Installation Instructions

PGH-TERM-E

PipeGuard® Hot Power Connection

These installation instructions are only for use with the following Drexan HeatTracer Self-Regulating heater products:

PipeGuard Hot (PGH)

⚠ **WARNING**: This is an electrical device and in order to ensure proper operation and prevent shock or fire it must be installed correctly. This equipment is designed to satisfy the requirements of Clause 1.2.7 of the Essential Health and Safety Requirements Annex II of Directive 94/9/EC. Read these important warnings. Follow all installation instructions.

CAUTION: Ground-fault equipment protection is required for each circuit 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. Any repairs or parts replacement must be done by Drexan or its appointed agent. Substitution of parts, or utilization in a manner not specified by Drexan may impair equipment protection and void warrantee, approvals and performance claims.

Screwed entry compression glands as supplied by Drexan Energy Systems Inc. shall provide an ingress protection rating of at least IP 54, have been selected with due regard to thermal suitability, the current state of technical knowledge of explosion protection and have been suitably certified by a notified body.

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.

Components and heating cable ends must be kept dry before and during installation. Fire-resistant thermal insulation materials should be used. De-energize all power circuits before installation or servicing.

Where the equipment may be installed in locations where it may be subject to damage, or exposed to excessive external stresses (e.g. vibration, heat, impact) or aggressive substances, it must be protected by additional means of protection.

APPROVALS

CE

Ex II 2G Ex e IIC T6 Gb

0518

Sira 12ATEX3095X

120 – 277 Volt
5 – 20 W/ft, Max. 40A. Max. intermittent exposure temp. +230˚C.
Minimum bend radius: 44 mm @ -40˚C.

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

KIT CONTENTS

- Insulated Crimp Splice
- Cable Gland Assembly
- Cold Applied Core Sealer
- Installation Instructions
- Warning Label

REQUIRED BUT NOT PROVIDED

Materials

- Pipe Straps
- Cable Lubricant
- Glass Fiber Cloth Tape, Drexan Cat.# TAPE-GCR-HT / TAPE GCS-LT or equivalent
- Certified Junction Box

Equipment

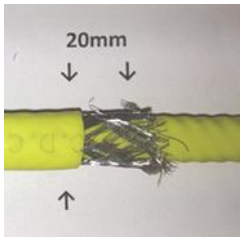
- Utility Knife
- Wire Cutter
- Multi-head Screwdriver
- Wire Stripper
- Crimp Tool
- Pipe Wrench

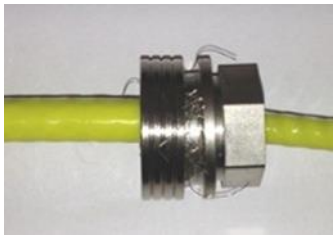
ASSEMBLY INSTRUCTION DETAILS

1. Allow approximately 60cm of heating cable for installation from the pipe.

   Note: When terminating PGH (high temp) cable use grommet #20

2. Disassemble the Cable Gland and install the Entry Body into the enclosure. Thread the heater through the components (less Entry Body) until the heater end is exposed.





3. Strip the outer jacket and braid 18 cm from the end of the heater cable. Trim back outer jacket approximately 20 mm to expose ground braid.

4. Position the cone and clamping ring on each side of the exposed ground braid. Splay out braid to fit cone and capture the ground braid with the clamp ring.
5. Strip back inner jacket to within 50 mm of the outer jacket cut back. Remove the heating fiber and cut back the spacer between the conductors.

6. Slide the core sealer over the bus wires of the cable and over the inner core.
   Note: Ensure the crotch of the core sealer is tight up to the inner jacket separating the two bus wires.




7. Insert cable and inner grommet into Entry Body and thread on the Mid Cap onto the Entry Body and compress the grommet into the Entry Body.
8. Insert the Outer Grommet into the Mid Cap and compress with the Bushing and Back Nut.
9. Feed Power Conductor into Housing in accordance with Local Electrical Codes and Standards suitable for the application ensuring that the power connection is grounded. The presence of the trace heaters shall be made evident by the posting of caution signs or markings at appropriate locations and/or at frequent intervals along the circuit.

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