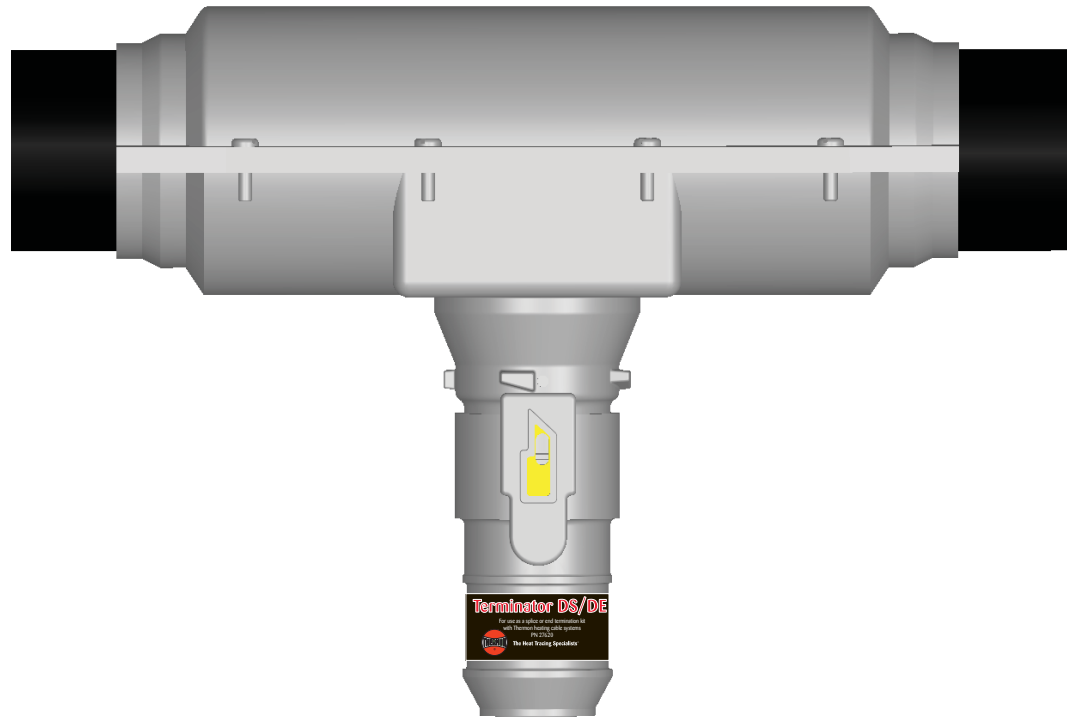


Terminator DS/DE FAK-4LHT Kit

for In-Line Splice of
Electrically Heated TubeTrace® Bundles

INSTALLATION PROCEDURES



The Heat Tracing Specialists®

Terminator DS/DE FAK-4LHT

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 DS/DE FAK-4LHT Kit Contents . . .



Item	Qty.	Description
1	1	Expediter Assembly: Flat Mount Base, Grommet, and Grommet Compressor
2	1	Splice Cap
3	1	FAK-4LHT Top
4	1	FAK-4LHT Base
5	4	Pan Head S.S. Screws, #10-32 x .75
6	4	KEPT S.S. Nuts, #10-32
7	3	M5 Screw PN 42128
8	3	M5 Lock Washer PN 42129
9	1	Heat Reflective Tape, 1.75" Wide
10	1	Glass Fiber Tape, 2" Wide
11	1	RTV Sealant Tube
12	1	Fiberglass Rope, 1/2" Dia. X 12' Length

Required: Order Separately for each heater to be fabricated. Refer to SCTK Instruction, Form PN50133 for additional information.

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

SCTK-3D for HPT

Kit Contents . . .



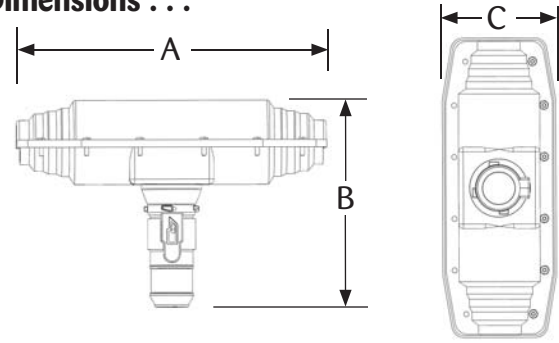
Item	Quantity	Description
1	2	Splice Connection Boots
2	1	Large Wire Nut
3	2	Medium Wire Nuts
4	2	Small Wire Nuts
5	1	RTV Tube
6	1	GRW-G Grommet (For SCTK-3D Terminator kits only)



The Heat Tracing Specialists®

INSTALLATION PROCEDURES

Dimensions . . .



	A inch (mm)	B inch (mm)	C inch (mm)
Terminator DS/DE FAK-4LHT	14-1/2" (248 mm)	9-1/4" (305 mm)	5-1/2" (248 mm)

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.

Terminator DS/DE Certifications/Approvals . . .



IP66 NEMA/Type 4X -60°C ≤ Ta ≤ +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

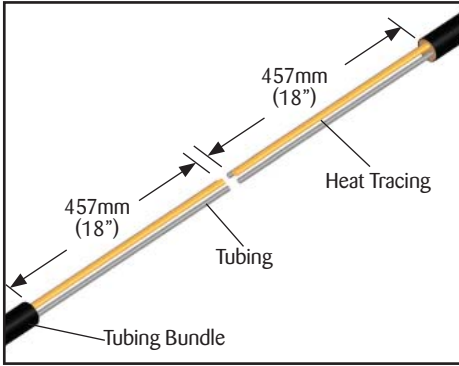


Tools Required . . .



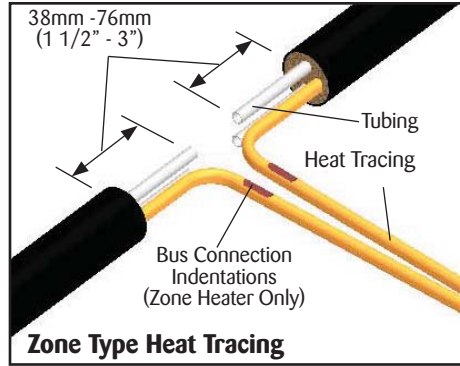
Terminator DS/DE FAK-4LHT

INSTALLATION PROCEDURES



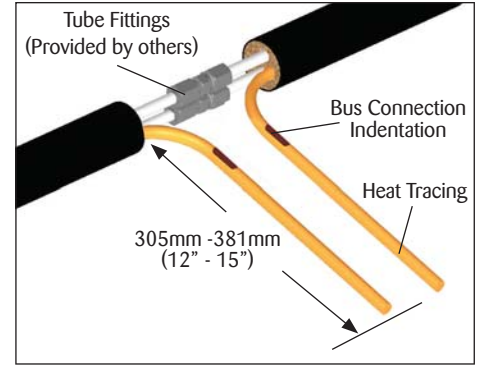
1. Remove outer jacket and insulation from tubing bundle approximately 457mm (18") from end of the tubing bundle.

CAUTION Do not cut or damage the heat trace or sampling tube.
(Found on TubeTrace SE/ME bundles)

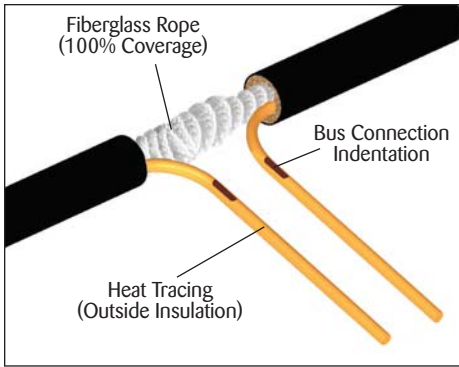


Zone Type Heat Tracing

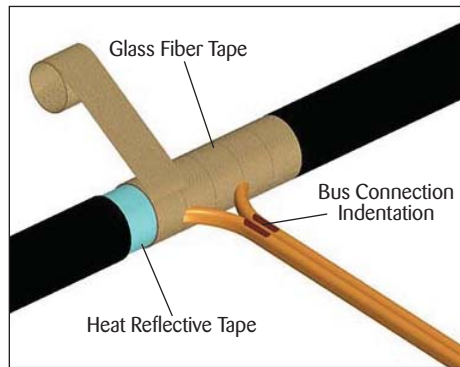
2. Strip back bundle insulation 38mm (1 1/2") to 76mm(3") beyond bus connection indentation of each heat tracing. If bus connection indentation is less than 305mm (12")-381mm (15") from end of the heat tracing, proceed stripping the bundle insulation to the next indentation. Trim tubes so the bus connection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



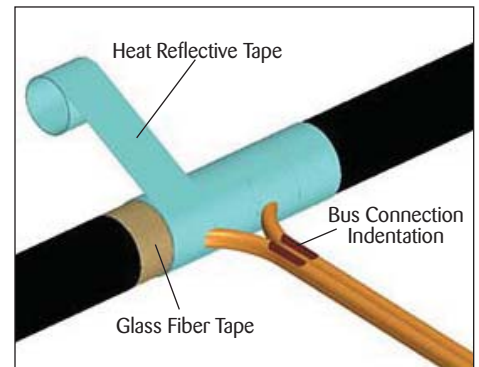
3. Make tube connections with appropriate fittings, provided by others. Test fittings for leaks before proceeding.



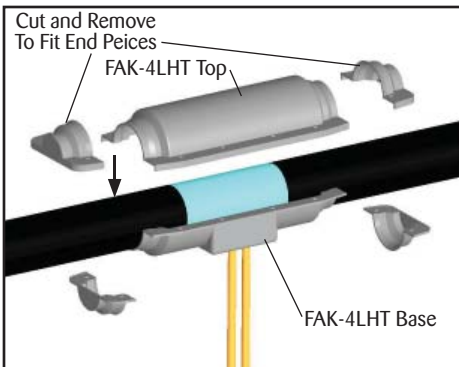
4. Wrap high temperature tubing with 1/2" fiberglass rope. Ensure 100% coverage to keep tubing and heat tracing from making contact. **DO NOT wrap heat trace with fiberglass rope.**



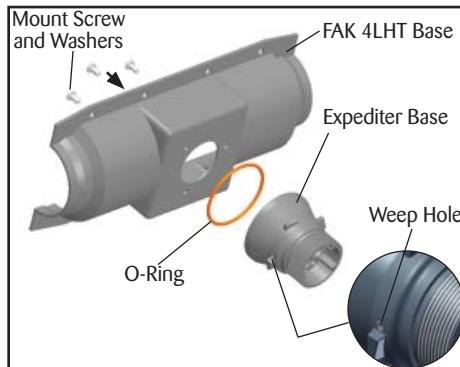
5. Wrap rope with one pass of heat reflective tape (25% overlap). Then wrap with 3 passes of glass fiber tape (50% overlap), or until fiber tape is equal to original bundle insulation thickness.



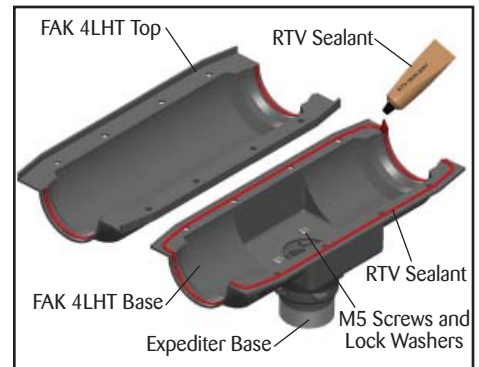
6. Complete with 1 additional pass of heat reflective tape (25% overlap).



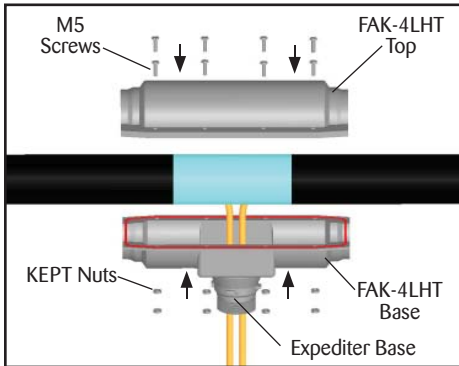
7. Cut splice cover ends to match outside diameter of tubing bundle.



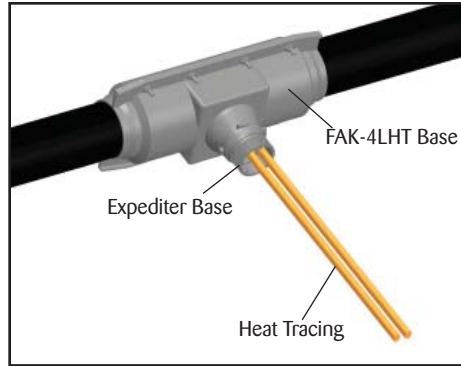
8. Mount Expediter Base with O-Ring to bottom cover using (3) M5 mounting screws and lock washers. Punch out weep hole



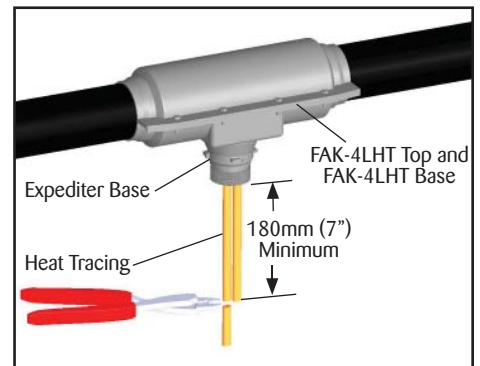
9. Form a gasket by applying RTV sealant to FAK-4LHT base and along radius of FAK-4LHT top as shown.



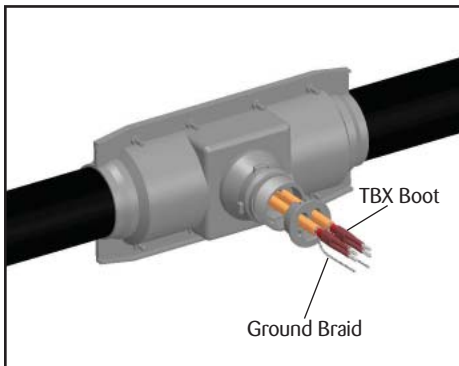
10. Assemble FAK-4LHT top, tubing bundle, and FAK-4LHT base together as shown using M5 X 3/4" pan head screws and M5 KEPT nuts.



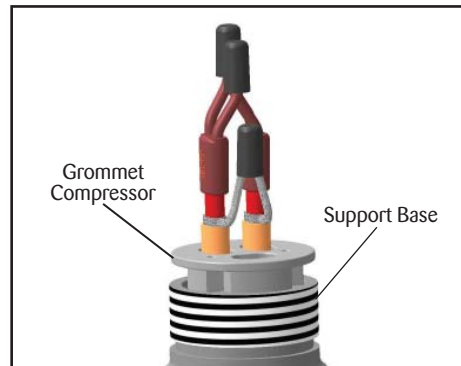
11. Assemble DS/DE FAK-4LHT without junction box.



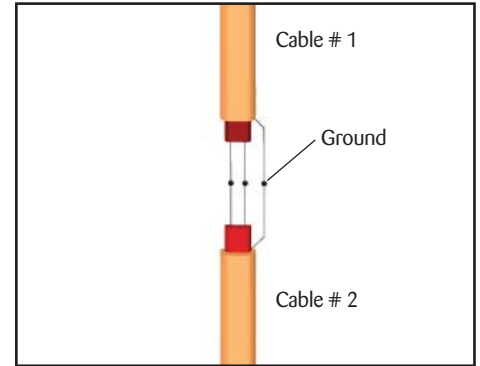
12. Trim heat tracing to 180mm (7") minimum from expediter base.



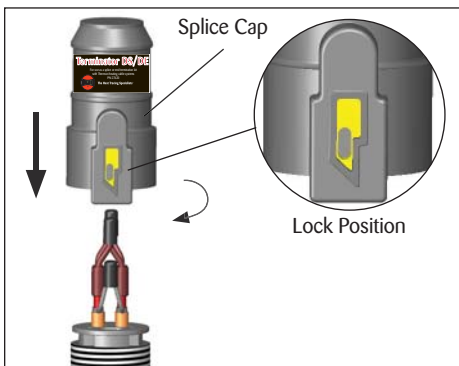
13. Terminate heat tracing with appropriate SCTK termination kit. Refer to SCTK installation instructions for details not addressed here.



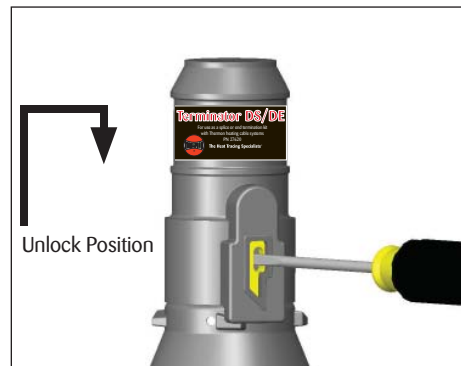
14. For splice connections: Connect bus wire using medium wire nuts (for HPT). Connect braid wire using large wire nut. See wiring details for splice connections.



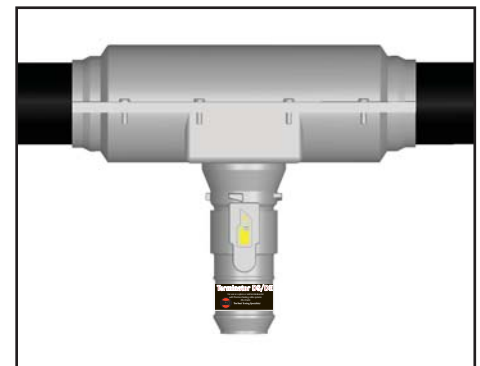
15. Complete system wiring between fabricated heat tracing.



16. Mount splice cap to Terminator base and tighten securely. Make sure latch mechanism is in the locked position.



17. To remove splice cap, lift latch mechanism to unlock position (as shown) and unscrew.



18. Tighten cap securely.



THERMON . . . The Heat Tracing Specialists®
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1-800-820-HEAT • In Canada call **1-800-563-8461**

For the Thermon office nearest you
 visit us at . . .
www.thermon.com

ISO 9001
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Specifications and information are subject to change without notice. Form PN50074-0212