PETK
Power & End Termination Kit

INSTALLATION PROCEDURES

- PETK-1 for BSX, RSX, VSX
- PETK-2 for KSX, HTSX
- PETK-3 for HPT, FP
- PETK-3-ECM for HPT, FP
- PETK-3-ZT for HPT, FP

Order separately to be used in conjunction with Thermon connection kits
PETK INSTALLATION PROCEDURES

The following installation procedures are guidelines for the installation of the Power and End Termination Kit. For translations other than English and local language translation provided here, please contact Thermon. The English language installation procedure shall govern.

**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 has been received.
4. Store in a dry location.

**PETK Power and End Termination Kits (per cable)**

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**Kit Contents . . .**

1. RTV Tube
2. Power Connection Boot
3. End Cap
4. Tape Strip (PETK-3 Only)
5. End Termination Caution Label
6. Grommet (For PETK-3 Terminator kits only)
7. Ground Sleeve

**Tools Required . . .**

- De-energize all power sources before opening enclosure.
- Keep ends of heating cable and kit components dry before and during installation.
- Minimum bending radius of heating cable is 32 mm (except HPT is 57 mm and FP is 19 mm).
- Individuals installing these products are responsible for complying with all applicable safety and health guidelines. Proper Personal Protective Equipment (PPE) should be utilized during installation. Contact Thermon if you have any additional questions.

**PETK Certifications/Approvals . . .**

- FMG 10.0022X Ex eb IIC T4-T6, Ex tb IIIC T135°C-T85°C
- 1725 II 2 GD Ex eb IIC T4-T6, Ex tb IIIC T135°C-T85°C, FM 10ATEX0058X

**Note:**

These sets have been evaluated as components of Thermon’s Approved connection kits, such that the area use ratings depend on the rating of the connection kits.

Wire pins may be required as per client/project specification (order seperately).
**Step 1: Remove Heating Cable Overjacket and Separate Metallic Braid to Form Pigtail**

1a. Cut and remove heating cable overjacket.  
**Do not cut metallic braid.**

1b. Separate braid strands at edge of overjacket and pull cable through opening in braid.

1c. Twist braid into a pigtail. Trim ends of braid.

**Step 2: Matrix Removal for BSX, RSX, HTSX, KSX, and VSX Cables**

2a. Cut and remove primary insulation jacket (BSX and RSX cables only).

2b. Cut a 4mm strip of conductive matrix between the conductors.  
**Do not cut bus wire strands.**

2c. Cut and remove the 4mm matrix strip.
Step 2: Heating Element Removal for HPT and FP Cables

2a. Cut and remove primary insulation jacket.

NOTE: Bus connection must be no more than 50 mm (2") from pipe as addressed in connection kit instructions.

2b. Cut and remove fiberglass overlay and heating element. Push any remaining heating element wire under the primary insulation jacket.

2c. Cut and remove pairing jacket.

Do not cut bus wire insulation.

Step 3: Install Power Boot on Heating Cables

3a. Apply RTV sealant to cable to cover distance of at least 3mm and slide boot onto the end of the cable.

3b. Slide boot onto the end of the cable and green/yellow ground sleeve over twisted braid. Expose 13mm (0.5") of bus wire.

3c. Crimp conductor wire pins on each conductor and on twisted braid if required as per client/project specification (order separately).
**Step 4: End Termination for BSX, RSX, HTSX, KSX, and VSX Cables**

4a. Cut and remove heating cable overjacket.

4b. Trim away exposed braid from cable.

4c. Fill the end cap with RTV sealant and apply a circumferential bead to cable [minimum of 3 mm (0.12") wide]. Slide end cap onto end of cable.

**Step 4: End Termination for HPT and FP**

4a. Trim the cable 75mm (3") from the bus connection.

4b. Cut and remove overjacket and trim away exposed braid from cable.

4c. Cut and remove primary insulation jacket.

4d. Cut and remove fiberglass overlay and heating element. Push any remaining heating element wire under the primary insulation jacket.

4e. Cut and remove pairing jacket. Stagger cut one of the bus wires. **Do not cut bus wire strands.**

4f. Tape bus wires individually and then together. Continue taping to cover overjacket. Fill the end cap with RTV sealant and apply a circumferential bead to cable [minimum of 3 mm (0.12") wide]. Slide end cap onto end of cable.
Cable Take-off for BSX, RSX, HTSX, KSX and VSX

For Power Connection Boot Termination

For End Cap Termination

NOTE:
Images may not be printed to scale.
Cable Take-off for HPT and FP Heating Cables

For Power Connection Boot Termination

For End Cap Termination

NOTE:
Bus connection must be no more than 50 mm (2") from pipe as addressed in connection kit instructions.

NOTE:
Images may not be printed to scale.