

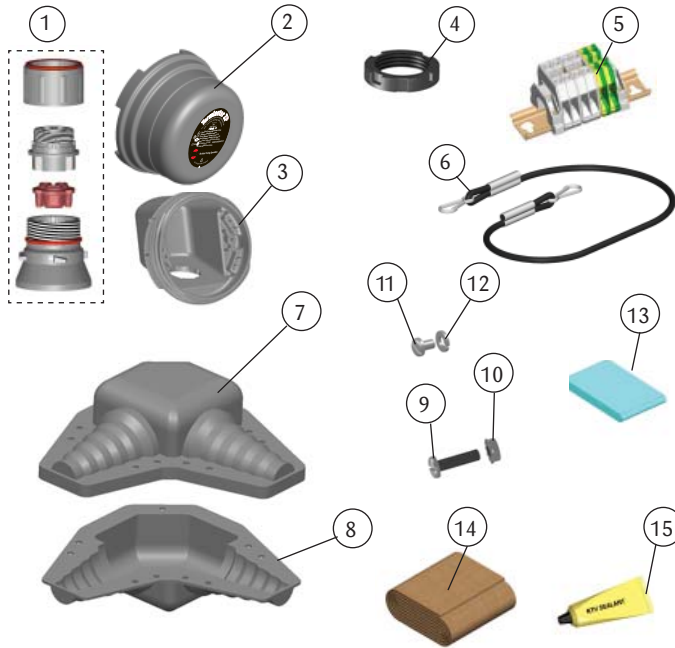
Terminator ZP/FAK-2 and FAK-2L

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

Receiving, Storing and Handling . . .

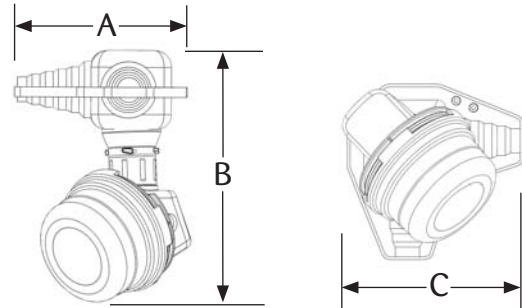
1. Inspect materials for damage incurred during shipping.
2. Report damages to the carrier for settlement.
3. Identify parts against the packing list to ensure the proper type and quantity has been received.
4. Store in a dry location.

Terminator ZP/FAK-2 and 2L Kit Contents . . .



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	Expediter Assembly Nut
5	5	Terminal Block (Typical)
6	1	Junction Box Cord
7	1	Inline Splice Cover (Top)
8	1	Inline Splice Cover (Base)
9	4	Pan Head S.S. Screws, #10-32 x 19mm
10	4	KEPT S.S. Nuts, #10-32
11	3	M5 Screw
12	3	M5 Lock Washer
13	1	Heat Reflective Tape
14	1	Glass Fiber Tape
15	2	RTV Sealant Tube

Dimensions . . .

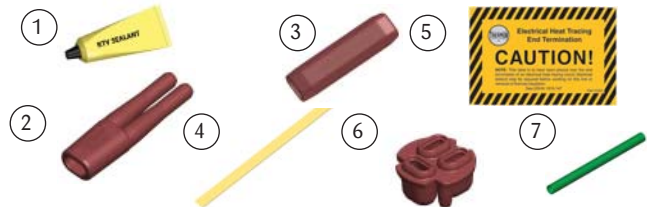


	A inch (mm)	B inch (mm)	C inch (mm)
Terminator ZP /FAK-2	8-1/4" (210 mm)	12" (305 mm)	8-1/4" (210 mm)
Terminator ZP /FAK-2L	9-5/8" (248 mm)	12" (305 mm)	9-5/8" (248 mm)

Required: Order Separately for each heater to be fabricated. Refer to PETK Instruction, Form PN50136U for additional information.

PETK Power and End Termination Kits (one req'd. per heater)

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



Item	Quantity	Description
1	1	RTV Sealant Tube
2	1	TBX Power Connection Boot
3	1	ET End Cap
4	1	Tape Strip Teflon 152mm (PETK-3 only)
5	1	End Termination Caution Label
6	1	GRW-G Grommet (PETK-3 only)
7	1	Ground Wire Sleeve

Tools Required . . .



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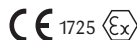
INSTALLATION PROCEDURES

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 . . .



European Organisation for Electrotechnical Standardisation
Hazardous (Classified) Locations



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



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



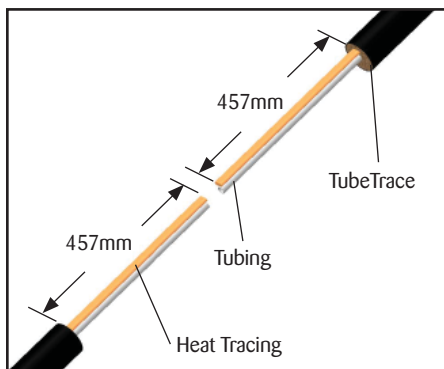
FM Approvals
Hazardous (Classified) Locations



Underwriters Laboratories Inc.
Hazardous (Classified) Locations

Terminator has additional hazardous area approvals including:

- GGTN • Kazakhstan

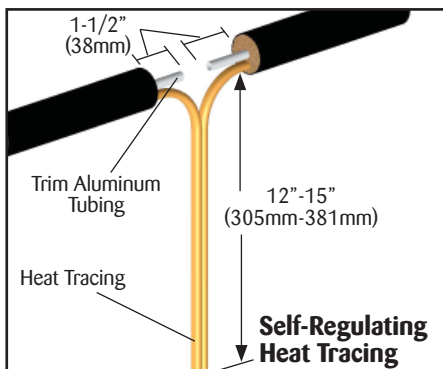


1. Remove outer jacket and insulation from tubing bundle approximately 457mm from end of the tubing bundle.

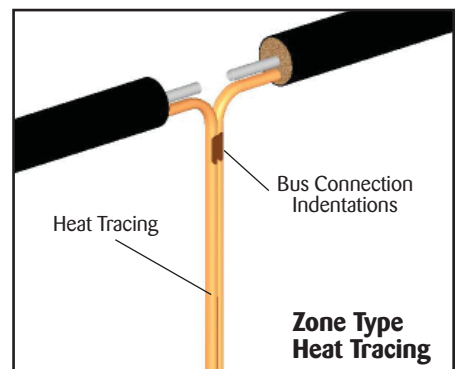


Do not cut or damage the heat trace or sampling tube.

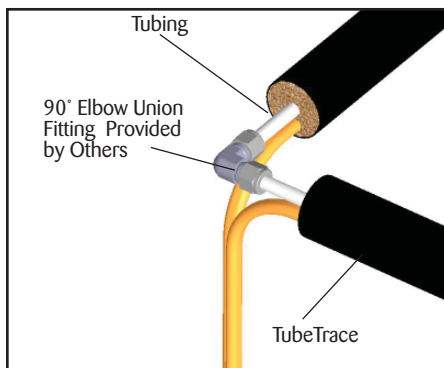
CAUTION (Found on TubeTrace SE/ME bundles)



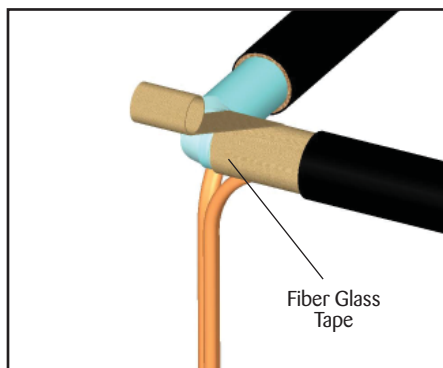
2. Trim tubing to within 1-1/2" (38mm) of the end of the insulation. If self regulating heat trace proceed to step 3. For Zone-type heat trace continue with identification of bus connection on step 2a.



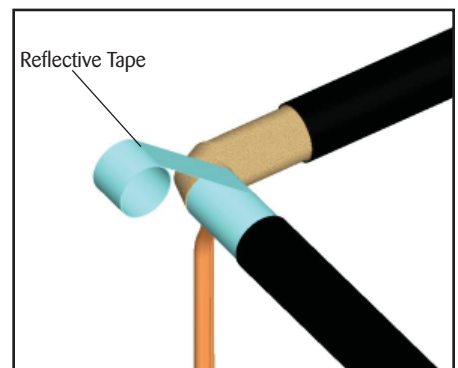
- 2a. Strip back bundle insulation 1-1/2" (38mm) beyond bus connection indentation of each heat trace. If bus connection indentation is less than 305mm-381mm from end of the heat tracing, proceed stripping the bundle insulation to the next indentation.



3. Make 90° elbow union connections, fitting provide by others.



4. Wrap tube and heat trace with 1 pass of reflective tape (25% overlap), then wrap with 3 passes of glass fiber tape (50% overlap), or until fiber tape is equal to original bundle insulation thickness.

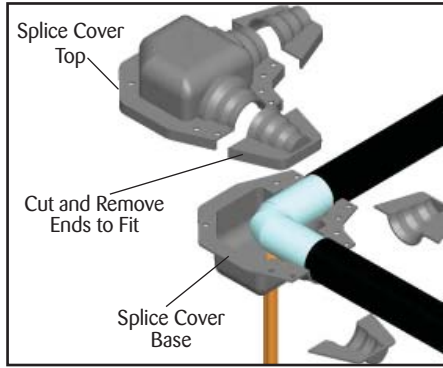


5. Complete with additional passes of heat reflective tape.

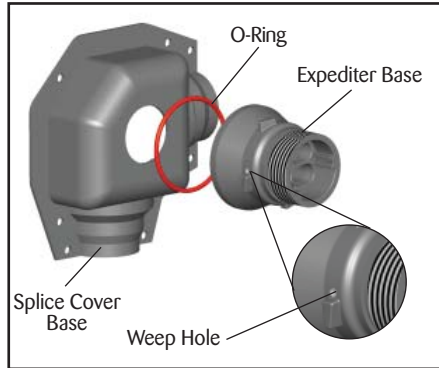


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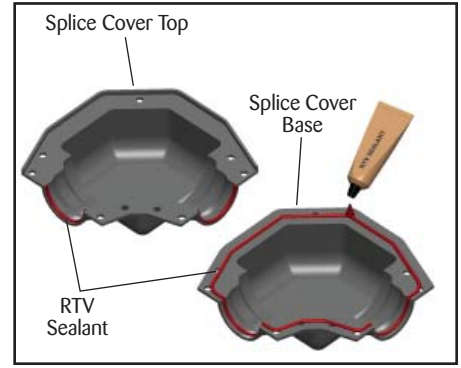
Terminator ZP/FAK-2 and FAK-2L



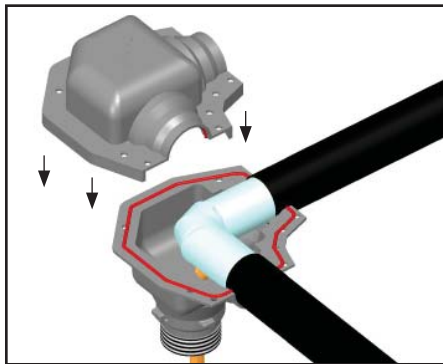
6. Cut top and base splice cover ends to match outside diameter of tubing bundle.



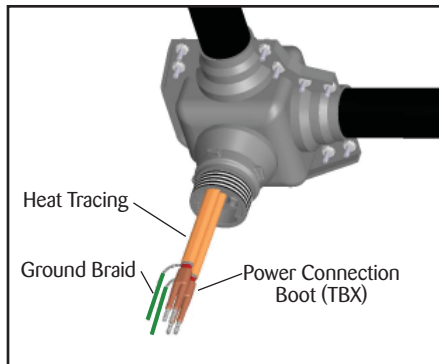
7. Mount Expediter Base with O-Ring to the splice cover base using (3) M5 mounting screws and lock washers. Punch out weep hole.



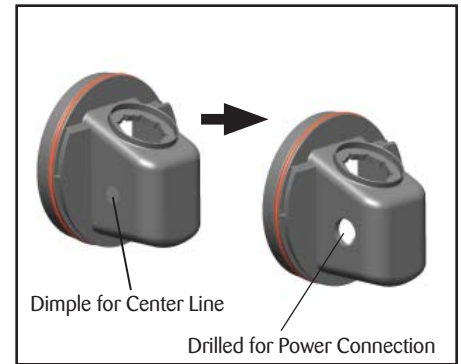
8. Form a gasket by applying RTV sealant to the splice cover base and along the radius of the splice cover top.



9. Fit tubing bundle to the splice cover base and install the splice cover top. Screw down firmly. Inspect ends of tubing splice cover for snug fit. Apply additional RTV sealant where needed.



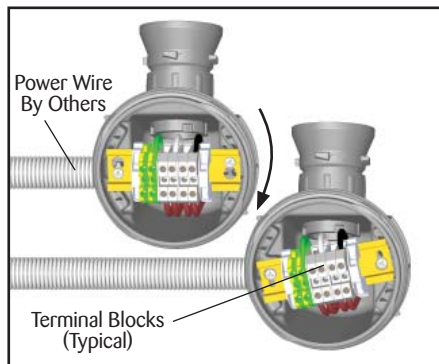
10. Terminate heat tracing with appropriate PETK termination kit. Refer to PETK installation instructions for details not addressed here.



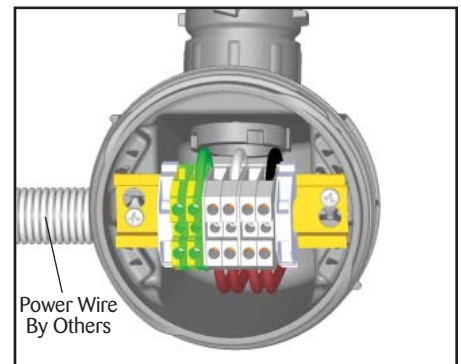
11. For power connection applications: Use dimple molded into side of junction box base to locate center hole, drill for user supplied power connection fitting per manufacturer's recommendations.



12. Mount junction box on expediter making sure to align slots to properly orient junction box base. Tighten nut securely.



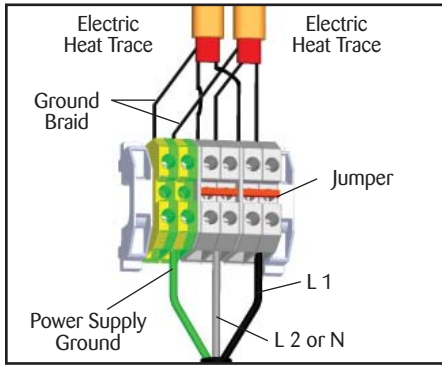
13. Install quick mount terminal blocks twist to position and tighten screws.



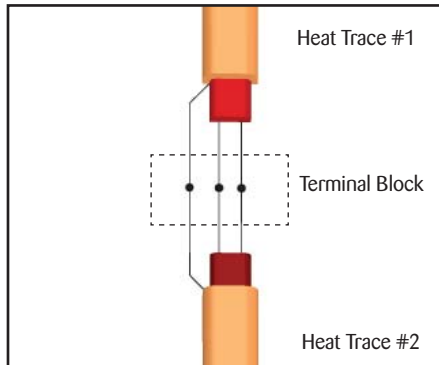
14. Complete system wiring between fabricated heat tracing and power supply wiring.



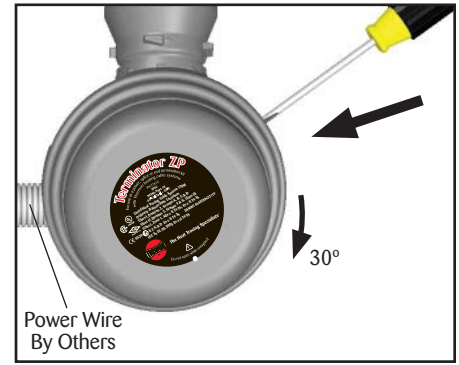
INSTALLATION PROCEDURES



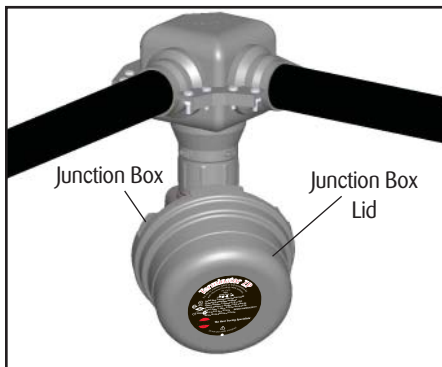
Typical Wiring Diagram.



In-Line Splice Wiring Diagram



- 15.** 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°.



- 16.** Completed Terminator ZP/FAK-2 power assembly for TubeTrace Type SE/ME Bundle (Installation shown could feed power in the middle of a TubeTrace bundle).



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