



Installation Instructions

Endurawave Narrow

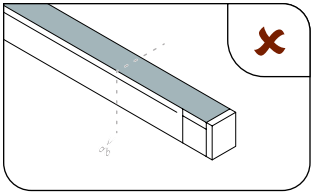
FLEXIBLE
NEON

Safety Precautions



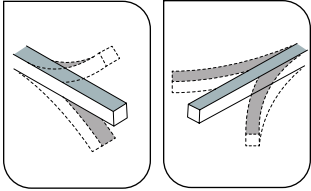
PRODUCT MODIFICATIONS

Product is NOT to be modified in the field. Field modifications will void UL listing and warranty.



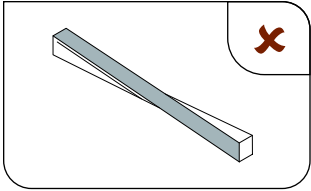
BENDING DIRECTION

Please note and do not exceed the maximum bending directions of the product. Light failure may occur. Avoid bending the product near the feed or end cap.



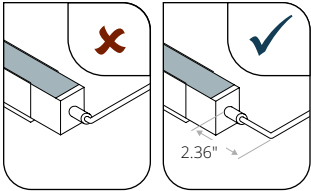
TWISTING

Do not twist or bend product excessively. Do not hit or pull the product with excessive force.



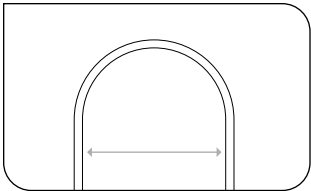
CABLE HANDLING

The first 2.36" (60mm) of the cable should maintain its natural state before any bending occurs.



BENDING LIMITS

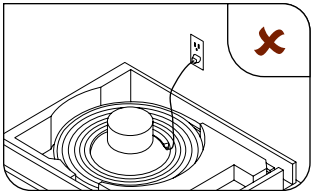
Do not bend product smaller than bending diameter: 11.81" (300mm).



Series	Horizontal Bend	Vertical Bend
WL/SC	11.81" (300MM)	11.81" (300MM)
RGBW/TXRGBW	11.81" (300MM)	31.50" (800MM)
CT/DTW	11.81" (300MM)	19.69"(500MM)

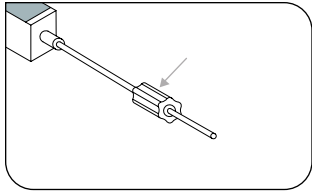
POWER TESTING

Do not power up while coiled for over 30 minutes. This may lead to overheating and damage.



ANTI-WICKING FERRULE

Removing the anti-wicking ferrule increases the risk of water damage and voids the warranty. Submerging the anti-wicking ferrule in water voids the warranty.



Additional Precautions

For best performance and lifespan, do not load the power supply more than 80% of its labeled wattage rating. Only connect Endurawave to a 24V Class 2 Power Source.

This electronic product is sensitive to mishandling and may incur damage. Any improper soldering or modifications may lead to the voiding of the warranty. Kelvix reserves the right to assess warranty cases based on various factors.

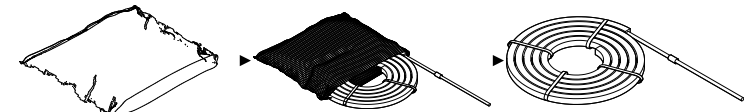
Avoid puncturing or penetrating the product with foreign objects, as this could lead to a short circuit.

Ensure that the ambient temperature does not exceed 50°C/122°F during installation to maximize the rated lifetime. Fixture temperature is between 50°F - 104°F (10°C - 40°C) during installation.

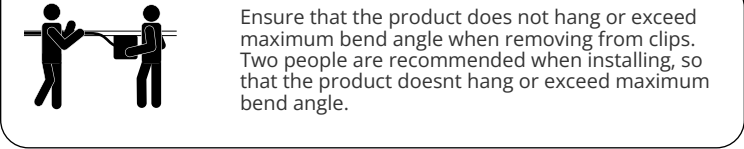
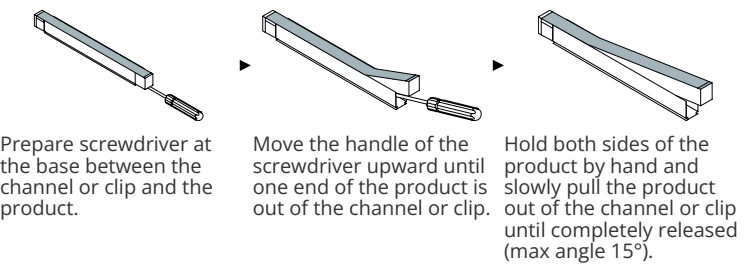
Product should be installed by a qualified electrician and according to local and national electrical codes.

Unpacking

Incorrect unpacking may cause damage to electronic components and lead to light failure. Do not unfurl Endurawave from the middle of packaging.



Uninstalling



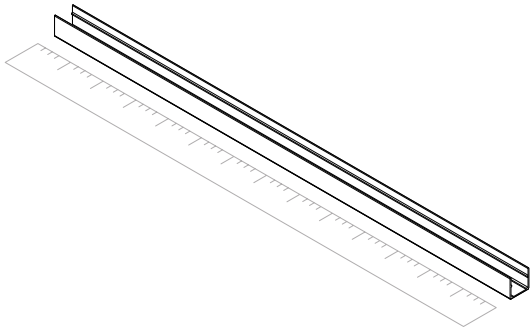


Aluminum Channel Installation Guide

Endurawave Narrow

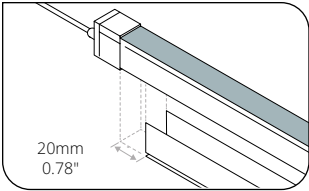
FLEXIBLE
NEON

1 Measure and cut channel to length as needed.



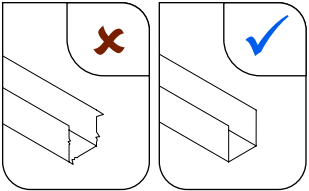
PROFILE LENGTH

Reserve 0.39"–0.78" (10–20mm) distance between the connector and channel.

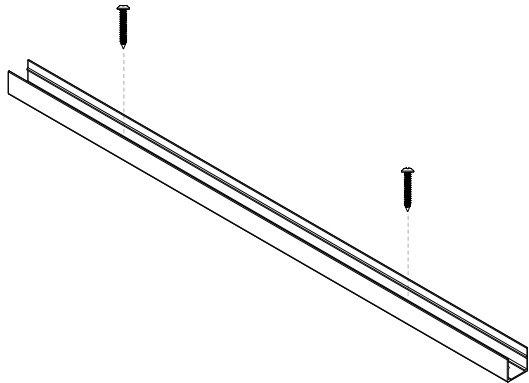


PROFILE CUTTING

Make sure the cross section of the channel is smooth without any burrs.

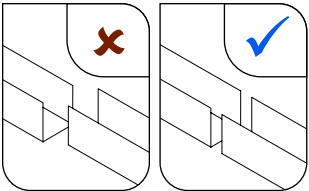


2 Screw channel through pre-drilled holes directly into mounting surface.



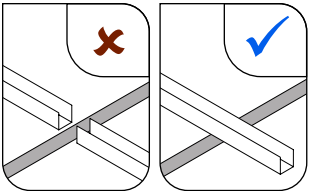
PROFILE ALIGNMENT

When using multiple channels the channel junctions should be aligned and the gap between should be at least 0.19" (5mm).



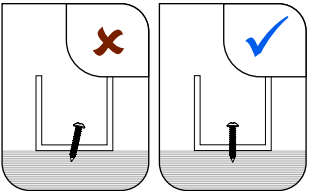
EXPANSION JOINTS

Do not connect two channels at an expansion joint. Cross the expansion joint near the middle of the channel.



PROFILE SECURING

Ensure screws are driven vertically and flush to bottom edge to avoid damaging the outer jacket during installation.



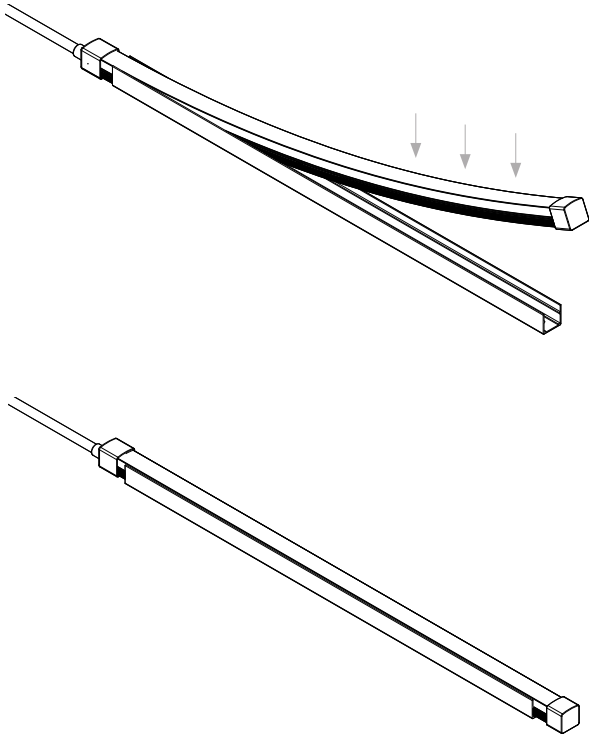


Aluminum Channel Installation Guide

Endurawave Narrow

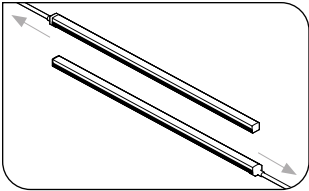
FLEXIBLE
NEON

3 Starting at one end, place product in channel and press down along entire length with your palm.



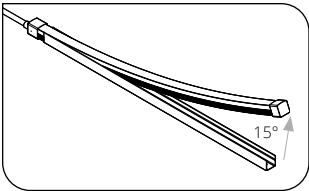
POWER FEED

Ensure that product is correctly oriented with power feed end toward power source.



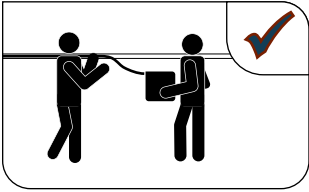
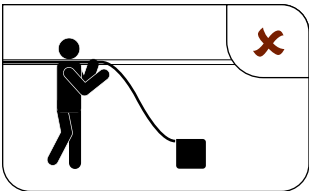
BENDING

Do not exceed 15° angle when installing the product into the channel.



TWO-PEOPLE REQUIRED

At minimum, two people should be used to install product into channel. One person should be installing product into channel, while another person is carrying product to ensure Endurawave does not exceed maximum bending angle.



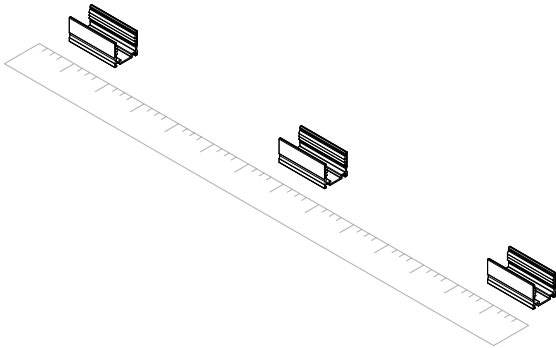


Clips Installation Guide

Endurawave Narrow

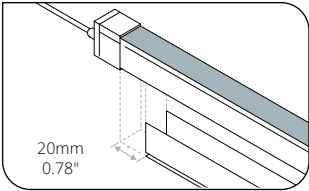
FLEXIBLE
NEON

- 1** Determine clip layout and mark clip location on mounting surface. Place a mounting clip minimum every 12 inches. Ensure that Endurawave does not exceed maximum bend angle.

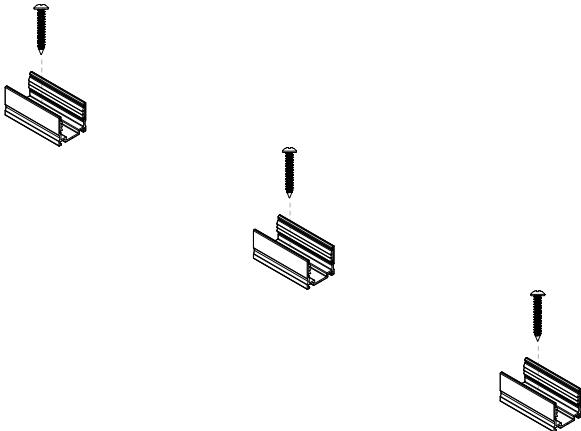


PROFILE LENGTH

Reserve 0.39"–0.78" (10–20mm) distance between the connector and channel.

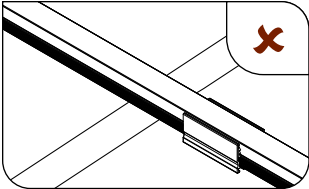


- 2** Screw channel through pre-drilled holes directly into mounting surface.



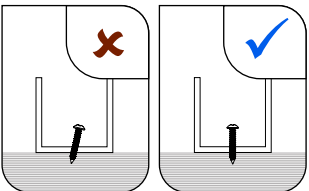
EXPANSION JOINTS

If the fixture crosses an expansion joint, use the rigid aluminum mounting channel.



PROFILE SECURING

Ensure screws are driven vertically and flush to bottom edge to avoid damaging the outer jacket during installation.



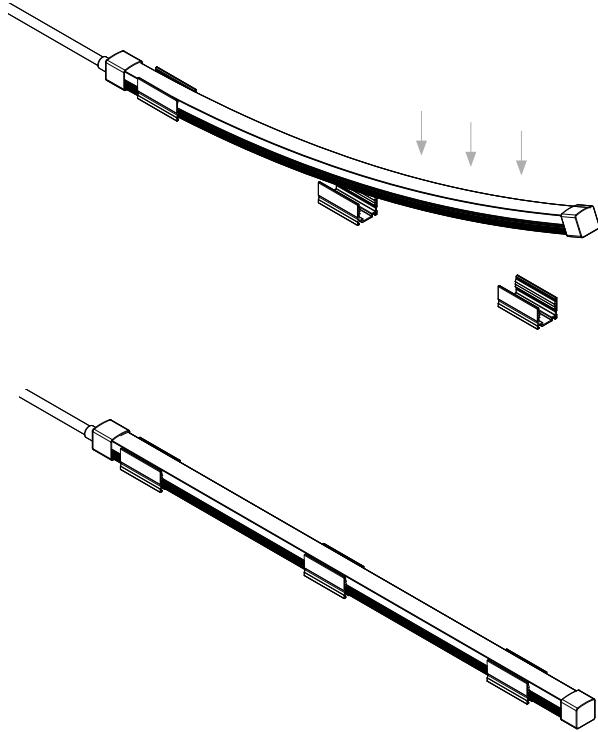


Clips Installation Guide

Endurawave Narrow

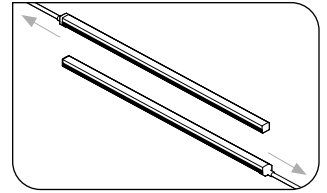
3

Starting at one end, place product in channel and press down along entire length with your palm.



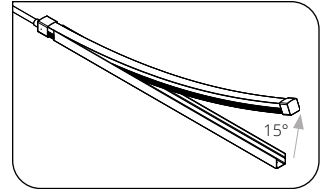
POWER FEED

Ensure that product is correctly oriented with power feed end toward power source.



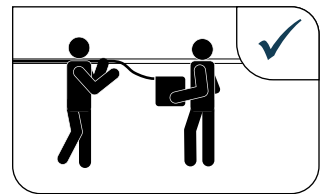
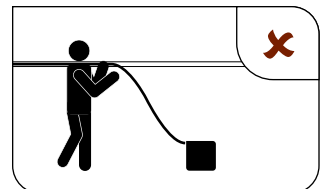
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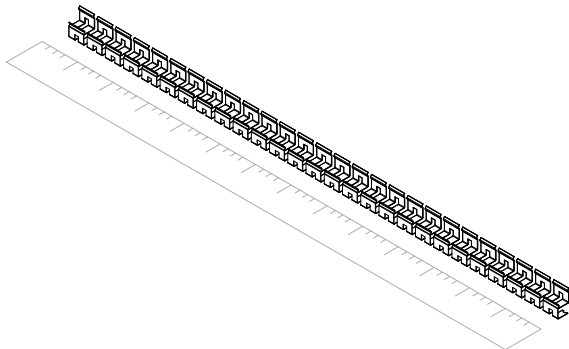
Flex Channel Installation Guide

Endurawave Narrow

FLEXIBLE
NEON

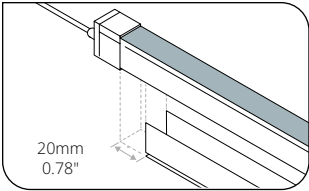
1

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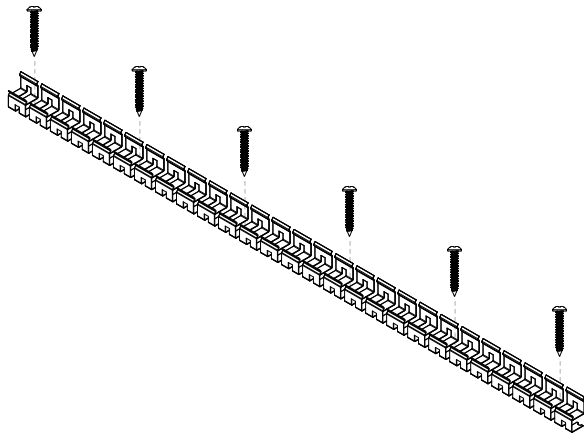
PROFILE LENGTH

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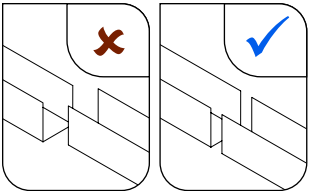
2

Screw channel through pre-drilled holes directly into mounting surface.



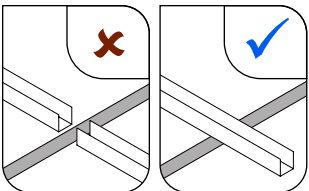
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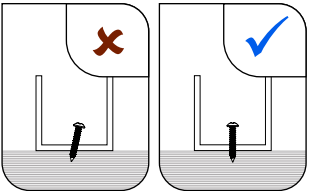
EXPANSION JOINTS

Do not connect two channels at an expansion joint. Cross the expansion joint near the middle of the channel. Channel should be screwed down on both sides of expansion joint/seam.



PROFILE SECURING

Ensure screws are driven vertically and flush to bottom edge to avoid damaging the outer jacket during installation.

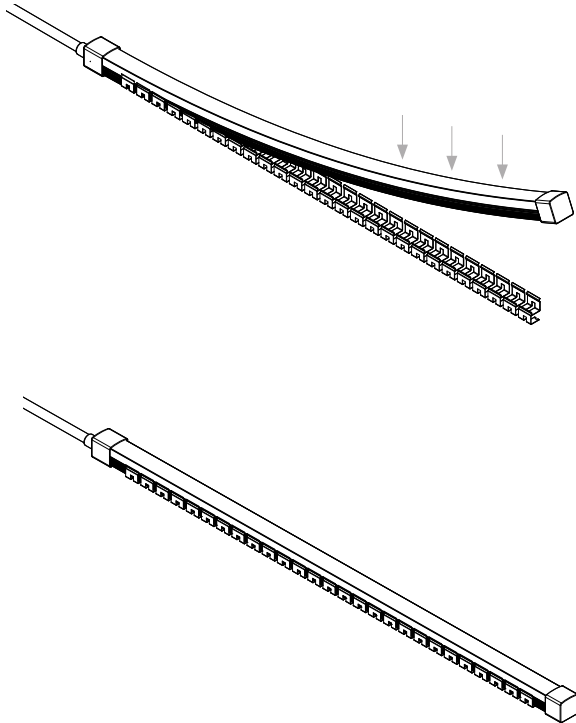




Flex Channel Installation Guide

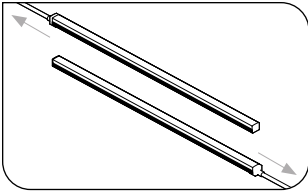
Endurawave Narrow

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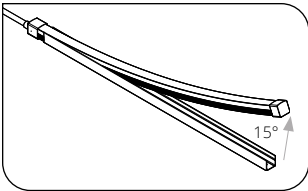
POWER FEED

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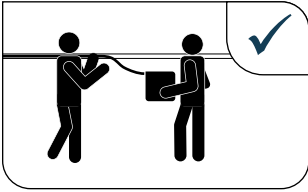
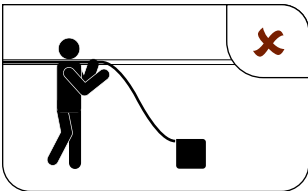
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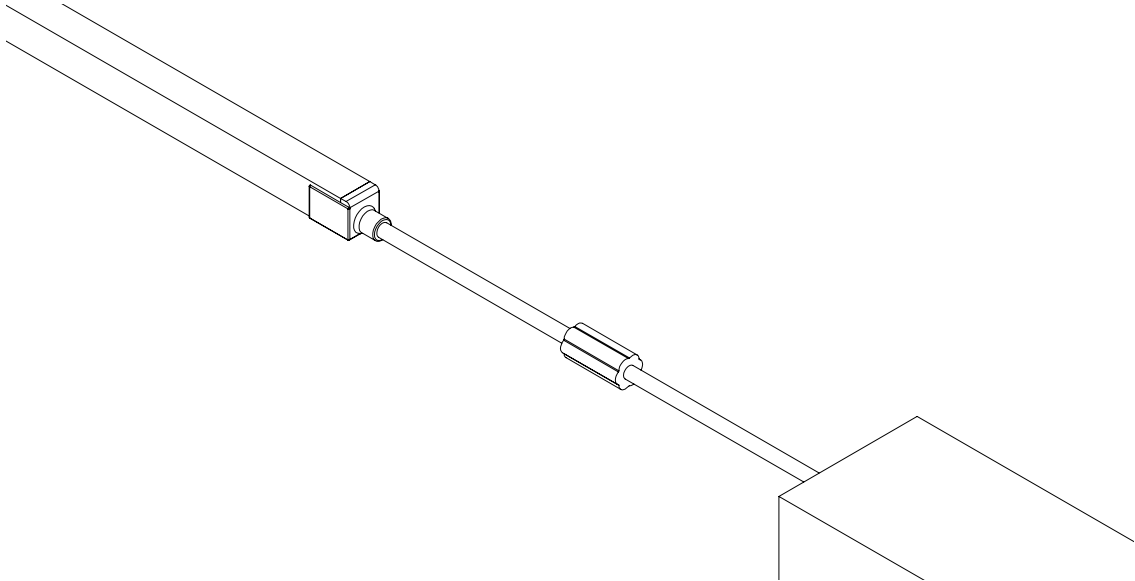
Power Installation

Flexible Neon Products

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NEON

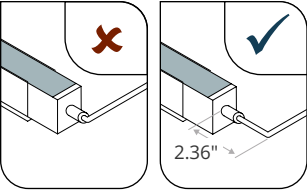
Open Air Installation

Open air installations mean any installation in which the factory-installed Signwave or Endurawave lead wire remains exposed and accessible and never passes into or through a wall, ceiling, floor, or building cavity of any type.



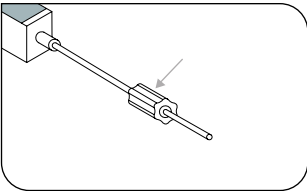
CABLE HANDLING

The first 2.36" (60mm) of the cable should maintain its natural state before any bending accrues.



ANTI-WICKING FERRULE

Removing the anti-wicking ferrule increases the risk of water damage and voids the warranty. Submerging the anti-wicking ferrule in water voids the warranty.



INSTALL PRODUCT

- 1 Install the Signwave or Endurawave mounting channel and product in accordance with the Signwave or Endurawave Installation Guide provided. Follow all bending, handling, mounting, and power-feed requirements.

ROUTE FACTORY LEAD

- 2 Route the factory-installed Signwave or Endurawave lead wire from the fixture directly to the Class 2 power supply or approved connection point. The factory-installed lead must remain in open air and accessible for its entire length. Do not route the factory lead into or through walls, ceilings, floors, or other concealed building cavities.

CONNECT POWER

- 3 Connect the Signwave or Endurawave lead to the specified Class 2 power supply. Observe correct polarity and verify that the power supply voltage matches the Signwave or Endurawave product.

SECURE WIRING

- 4 Secure and protect the lead wire from physical damage, sharp edges, excessive tension, heat sources, and other conditions that could damage the cable. Do not remove, replace, splice, extend, or modify the factory-installed Signwave or Endurawave lead except where specifically permitted by Kelvix installation instructions.

General Electrical Requirements

- Installation must be performed by qualified personnel in accordance with the product installation instructions and all applicable local, state and national electrical and building codes.
- Contractor shall provide all wire, conduit, raceway, junction boxes, connectors, fittings and other electrical materials required for the installation unless specifically identified as supplied by Kelvix.
- Use only with the specified Listed Class 2 power supply. Do not exceed the maximum voltage, wattage, or run length specified for the Signwave or Endurawave product.
- Do not cut, splice, replace, extend or otherwise modify factory-installed Signwave or Endurawave wiring except as specifically shown in these installation instructions.
- Local code requirements and the Authority Having Jurisdiction (AHJ) take precedence where additional requirements apply.

Kelvix reserves the right to update the product specifications at any time. Field modifications will void UL listing and warranty.

Fixture Type _____

Project Name _____

Location _____



Power Installation

Flexible Neon Products

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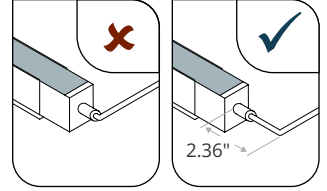
In-Wall, Through-Wall Installation

An in-wall installation means any installation where wiring between the Signwave or Endurawave fixture and Class 2 power supply must enter or pass through a wall, ceiling, floor, or other building cavity.

The factory-installed Signwave or Endurawave lead is not intended to be used as the concealed building wiring portion of the installation.

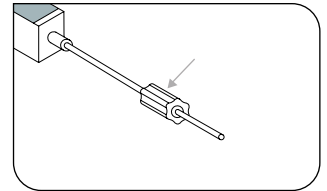
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INSTALL PRODUCT

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ROUTE FACTORY LEAD TO JUNCTION BOX

- 2 Route the factory-installed Signwave or Endurawave lead from the fixture to an accessible, approved junction box or connection enclosure located before the wiring enters the wall, ceiling, floor, or building cavity. Do not extend the factory-installed Signwave or Endurawave lead through the building cavity.

TRANSITION AT JUNCTION BOX

- 3 Inside the junction box, transition from the factory-installed Signwave or Endurawave lead to contractor-provided wiring suitable for the installation type and condition. All connections must be made using approved connectors and methods appropriate for the conductor type, size, and application.

BUILDING WIRING

- 4 From the junction box, provide and install the appropriate wire type and gauge, as required by the installation and applicable codes. Contractor-provided wire, conduit, raceway, junction boxes, connectors, fittings, and other electrical materials must be selected and installed in accordance with applicable local, state and national electrical and building codes.

CONNECT TO CLASS 2 POWER SUPPLY

- 5 Route the contractor-provided building wiring to the specified Class 2 power supply. Maintain correct polarity throughout the circuit and verify that the power supply voltage matches the Signwave product.

General Electrical Requirements

- Installation must be performed by qualified personnel in accordance with the product installation instructions and all applicable local, state and national electrical and building codes.
- Contractor shall provide all wire, conduit, raceway, junction boxes, connectors, fittings and other electrical materials required for the installation unless specifically identified as supplied by Kelvix.
- Use only with the specified Listed Class 2 power supply. Do not exceed the maximum voltage, wattage, or run length specified for the Signwave or Endurawave product.
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Project Name _____

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