



NOTE: Clean the inside of the track with alcohol before continuing.

1: Place the Straight Connector and Flex Connectors inside the track.

O

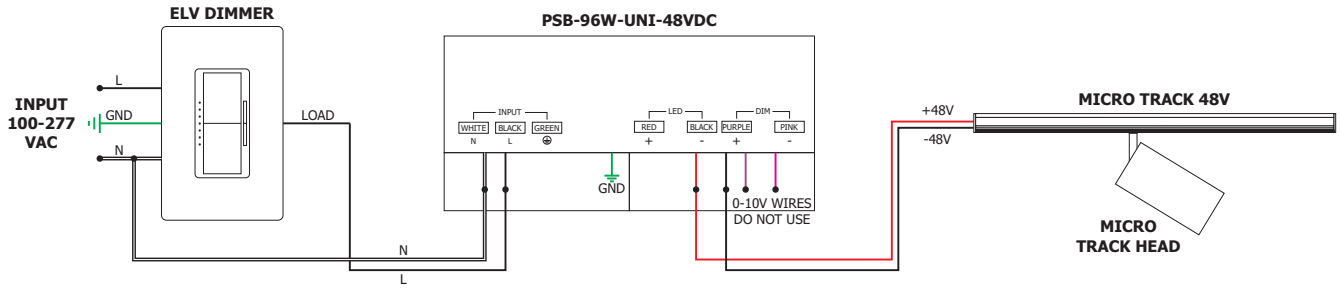


NOTE: Refer to the Assembly Guides provided with the Light Bars or Track Heads to install the fixtures.

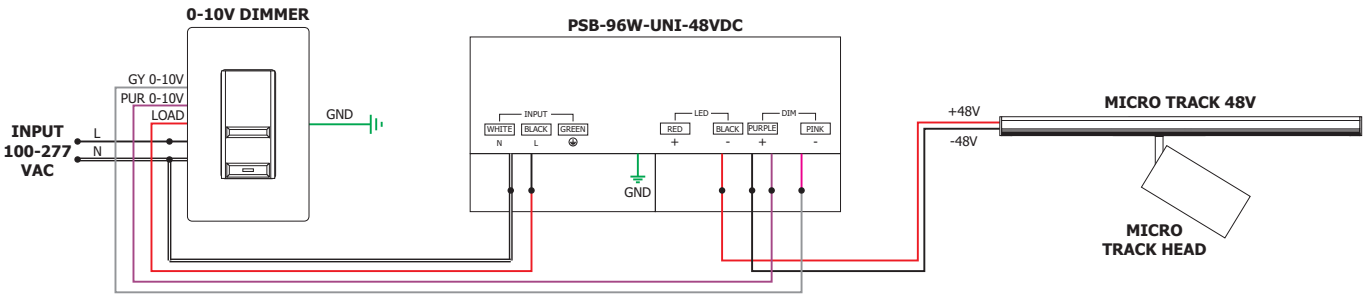
2: For a nice and uniform look, if desired, measure the distance among the track heads, light bars, and connectors or from the ends and cut the track cover to those lengths. Snap the second cover for the final installation inside the unused portions of the tracks.

General Wiring Diagram

ELV DIMMING



0-10V DIMMING



Section Seven: Calculate Cable Length