

LT-T-AL Aluminum Low Profile Tee



These installation instructions are for use with Drexan HeatTracer PipeGuard (PG), RoofGuard (RG) and PipeGuard Hot (PGH) Self-Regulating heater products.

This kit may be installed in temperatures as low as -40°F (-40°C).

For technical support call Drexan at 1.800.663.6873

WARNING!

This is an electrical device and in order to ensure proper operation and prevent shock or fire it must be installed correctly. Read these important warnings. Follow all installation instructions.

Ground-fault equipment protection must be used to minimize the danger of fire from sustained electrical arcing if the heating cable is damaged or improperly installed and to comply with Drexan requirements, agency certifications and national electrical codes. Conventional circuit breakers may not stop arcing.

Do not use substitute parts or substitute electrical tape. Component approvals and performance characteristics are based on Drexan specific parts only. Substitution will void approvals and performance claims.

The heating cable core is conductive and can short if not properly insulated and kept dry.

Heating cable core bus wires can overheat and short when damaged. When cutting the cable jacket or core do not break bus wire strands.

Component and heating cable ends must be kept dry before and during installation.

Fire-resistant thermal insulation materials should be used.

Approvals



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



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

Additional Materials Required

- Pipe Straps
- Glass Fiber Cloth Tape, Drexan FG Tape or equivalent
- Cable Lubricant

Equipment Required

The following equipment will be needed for this assembly:

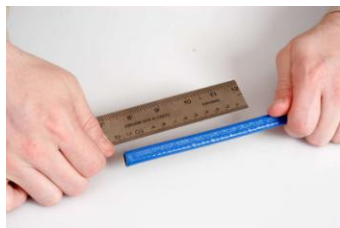
- Utility Knife
- Wire Cutter
- Multi Head Screw Driver
- Pipe Wrench
- Wire Stripper
- Crimp Tool

Assembly Instruction Details

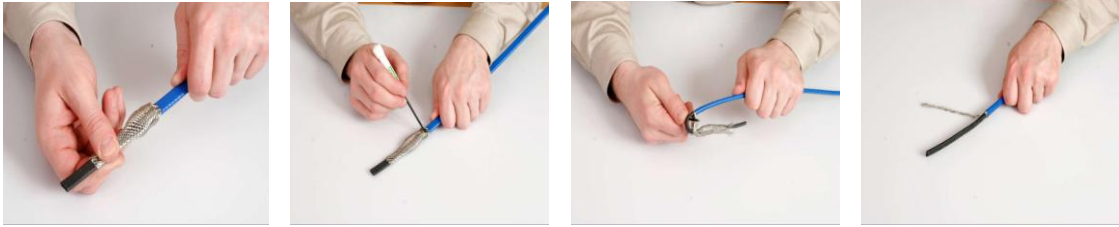
1. Allow approximately 60cm of each heating cable for installation from the pipe.
2. Disassemble three of item 2, 3/4 inch Strain Relief assemblies. Thread heater through strain relief cap, washer and using cable lubricant through the grommet (wide end towards washer respectively) and pull the Strain Relief Nuts and Washers over three of item 1, Drain Heaters. Pull three of item number 3, a 3/4 Inch Single Heater Strain Relief Grommet, wide end first, over the Drain Heaters, leaving 12 until 8" (20_cm) of each of the Drain of the heater ends are exposed. Put strain relief bases aside.



3. Taking care not to cut the Ground Braid, remove 7" (178mm) of outer jacket from the Heater.



4. Push ground braid back towards the outer jacket cut back. Make a buckle in the braid. With a screw driver, create an opening in the ground braid without cutting it, big enough to pull the cable through. Bend cable enabling it to push through the opening in the ground braid. Twist the ground braid into a solid ground lead.

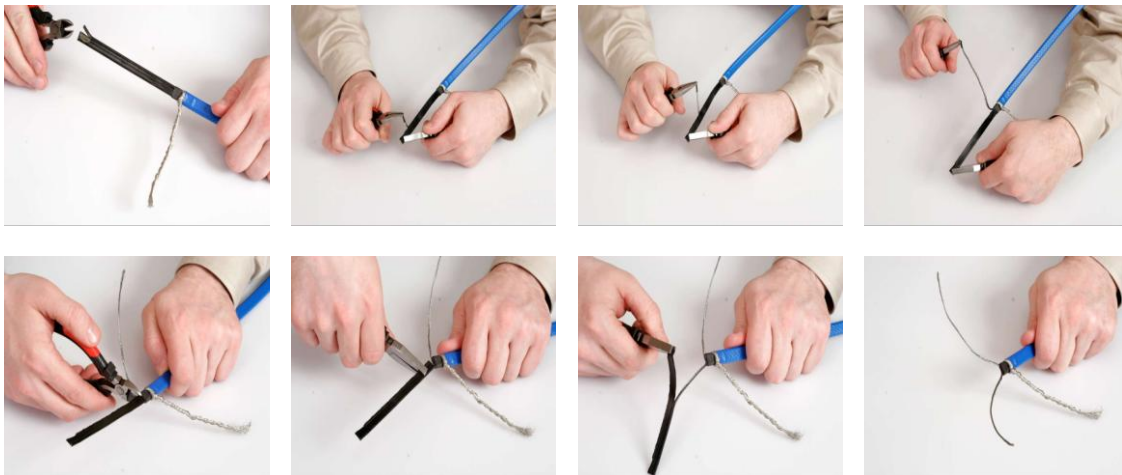


5. Strip back inner jacket and clear membrane within 1½" (138 mm) of the outer jacket cut back.



6. Notch core. Peel one of the conductors from the core. Score core between the conductors as close as possible to cut back end. Peel core from remaining conductor. Clean conductor wires until wires are completely exposed.

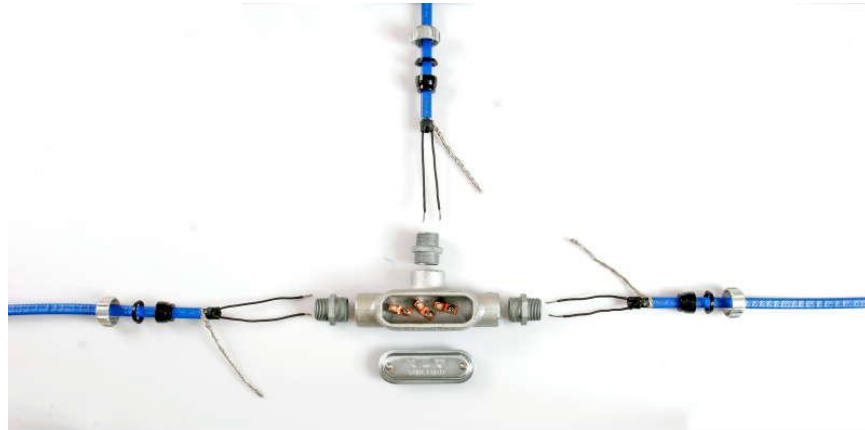
For **PGH** (PipeGuard Hot cable) strip the inner jacket to within 1½" (138mm) of the outer jacket cutback exposing the bus wires. Trim off the fiber heating element and spacer.



7. Slide the core sealer over the bus wires of the cable, over the inner core until as close to the braid as possible. Note: ensure the crotch of the core sealer is tight up to the inner jacket separating the two bus wires.



8. Push the Strain Relief Grommets to the edge of the insulation, until only the stripped heater twisted Ground Braid and Conductors are exposed.



9. Install Strain Relief bases into the Type T Housing, and tighten with a Pipe Wrench.
10. Feed each of the three Heater Conductors and Ground Wires through their Strain Relief Bases into the Type T Housing. Tighten the Strain Relief Cap complete with Washer and Grommet.
11. Attach the Heater Ground Braid to individual Ground Positions in the Type T Housing.
12. Taking one Conductor from each of the two different heaters, twist the exposed ends together. Repeat with the other two conductors.
13. Crimp each of the paired conductors (2) into butt splice connectors.
14. Take the remaining heater and crimp each conductor to the open ends of the butt splice connectors. Pull check the crimps to ensure that it is tight and correct if necessary.
15. Push conductors into the Cast Housing ensuring that Conductors are not exposed and do not kink.
16. Retighten Strain Relief Nuts.
17. Install the lid on Type T Housing making sure not to pinch conductors.
18. Find a suitable location and affix Electrical Warning Label.