

# THERMON PCA-COM Power Connection and End Termination Kit Installation Guide

[Home](#) » [THERMON](#) » THERMON PCA-COM Power Connection and End Termination Kit Installation Guide 

## Contents

- [1 THERMON PCA-COM Power Connection and End Termination Kit](#)
- [2 Product Information](#)
- [3 Kit Contents](#)
- [4 Installation Precautions](#)
- [5 Dimensions](#)
- [6 Power Connection](#)
- [7 Trace Heater Take-off for FLX and HSX](#)
- [8 Documents / Resources](#)
  - [8.1 References](#)



**THERMON PCA-COM Power Connection and End Termination Kit**



## Product Information

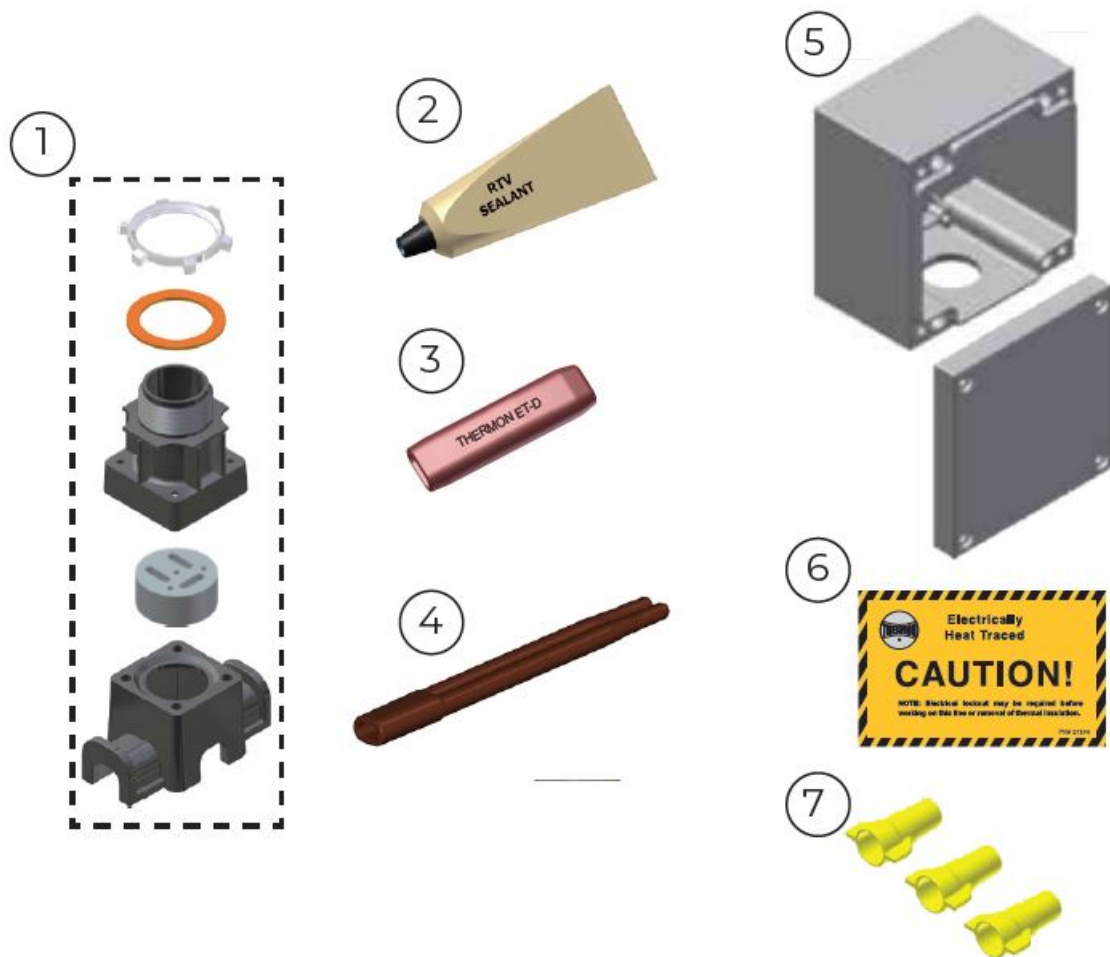
The PCA-COM Power Connection and End Termination Kit is an installation kit for power connection, in-line splice connection, T-splice connection, or end termination applications for FLX and HSX Heat Tracing. The kit includes an expediter assembly, locknut, gasket, NPT threaded cap, grommet, expediter base, RTV tube, end cap ET-6, TBX-3L power connection boot, junction box with cover, end termination caution label, wire nut, and aluminium foil (for HSX cable only). The kit is designed to be used with up to three trace heaters and comes with all necessary components for installation.

The following installation procedures are suggested guidelines for the installation of Thermon's PCA-COM connection systems. They are not intended to preclude the use of other methods and good engineering or field construction practices.

## Receiving, Storing and Handling

1. Inspect materials for damage incurred during shipping.
2. Report damages to the carrier for settlement.
3. Identify parts against the packing list to ensure the proper type and quantity have been received.
4. Store in a dry location.

## Kit Contents



Item	Quantity	Description
1	1	Expediter Assembly Locknut Gasket 1" NPT Threaded Cap Grommet Expediter Base
2	1	RTV Tube
3	1	End Cap ET-6
4	1	TBX-3L Power Connection Boot
5	1	Junction Box with Cover
6	1	End Termination Caution Label
7	3	Wire Nut

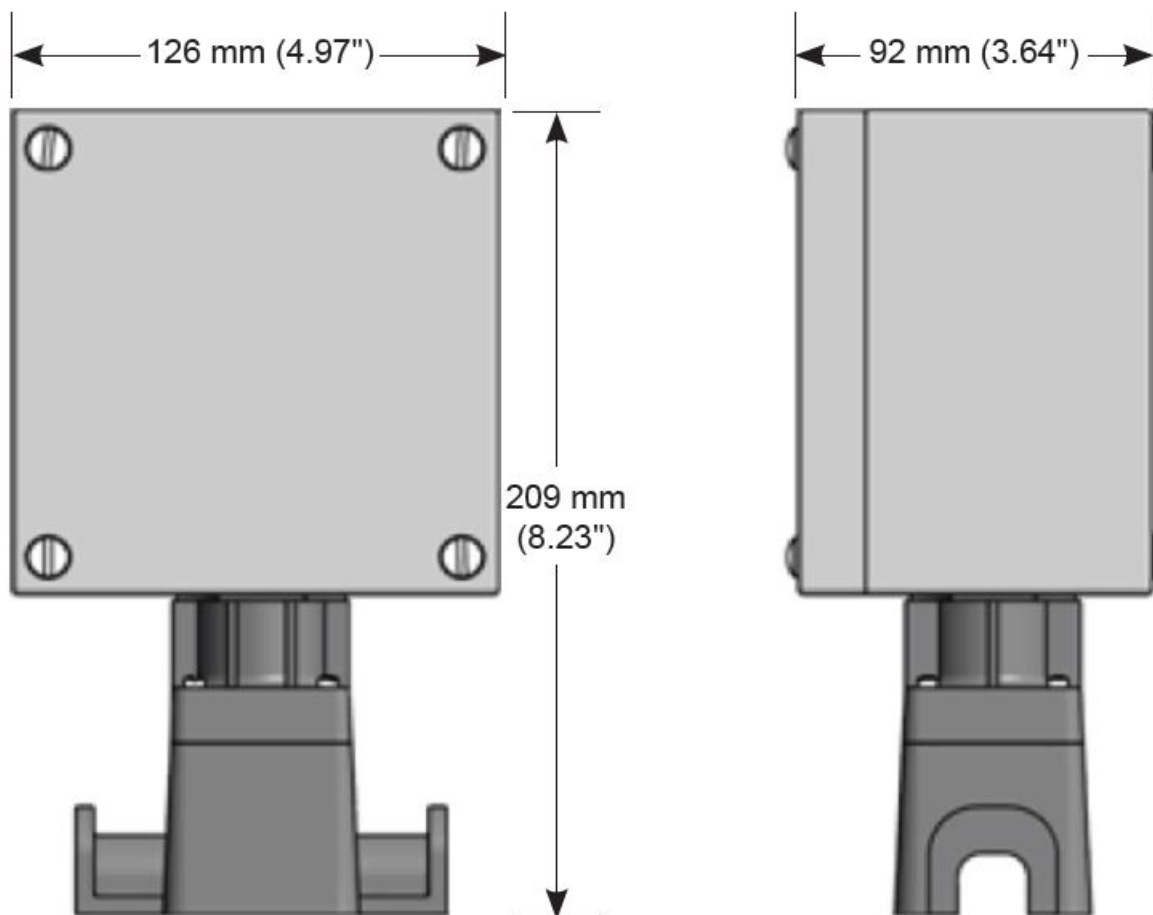
## Installation Precautions

- To minimize the potential for arcing and fire caused by product damage or improper installation use ground-fault protection. The National Electrical Code (NEC) and Canadian Electrical Code (CEC) require ground-fault

protection of equipment for each branch circuit supplying electric heat tracing.

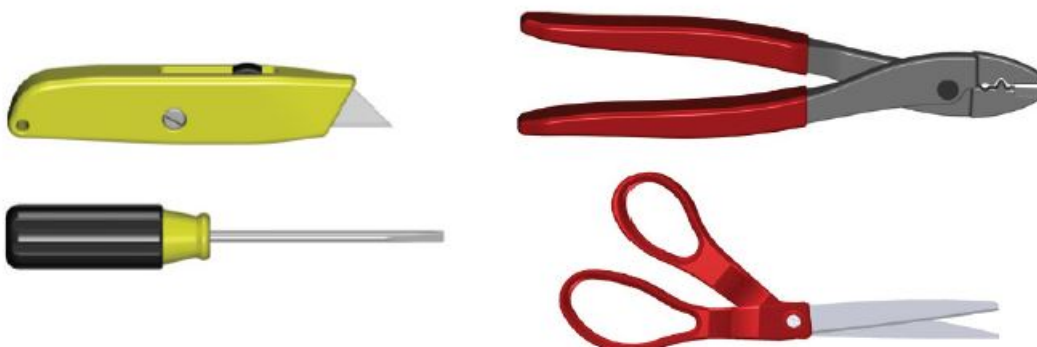
- Installation must comply with Thermon requirements and be installed in accordance with the NEC, CEC, or any other applicable national and local codes.
- De-energize all power sources before opening enclosure.
- Keep ends of trace heater and kit components dry before and during installation.
- Component approvals and performance ratings are based on the use of Thermon specified parts only. User supplied power connection fittings must be listed or certified for intended use.
- The kit instructions should be used in conjunction with the installation instructions for the trace heater and other accessory items.

## Dimensions



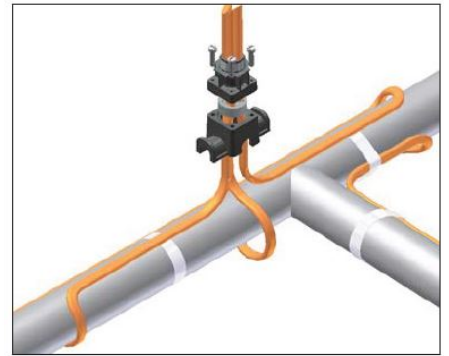
Certifications/Approvals

## Tools Required

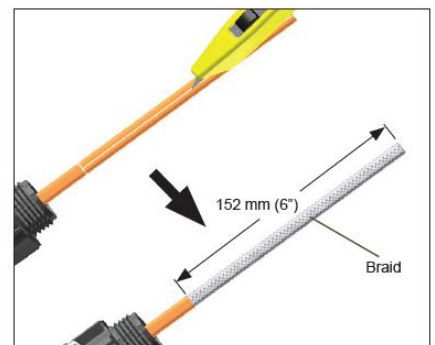
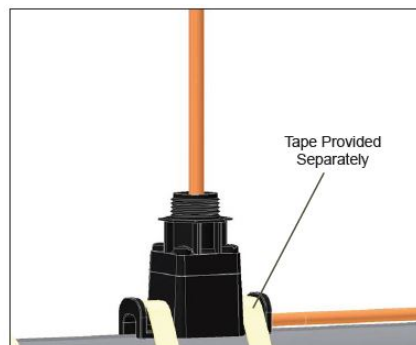


## Power Connection

### Power Connection for FLX and HSX

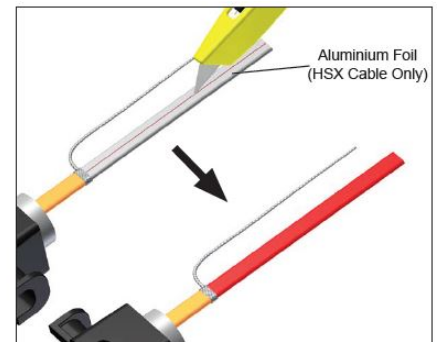


1. For one, two or three trace heaters. Insert trace heater into expediter, grommet, and NPT threaded cap.
2. Two trace heaters
3. Three trace heaters.

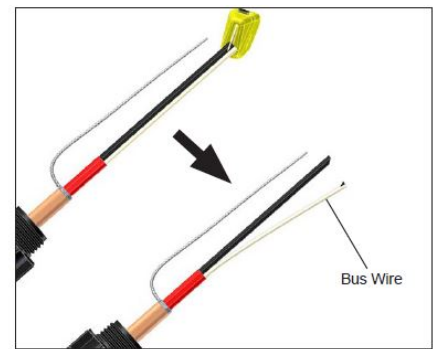
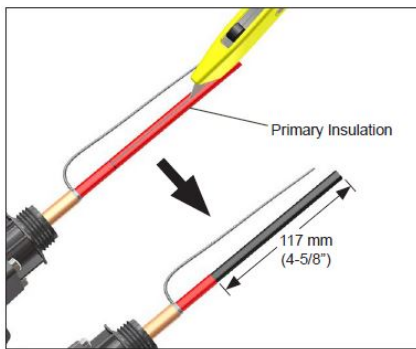


4. Slide expediter toward pipe and secure cap to base with the captive screws.
5. Mount expediter to pipe using two (2) circumferential bands of 13 mm ( $\frac{1}{2}$ ") wide FT-1L tape.
6. Cut and remove overjacket.

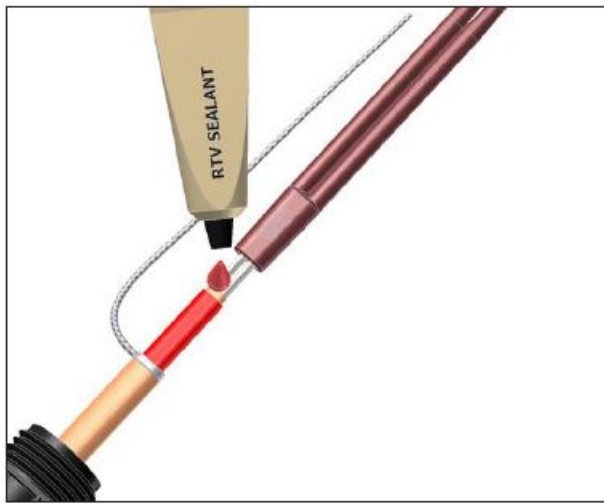
Do not cut metallic braid.



7. Separate braid strands at edge of overjacket and pull trace heater through opening.
8. Twist braid into a pigtail. Trim ends of braid.
9. Gently score the aluminium foil layer and peel away. (HSX trace heaters cables only).

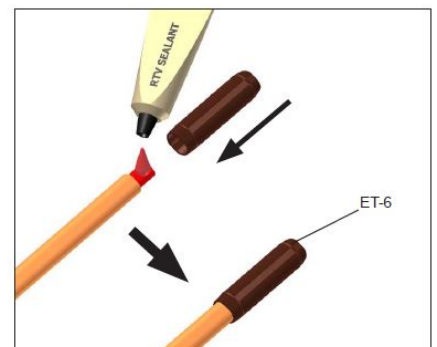
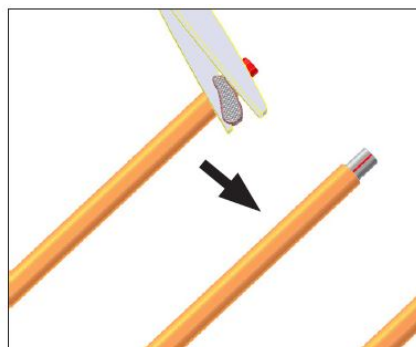
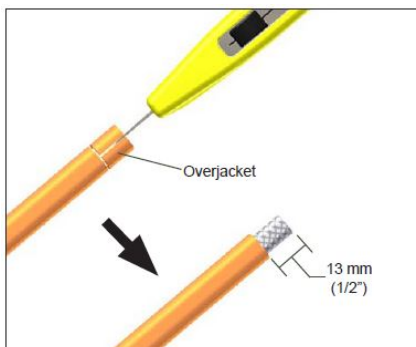


10. Cut and remove primary insulation jacket
11. Skive outside of black matrix.  
Do not cut bus wire strands.
12. Cut V-Notch in matrix and pull bus wires from matrix. Cut and remove center matrix.



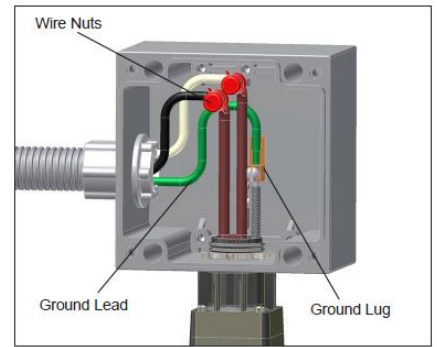
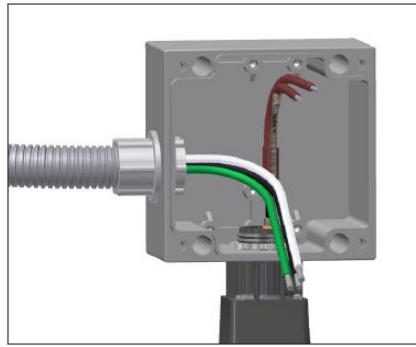
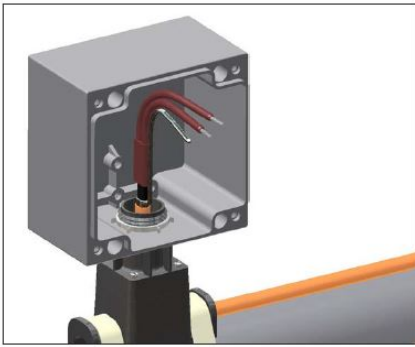
13. Apply a liberal amount of RTV sealant to trace heater.
14. Slide boot onto the end of the trace heater.

#### End Termination for FLX and HSX



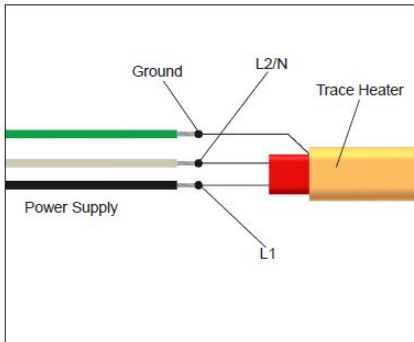
15. Cut and remove overjacket
16. Trim ends of braid. Gently score the aluminium foil layer (HSX tracer only) and peel away.
17. Apply a liberal amount of RTV sealant to trace heater and inside end cap. Slide end cap onto end of trace heater.

#### Mount Junction Box and Make Connections

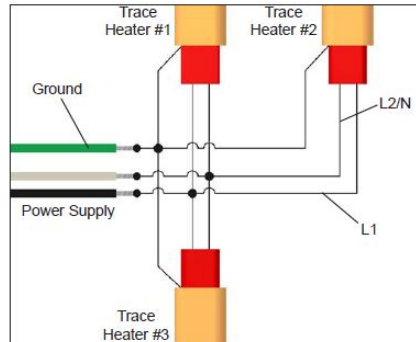


18. Mount junction box on expediter using gasket and locknut provided.
19. Install power connection fittings (supplied by others) and pull in power and ground wires.
20. Complete system wiring (components supplied by others). See typical wiring details below.

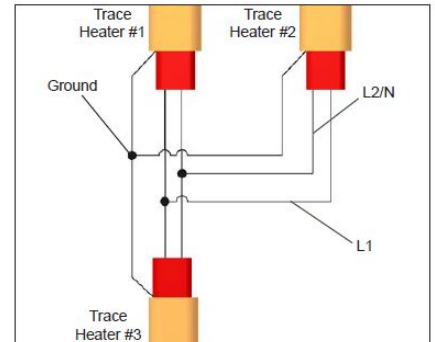
### Typical Wiring Details



Power Connection-1 Trace heater.

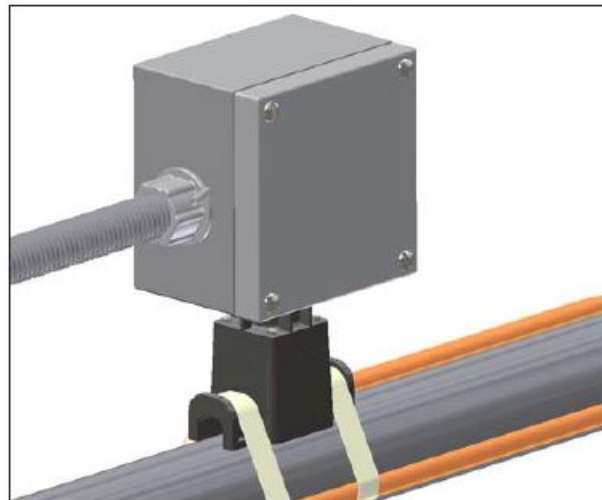


Power Connection-3 Trace heaters.



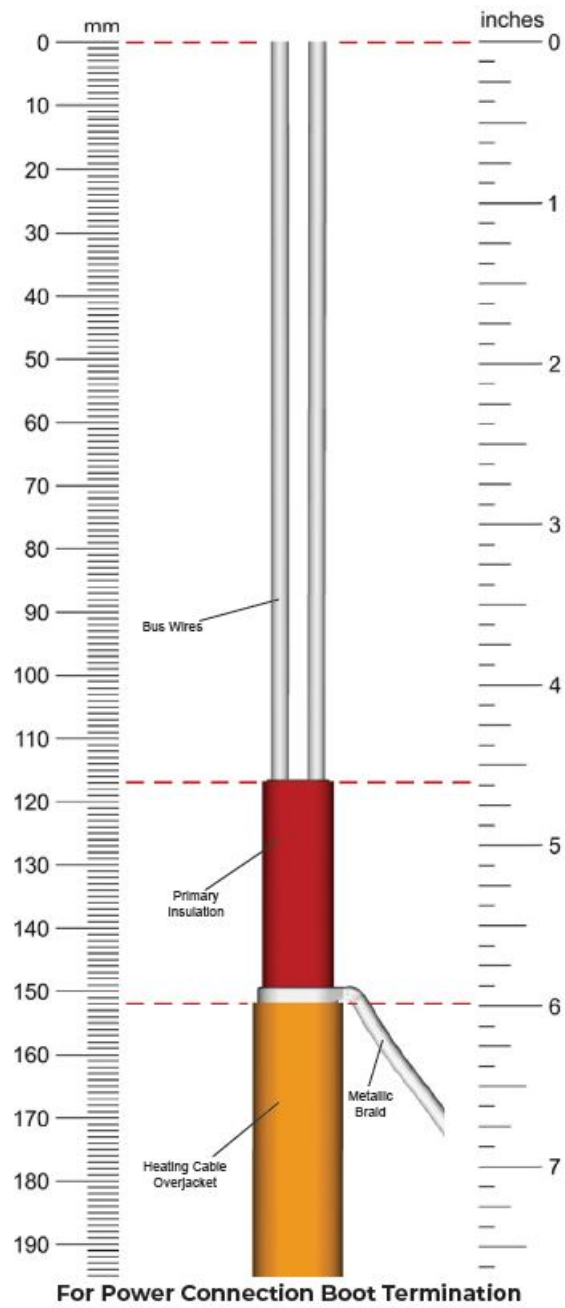
In-Line Splice and T-Splice

21. Install junction box lid using 4 captive screws.



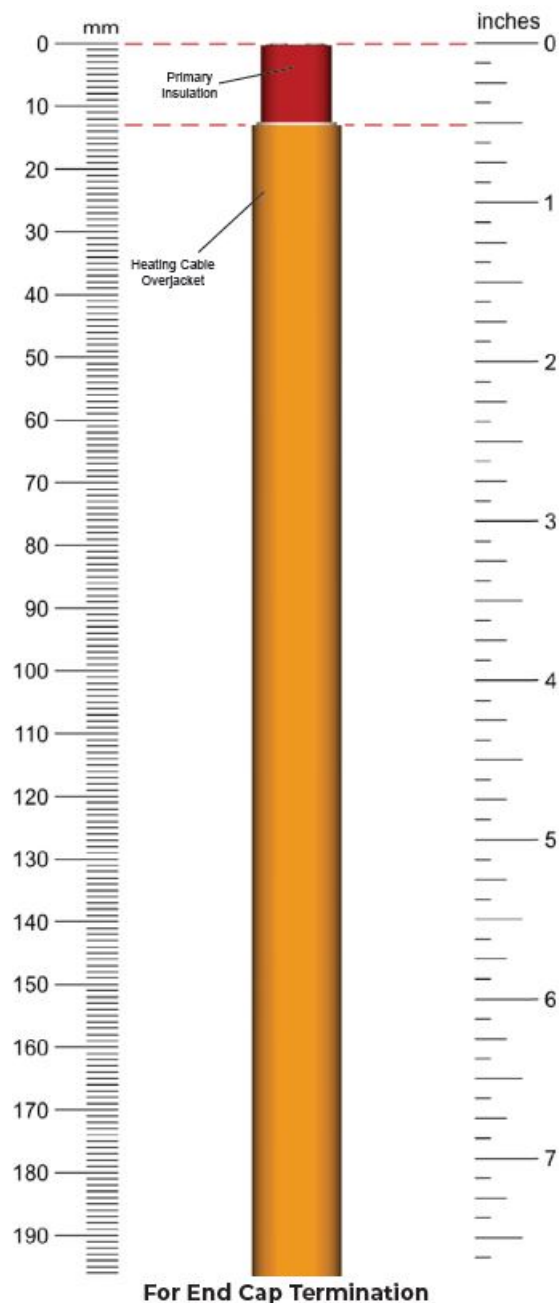
### Trace Heater Take-off for FLX and HSX





**For Power Connection Boot Termination**





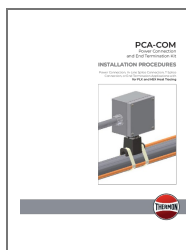
**NOTE:** Images may not be printed to scale.

Corporate Headquarters: 7171 Southwest Parkway • Building 300, Suite 200 • Austin, TX 78735 • **Phone:** 512-690-0600

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## Documents / Resources



[THERMON PCA-COM Power Connection and End Termination Kit](#) [pdf] Installation Guide  
PCA-COM Power Connection and End Termination Kit, PCA-COM, Power Connection and End Termination Kit, Connection and End Termination Kit, End Termination Kit, Termination Kit

## References

-  [World Leader in Industrial Process Heating | Thermon](#)

Manuals+.