

# nVent RAYCHEM FTC-XC FTC Heat Shrinkable Connection Kit Instruction Manual

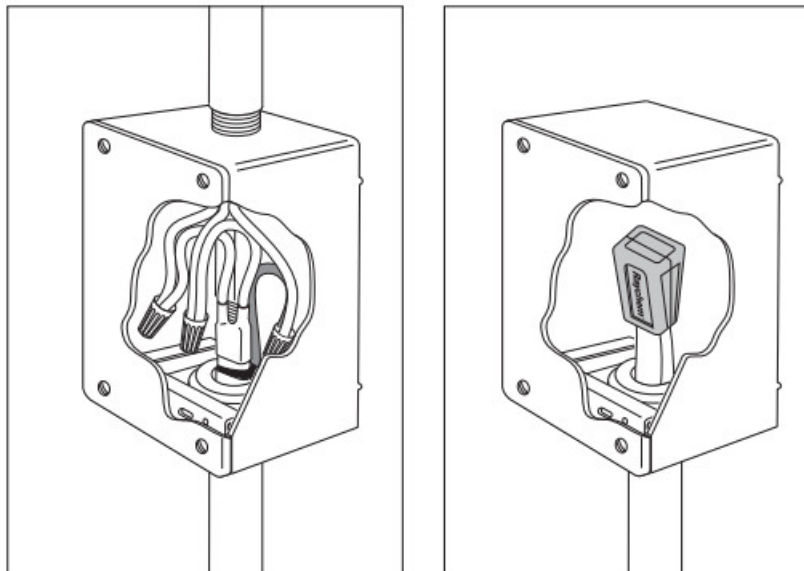
[Home](#) » [nVent RAYCHEM](#) » nVent RAYCHEM FTC-XC FTC Heat Shrinkable Connection Kit Instruction Manual 






## RAYCHEM

FTC-XC

Power Connection and End Seal Kit Installation Instructions



APPROVALS

	718K Pipe Heating Cable, 9J8 6
	Radiant Heating Cable
	Certified with RaySol heating cable

#### Contents

#### [1 DESCRIPTION](#)

#### [2 Heating Cable](#)

#### [Construction](#)

#### [3 Documents / Resources](#)

##### [3.1 References](#)

#### [4 Related Posts](#)

## DESCRIPTION

The nVent RAYCHEM FTC-XC Power Connection and End Seal Kit is for use with nVent RAYCHEM XL-Trace Edge -CR and -CT heating cables installed in conduit or in direct buried pipe applications, and for nVent RAYCHEM RaySol floor warming applications. Materials for one power connection and one end seal are included in this kit. These installation instructions must be used in conjunction with the XL-Trace Edge and RaySol System Installation and Operation Manuals.

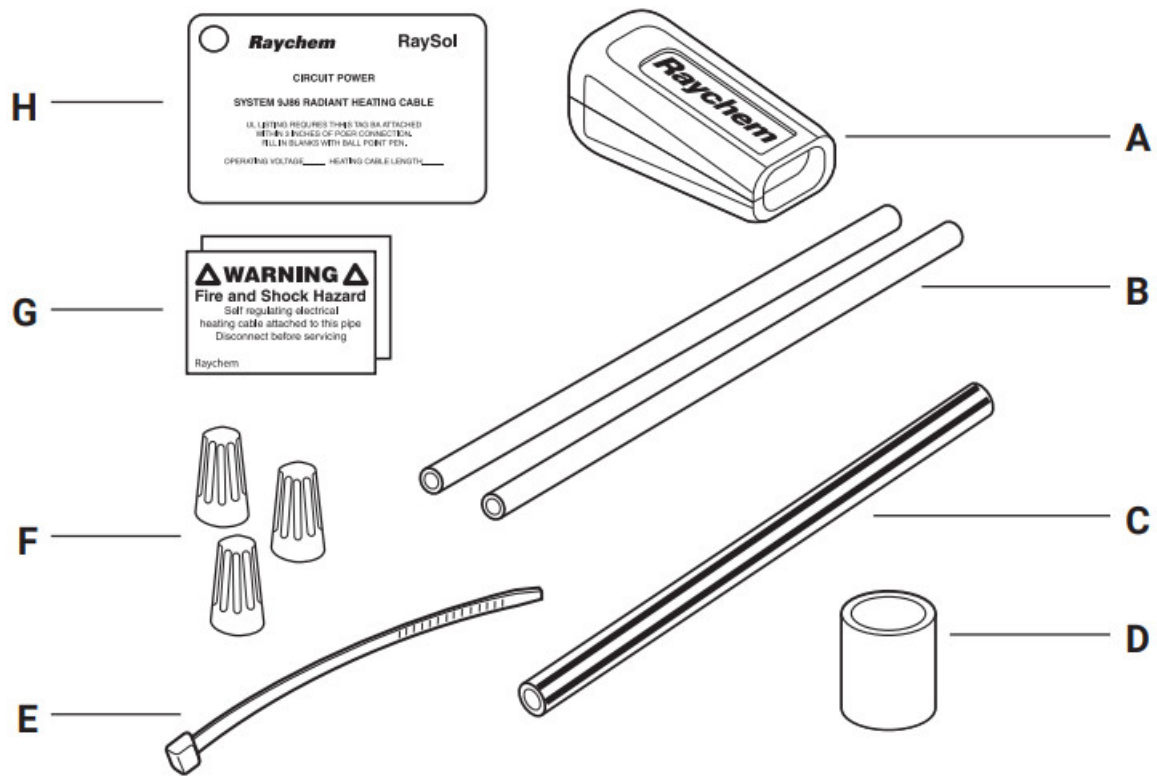
For technical support contact your nVent representative or call nVent at 800-545-6258.

## TOOLS REQUIRED

• Utility knife	• Needle nose pliers
• Diagonal cutters	• Heat gun or propane torch

## ADDITIONAL MATERIALS REQUIRED (not provided in this kit)

- Two UL Listed or CSA Certified junction boxes suitable for the location, with a clearance hole for 1/2 inch conduit or 1/2 inch NPT threaded hub. (For RaySol applications, the power connection end seal may be terminated in a single box, if desired.)



## 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 the installation instructions.

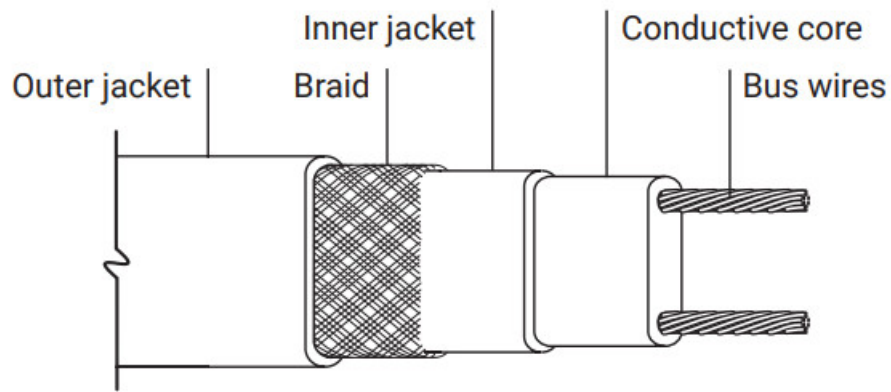
- To minimize the danger of fire from sustained electrical arcing if the heating cable is damaged or improperly installed, and to comply with the requirements of nVent agency certifications, and national electrical codes, ground fault equipment protection must be used. Arcing may not be stopped by conventional circuit breakers.
- Bus wires will short if they contact each other.  
Keep bus wires separated.
- Keep components and heating cable ends dry before and during installation.
- The black heating cable core is conductive and can short. It must be properly insulated and kept dry.
- Component approvals and performance are based on the use of nVent–specified parts only. Do not use substitute parts or vinyl electrical tape.
- Leave these instructions with end user for reference and future use.



## CAUTION:

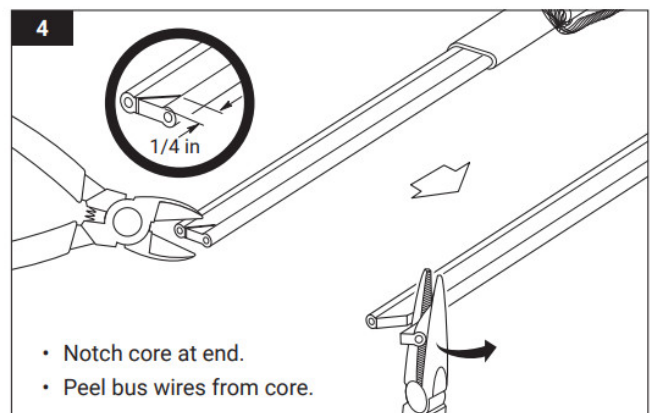
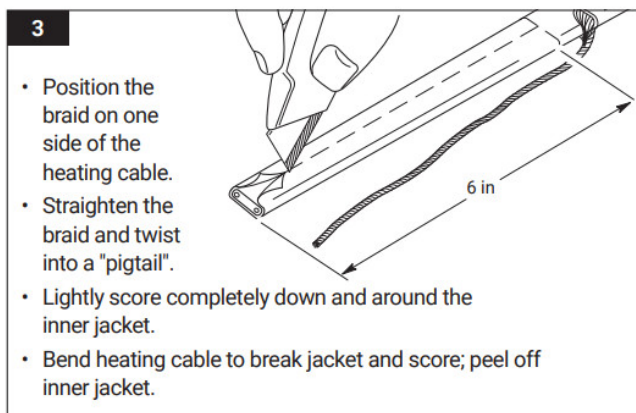
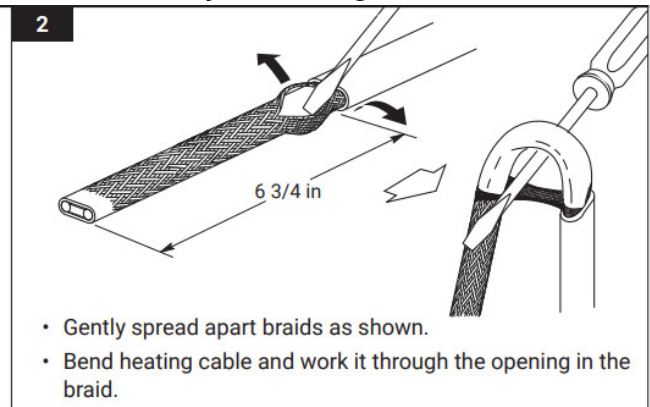
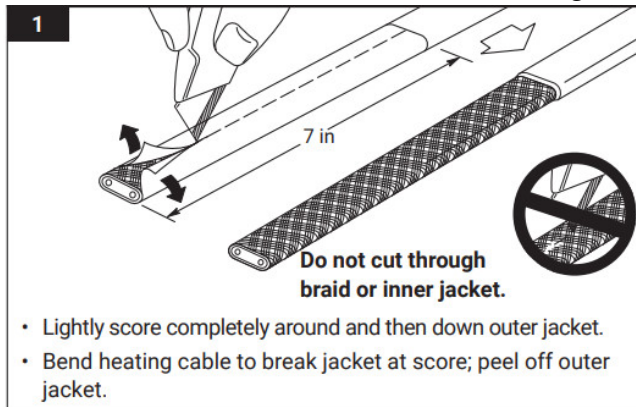
Health Hazard: Overheating heat-shrinkable tubes will produce fumes that may cause irritation. Use adequate ventilation and avoid charring or burning. Consult MSDS RAY3122 for further information. CHEMTREC 24-hour emergency telephone: (800) 424-9300  
Non-emergency health and safety information: (800) 545-6258.

## Heating Cable Construction

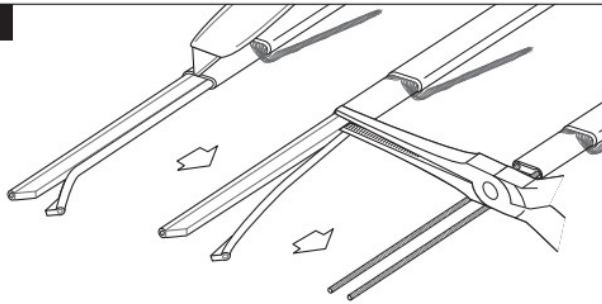


## XL-Trace Edge -CR and -CT RaySol heating cable

### Power Connection Installation for XL-Trace Edge -CR and -CT, and RaySol Heating Cables



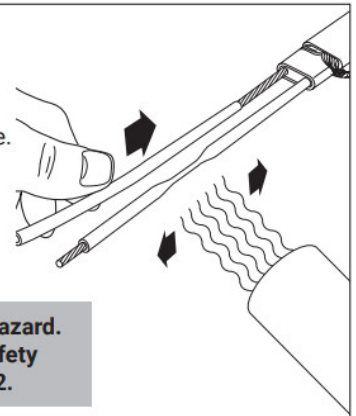
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- Score between bus wires at base jacket.
- Bend core to break free at base jacket.
- Peel core and any remaining material from bus wires.

6

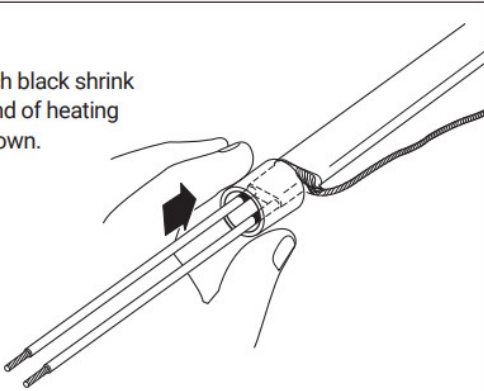
- Slide 5 1/2 inch black shrink tubes into place against conductive core.
- Shrink tubing by moving heat source continuously from side to side.



**CAUTION: Health Hazard.**  
Consult material safety data sheet RAY3122.

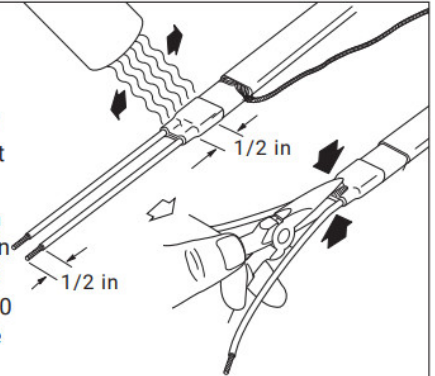
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- Center 1 inch black shrink tube over end of heating cable as shown.



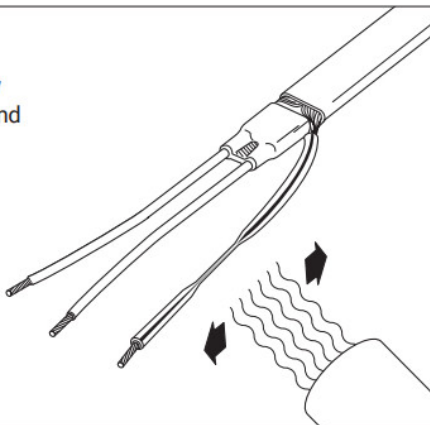
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- Heat tube evenly until it shrinks and adhesive flows out both ends.
- Immediately pinch with pliers between wires while tube is still hot. Hold for 10 seconds to ensure seal.

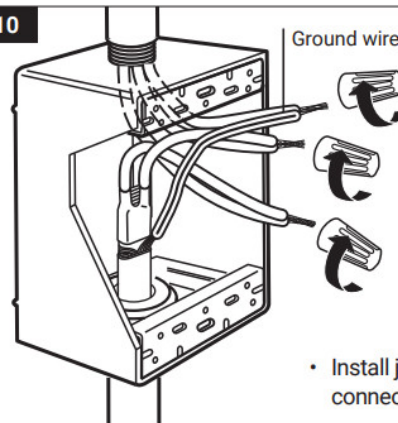


9

- Slip green/yellow tube over braid and shrink.

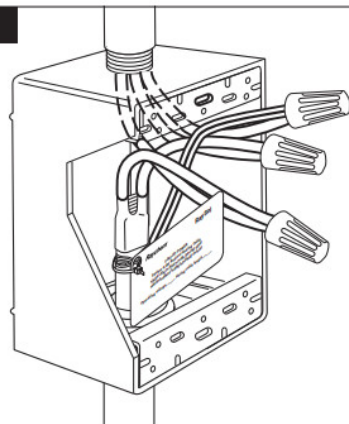


10



- Install junction box and make connection as shown.

11



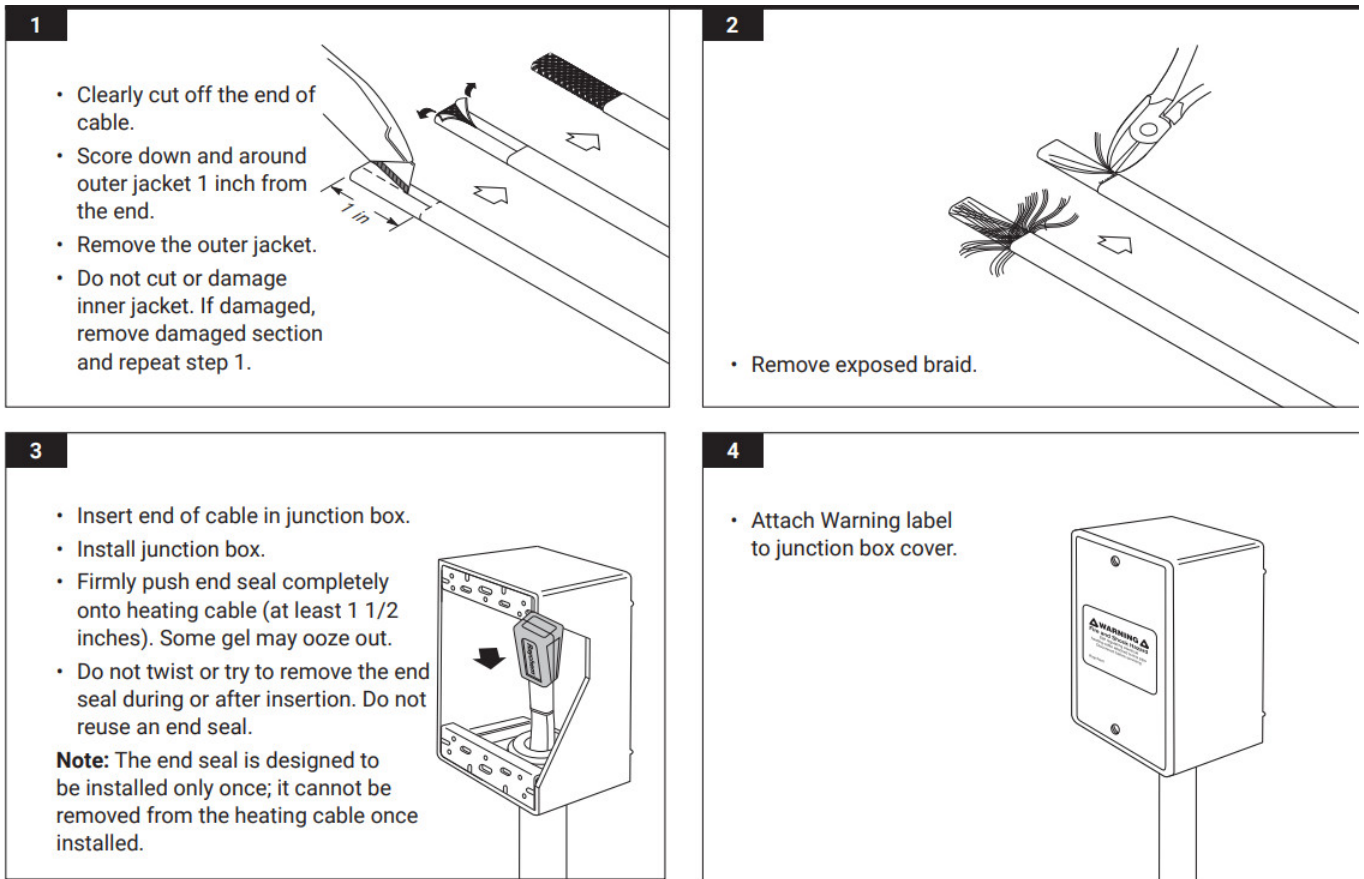
- Attach circuit tag to heating cable using cable tie provided (RaySol only).

12

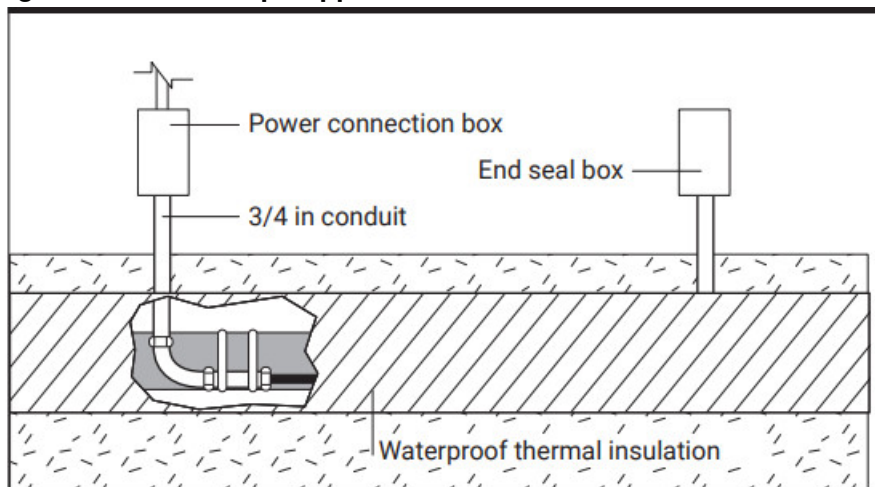


- Attach warning label on junction box cover.

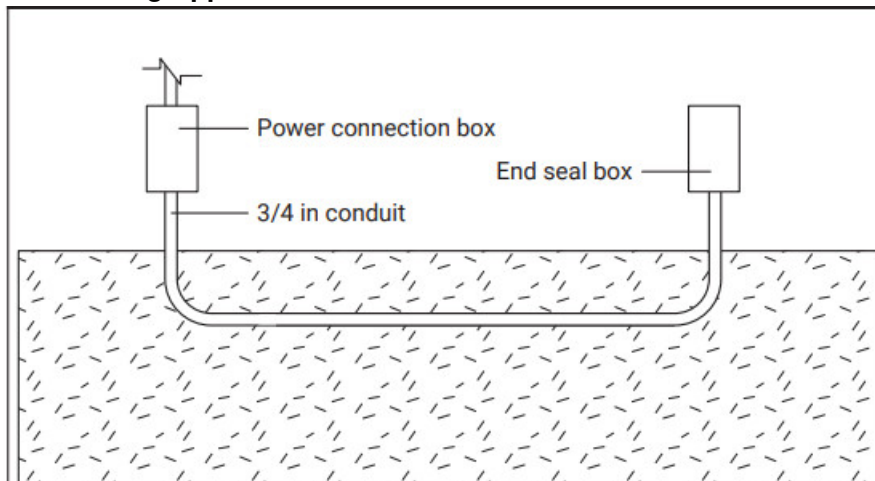




### Typical XL-Trace Edge Direct Buried Pipe Application



### Typical RaySol Floor Warming Application



<b>North America</b> Tel +1.800.545.6258 Fax +1.800.527.5703 <a href="mailto:thermal.info@nVent.com">thermal.info@nVent.com</a>	<b>Europe, Middle East, Africa</b> Tel +32.16.213.511 Fax +32.16.213.604 <a href="mailto:thermal.info@nVent.com">thermal.info@nVent.com</a>
<b>Asia Pacific</b> Tel +86.21.2412.1688 Fax +86.21.5426.3167 <a href="mailto:cn.thermal.info@nVent.com">cn.thermal.info@nVent.com</a>	<b>Latin America</b> Tel +1.713.868.4800 Fax +1.713.868.2333 <a href="mailto:thermal.info@nVent.com">thermal.info@nVent.com</a>



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RAYCHEM-IM-H53514-FTCP-EN-2111  
[nVent.com/RAYCHEM](http://nVent.com/RAYCHEM)

## Documents / Resources

	<a href="#">nVent RAYCHEM FTC-XC FTC Heat Shrinkable Connection Kit</a> [pdf] Instruction Manual FTC-XC FTC Heat Shrinkable Connection Kit, FTC-XC, FTC Heat Shrinkable Connection Kit, Shrinkable Connection Kit, Connection Kit
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## References

- [🔥 Electrical Heat Tracing | Heat Tracing | nVent RAYCHEM](#)