AMIGA-3

DREX0069

INSTALLATION INSTRUCTIONS

These installation instructions are for use with Drexan Energy Systems PipeGuard® Hot (PGH), PipeGuard Warm (PGW) and MultiTrace® (MT) 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 4

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 DESIGNE NON DANGEREUX.

*Approvals

CSA C US
231572

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

UL LISTED C US

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.
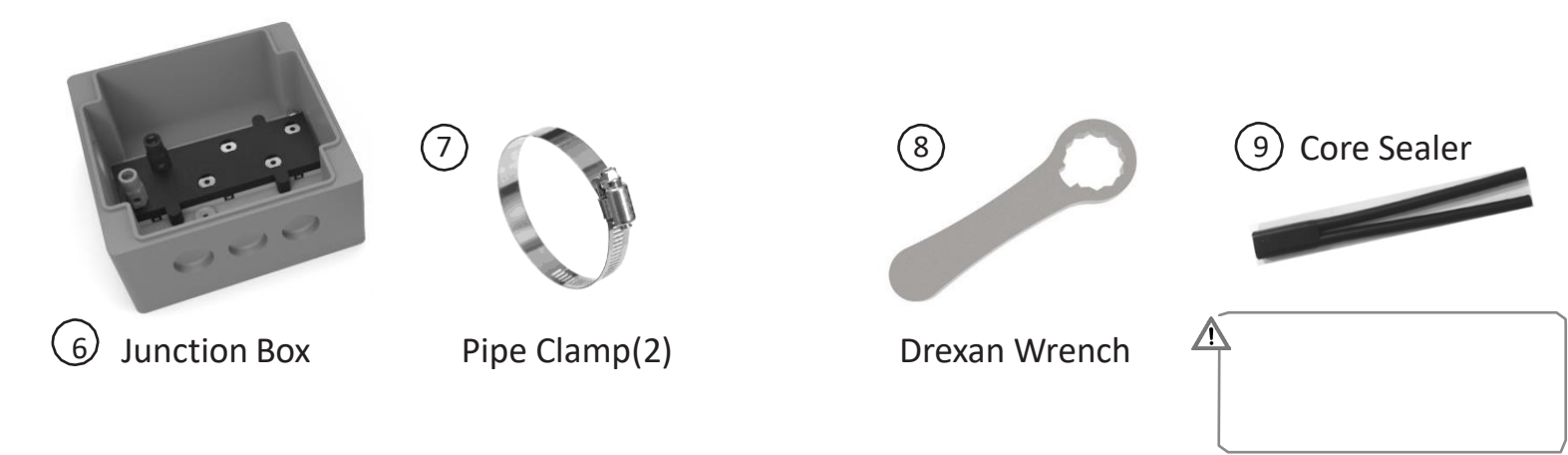
Cable-SpecificSpecifications

PGH only:
5-20 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 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

① ② ③ ④ ⑤

⑥ Junction Box

⑦ Pipe Clamp(2)

⑧ Drexan Wrench

⑨ Core Sealer

⚠

Additional Materials Required

Knife

Multi Head Screwdriver

Tape

Additional Core Sealer / tube(s)
(order separately as required)

1. Cut cable at 45° angle to pierce grommet. Allow min. 15" (381 mm) for cable termination and min. 12" (305 mm) for the service loop.

min. 15" (381 mm)

45°

min. 12" (305 mm)

SERVICE LOOP
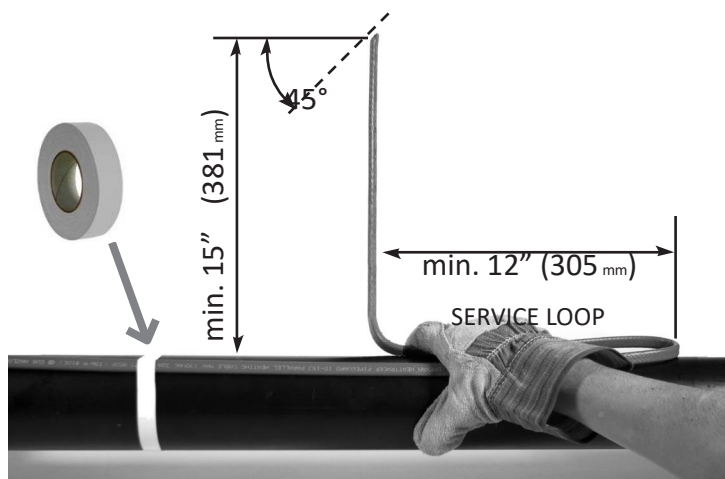
2. Ensure the shoulder of the connector is flush with stanchion.
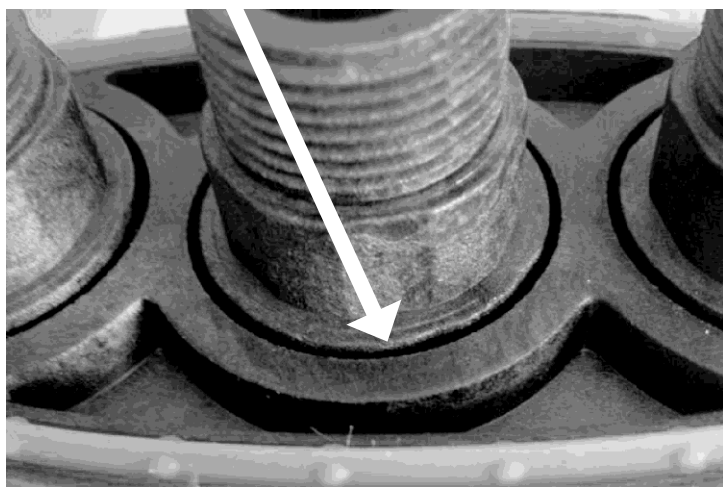
3. Feed cable(s) through the stanchion, piercing the grommet membrane.

For unoccupied positions ensure that grommet seal is unbroken.
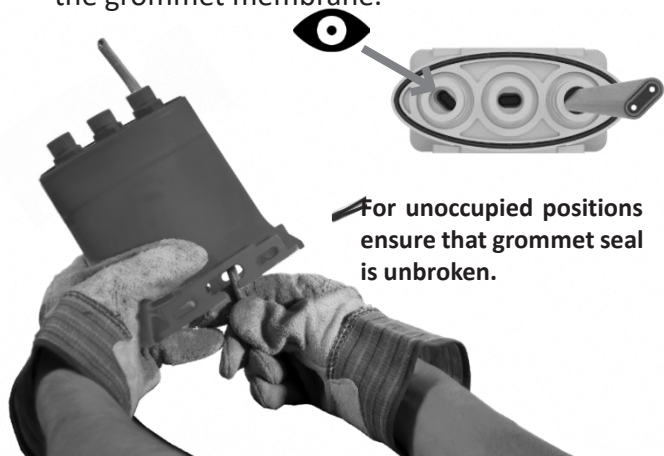
4. Attach stanchion with pipe clamps.
Do not tighten clamps onto cable.

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

min. 9" (229 mm)

Ensure o-ring seal is in place
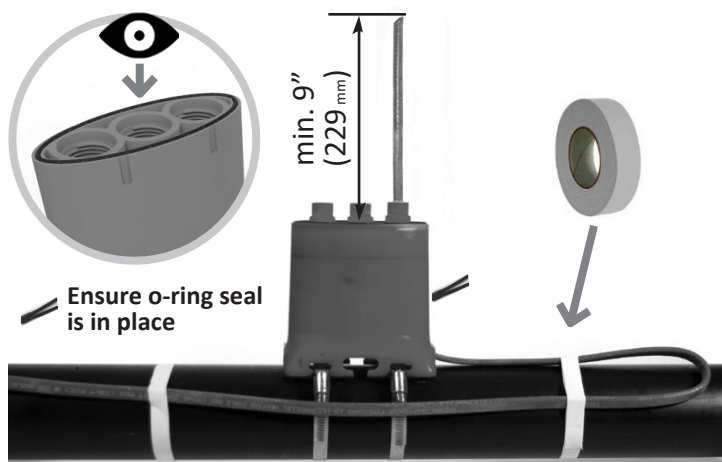
6. Tighten all 3 connectors until they bottom out and tops are flush with each other.

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

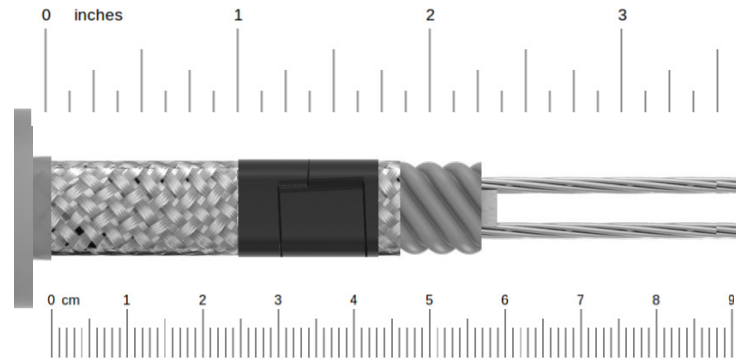**8.** Wrap tape around the braid 1" (25 mm) from end of the outer jacket cut back.

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.
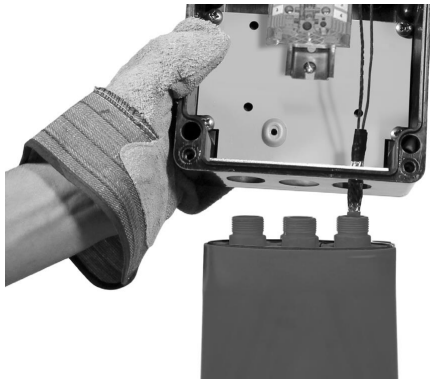

Trim the braid back to the edge of tape.
> ✎ **Do not damage the inner core.**
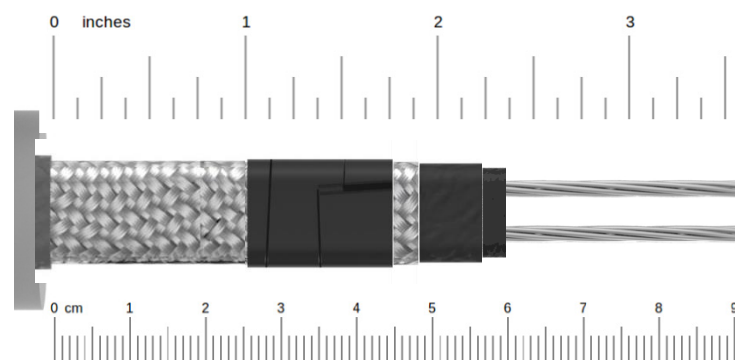
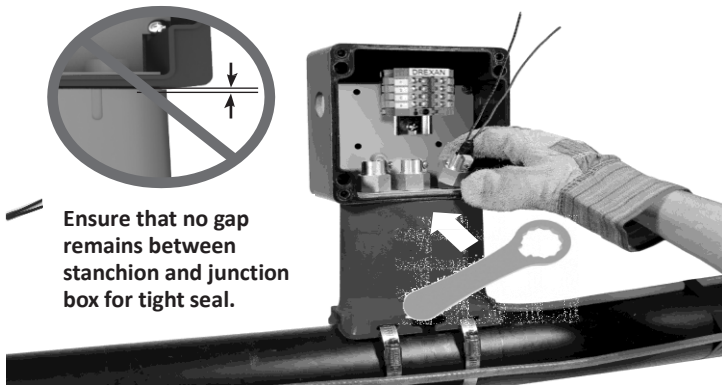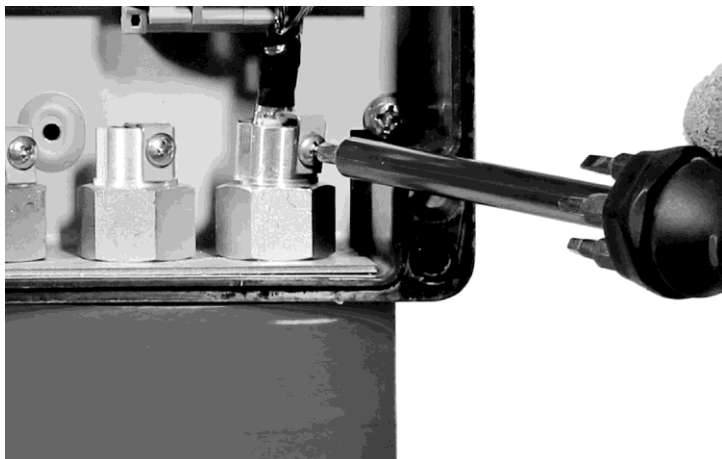**10.** Slide junction box onto pipe stanchion.

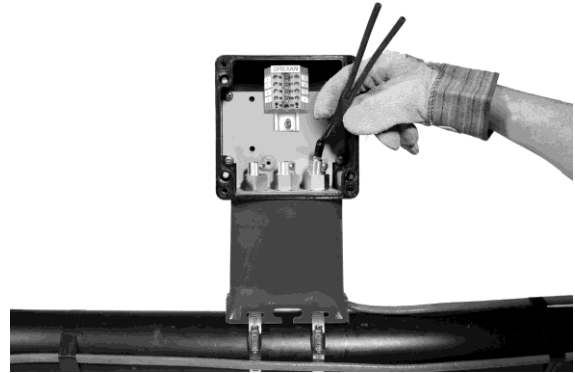**11.** Thread grounding nuts onto connectors, beginning with middle nut.
Tighten using Drexan supplied wrench.

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 permitteed 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