

HP-LE-1R/2R Lighted End Seal Kit



These installation instructions are for use with Drexan HeatTracer PipeGuard 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

Additional Materials Required

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

Equipment Required

The following equipment will be needed for this assembly:

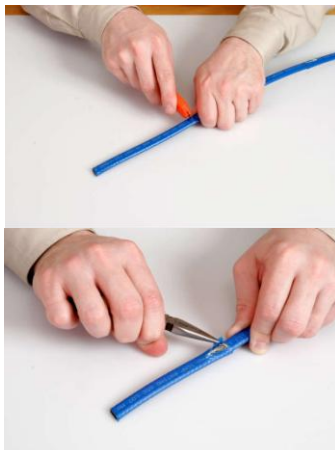
- Utility Knife
- Wire Cutter
- Multi Head Screw Driver
- Pipe Wrench
- Wire Stripper
- Crimp Tool
- Heat Gun
- Needle Nose Pliers

Assembly Instruction Details

1. Allow approximately 2' (60 cm) of 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 6" (16 cm) of insulation from the Heater.



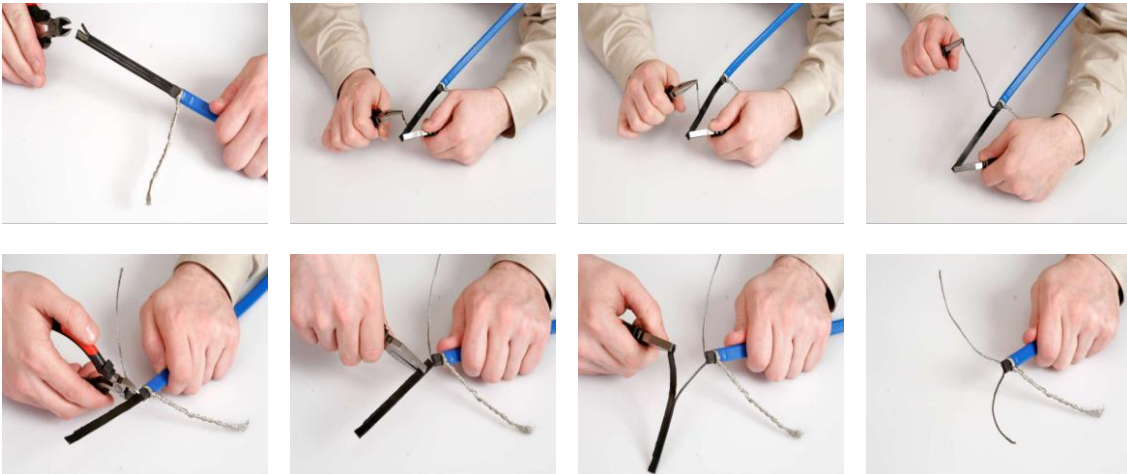
4. Push ground braid back towards the outer jacket cut back. Make a buckle in the braid. With a screw driver, create an opening in the ground braid without cutting it, big enough to pull the cable through. Bend cable enabling it to push through the opening in the ground braid. Twist the ground braid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



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. Remove enclosure lid c/w LED and set aside.
9. Remove the nut from the hub to connect the ground braid to the ground screw on the hub. Connect the box body to the strain relief base through the washer and pipe bracket as shown below.



10. Connect the wires to the base block of the LED terminals and secure lid to the enclosure with the 4 screws taking care not to damage the buss wires.
11. Retighten Strain Relief Nuts and tighten with $\frac{1}{4}$ turn with a wrench.
12. Attach to pipe using SS Straps through the pipe bracket ensuring pipe straps are underneath cable, not over top.
13. Find suitable location and affix Electrical Warning Label.