

LP-S AL Aluminum Low-Profile Splice



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:

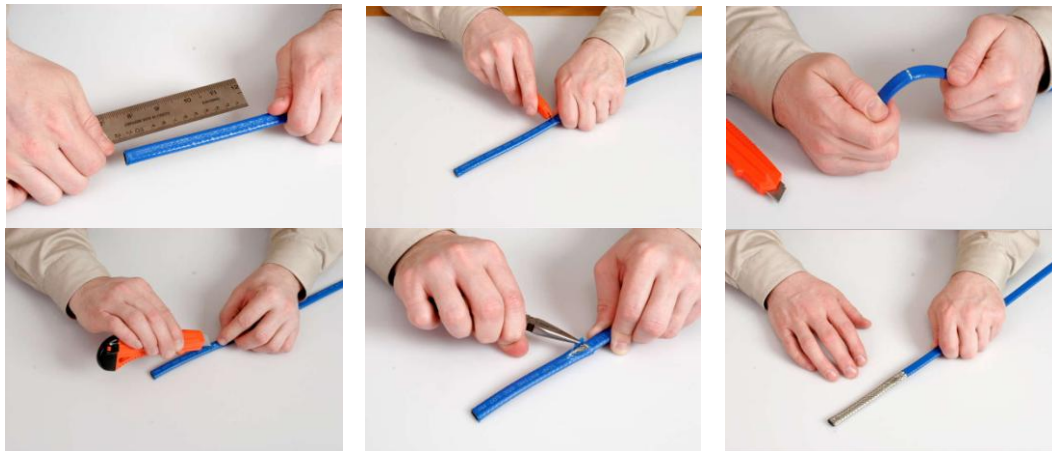
- Utility Knife
- Wire Cutter
- Multi Head Screw Driver
- Pipe Wrench
- Wire Stripper
- Crimp Tool

Assembly Instruction Details

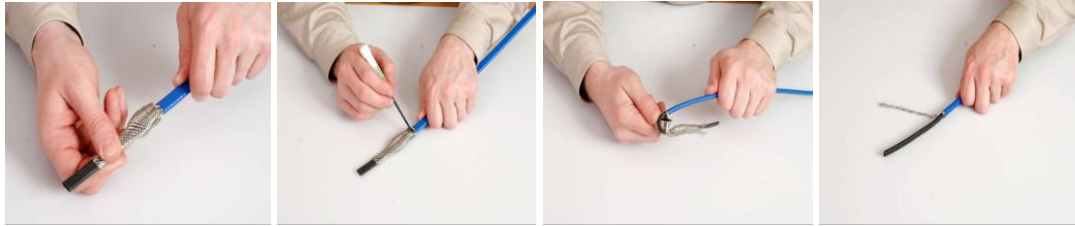
1. Allow approximately 2' (60 cm) of heating cable for installation from the pipe.
2. Disassemble the, $\frac{3}{4}$ " (2 cm) inch Strain Relief assembly, cut heater on approximately a 45° angle. Lubricate heater with cable lubricant and thread heater through Strain Relief cap, washer and grommet respectively (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" (178 cm) of insulation 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.

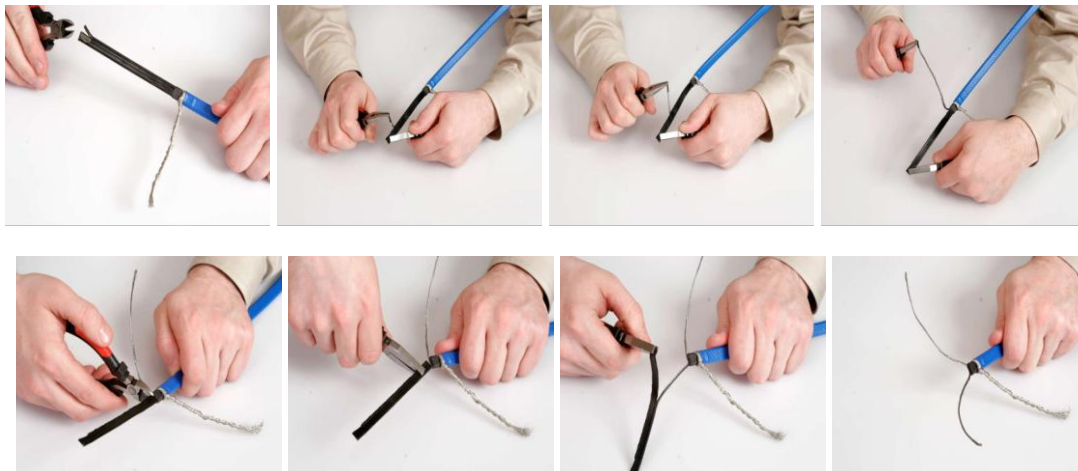


5. Strip back inner jacket and clear membrane within 1/2" (1 cm) of the outer jacket cut back.



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 1 1/2" (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. For each heater, 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 two Strain Relief Housings into the Cast Housing, and tighten with Pipe Wrench.

10. Feed Drain Heater Conductors and Ground Wires through the Strain Relief Housings and into the Cast Housing seating the Grommets in the Strain Relief Housings. Tightening the Strain Relief Nuts hand tight.



11. Ground each of the Drain Heaters to the cast housing.
12. Twist each of the Drain Heater Conductors together and crimp.



13. Check Ground Connections to ensure they are firm.
14. Push conductors into the Cast Housing ensuring that Conductors are not exposed and do not kink.
15. Retighten Strain Relief Nuts.
16. Install lid on Cast Housing making sure not to pinch conductors.



17. Find a suitable location and affix the Electrical Warning label.