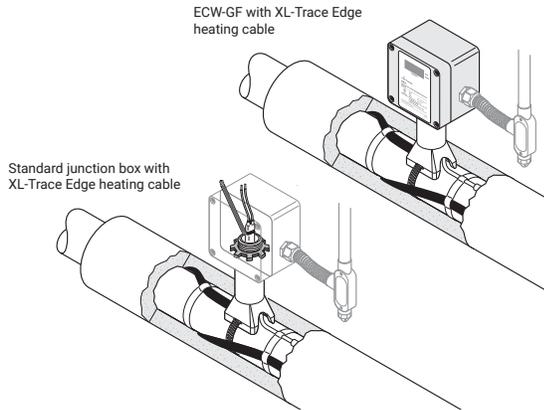




**RAYCHEM**

# FTC-PSK

## Pipe Stand with Power Connection Kit and End Seal for use with XL-Trace Edge Heating Cables Installation Instructions



### APPROVALS

Nonhazardous locations



### KIT CONTENTS

Item	Qty	Description
A	1	Pipe stand assembly
B	1	Lock nut 1 in NPT
C	1	Transition fitting
D	2	Black heat-shrinkable tubes (1/8 in x 5 1/2 in)
E	1	Green/yellow heat-shrinkable tube (1/4 in x 5 1/2 in)
F	1	Black heat-shrinkable tube (1/2 in x 1 1/2 in)
G	1	Cable lubricant
H	1	Cable tie
I	1	Gel-filled end seal
J	3	Wire nuts

### DESCRIPTION

The nVent RAYCHEM FTC-PSK Pipe Stand and Power Connection and End Seal kit is for use with nVent RAYCHEM XL-Trace Edge heating cables. Materials for one power connection and one end seal are included in this kit. These installation instructions should be used in conjunction with the XL-Trace Edge System Installation and Operation Manual.

For technical support call nVent at (800) 545-6258.

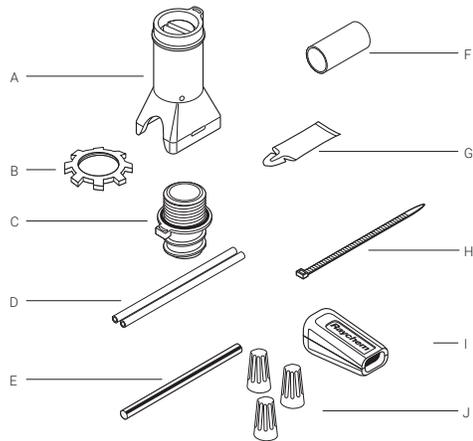
### TOOLS REQUIRED

- Screw driver
- Needle-nose pliers
- Utility knife
- Pen
- Diagonal cutters
- Heat gun or propane torch

### ADDITIONAL MATERIALS REQUIRED

#### (NOT PROVIDED WITH THIS KIT)

- nVent RAYCHEM ECW-GF electronic controller
- UL Listed or CSA Certified junction box suitable for the location with a clearance hole or threaded hub for 1 inch NPT



### ⚠ WARNING:

This component is an electrical device that must be installed correctly to ensure proper operation and to prevent shock or fire. Read these important warnings and carefully follow all of the installation instructions.

- To minimize the danger of fire from sustained electrical arcing if the heating cable is damaged or improperly installed, and to comply with the requirements of nVent, agency certifications, and the National Electrical Code, ground fault equipment protection must be used. Arcing may not be stopped by conventional circuit breakers.

- Component approvals and performance are based on the use of nVent-specified parts only. Do not use substitute parts or vinyl electrical tape.
- The black heating cable core and fibers are conductive and can short. They must be properly insulated and kept dry.
- Damaged bus wires can overheat or short. Do not break bus wire strands when scoring the jacket or core.
- Keep components and heating cable ends dry before and during installation.
- Use only fire resistant insulation materials, such as fiberglass wrap or flame-retardant foam.

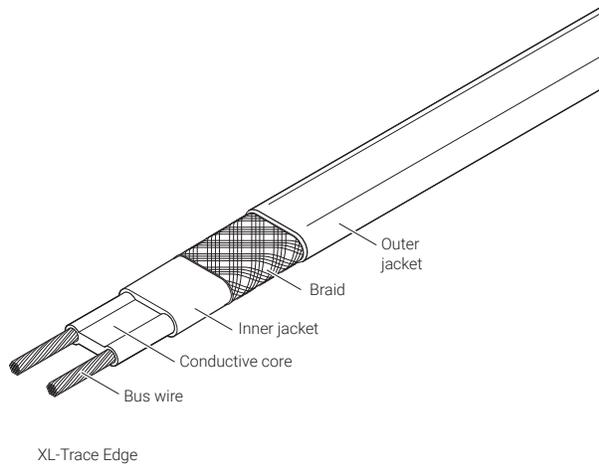
### ⚠ CAUTION:

**HEALTH HAZARD:** Overheating heat-shrinkable tubes will produce fumes that may cause irritation. Use adequate ventilation and avoid charring or burning. Consult MSDS RAY3122 for further information.

CHEMTREC 24-hour emergency telephone: 800-424-9300.

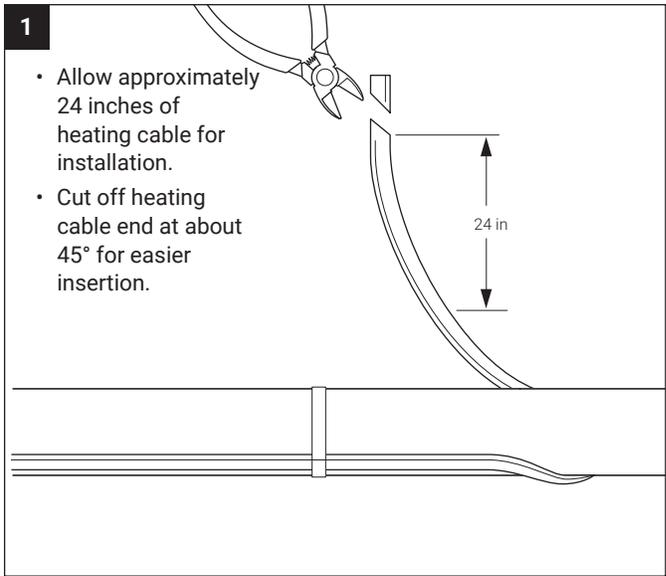
Non-emergency health and safety information: 800-545-6258.

## Heating Cable Construction



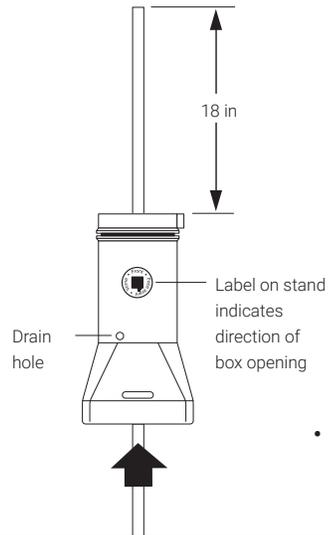
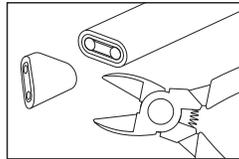
1

- Allow approximately 24 inches of heating cable for installation.
- Cut off heating cable end at about 45° for easier insertion.



2

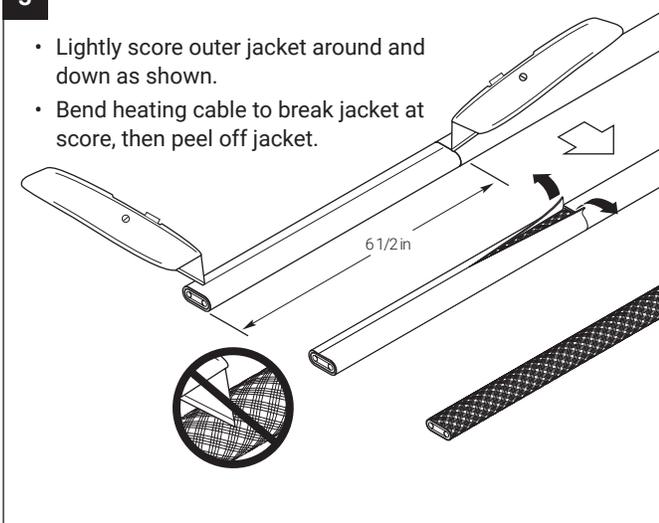
- Optional: If stand is to be installed on bottom side of pipe, knock out drain hole prior to inserting cable.
- With label on stand facing desired direction of box opening, push 18 inches of heating cable through stand. Use cable lubricant if needed.
- Square off cable end with 90° cut.



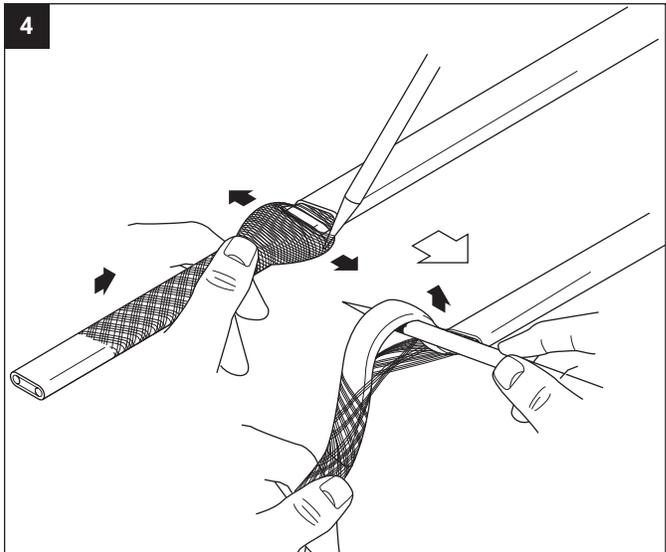
- Do not attach stand to pipe until step 11.

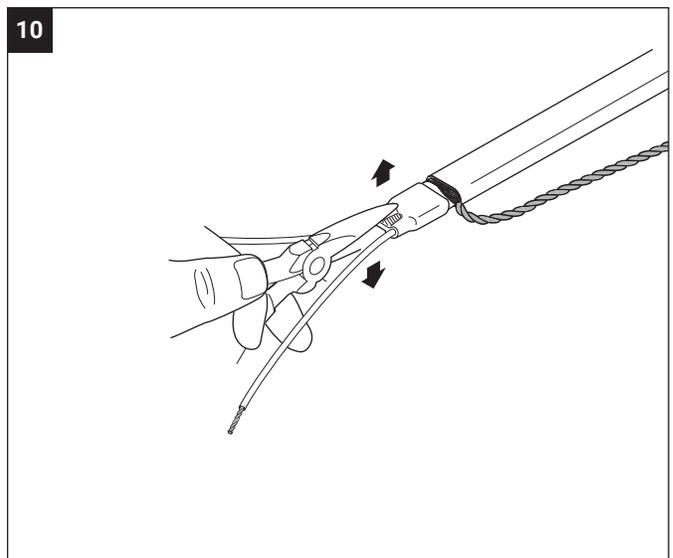
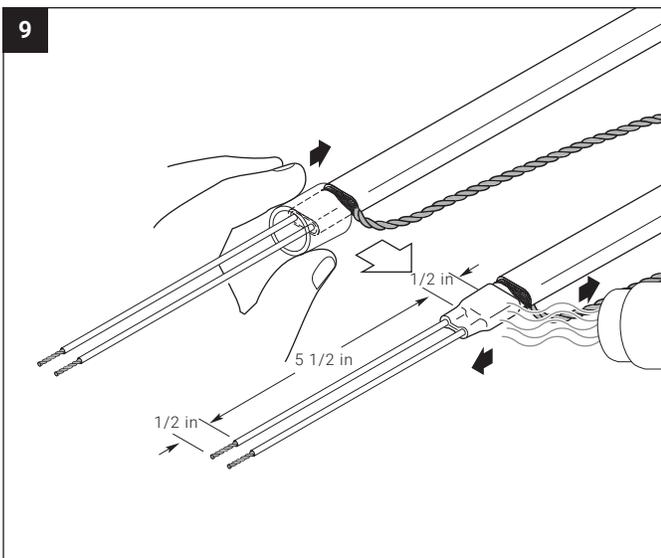
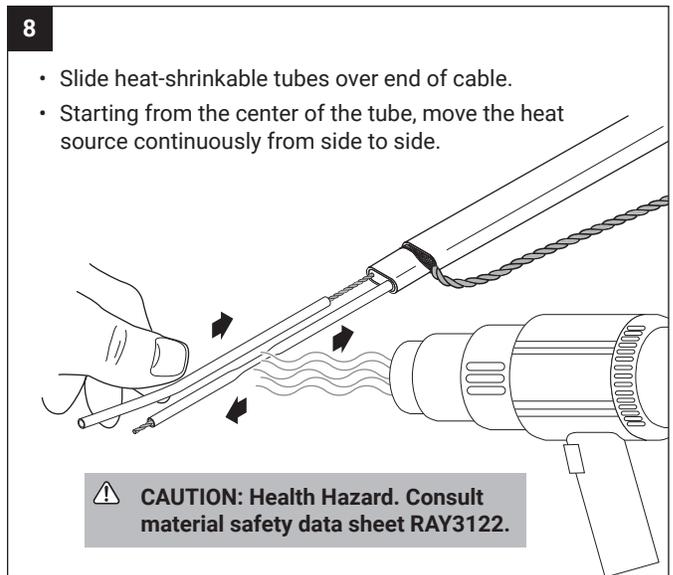
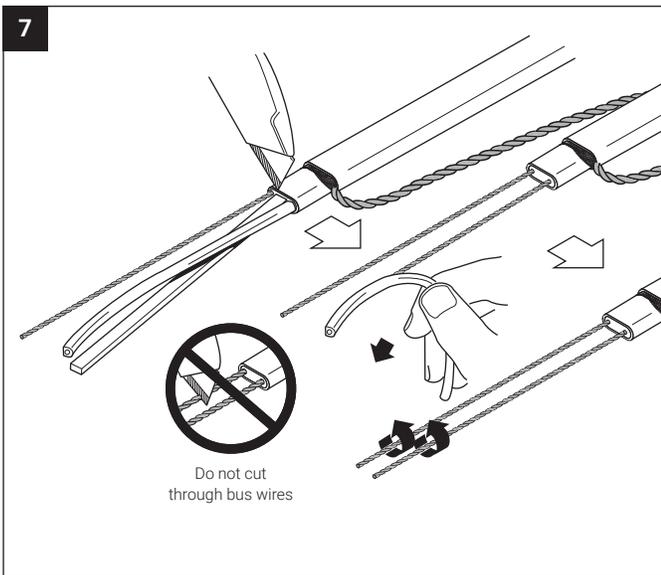
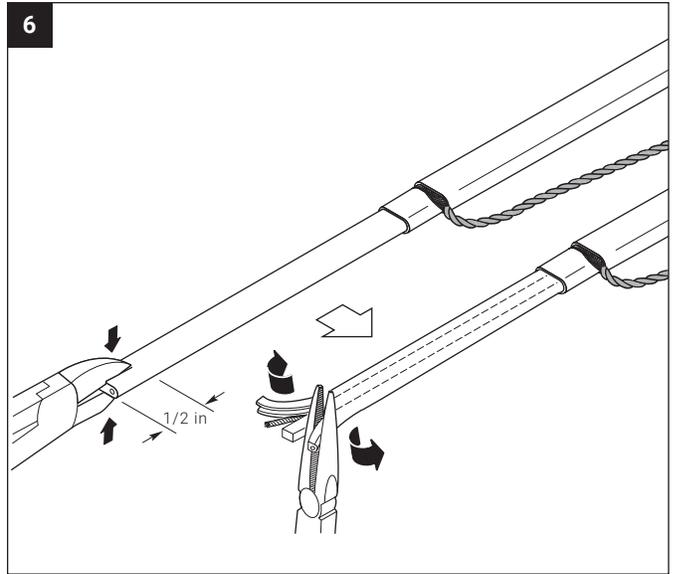
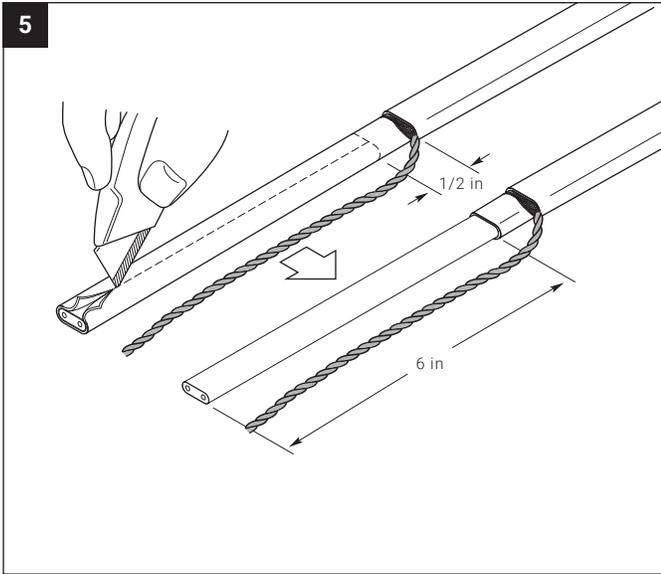
3

- Lightly score outer jacket around and down as shown.
- Bend heating cable to break jacket at score, then peel off jacket.



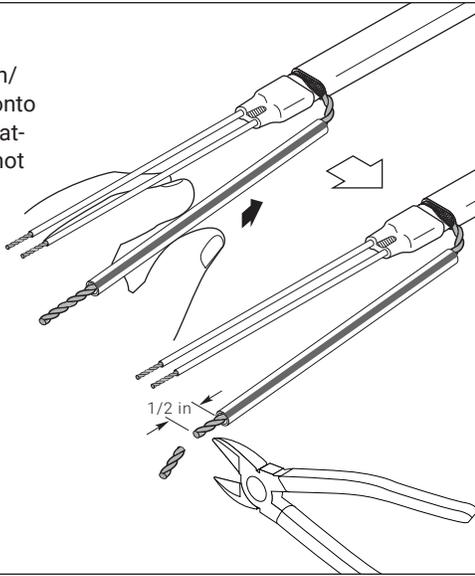
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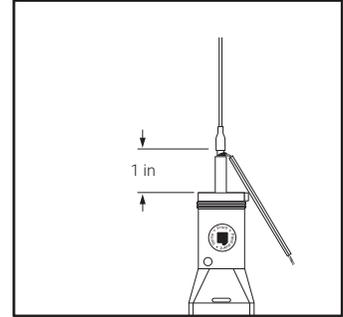
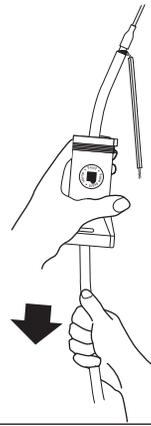
11

- Slip the green/yellow tube onto the braid. Heat-shrinking is not required.
- Trim braid.



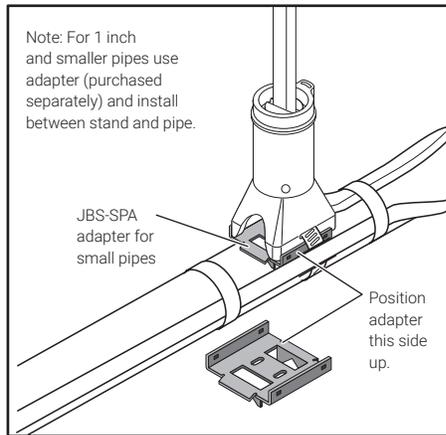
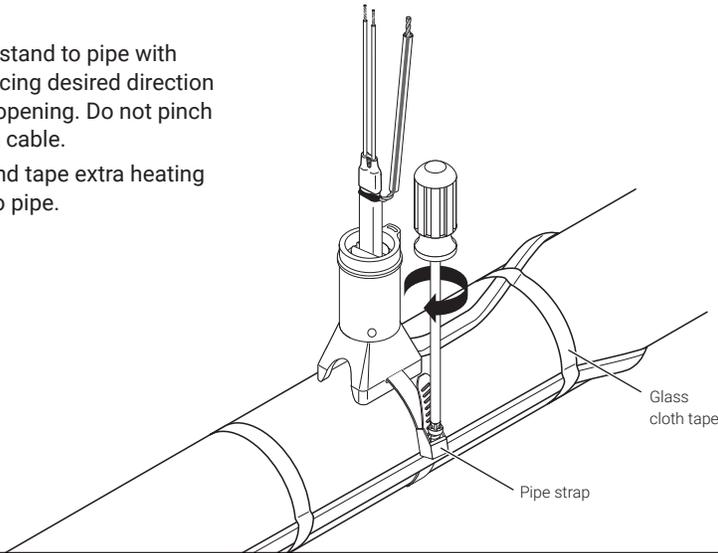
12

- Pull heating cable back into stand so 1 inch is exposed as shown. Use cable lubricant if needed.



13

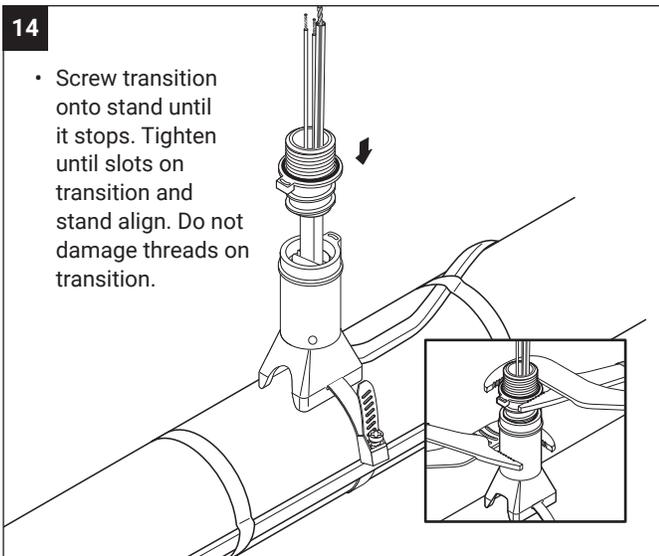
- Fasten stand to pipe with label facing desired direction of box opening. Do not pinch heating cable.
- Loop and tape extra heating cable to pipe.



Note: For 1 inch and smaller pipes use adapter (purchased separately) and install between stand and pipe.

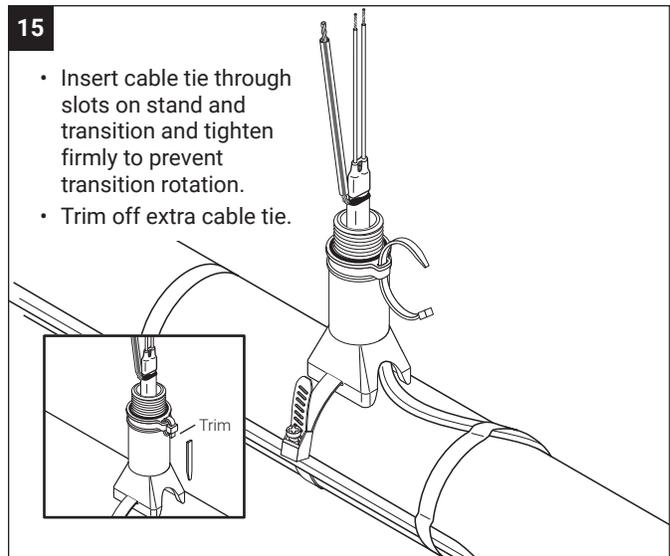
14

- Screw transition onto stand until it stops. Tighten until slots on transition and stand align. Do not damage threads on transition.



15

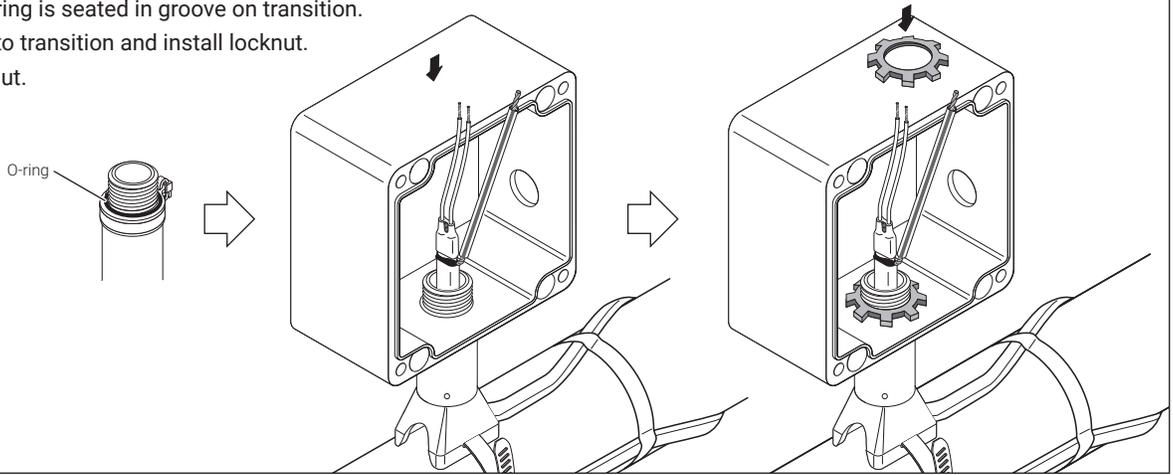
- Insert cable tie through slots on stand and transition and tighten firmly to prevent transition rotation.
- Trim off extra cable tie.



16A

**For through-hole box:**

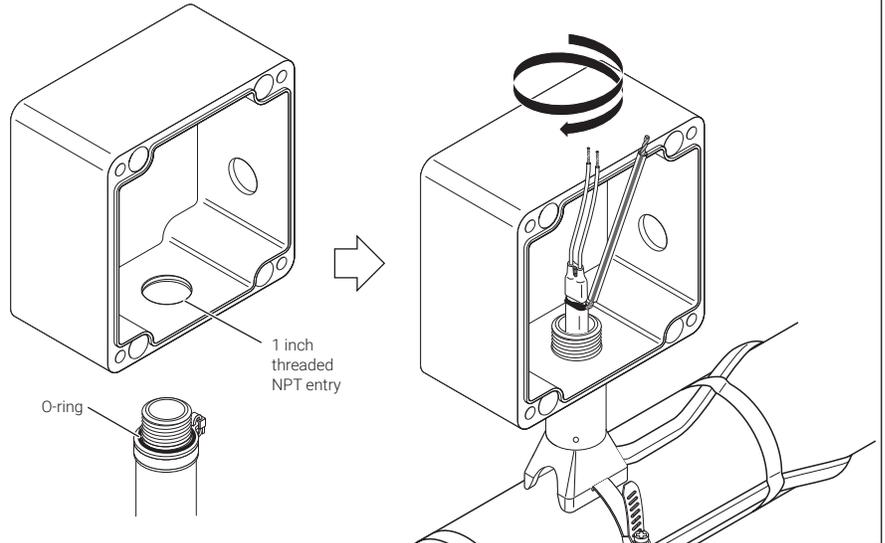
- Make sure o-ring is seated in groove on transition.
- Place box onto transition and install locknut.
- Tighten locknut.



16B

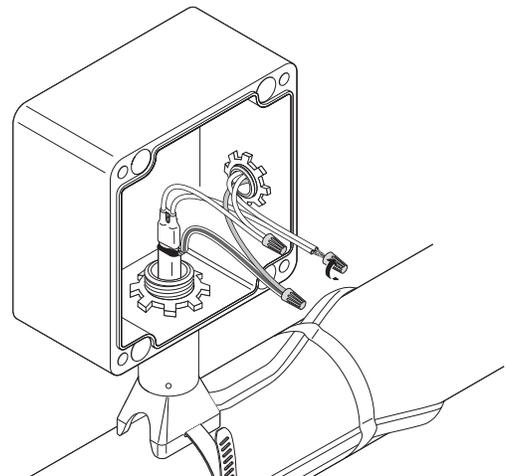
**For threaded box:**

- Make sure o-ring is seated in groove on transition.
- Screw 1 inch threaded NPT entry box onto transition.
- Tighten junction box.



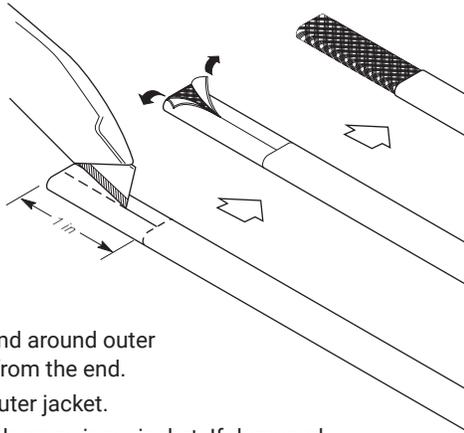
17

- For standard junction boxes, connect to power supply wiring using the three wire nuts as shown.
- For the ECW-GF controller, connect to the terminal block as shown in the controller installation instructions.



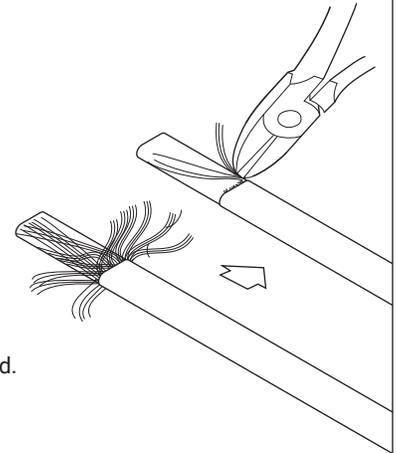
## End Seal Installation

1



- Score down and around outer jacket 1 inch from the end.
- Remove the outer jacket.
- Do not cut or damage inner jacket. If damaged, remove damaged section and repeat step 1.

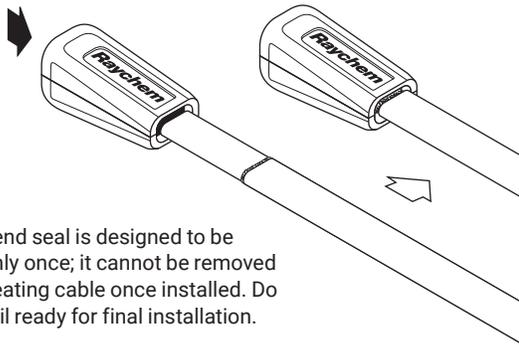
2



- Remove exposed braid.

3

- Push end seal completely onto heating cable.



**Note:** The end seal is designed to be installed only once; it cannot be removed from the heating cable once installed. Do not use until ready for final installation.

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