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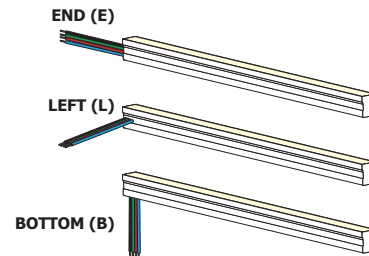
Installation Instructions for Flex Neon LRF5 24VDC Indoor Seamless, Tunable White

FN-LRF5-_____

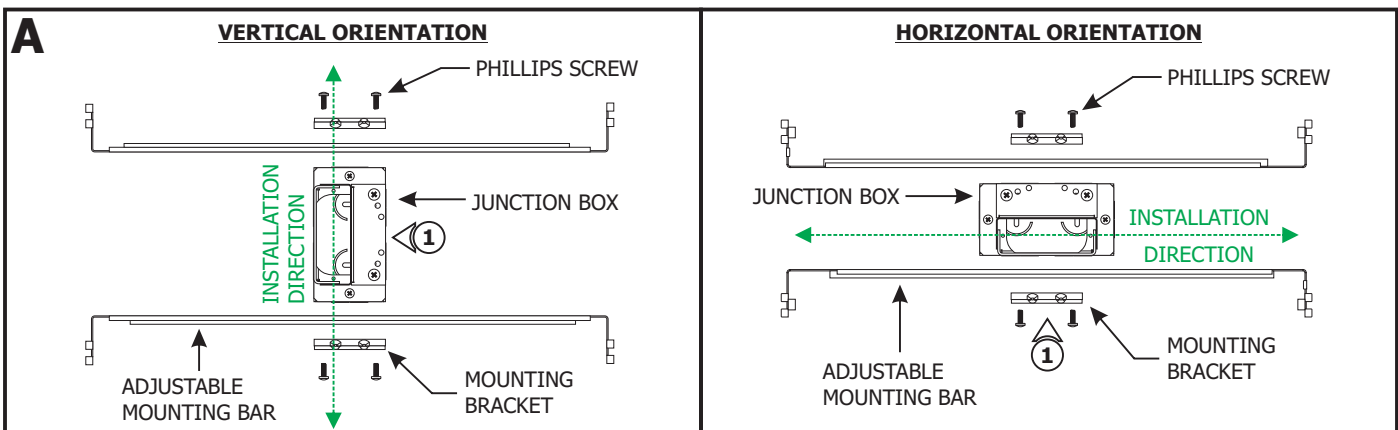
IMPORTANT INFORMATION

- This instruction shows a typical installation.
- The Seamless Flex Neon is rated for Indoor Damp Locations **ONLY** and uses class 2 bare wire connectors.
- This product bends right to left or left to right.
- This product must be installed by a qualified electrician and in accordance with local electrical codes.

SAVE THESE INSTRUCTIONS!

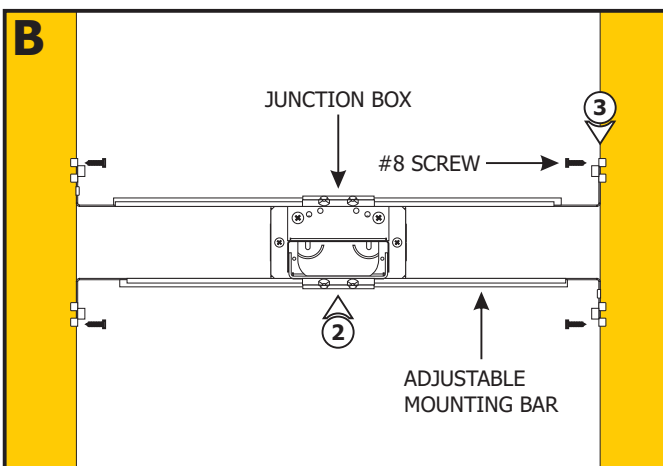


Section One: Install the 1" Rectangle Junction Box (Optional)



NOTE: Before beginning any electrical work, ensure that the power to the junction box is off.

- 1:** Mount each adjustable mounting bar to one side of the junction box (mounts to any side of the housing depending on the orientation of the fixture) and secure them with the mounting brackets and two Phillips screws provided.

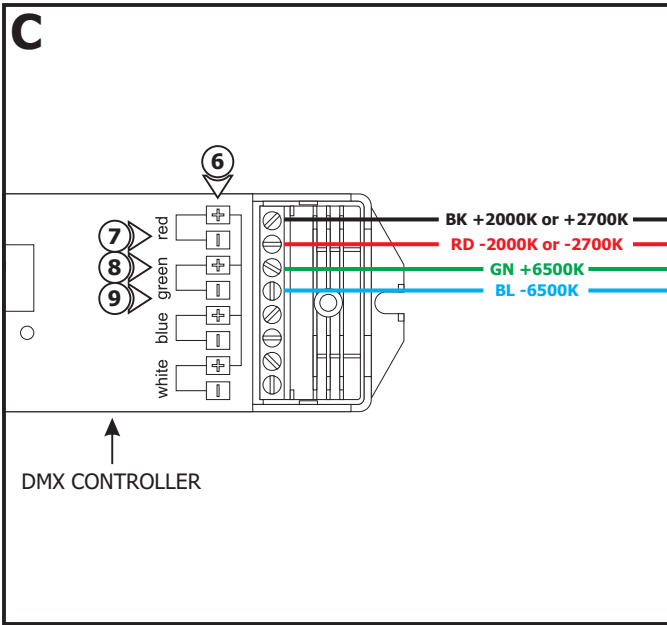


NOTE: The adjustable mounting bars mount to studs/joists that are spaced 15"-24" apart. If the span needs to be shorter than 15", then break the bar arms from dedicated lines.

NOTE: Ensure the opening of the junction box is aligned with the center of the desired fixture location. If necessary, adjust the junction box location by loosening the screws and sliding the junction box to the proper location. Tighten the Phillips screws after adjusting.

- 2:** Select the location between two studs/joists to mount the junction box.

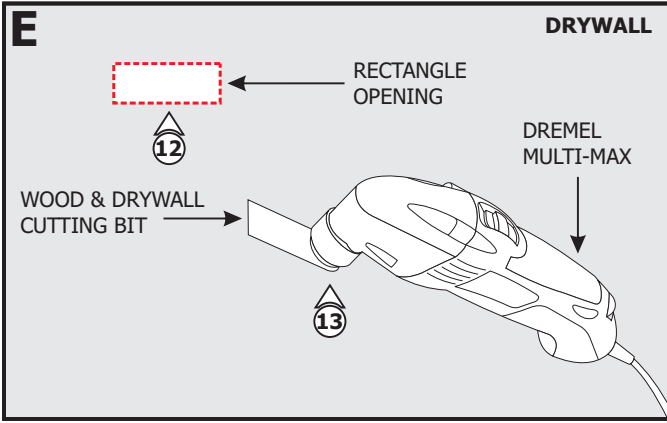
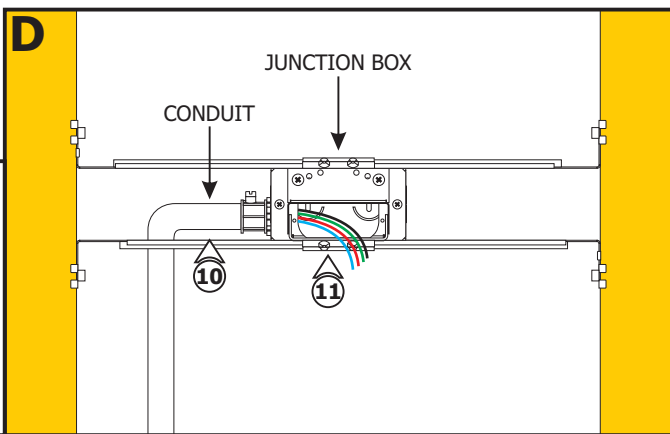
- 3:** Place the lips of the adjustable mounting bar tabs against the studs/joists. Secure the adjustable bars to the studs/joists with the #8 screws.



NOTE: Omit steps 4 through 9 if using two channel controls. Refer to wiring diagram on page 7.

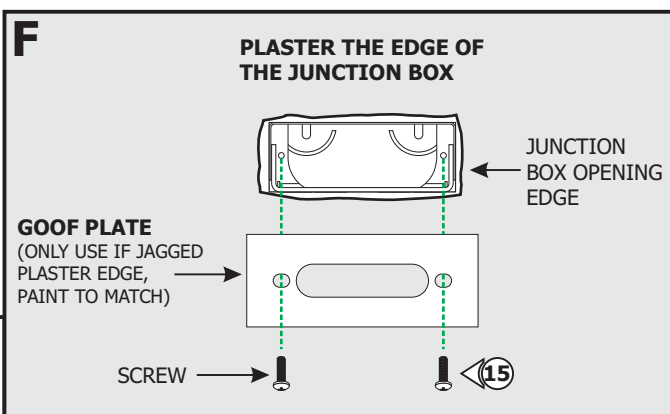
- 4: Use the "Low Voltage Wire Size Chart" on page 7 to determine proper wire size connecting to the DMX controller terminals.
- 5: Run the proper size black, green, red and blue wires from the power supply enclosure to the fixture.
- 6: Connect the black wire for +2000K or +2700K to the red "+" DMX terminal and tighten the screw.
- 7: Connect the red wire for -2000K or -2700K to the red "-" DMX terminal and tighten the screw.
- 8: Connect the green wire for +6500K to the green "+" DMX terminal and tighten the screw.
- 9: Connect the blue wire for -6500K to the green "-" DMX terminal and tighten the screw.

- 10: Remove a knockout to install a conduit into the junction box. Install conduit(s) (if required by local electrical code).
 - 11: Run the wires coming from the power supply to the junction box.
- NOTE:** Ensure remote power supply wires are present in the junction box. Refer to instructions provided with the power supply.

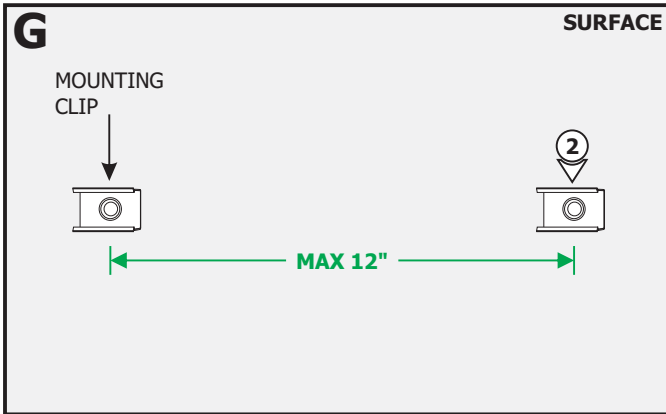


- 12: Mark a rectangle shape on the drywall where the junction box opening will be located depending on selected position.
- 13: Cut out the marked rectangle opening, using a "Dremel Multi-Max" with the "wood & drywall" cutting bit.
- 14: Install & finish drywall.

- 15: **Optional:** Use the Goof Plate if the junction box opening has imperfection/ jagged edges. Install the provided goof plate (paint to match prior) with the two screws.



Section Two: Install the Flex Neon



NOTE: If using 1RE Junction Box, the Flex Neon must pass through the center of the junction box.

NOTE: Omit this Section if using the Flexible Aluminum Channel. Refer to Section Three.

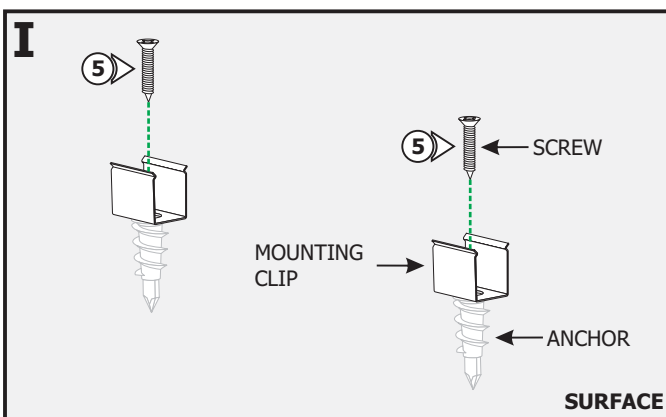
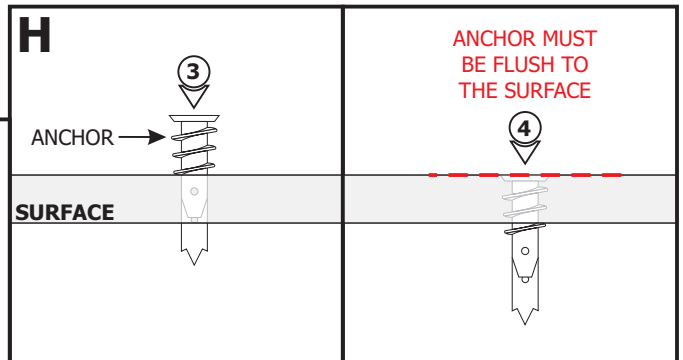
1: Determine the location for the Flex Neon.

2: Mark the location of the mounting clips. Mounting clips must be maximum 12" apart from each other (measure from the center of the mounting clip).

NOTE: Steps 3 and 4 are for drywall mounting. Omit these steps if mounting to a wood surface directly.

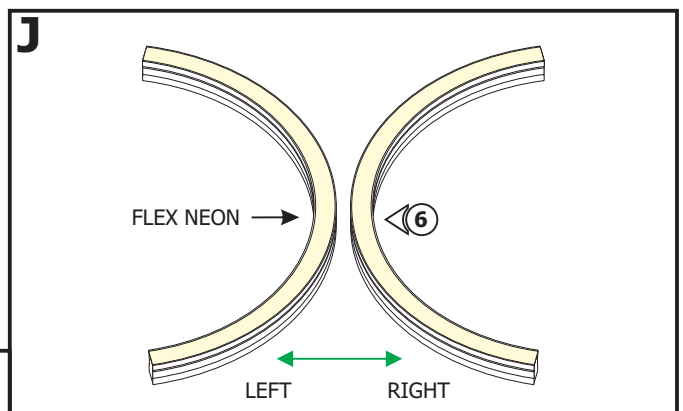
3: Tap the anchors onto the marked points up to the threaded portion with a hammer.

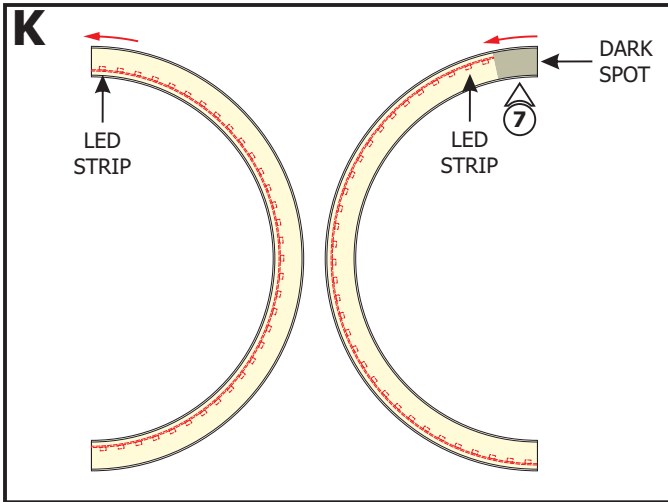
4: Screw in the threaded portion of the anchors with a Phillips screwdriver.



5: Line up the mounting clips to the anchors and secure it to the anchors by tightening the two #8-32 screws to each clip.

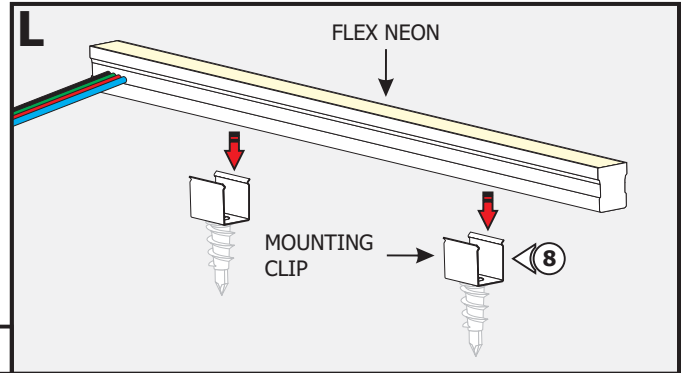
6: If necessary, bend the Flex Neon **ONLY** right to left or left to right.



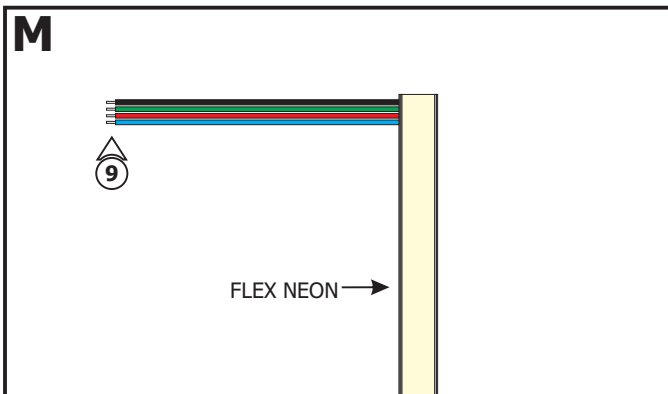


NOTE: The Flex Neon silicone channel is slightly longer than the LED Strip to accommodate the various turns.

7: Depending on the direction and angle of the bend, the LED Strip inside the silicone channel may pull in a bit.



8: Insert the Flex Neon into each mounting clip.



9: Strip the wire ends to connect to the power supply.

10: Follow the instructions provided with the power supply to power up the Flex Neon.

11: If using 1RE Junction box, place all wire nut connections inside the junction box.

Trim Excess Silicone:

12: Ensure that the first Flex Neon is properly installed and secured in place before cutting. Test the Flex Neon to check for a dark spot at the end of the fixture. Determine the length of silicone to remove. Mark the cut length on the silicone.

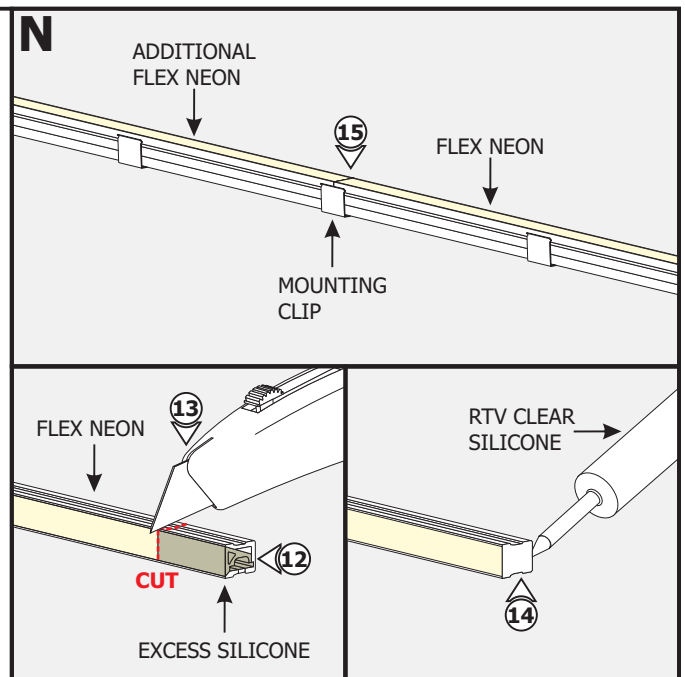
13: If necessary, using a utility knife carefully cut the excess silicone. **DO NOT CUT the LED Strip. Ensure the cut is straight as possible for a clean and seamless look.** Discard the excess silicone.

14: Apply RTV clear silicone to the end. Ensure the LED opening is covered.

Seamless Continuous Runs:

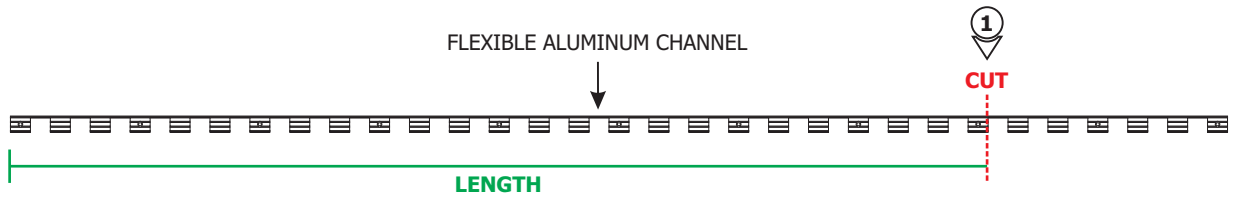
15: Place a second seamless Flex Neon at the end of the first Flex Neon. Ensure that a mounting clip is in the center where the fixtures meet together.

NOTE: Ensure that additional Flex Neon are properly supported and powered.



Section Three: Install the Flex Neon with Flexible Aluminum Channel

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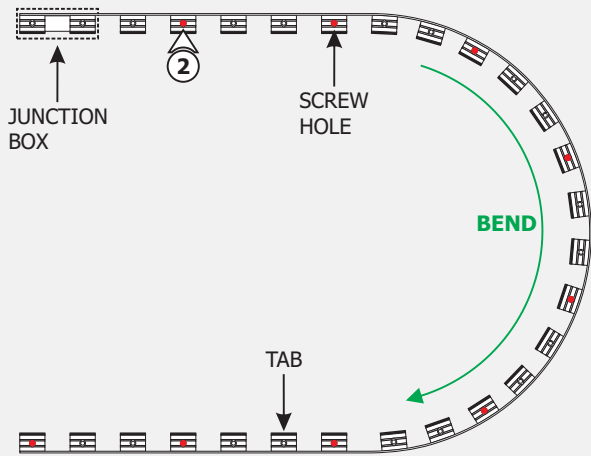


NOTE: Omit this section if using Left (L) Input/Output wire leads.

NOTE: Bottom (B) Input/Output is shown for demonstration purposes.

1: If necessary measure and cut the Flexible Aluminum Channel to length.

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NOTE: If using 1RE Junction Box, the channel must pass through the center of the junction box.

2: Determine the location of the Flexible Aluminum Channel and mark every fourth tab screw hole.

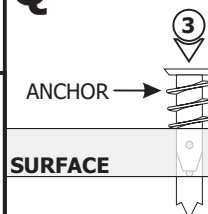
NOTE: The Flexible Aluminum Channel bends in both directions. For simple curves or circles, it is recommended to bend the channel toward the tabs.

NOTE: Steps 3 and 4 are for drywall mounting. Omit these steps if mounting to a wood surface directly.

3: Anchors are not provided. Tap the anchors onto the marked points up to the threaded portion with a hammer.

4: Screw in the threaded portion of the anchors with a Phillips screwdriver.

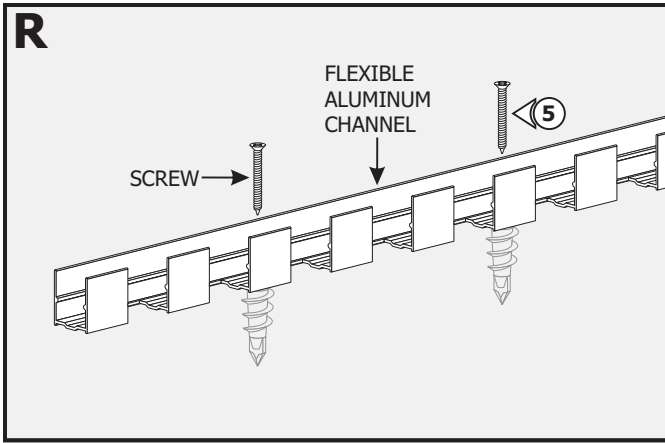
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ANCHOR MUST BE FLUSH TO THE SURFACE

SURFACE

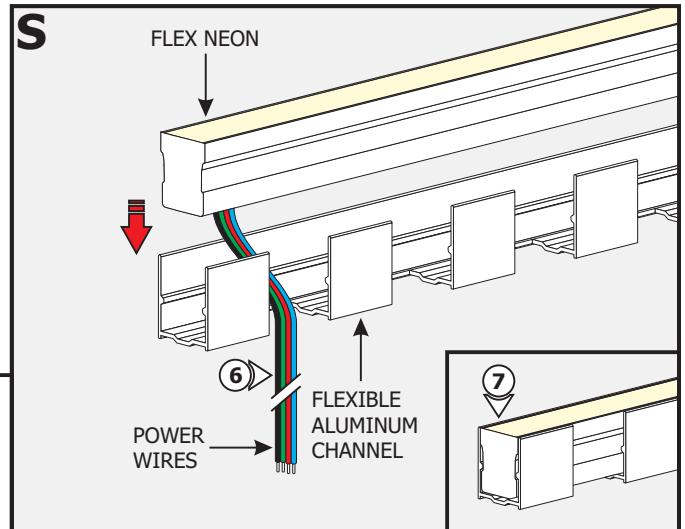
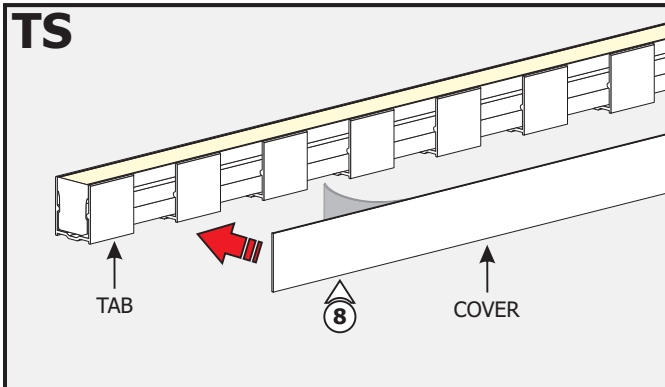


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5: Secure the Flexible Aluminum Channel to the anchors using screws.

6: Feed the power wires through the open space on the Flexible Aluminum Channel.

7: Carefully push the Flex Neon completely inside the Flexible Aluminum Channel.

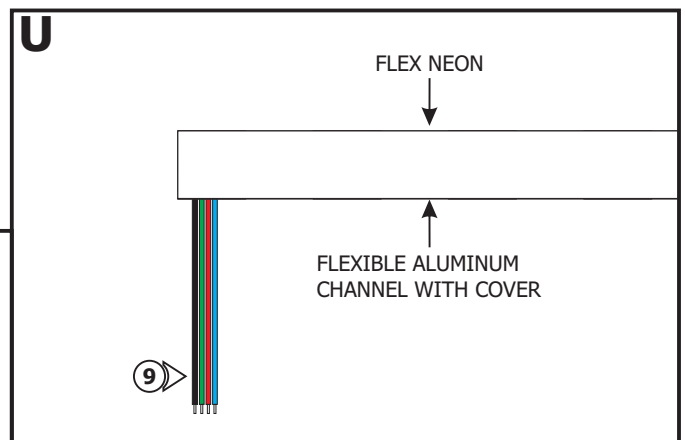
S**TS**

8: Remove the backing from the channel cover. Firmly press down on the Flexible Aluminum Channel tabs while removing the rest of the backing.

9: Strip the wire ends to connect to the power supply.

10: Follow the instructions provided with the power supply to power up the Flex Neon.

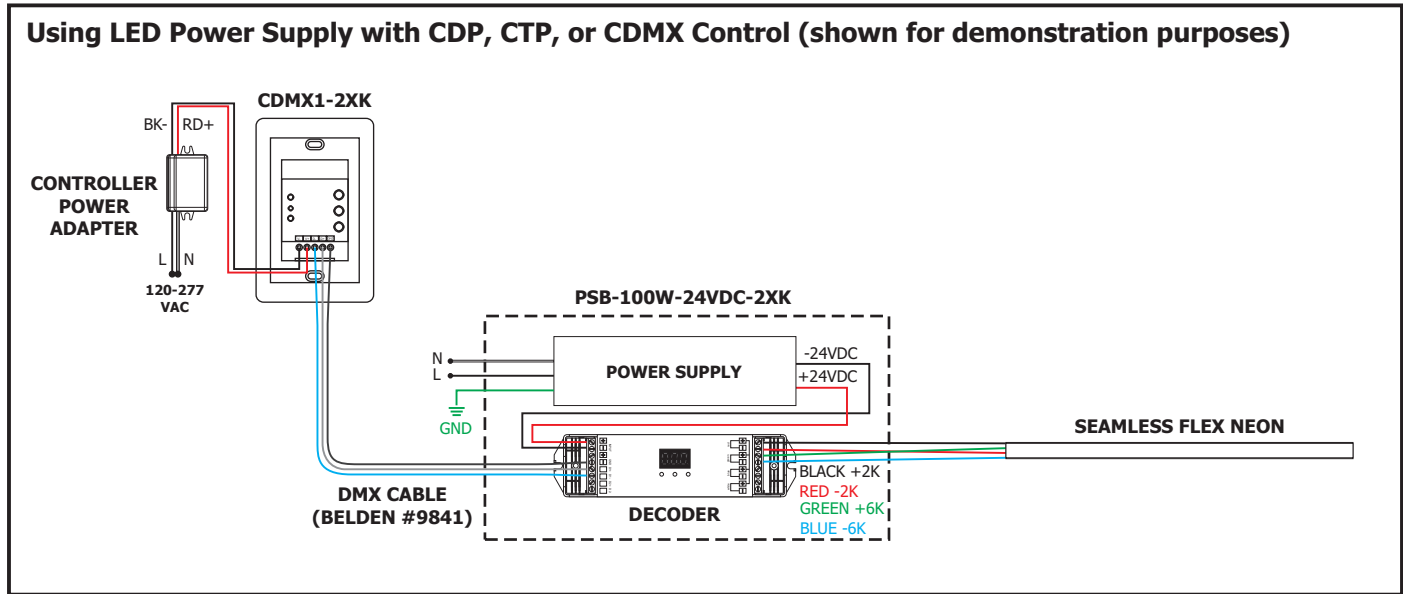
11: If using 1RE Junction box, place all wire nut connections inside the junction box.

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100W, 24VAC LOW VOLTAGE WIRE SIZE CHART					
3% VOLTAGE DROP	WIRE LENGTH IN FT	UP TO 31FT	32FT-49FT	50FT-81FT	82FT-124FT
	WIRE SIZE	14 AWG	12 AWG	10 AWG	8 AWG
	VOLTAGE AT END OF THE WIRE	23.28 VAC	23.29 VAC	23.28 VAC	23.28 VAC

General Wiring Diagrams

Using LED Power Supply with CDP, CTP, or CDMX Control (shown for demonstration purposes)



Tunable White: LED Power Supply with two Channel Controls, for Intensity and Color Temperature

