

Terminator™ ZP-Ambient-XP

Thermostat Connection Kit

INSTALLATION PROCEDURES



For Ambient Sensing Thermostat Connection Applications
(Pilot Control or Direct Switching of 1-2 Heating Cables)



Terminator™ ZP-Ambient-XP

The following installation procedures are suggested guidelines for the installation of the Terminator ZP-Ambient-XP Kit. For translations other than English and local language translation provided here, please contact Thermon. The English language installation procedure shall govern.

Kit Contents



Item	Quantity	Description
1	1	Expediter Assembly Support Cap with O-Ring Threaded Grommet Compressor Grommet Support Base with O-Ring
2	1	Junction Box Lid
3	1	Junction Box Base with O-Ring
4	1	Terminal Blocks w/ DIN Rail
5	1	Junction Box Lid Cord
6	1	Nut
7	1	Banding Guide
8	2	Blind Plug
9	1	Ambient Temperature Sensor
10	1	Conductor Wire Pin (per cable)
11	1	Braid Wire Pin (per cable)
12	1	Ground Sleeve (per cable)
13	1	Banding

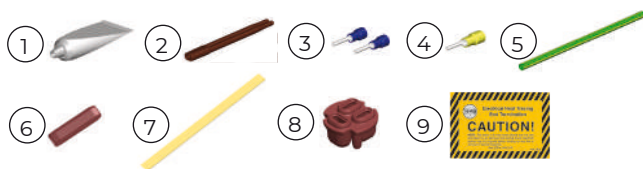
Order Separately

PETK Power and End Termination Kits (per cable)

PETK-1 for RSX, VSX-HT, BSX

PETK-2 for USX, KSX, HTSX

PETK-3 for HPT, FP

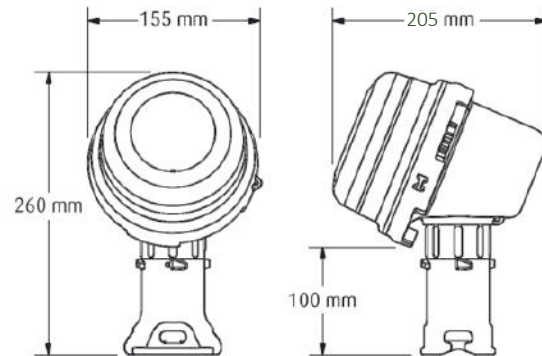


Item	Quantity	Description
1	1	RTV Tube
2	1	Power Connection Boot
3	2	Conductor Wire Pins
4	1	Braid Wire Pin
5	1	Ground Sleeve
6	1	End Cap
7	1	Tape Strip (PETK-3 only)
8	1	GRW-G Grommet (PETK-3 only)
9	1	End Termination Caution Label

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 dry location.

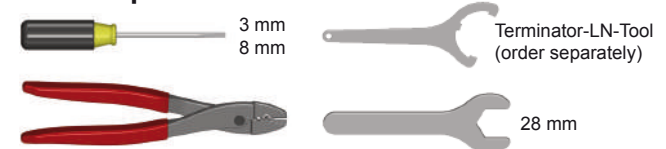
Dimensions



Warnings

- Due to the risk of electrical shock, arcing and fire caused by product damage or improper usage, installation or maintenance, a ground-fault protection device is required.
- Installation must comply with Thermon requirements (including form PN 50207U for Ex systems) and be installed in accordance with the regulations as per the norm EN IEC 60079-14 for hazardous areas (where applicable), or any other applicable national and local codes.
- Component approvals and performance ratings are based on the use of Thermon specified parts only.
- De-energize all power sources before opening enclosure.
- Avoid electrostatic charge. Clean only with a damp cloth.
- 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).
- The thermostat must be protected with an IECEx/ATEX certified max. 16A circuit breaker (fuse) on power lead.
- 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 TC-E if you have any additional questions.

Tools Required



Specific Conditions of Use

Avoid electrostatic charge. Clean only with damp cloth.

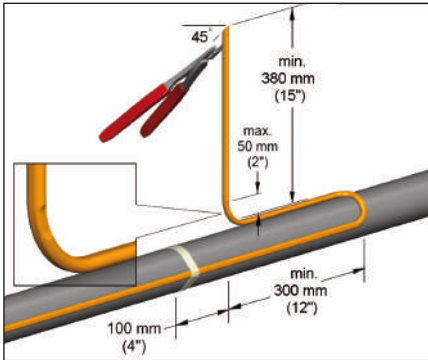
Certifications/Approvals

IP66 -50°C ≤ Ta ≤ +50°C

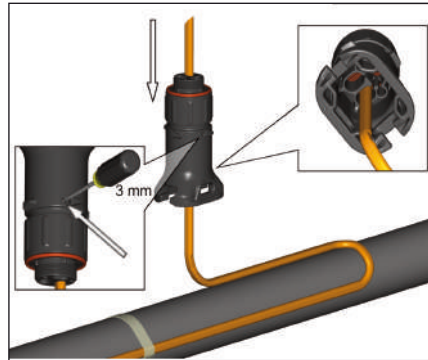
Ordinary & Hazardous Locations

IEC IECEx FMG 10.0022X Ex eb mb IIC T6...T4 Gb

CE 0344 Ex II 2 G Ex eb mb IIC T6...T4 Gb, FM 10ATEX0058X

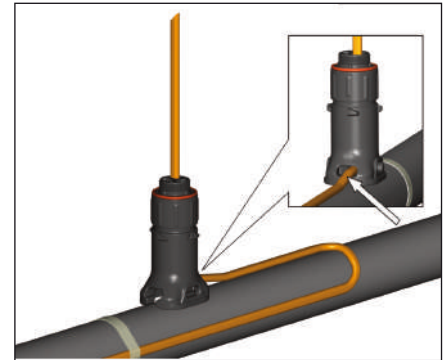


1. Locate bus connection (HPT and FP only) and cable as shown. Cut end of cable at angle to aid in piercing grommet. Leave additional cable for expansion loop. See page 5 for multiple cable installation tips.



2. Insert cable into expediter. If mounted on bottom or side of pipe, punch out weep hole.

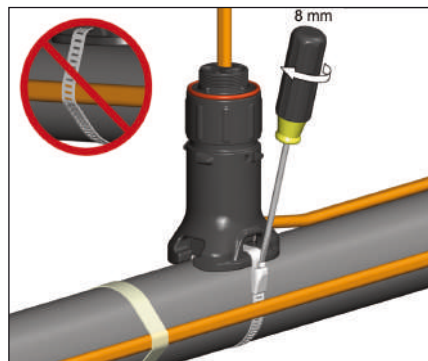
Note: For HPT and FP cable, exchange grommet in Terminator with GRW-G provided in PETK-3.



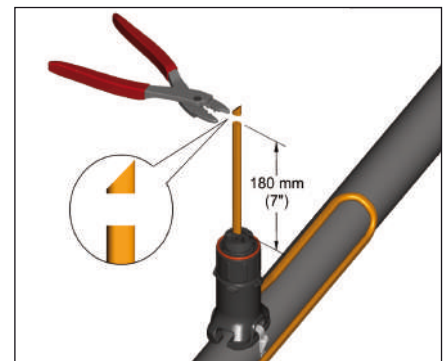
3. Slide expediter toward pipe and route cable through support base entry.



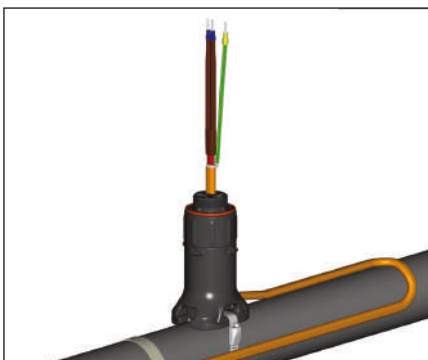
4. Insert banding guide into expediter and snap into place.



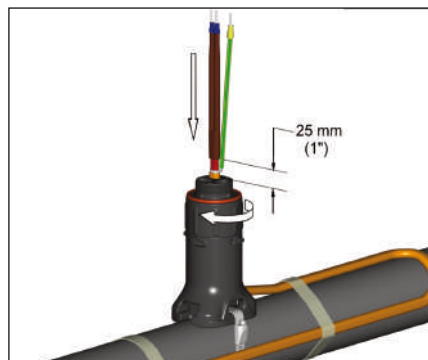
5. Mount expediter to pipe using pipe band. Do not band over cable.



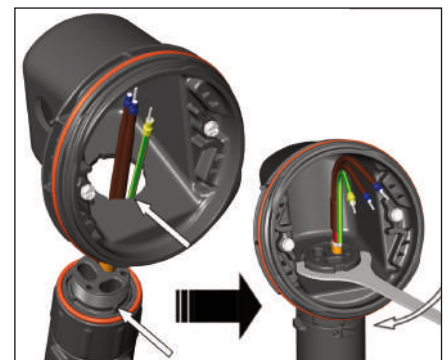
6. Cut off end of cable.



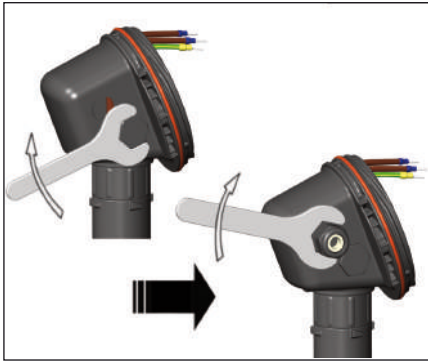
7. Terminate cable with appropriate PETK termination kit. Refer to PETK installation instructions.



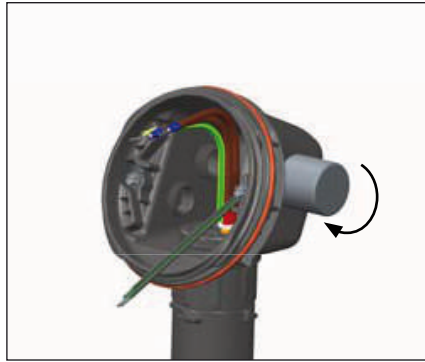
8. Push excess cable back through expediter. Tighten cap securely. Tape cable expansion loop to pipe.



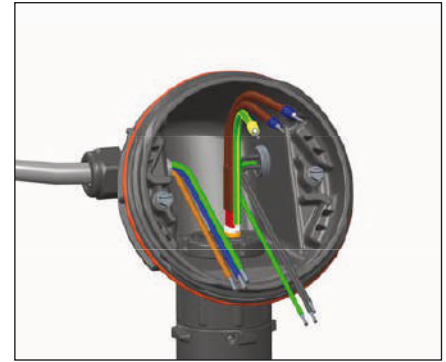
9. Mount junction box base on expediter. Make sure to align slots to properly orient junction box base. Tighten nut with Terminator-LN-Tool. If mounting horizontally, threaded gland holes must face downward.



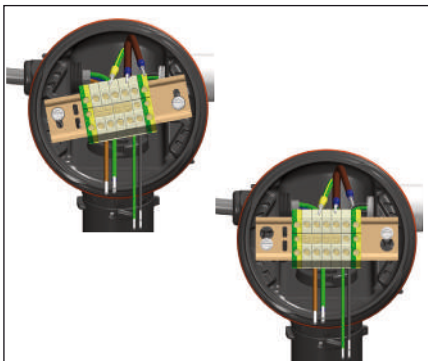
10. Install M25 power gland (order separately) and M25 blind plug. For in-line splice, T-splice, or end termination, install additional M25 blind plug (order M25-B-EXE separately) instead of M25 power gland.



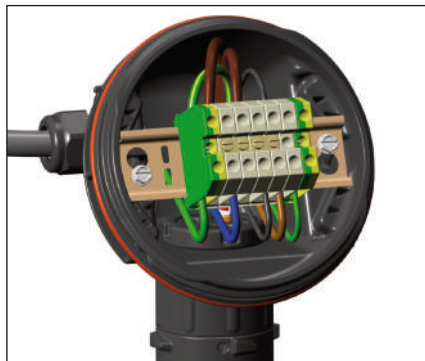
11. Install ambient temperature sensor.



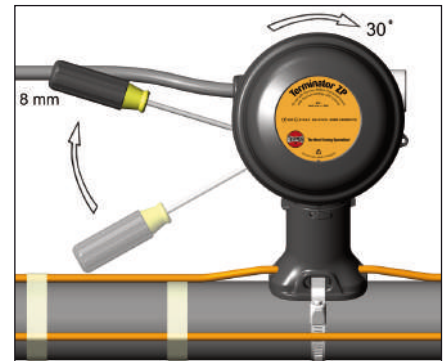
12. Install power cable.



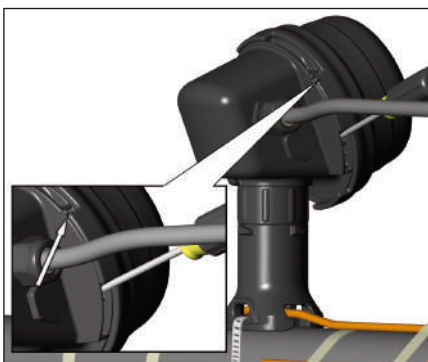
13. Install quick mount terminal blocks and tighten screws (if necessary).



14. Complete system wiring. Terminal set screws shall be tightened to a torque value of 1.4 Nm (12.4 lb-in). See page 4 for wiring details.

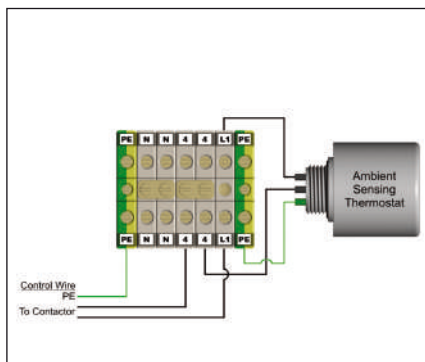


15. Install junction box lid and twist hand tight. Insert screwdriver into ratchet slots located on side of junction box base. Lid will rotate 30°.

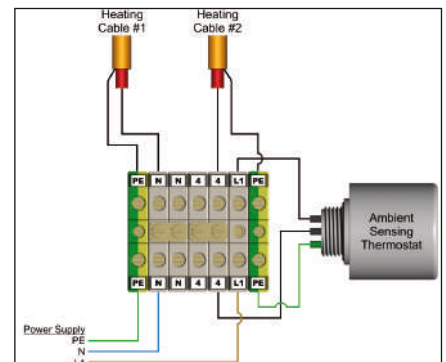


16. Lid latch mechanism fully engaged. To remove lid, repeat step 15 but in the opposite direction.

Wiring Details



Pilot Control



Direct Cable Switching (2 Heating Cables)

