Terminator DP/FAK-5LHT

Tee-Splice Kit for Electrically Heated TubeTrace® Bundles

INSTALLATION PROCEDURES





Terminator DP/FAK-5LHT

The following installation procedures are suggested guidelines for the installation of the Terminator DP/FAK-5LHT: Tee-Splice kit.

Receiving, Storing and Handling

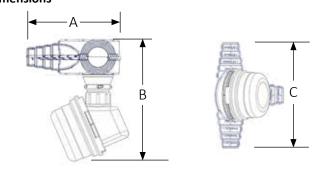
- 1. Inspect materials for damage incurred during shipping.
- 2. Report damages to the carrier for settlement.
- 3. Identify parts against the packing list to ensure the proper type and quantity has been received.
- 4. Store in dry location.

Terminator DP FAK-5LHT 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	Nut		
5	5	Terminal Block (Typical)		
6	1	Junction Box Cord		
7	1	Splice Cover (Top)		
8	1	Splice Cover (Base)		
9	1	Heat Reflective Tape		
10	3	RTV Sealant Tube		
11	1	Glass Fiber Tape		
12	1	Silicone Gasket		
13	1	Self-Vulcanizing Tape		
14	1	Fiberglass Rope, 13 mm x 366 cm (1/2"x 12')		
15	1	Heavy Foil Tape, 44.5 mm (1.75") wide		

Dimensions



	A	B	C
	mm (inch)	mm (inch)	mm (inch)
Terminator DP/ FAK-5LHT	317 mm (12-1/2")	308 mm (12-1/8")	489 mm (19-1/4")

Required: Order Separately for each heater to be fabricated. PETK Power and End Termination Kits (one req'd. per heater)

PETK-3D for HPT

Tools Required



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The Terminator DP/FAK-5LHT Tee Splice Kit is designed to make a waterproof seal over the end of TubeTrace at the tee splice connections. 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 DP Certifications/Approvals



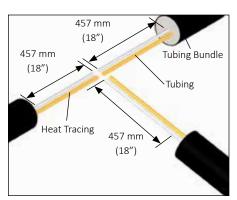




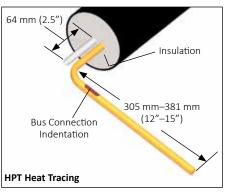
IP66 NEMA/Type 4X -60°C \leq Ta \leq +55°C Ordinary & Hazardous Locations Class I, Division 2, Groups A, B, C, & D, Zone 2 IIC Class II, Division 2, Groups F & G, Class III Listed Heat Tracing System 137M

Installation Precautions

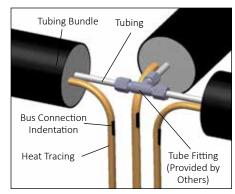
- To minimize the potential for arcing on electrical heat tracing and fire caused by product damage or improper installation, use ground-fault protection. The National Electrical Code (NEC) and Canadian Electrical Code (CEC) require ground-fault protection of equipment for each branch circuit supplying electrical heat tracing.
- Installation must comply with Thermon requirements and be installed in accordance with the NEC, CEC, or any other 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 heating cable 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.



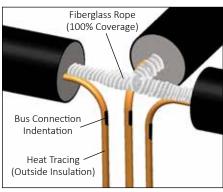
 Remove outer jacket and insulation from tubing bundle approximately 457 mm (18") from the end of the tubing bundle.



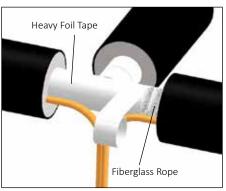
2. Strip back bundle jacket and insulation 38 mm (1-1/2") to 76 mm (3") beyond bus connection indentation of each heat tracing. If bus connection indentation is less than 305 mm–381 mm (12"–15") from end of the heat tracing, proceed stripping the bundle jacket and insulation to the next indentation.



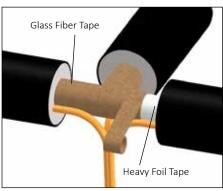
3. Make tube connections with appropriate fittings, provided by others. Test fittings for leaks before proceeding.



4. Wrap high temperature tubing with 1/2" fiberglass rope. Ensure 100% coverage to keep tubing and heat tracing from making contact. **DO NOT wrap heat trace with fiberglass rope.**

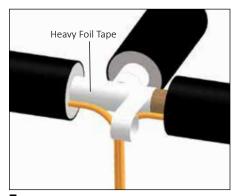


5. Wrap rope with one pass of heavy foil tape (25% overlap).

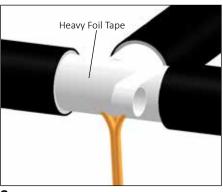


6. Wrap with 3 passes of glass fiber tape (50% overlap).

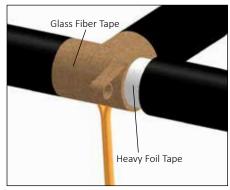
Terminator DP/FAK-5LHT



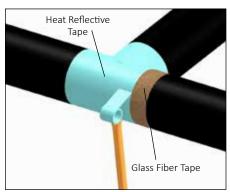
Add 1 additional pass of heavy foil tape (25% overlap).



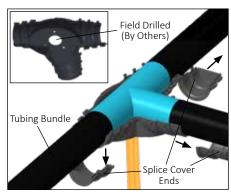
8. Add 1 additional pass of heavy foil tape (25% overlap) to cover heat trace.



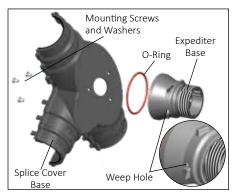
Wrap with 4 passes of glass fiber tape (50% overlap), or until fiber tape is equal to original bundle insulation thickness.



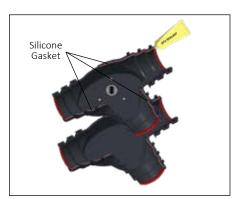
10. Wrap with 1 pass of heat reflective tape (50% overlap).



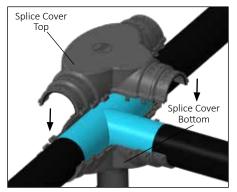
 Cut splice cover ends to match outside diameter of tubing bundle. Field drill expediter base holes.



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



13. Install silicone gasket, cutting off excess. Apply RTV sealant to both halves.

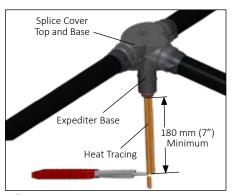


14. Fit tubing bundle to bottom half of cover and install top half. Snap together firmly. Inspect ends of tubing splice cover for snug fit. Apply additional RTV sealant where needed.

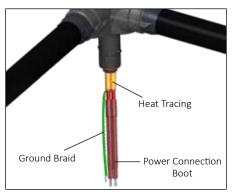


15. Apply self-vulcanizing tape around bundle jacket and work up over FAK ends.

INSTALLATION PROCEDURES



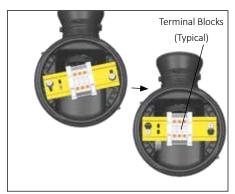
16. Trim heat tracing to 180 mm (7") minimum from expediter base.



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



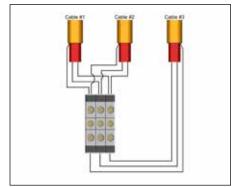
 Mount junction box on expediter making sure to align slots to properly orient junction box hase



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



20. Complete system wiring per wiring diagram.



Wiring Details for T-Splice



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



22. Lid latch mechanism fully engaged. To remove lid, repeat steps 21 and 22 but in opposite direction.



23. Completed Terminator DP/FAK-5LHT assembly for TubeTrace Type SE/ME Bundle.

