

Terminator™ ZP-R-WP Connection Kit

INSTALLATION PROCEDURES



For Use With TESH and TES(X)L
Series Constant Watt Heating Cables



The Heat Tracing Specialists®

Terminator™ ZP-R-WP

The following installation procedures are suggested guidelines for the installation of the Terminator ZP-R-WP 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 dry location.

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 & M25 Dust Cap |
| 4 | 1 | Nut |
| 5 | 1 | Banding |
| 6 | 1 | Terminal Block and Bridge (separately) |
| 7 | 1 | Junction Box Cord |
| 8 | 1 | Blind Plug |
| 9 | 1 | Bracket |
| 10 | 3 | Screws |
| 11 | 3 | Washers |

Order Separately . . .

PETK Power and End Termination Kits (per cable)

- PETK-5 for direct connection
 PETK-10 & 11 for cold lead connection

INSTALLATION PROCEDURES

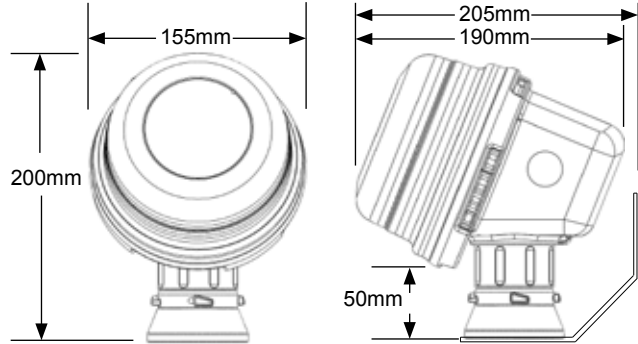
Order Separately . . .

IEK Insulation Entry Kit (per cable)

IEK-TES-1 OR 2 for TESH and TES(X)L



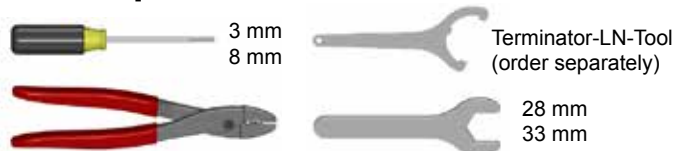
Dimensions . . .



Warnings . . .

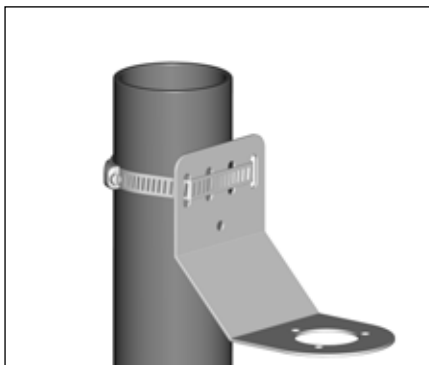
- Due to the risk of electrical shock, arcing and fire caused by product damage or improper usage, installation or maintenance, a ground-fault protection device is required.
- Installation must comply with Thermon requirements (including form PN 50207U for Ex systems) and be installed in accordance with 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 five (5) times the cable outer diameter.
- 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.

Tools Required . . .

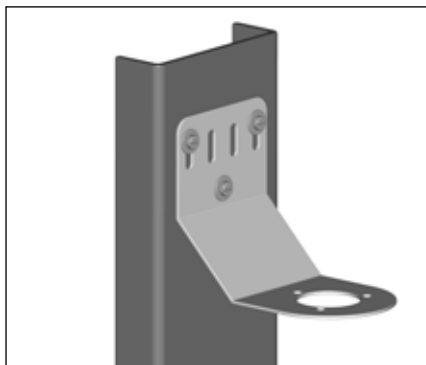


Certifications/Approvals . . .

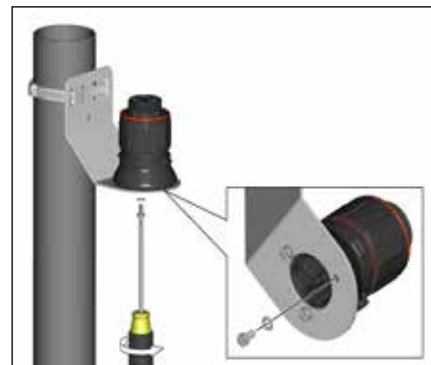
IP66
 -60°C ≤ Ta ≤ +55°C
 Ordinary & Hazardous Locations
 CE 1725 Ex II 2 GD Ex eb IIC T4-T6, Ex tb IIIC T135°C-T85°C FM10ATEX0058X



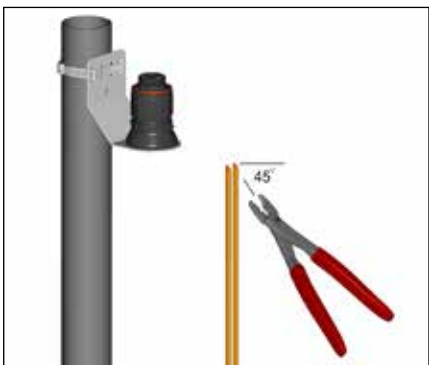
1a. Mounting Method 1: Secure wall mount bracket to mounting surface using pipe band provided with kits.



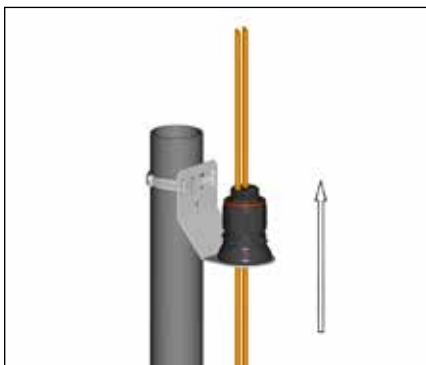
1b. Mounting Method 2: Secure wall mount bracket to mounting surface using customer supplied screws, flat washers, and nuts.



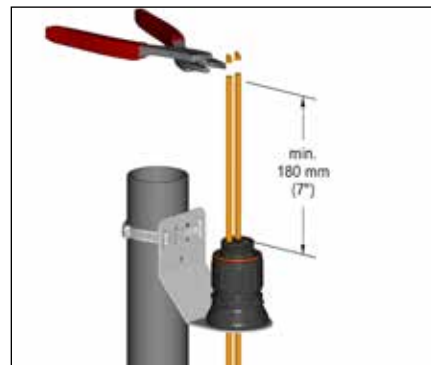
2. Mount expeditor to bracket using M5 x 8 mm screws and M5 lock washers.



3. Cut end of cable at angle to aid in piercing grommet. Leave additional cable for expansion as needed. Slide insulation entry kit (if applicable) over the cable.



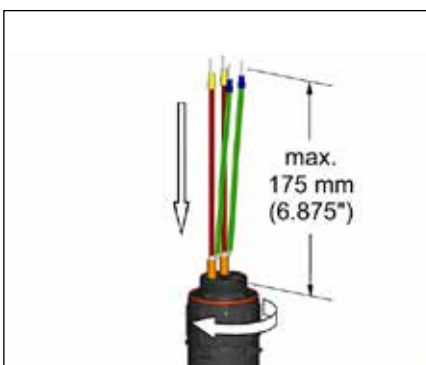
4. Insert cable into expeditor.



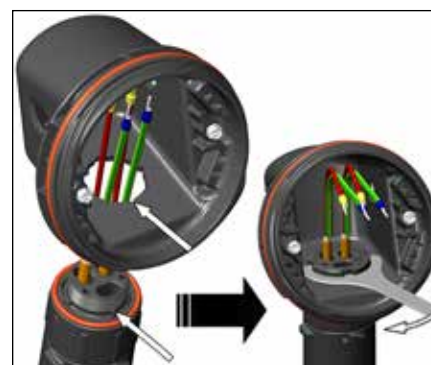
5. Cut off end of cable.



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



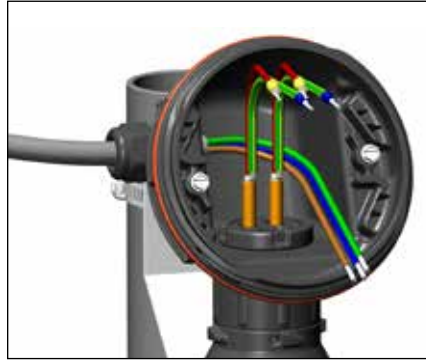
7. Push excess cable back through expeditor. Tighten cap securely. Tape cable expansion loop to pipe.



8. Mount junction box base on expeditor. 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.



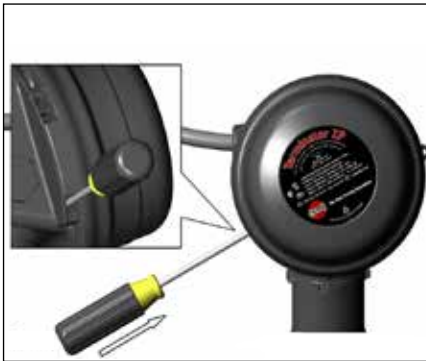
9. Remove M25 dust cap. Install M25 power gland (order separately) and M25 blind plug. For in-line splice, T-splice, or end termination, install additional M25 blind plug (order M25-B-EXE separately) instead of M25 power gland.



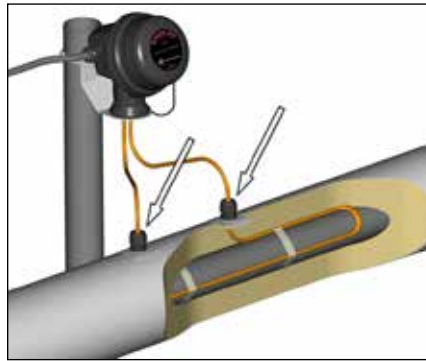
10. Install power cable.



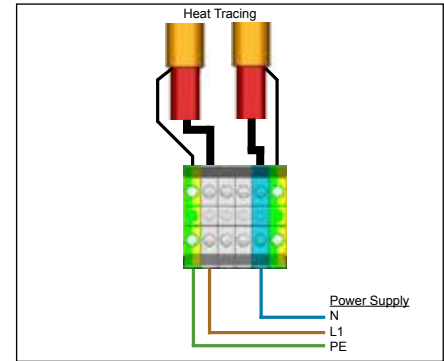
11. Install terminal block and complete system wiring. Terminal set screws shall be tightened to a torque value of 1.4 Nm (12.4 lb-in). See below for wiring details.



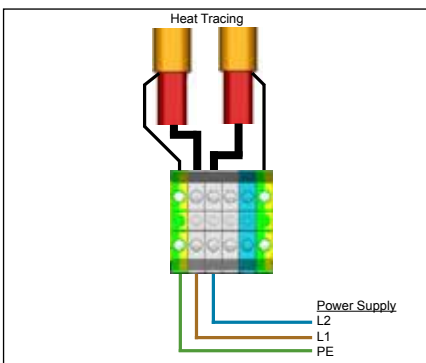
12. Install junction box lid and twist hand tight. Insert screwdriver into ratchet slots located on side of junction box base. Use screwdriver to ratchet on junction box lid. Lid will rotate 30 degrees. To remove lid, repeat this step in the opposite direction.



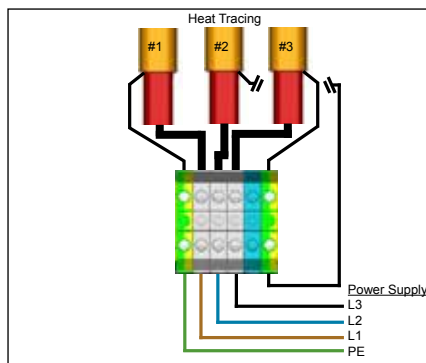
13. Install IEK insulation entry kit to seal heating cable penetration through insulation cladding.



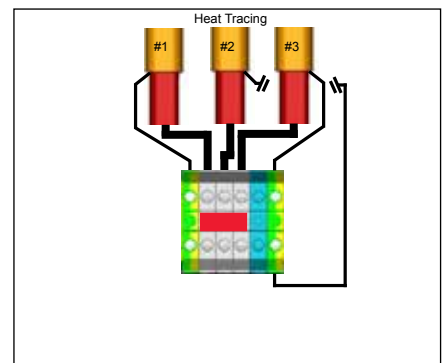
Wiring Details: Single Phase Circuit



Wiring Details: Phase - Phase Circuit



Wiring Details: 3-Phase Circuit (Power Side)



Wiring Details: 3-Phase Circuit (End or "Star" Side)

Note: Install separately supplied bridge on terminal L1, L2 and L3.



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