

Installation Instructions

DIV1-ADP

Division 1 Adapter Kit – Single Cable



These installation instructions are only for use with the following Drexan HeatTracer Self-Regulating heater products or customer supplied approved junction boxes:

LP-PC-1-AL, LP-PC-2-AL

HP-PC-1-AL*, HP-PCT-2-AL*

PipeGuard® (PG) and MultiTrace® (MT)

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

* **Note:** when installing the HP (high profile) HP-PC-1-AL and HP-PCT-2-AL kits discard the 6" nipple and coupling.



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.

CAUTION: Ground-fault equipment protection shall be provided to de-energize all normally ungrounded conductors of electrical heating cable sets, with ground fault settings sufficient to allow normal operation of the heater unless applicable codes permit otherwise, and 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 warrantee, 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. 1, Groups A, B, C, D

Class II, Div. 1, Groups E, F, G

Class III

231572

120 -277 Volt. PGH only: 5 – 20 W/ft, Maximum 40A. Maximum continuous exposure temperature +121°C

All other cables: 3 – 10 W/ft, Maximum 32A. Maximum continuous exposure temperature +65°C

© Drexan Energy Systems Inc.
HeatTracer Division
Vancouver, BC, Canada, V6E 4L7

KIT CONTENTS

- (1) Sealing Fitting (with strain relief, union, nipple and cap)
- (2) Crimp splices
- (1) DIV 1 Compound (Chico Speedseal)
- (1) Core sealer
- Installation Instructions

REQUIRED BUT NOT PROVIDED

Equipment

- Utility Knife
- Wire Stripper
- Pipe Wrench
- Wire Cutter
- Crimp tool
- Multi-head Screwdriver
- Needle Nose Pliers

ASSEMBLY INSTRUCTION DETAILS

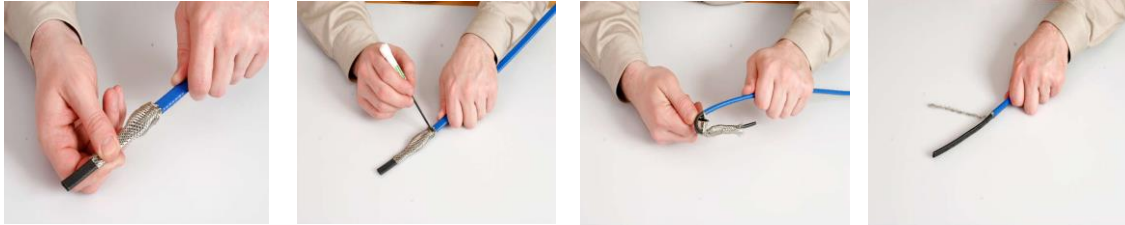
1. Allow approximately 12" (30 cm) of heating cable for installation from the pipe.
2. Disassemble the Strain Relief assembly. Cut heater on approximately a 45° angle. Thread heater through Strain Relief cap, washer and grommet respectively (wide end towards washer) until 9" (23 cm) of the heater end is exposed. Add any additional pieces supplied in accordance with the instructions provided with the Drexan kit you are using for this application.



3. Taking care not to cut the Ground Braid, remove 9" (23 cm) of outer jacket from the Heater.



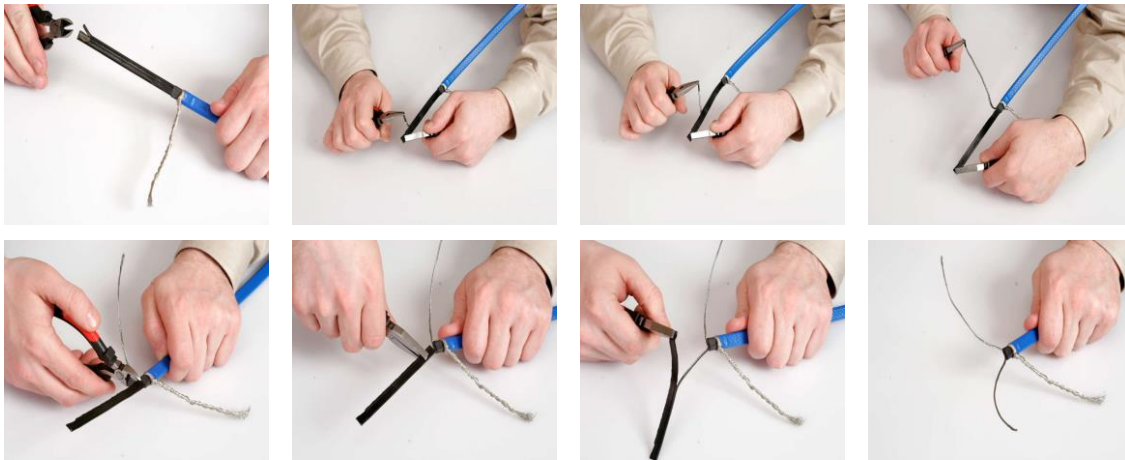
4. Push ground braid back towards the outer jacket cut back. Make a buckle in the braid. With a screw driver, create an opening in the ground braid without cutting it, big enough to pull the cable through. Bend cable enabling it to push through the opening in the ground braid. Twist the ground braid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



5. Strip back inner jacket and clear membrane 4½" (11 cm) from 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.
Note: For PGH (PipeGuard Hot) cable, strip the inner jacket to within 4½" (11 cm) of the outer jacket cut-back 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.



- Place the sealing fitting over the cable such that the end of the outer jacket cutback and braid will be visible through the centre hole of the sealing fitting and the braid is hanging out the end along with the remaining stripped cable. Push heater Strain Relief Grommet into place and tightly connect strain relief fitting to the sealing fitting.



- Connect and tighten the nipple to the sealing fitting. Connect and tighten female thread side of the union to the nipple and the male thread side to the junction box.



- Fill the sealing fitting with Chico Speedseal.



- Tightly secure plugs into the sealing fitting.
- Feed Heater Conductors and Ground wire into the Drexan housing and follow the installation instructions for making connection.