Terminator ZP/FAK-2 and FAK-2L

Elbow Splice Kit for Electrically Heated TubeTrace® Bundles

INSTALLATION PROCEDURES





Terminator ZP/FAK-2 and FAK-2L

The following installation procedures are suggested guidelines for the installation of the Terminator ZP/ FAK-2 and FAK-2L Kit.

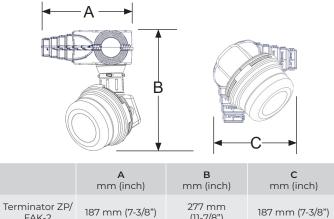
Receiving, Storing and Handling

- 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.

Terminator ZP/FAK-2 and 2L Kit Contents



Dimensions



FAK-2	107 11111 (7 3,0 7	(11-7/8")	107 11111 (7 3,0 7
Terminator ZP/ FAK-2L	328 mm (12-7/8")	321 mm (12-5/8")	328 mm (12-7/8")

<u>Required:</u> Order separately for each heater to be fabricated

PETK Power and End Termination Kits (per heater)

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

Tools Required







Item	Quantity	Description
1	1	Expediter Assembly: Flat Mount Base, Grommet, Threaded Grommet Compressor, and Support Cap with O-Ring
2	1	Junction Box Lid
3	1	Junction Box Base with O-Ring
4	1	Nut
5	1	Terminal Blocks with DIN Rail (Refer to terminal specifications for maximum allowable wire size)
6	1	Junction Box Cord
7	1	90° Elbow Splice Cover (Top)
8	1	90° Elbow Splice Cover (Bottom)
9	1	Heat Reflective Tape
10	2 (FAK-2) 3 (FAK-2L)	RTV Sealant Tube
11	1	Glass Fiber Tape
12	1	Silicone Gasket
13	1	Self-Vulcanizing Tape

The Terminator ZP/FAK-2 and FAK-2L In-Line Splice Kit is designed to make a waterproof seal over the end of TubeTrace at an electrical heat trace splice connection. Review instructions prior to installation. Kit will make one splice connection (Tube fittings not included). See separate instructions for details on splicing heat tracing.

Terminator ZP Certifications/Approvals



IP66/Type 4X $-60^{\circ}C \le Ta \le +55^{\circ}C$ Listed Heat Tracing Cable System 137M **Ordinary & Hazardous Locations** Class I, Division 2, Groups A, B, C, & D

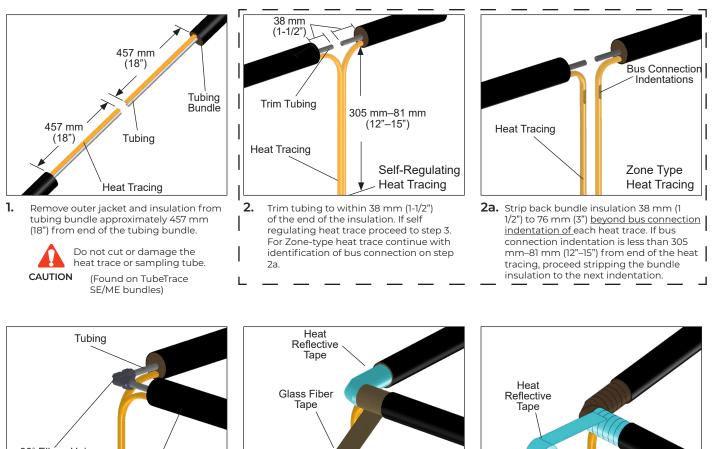
Class II, Division 2, Groups F & G, Class III Class I, Zone 1, AEx eb IIC T4-T6 09.2238691,-G,-S, Ex e IIC T4-T6

FMG 10.0022X Ex eb IIC T4-T6, Ex tb IIIC T135°C-T85°C

INSTALLATION PROCEDURES

Installation Precautions

- To minimize the potential for arcing on electrical heat tracing and fire caused by product damage or improper installation, use ground-fault protection.
- Installation must comply with Thermon requirements and be installed in accordance with any applicable national and local codes.
- · 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.
- De-energize all power sources before opening enclosure.
- · Keep ends of bundles, heat tracing and kit components dry before and during installation.
- Individuals installing these products are responsible for complying with all applicable safety and health guidelines. Proper personal protective equipment, or PPE, should be utilized during installation. Contact Thermon if you have any additional questions.

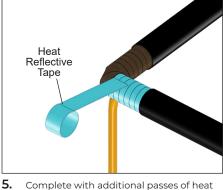




(fitting provided by others). Test fitting for leaks before proceeding.

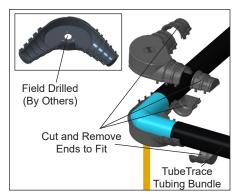


4.

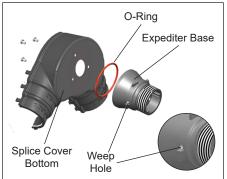


reflective tape.

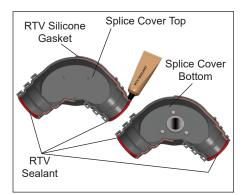
Terminator ZP/FAK-2 and FAK-2L



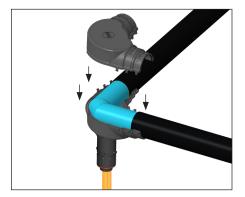
6. Cut splice cover top and splice cover bottom to match outside diameter of tubing bundle.



7. Mount expediter base with o-ring to splice cover bottom using (3) M5 mounting screws and lock washers. Punch out weep hole.



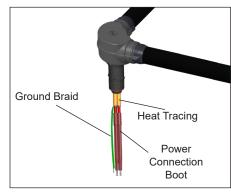
8. Install the Silicone Gasket (cut off excess). Apply RTV Sealant to both halves.



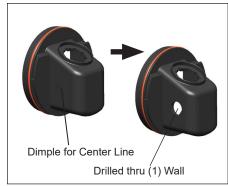
9. Assemble splice cover top, tubing bundle, and splice cover bottom together as shown Snap together firmly. Inspect ends of tubing splice cover for snug fit. Apply additional RTV sealant where needed.



10. Apply self-vulcanizing tape around bundle jacket and work up over FAK ends.



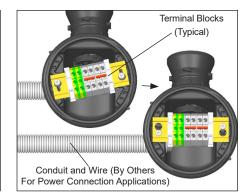
11. Terminate heat tracing with appropriate PETK termination kit. Refer to PETK installation instructions (purchased separately) for details not addressed here.



12. For power connection applications: Use dimple molded into side of junction box base to locate center hole, drill for user supplied power connection fitting per manufacture's recommendations.

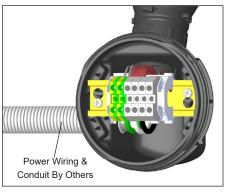


13. Mount junction box on expediter making sure to align slots to properly orient junction box base.

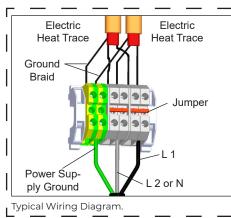


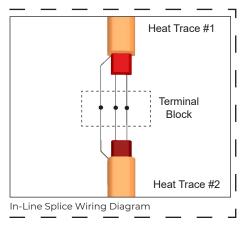
14. Install quick mount terminal blocks twist to position and tighten screws.

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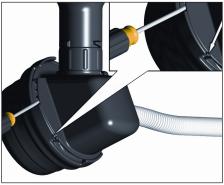
15. Complete system wiring between fabricated heat tracing and power supply wiring. See wiring diagram.







16. Install junction box lid and twist hand tight. Insert screwdriver into ratchet slot located on side of junction box base to tighten. Use screwdriver ratchet on junction box lid. Lid will rotate 30°.



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



18. Completed Terminator ZP/FAK-2/2L power assembly for Electrically Heated TubeTrace Bundles. (Installation shown is to feed power in the middle of a TubeTrace bundle. Many installations will be near the end of a TubeTrace bundle.)



Corporate Headquarters: 7171 Southwest Parkway · Building 300, Suite 200 · Austin, TX 78735 · Phone: 512-690-0600 For the Thermon office nearest you visit us at . . . www.thermon.com