



Inspire Neon Flex 0408 Side Bend

Installation Instructions



Quick Product Specs

- Bends side-to-side only
- 24V DC Input
- 4.4 Watts per Foot
- Cuttable Every 3"
- The tightest bend diameter is 3"
- 22FT (264") Max Run Length
- Max Operating Temperature: 32°F to 131°F (0°C to 55°C)
- Max Ambient Temperature: -13°F to 131°F (-25°C to 55°C)
- IP67 Indoor or Outdoor (this product is NOT UL676 rated)
- Dimensions (WxH): 0.45" x 0.83"

Before You Begin

Project Planning & Layout

Due to the nature of this product, planning and laying out the project BEFORE installation is strongly recommended to minimize errors.

Product Modifications

Modifying this product beyond its intended use and/or construction is not recommended and voids the warranty.

Two-Person Installation

At least two people are recommended to install the Neon Flex – one person installing the product and another person holding the excess Neon Flex.

Do NOT twist

Twisting the Neon Flex may cause damage.

Moisture-Blocking Ferrule (located on lead wire)

Prevents moisture from entering the Neon Flex. Removal of the Moisture-Blocking Ferrule increases the risk of damage and voids the warranty.

Do NOT bend up-and-down

This Neon Flex bends side-to-side only. Bending the Neon Flex in the wrong direction may cause damage.

Do NOT make sharp bends

Making sharp bends or bends tighter than the bend diameter may cause damage.

Tools Required

Some tools may be optional based on your installation.

If cutting and capping the Neon Flex:

- Miter Cut Shears
- Clear, RTV Silicone Adhesive



Example of Miter Cut Shears

If installing In-Field Connectors:

- Small phillips head screwdriver
- Small flat head screwdriver or pry tool

If installing aluminum channel:

- Hacksaw
- Electric drill
- Screws specific to application
- Small flat head screwdriver

If installing flexible channel:

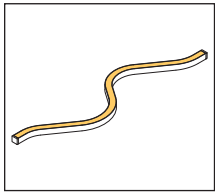
- Screwdriver or electric drill
- Screws specific to application
- Small flat head screwdriver

If installing mounting clips:

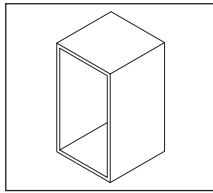
- Screwdriver or electric drill
- Screws specific to application

Parts

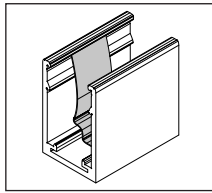
Some parts are optional and may not be included.



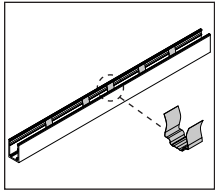
Neon Flex



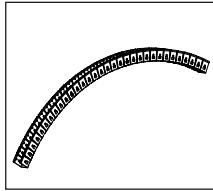
Silicone End Caps (x2)



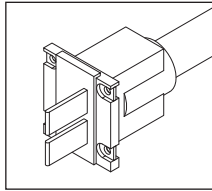
Mounting Clips (x10)
with pre-installed
Lock-In Clip



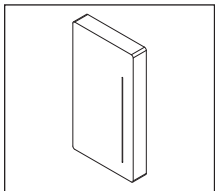
3.28FT Aluminum
Channel with
(x5) pre-installed
Lock-In Clips



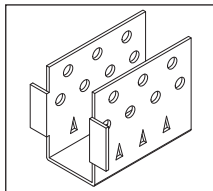
Flexible Channel
(3.9", 19.7", or 3.28FT)



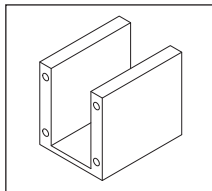
In-Field Connector



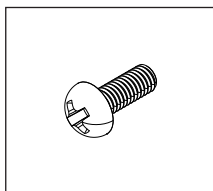
Spacer
(for In-Field Connector)



Gripper
(for In-Field Connector)



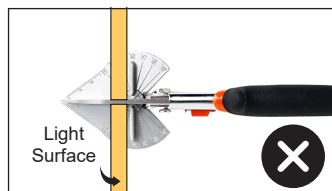
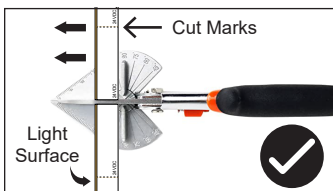
Connector Clip
(for In-Field Connector)



Screws (x4)
(for In-Field Connector)

Installation Part 1: Cutting & Capping the Neon Flex

1. Locate the cut marks (dashed lines) on the sides of the Neon Flex.
2. With the light surface facing OUT and using Miter Cut Shears ONLY, make the cut on the cut mark.



CAUTION! Do NOT make cuts between the cut marks.

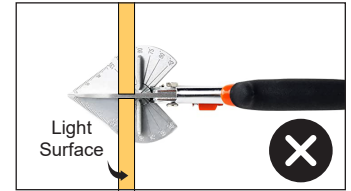
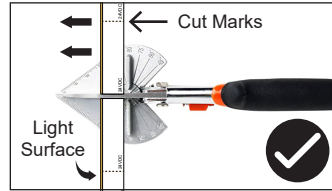
CAUTION! Making a cut with the light surface facing the wrong direction may cause damage.

3. Apply a small amount of the clear, RTV silicone adhesive sealant to the inside of the silicone end cap.
4. Install the silicone end cap onto the cut end of the Neon Flex.

PRO TIP: Allow time for the adhesive to cure. Review your specific adhesive for curing time.

Installation Part 2: In-Field Connector Installation

1. Locate the cut marks (dashed lines) on the sides of the Neon Flex.
2. With the light surface facing OUT and using Miter Cut Shears ONLY, make the cut on the cut mark.

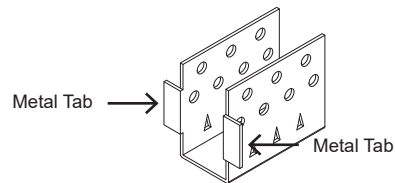


CAUTION! Do NOT make cuts between the cut marks.

CAUTION! Making a cut with the light surface facing the wrong direction may cause damage.

3. At the cut end of the Neon Flex, install the Gripper onto the bottom of the Neon Flex.

PRO TIP: The metal tabs on the Gripper should always align with the cut end of the Neon Flex.

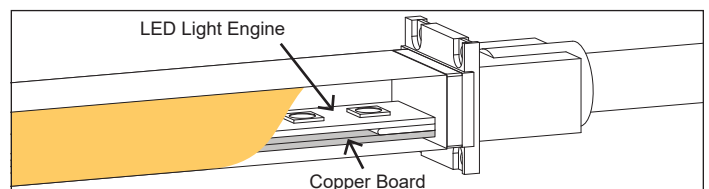


4. Slide the Connector Clip over the Gripper.

PRO TIP: The screw holes on the Connector Clip should be visible at the cut end of the Neon Flex.

5. Slide the metal contacts of the In-Field Connector through the opening on the Spacer.
6. Slide the In-Field Connector onto the Neon Flex.

CAUTION! The metal contacts on the connector must be installed between the copper board and LED light engine. If the connector is not inserted correctly, the Neon Flex will not power on.



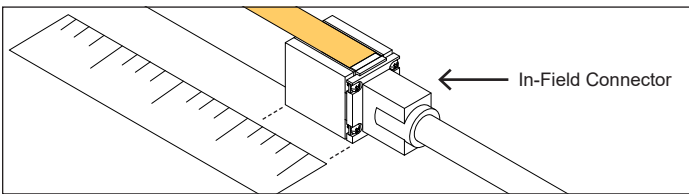
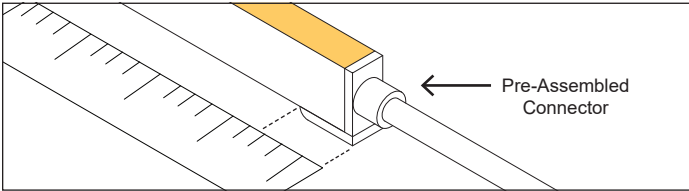
7. Insert the screws through the screw brackets on the In-Field Connector.

- Using an X-shaped pattern, begin tightening each screw.
- Following the same X-shaped pattern, continue tightening each screw until the connector is completely secure.

PRO TIP: The connector will be completely secure when the gap between the connector and the metal tabs on the gripper is closed.

Installation Part 3: Aluminum Channel Installation

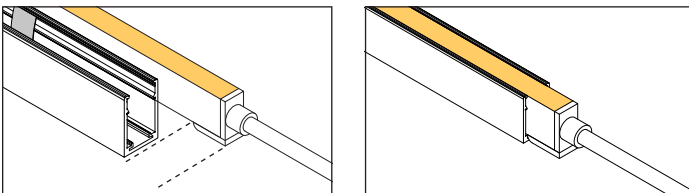
- Measure the length of the connector installed on the Neon Flex.



- Subtract the length of the connector from the overall length of the aluminum channel.
- On the channel, mark where the cut will be made.
- Before making the cut, move any of the pre-installed Lock-In Clips out of the way.

PRO TIP: The channel has (x5) pre-installed Lock-In Clips. These clips securely hold the Neon Flex in the channel.

- Cut the channel using a hacksaw.
- Install the channel using screws appropriate for your application.
- Position the Lock-In Clips evenly throughout the channel.
- Align the Neon Flex so that the connector exits properly.



- Begin fitting the Neon Flex into the channel.
- Work your way down the channel until the Neon Flex is completely installed.

Uninstalling the Neon Flex from the Aluminum Channel

- Carefully wedge a small, flat head screwdriver between the Neon Flex and the aluminum channel.
- Gently begin prying the Neon Flex out of the channel.
- Carefully remove the remaining Neon Flex from the channel.

Installation Part 4: Flexible Channel Installation

CAUTION! This channel may not be cut or modified in any way. Any modifications made to this channel will void the warranty.

- Install the channel using screws appropriate for your application.
- Begin fitting the Neon Flex into the channel.
- Work your way down the channel until the Neon Flex is completely installed.

Uninstalling the Neon Flex from the Flexible Channel

- Carefully wedge a small, flat head screwdriver between the Neon Flex and the flexible channel.
- Gently begin prying the Neon Flex out of the channel.
- Carefully remove the remaining Neon Flex from the channel.

Installation Part 5: Mounting Clip Installation

PRO TIP:

- For simple bends, use 3-4 clips per foot.
- For complex bends, use 5-6 clips per foot.



- Before installing, move any of the pre-installed Lock-In Clips out of the way.

CAUTION! Do NOT dispose of the Lock-In Clips - they are required to securely hold the Neon Flex in the clip.

- Install the clips using screws appropriate for your application.
- Move the Lock-In Clip to the center of the Mounting Clip.
- Fit the Neon Flex into each clip.

Uninstalling the Neon Flex from the Mounting Clip

- Carefully wedge a small, flat head screwdriver between the Neon Flex and the mounting clip.
- Gently pry the Neon Flex out of the mounting clip.