



PT-JHT-GET Low-Profile Tee Splice Connection Kit Instruction Manual


	<p>Read and understand this manual before installing, operating, or servicing this kit. Failure to understand these instructions could result in an accident causing serious injury or death. Only qualified personnel should install, operate, or service this kit.</p>
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INTRODUCTION

Thank you for purchasing a ProTherm low-profile tee connection kit. ProTherm supplies quality low-profile tee connection kit only as part as a complete ProTherm System.

PT-JHT-GET durable corrosion resistant enclosures provide premium protection for electrical connections. Your PT-JHT-GET kit is designed to provide a long and efficient service life with function, reliability, and safety in mind.

PT-JHT-GET low-profile tee connection kits are approved for use in non-hazardous area (ordinary) locations with low and mid-temp heating cable.

PT-JHT-GET low-profile tee connection kits are CSA approved for use in hazardous area (Class I, Div 2; Class II, Div 2; Class III) locations with SLCBL series heating cable only.



SAFETY ALERT SYMBOL

The symbol above is used to call your attention to instructions concerning your personal safety. It points out important safety precautions. It means **“ATTENTION! Become Alert! Your Personal Safety is involved!”** Read the message that follows and be alert to the possibility of personal injury or death.



Immediate hazards which **WILL** result in severe personal injury or death.



Hazards or unsafe practices that **COULD** result in severe personal injury or death.



Hazards or unsafe practices that **COULD** result in minor personal injury or property damage.

SAVE THESE INSTRUCTIONS!
Additional copies of this manual are available upon request.

IMPORTANT SAFETY INSTRUCTIONS



⚠ DANGER

A person who has not read and understood all operating instructions is not qualified to operate this product.

⚠ DANGER

- Do not immerse splice connection in liquid.
- Keep volatile or combustible material away from splice connection when in use.
- Use splice connection only in approved locations.
- Keep sharp metal objects away from splice connection.

Failure to observe these warnings may result in electric shock, risk of fire, and personal injury.

⚠ WARNING

End-User Must Comply to the Following:

- Only qualified personnel are allowed to connect electrical wiring.
- Disconnect all supply power at the source before making any power connections.
- All electrical wiring must follow local electrical codes and highly recommend following NEC Article 427.
- The person who performs the final installation / wiring must be qualified for this work.
- The end-user is responsible for providing a suitable disconnecting device.
- The end-user is responsible for providing suitable electrical protection device. It is highly recommended that a ground fault circuit breaker be used.

Failure to observe these warnings may result in personal injury or damage to the product and/or property.

AGENCY APPROVALS

For SLCBBL -BP, -BF Series only



Class I, Div. 2, Groups A, B, C, D
Class II, Div. 2, Groups E, F, G
Class III

Approvals valid only when installed in accordance with all applicable instructions, codes, and regulations.

⚠ CAUTION

- Inspect all components before use.
- Do not use tee connection kit if any component is damaged.
- Do not repair a damaged or faulty component.
- Do not crush or apply severe physical stress on any component of system.
- Unit must be mounted away from vibration, impacts, water and corrosive gases.
- Do not operate tee connection kit above rated temperature value.
- Fasten tee connection kit to the pipe using approved methods only.

Failure to observe these warnings may result in personal injury or damage to the product and/or property.

PRIOR TO INSTALLATION

Description

- The PT-JHT-GET is designed for use with low and mid-temp heating cables in ordinary locations only.
- The PT-JHE-GET kit is approved by CSA for use in hazardous area locations with SLCBBL series heating cable only.
- The PT-JHT-GET should be installed on pipe under insulation and/or cladding.
- The PT-JHT-GET is rated NEMA 4X.

Specifications

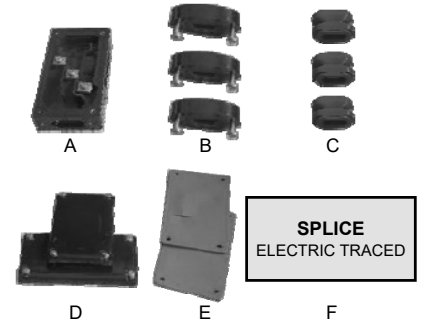
- Maximum current: 32A
- Voltage: 110-120V, 208-277V
- Maximum Continuous Exposure Temperature (T5): 212°F (100°C)

Tools and Materials Required

- Wire cutter
- Screwdriver
- Needle-nose pliers
- Utility knife / Razor blade
- Fiberglass Tape (PSAT36A)
- JHT-GET low-profile tee splice connection kit

Kit Includes

Item	Qty	Description
A	1	Main box
B	3	Pressure Seal Ends
C	3	Grommets
D	2	Gaskets for Main Box
E	2	Covers for Main Box
F	1	Label

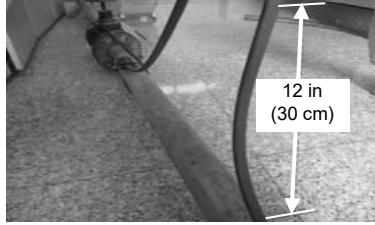


⚠ WARNING

- This component is an electrical device that must be installed correctly to ensure proper operation and to prevent shock or fire. Read these important warnings and carefully follow all of the installation instructions.
- To minimize the danger of fire from sustained electrical arcing if the heating cable is damaged or improperly installed, and to comply with the requirements of BriskHeat certifications, and National Electrical Codes, Groundfault equipment protection must be used. Arcing may not be stopped by conventional circuit breakers.
- Component approvals and performance are based on the use of BriskHeat specified parts only. Do not use substitute parts or vinyl electrical tape.
- The black heating cable core is conductive and can short. It must be properly insulated and kept dry.
- Damaged bus wires can overheat or short. Do not break bus wire strands when scoring the jacket and core.
- Keep components and heating cable ends dry before and during installation.
- Bus wires will short if they contact each other. Keep bus wires separated.
- Use only fire-resistant insulation materials, such as fiberglass wrap or flame-retardant foam.

INSTALLATION

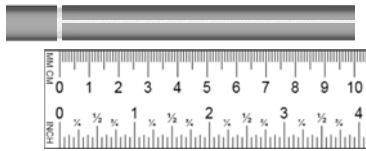
1. Overlap approximately 12" (30cm) of heating cable to allow for wire connections and mishaps.



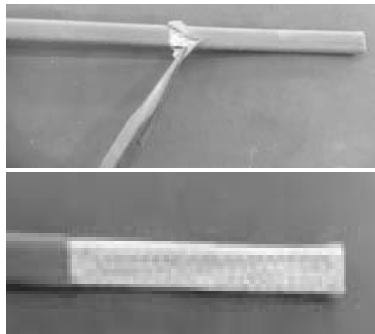
2. Install the Pressure Seal End then the Grommet onto each cable.



3. Carefully, lightly score/cut the outer jacket. **CAUTION** : Do not cut the braiding.



4. Slightly bend the cable where you made the cut and carefully strip the other jacket from the heating cable.



5. Push the braiding back to create a bump.



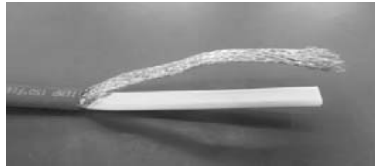
6. At the bump, use a screwdriver to make a little hole in the braiding.



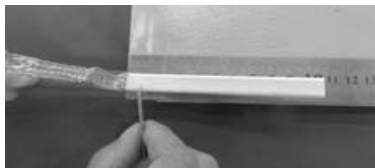
7. Bend the cable and work it through the braiding.



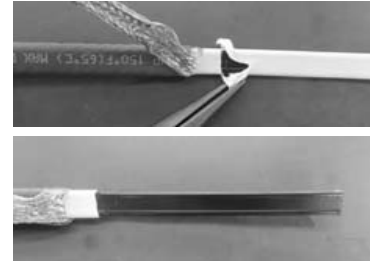
8. Make a pig-tail with the braiding at the center of the cable to form a braided wire.



9. Lightly score inner jacket. **CAUTION** : Do not cut the bus wire.



10. Bend cable and strip inner jacket from the heating cable.



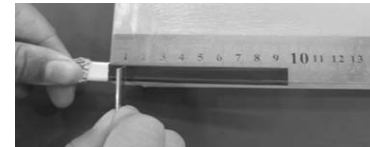
11. Nick the core material



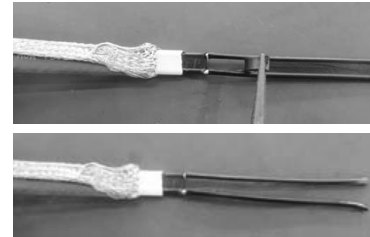
12. Pull back bus wires then, carefully strip bus wires.



13. Carefully cut the center area (core) between the two bus wires.

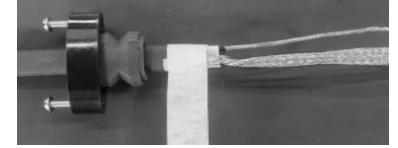


14. Bend and carefully remove the core material.



15. Strip the two bus wires. **For CSA Class II and III:** Go to step 19.

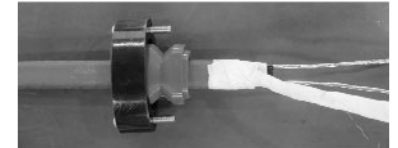
16. Wrap the pigtail braid and the inner jacket at least 3 loops using fiberglass tape.



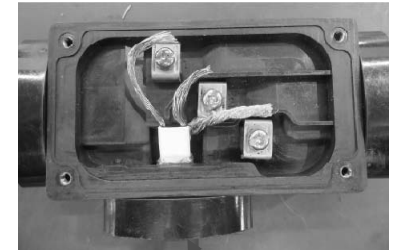
17. Separate from the cable and loop a minimum of two times around the braid.



18. Install the grommet to the edge of the loop tape. **CAUTION:** Do not install grommet over the tape.



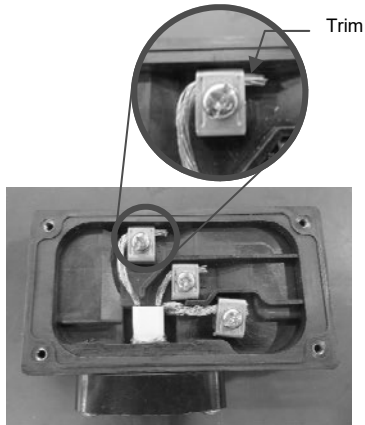
19. Insert heating cable No.1 into the main box as shown.



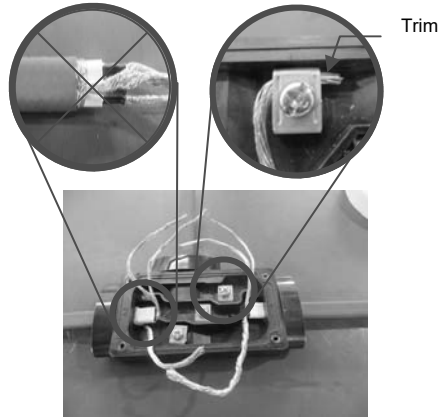
20. Install a grommet into cavity and seat it into the pressure seal end.

21. Install pressure seal end onto the main box by tightening screws.

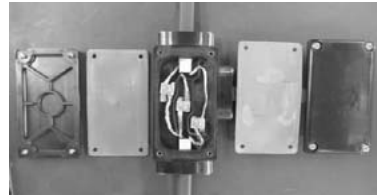
22. Remove screws from terminal block inside of main box.
23. Install the wires onto terminal blocks.
24. Tighten the screws back into position on the terminal block and trim and remove any loose or extra wire and braid.



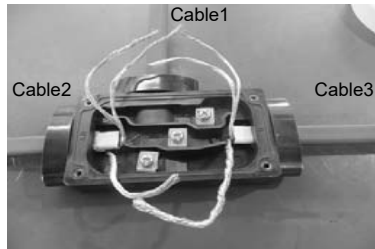
31. Tighten screws back into position on the terminal block.
32. Trim and remove any loose or extra wire and braid.



33. Install Gaskets and Covers onto the main box and secure covers with the screws.



25. Insert heating cables No.2 and 3 into the main box.
26. Install 2 grommets into cavities and seat them into the pressure seal ends.
27. Install 2 pressure seal ends onto the main box by tightening screws.



34. Attach the Low Profile Tee Connection and heating cable to the pipe with fiberglass tape (PSAT36A).
35. Install insulation.
36. Install label on the outside of the insulation.
37. Give instruction to the owner/user.

28. Remove screws from terminal block inside main box.
29. Install the wires onto terminal blocks.
30. Inspect, and if necessary, adjust/move the braided wire away from the bus wires to prevent incidental contact with the bus wires.

WARRANTY INFORMATION

ProTherm warrants to the original purchaser of this product for the period of eighteen (18) months from date of shipment or twelve (12) months from date of installation, whichever comes first. ProTherm's obligation and the exclusive remedy under this warranty shall be limited to the repair or replacement, at ProTherm's option, of any parts of the product which may prove defective under prescribed use and service following ProTherm's examination, is determined by ProTherm to be defective.



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