

HP-PCT-2-AL Aluminum High Profile Power Connection Tee – Two Cables



These installation instructions are for use with Drexan HeatTracer PipeGuard™ (PG) and 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



File #231572

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
- Heat Gun
- Needle Nose Pliers

Assembly Instruction Details

1. Allow approximately 2' (60 cm) of each heating cable for installation from the pipe.
2. Disassemble the, $\frac{3}{4}$ " (2 cm) inch Strain Relief assemblies, cut heaters on approximately a 45° angle. Lubricate heaters with cable lubricant and thread heaters through Strain Relief cap, washer and grommet respectively (wide end towards washer) until 8" (20 cm) of the heaters end is exposed. Put Strain Relief base aside.



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



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. Repeat on second heater.

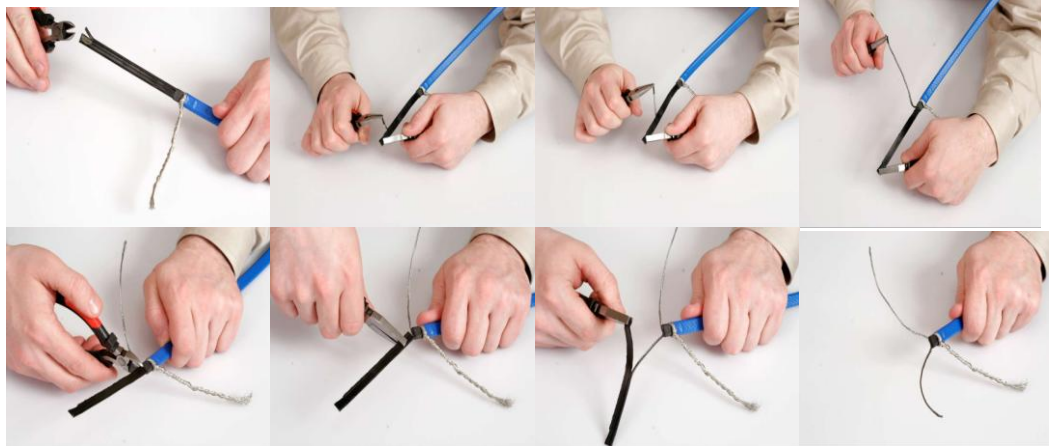


5. Strip back inner jacket and clear membrane of both cables within 1½" (38 mm) of the outer jacket cut back.



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. Repeat on second heater.

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. Repeat on second heater.



8. Push Heater Strain Relief Grommet to the edge of the insulation, until only the stripped Heater twisted Ground Braid and Conductors are exposed.
9. Assemble the Stand, by placing $\frac{3}{4}$ " sealing ring against the housing, then the bracket and finally the top of the Strain Relief Housing. Tighten the Strain Relief Housing into GUP Housing until all are snug using appropriate tools.
10. Feed the Heater Conductors and Ground Wire through the Strain Relief Housing into the GUP Housing. Fit the Heater Strain Relief Grommet into the Strain Relief Housing. Locate the Strain Relief Nut and Washer and tightening hand tight.
11. Locate an appropriate hole for the Power Connection and bring power to the box in accordance with suitable local electrical codes and practices.
12. Install Plugs, into remaining holes in GUP Housing.



13. Insert Ground wires into the (Green Yellow) Ground Terminal Block by pushing Terminal Blocks open with a Screw Driver. Remove the Screw Driver to make the connection.
14. Insert Power conductors into the Terminal Block by pushing Terminal Blocks open with a Screw Driver. Remove the Screw Driver to make the connection. Ensure that the Conductor is not visible and pull test the connection.
15. Insert Heater conductors into the Terminal Block by pushing Terminal Blocks open with a Screw Driver. Remove the Screw Driver to make the connection. Ensure that the Conductor is not visible and pull test the connection.
16. Retighten Strain Relief Nuts.
17. Install the lid on GUP Housing ensuring Conductors are not pinched.
18. Attach to the pipe using SS Straps through the pipe bracket ensuring pipe straps are underneath cable, not over top.
19. Find a suitable location and affix Electrical Warning Label.