

# AMIGA-3



**DREX0069**

## INSTALLATION INSTRUCTIONS

These installation instructions are for use with Drexan Energy Systems PipeGuard® Hot (PGH), OmniTrace Hot (OTH), PipeGuard Warm (PGW) and MultiTrace® (MT), OmniTrace Warm (OTW) 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



HD141223-1 Rev 6

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. Each heating device branch circuit or each heating device shall have ground fault equipment protection. Metallic structures or materials such as metal pipes used to support the heater cable shall be grounded. Component approvals and performance characteristics are based on Drexan specific parts only. Maximum surface temperature: +260°C (500°F)\*.

\*Applies to PGH product only

The person(s) responsible for installation shall verify that the installation and inspection are performed by personnel who are trained, qualified, and knowledgeable in trace heating systems when using the Division method of area classification. The installation and inspection shall be in accordance with the system manufacturer's design documents, product recommendations, and installation instructions

Substitution will void approvals and performance claims.

Component and heating cable ends must be kept dry before and during installation. Fire resistant thermal insulation should be used. Bond the metallic braid of the self-regulating heating cable to a suitable grounding (earth) terminal. De-energize before installation or servicing.

**WARNING - EXPLOSION HAZARD - DO NOT DISCONNECT EQUIPMENT UNLESS POWER HAS BEEN SWITCHED OFF OR THE AREA IS KNOWN TO BE NON- HAZARDOUS.**

**AVERTISSEMENT - RISQUE D'EXPLOSION - AVANT DE DECONNECTER L'EQUIPEMENT, COUPER LE COURANT OU S'ASSURER QUE L'EMPLACEMENT EST DESIGNÉ NON DANGEREUX.**

#### \*Approvals



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



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

E471335 / \*\*E484945

\*This kit is not UL Listed for PGH product

\*\*General Purpose/Ordinary Location UL File

For use with Drexan HeatTracer PipeGuard Heating Cables only.

**CAUTION:** A ground fault protection device must be used with this heating device.

T-rating: Classified to rated output and conditions of use/limited pipe temperature.

#### Cable-Specific Specifications

##### PGH, OTH only:

5-30 W/ft., Maximum 40A. 120-277V  
Maximum intermittent exposure temperature  
446°F/230°C.  
Min. bend radius: 1.72 in. (44 mm) @ -40°F/°C

##### PGW/MT/OTW Only:

3-10 W/ft., Maximum 32A. 120-277V  
Maximum continuous exposure temperature  
150°F/65°C.  
Min. bend radius: 1.9 in. (50 mm) @ 68°F/20°C



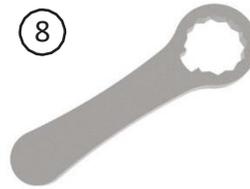
Item	Qty	Description
1	1	Stanchion
2	3	Silicon Grommet
3	3	Cable Guide
4	3	Connector
5	3	Ground Assembly
6	1	Junction Box
7	2	Pipe Clamp
8	1	Drexan Wrench
9	3	Core Sealer
10	1	Silicone Grease



6 Junction Box



7 Pipe Clamp(2)



8 Drexan Wrench



9 Core Sealer



10. Silicone grease

### Additional Materials Required



Knife



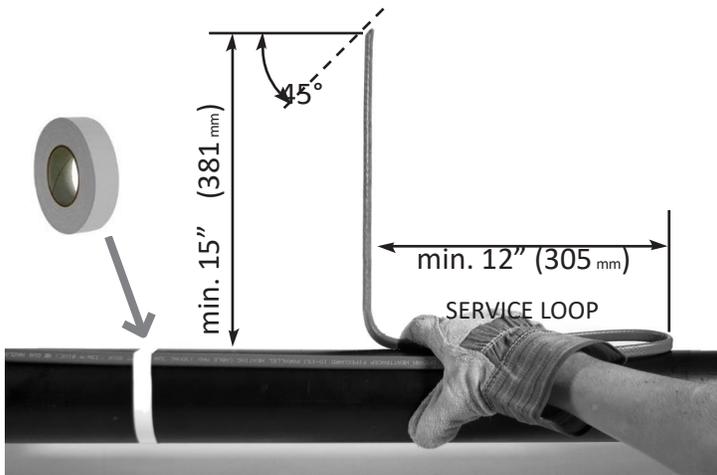
Multi Head Screwdriver



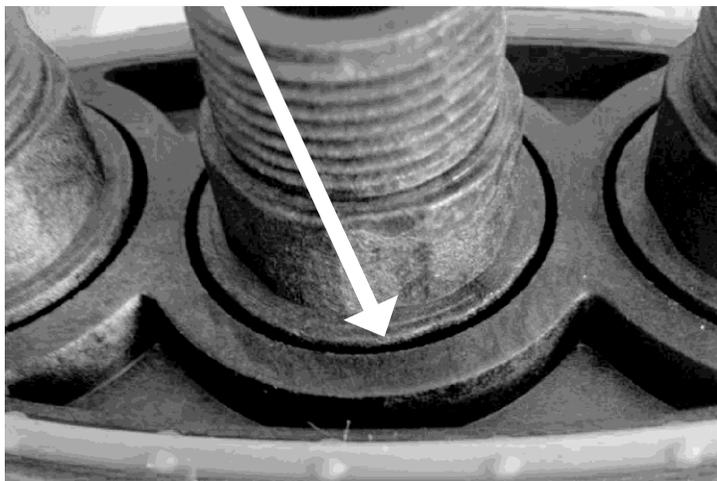
Tape

Cut cable at 45° angle to pierce grommet.

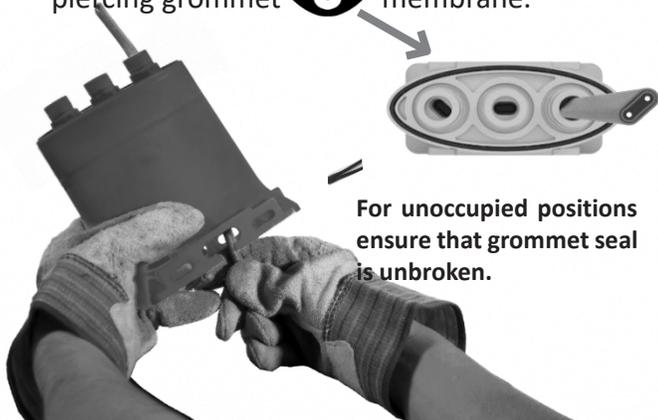
1. Allow min. 15" (381mm) for cable termination and min. 12" (305mm) for the service loop.



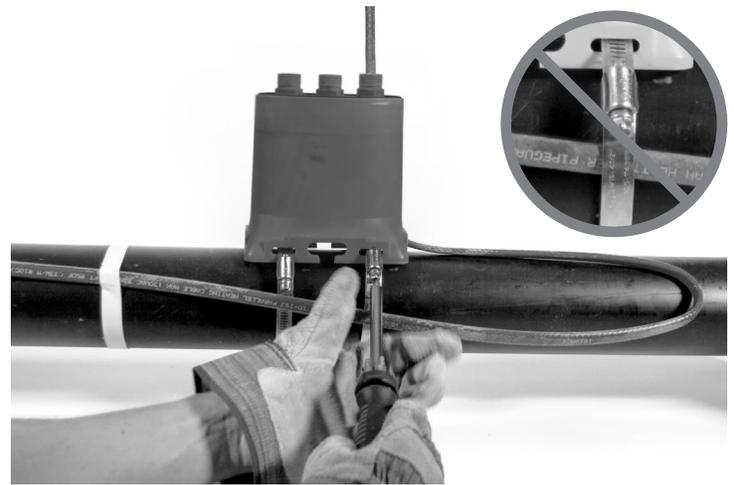
2. Ensure the shoulder of the connector is flush with stanchion.



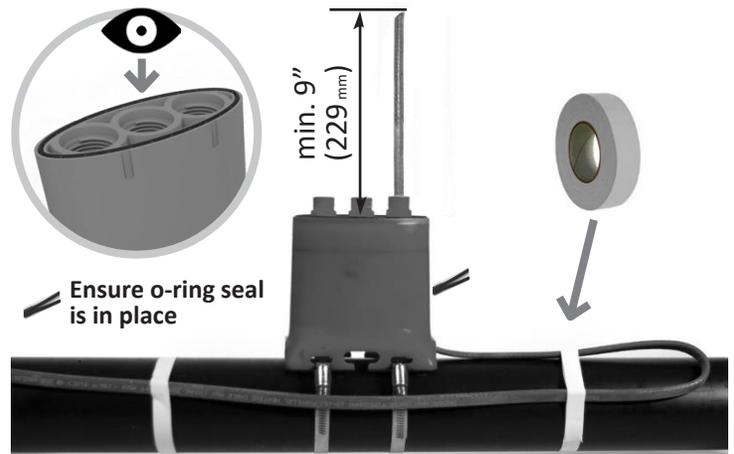
3. Apply supplied silicone grease to cable jacket and feed cable(s) through the stanchion, piercing grommet  membrane.



4. Attach stanchion with pipe clamps.  Do not tighten clamps onto cable.



5. Ensure min. 9" (229mm) remains for cable termination and tape service loop.



6. Tighten all 3 connectors until they bottom out and tops are flush with each other.



7. Cut outer jacket flush with connector and remove.  
 ✂ Do not cut (damage) grounding braid.



8. Wrap tape around the braid 1" (25 mm) from end of the outer jacket cut back.

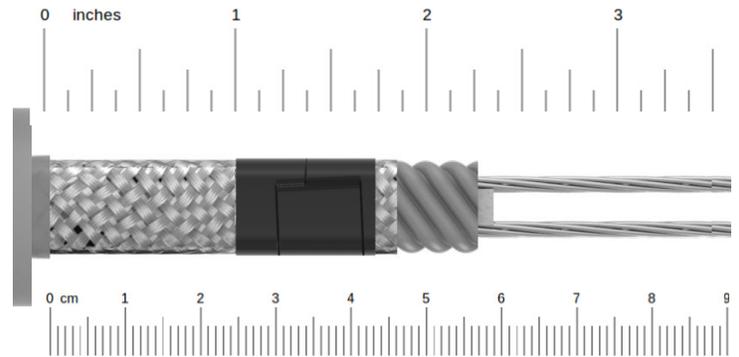


**9A. For PipeGuard Hot (PGH)**

Cut the braid and inner jacket ½" (13 mm) from the outer edge of the tape. Remove the braid, inner jacket, black fibers and spacer.



- 9A. ✂ Trim the braid back to the edge of the tape.  
 ✂ Do not damage the inner jacket.

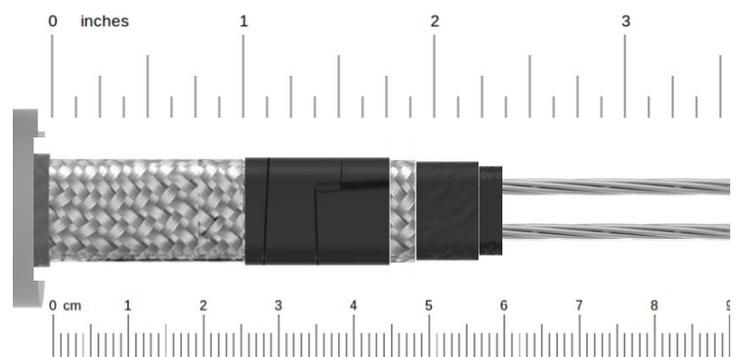


**9B For PipeGuard Warm (PGW) or MultiTrace (MT) Cable**

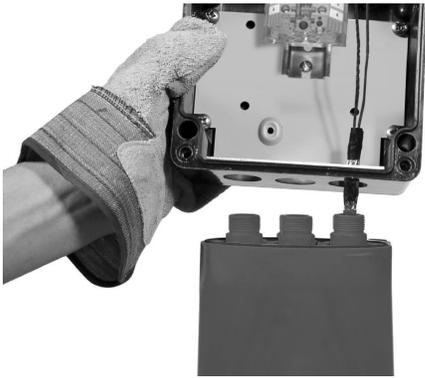
Cut the braid ½" (13 mm) from the outer edge of the tape. Remove the braid.  
 Cut down the middle of the inner core between bus wires. This can be done with scissor or knife. The core sealer will fit over the bus wires while still encapsulated by the heater core. It is not necessary to expose the bare bus wires.



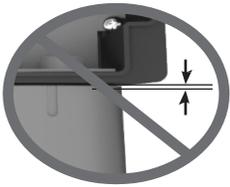
- Trim the braid back to the edge of tape.  
 ✂ Do not damage the inner core.



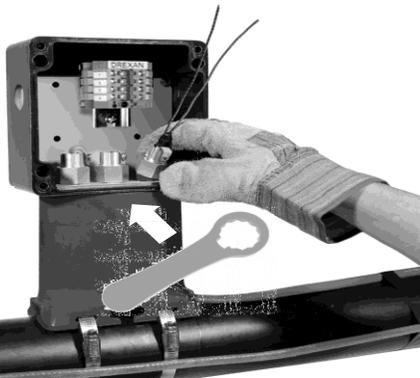
- 10.** Slide junction box onto pipe stanchion.



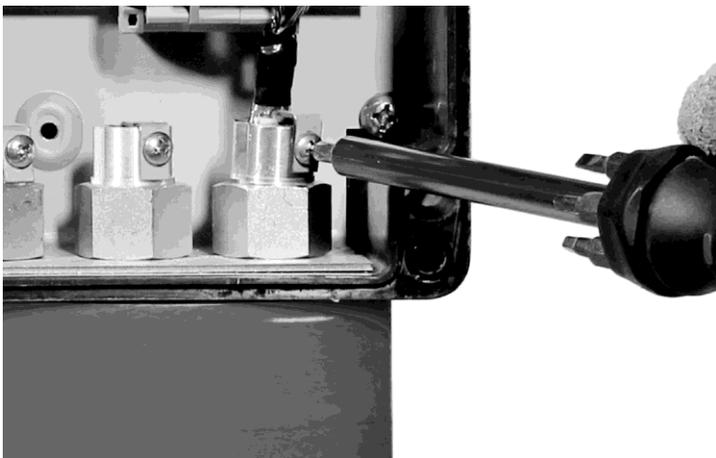
- 11.** Thread grounding nuts onto connectors, beginning with middle nut. Tighten using Drexan supplied wrench.



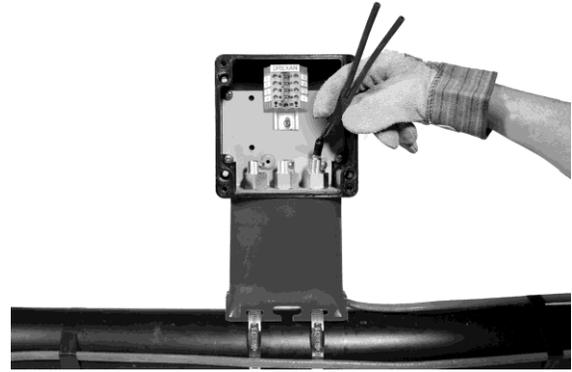
Ensure that no gap remains between stanchion and junction box for tight seal.



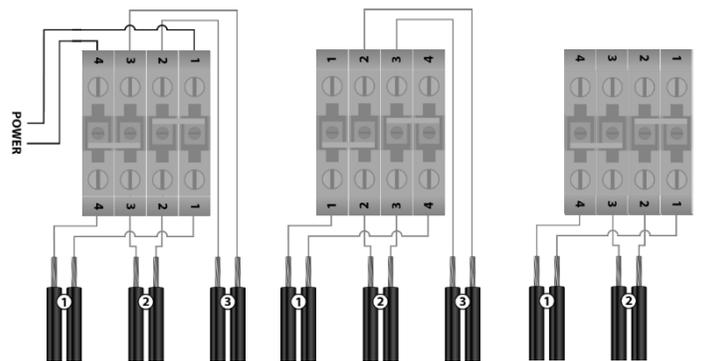
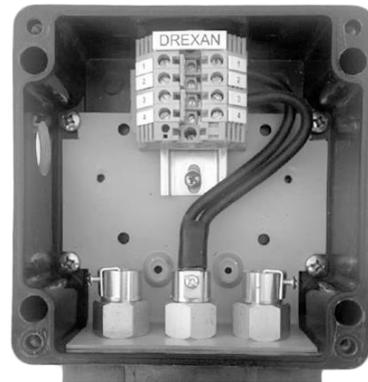
- 12.** Tighten screws to capture braid under grounding contact. Ensure good grounding contact.



- 13.** Install Core Sealer over bus wires.



- 14.** Feed field wiring power and ground conductors into the cutout in junction box using suitable wiring method. For hazardous location installations the wiring method shall comply with one of the wiring methods permitted in the NEC or CEC (as applicable) for hazardous location classification of the installation. Ensure the grounding conductor and raceway used for field wiring are grounded on the grounding plate inside the junction box



Power 1-3 heaters

In-line tee 3 heaters

Splice 2 heaters