

Installation Instructions

HS-PC-E

HeatShrink Power Connection / End Seal Kit



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

PipeGuard® Warm (PGW) and MultiTrace® (MT)

⚠ 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.

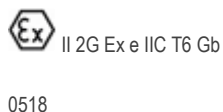
The heating cable core is conductive and can short if not properly insulated and kept dry.

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



120 – 277 Volt
3 – 10 W/ft, Maximum 32A. Maximum continuous exposure temperature +65°C. Minimum bend radius: 30 mm @ 20°C
This kit may be installed in temperatures as low as -40°C.

KIT CONTENTS

- Cable Gland Assembly
- Lock Nut and Sealing Ring
- (3) Wire Nuts
- Grounding Ring, Washer and metric bushing
- Cold applied core sealer
- (2) Warning Labels
- End Seal kit (heat shrink cap and 25 mm tube)
- Installation Instructions

REQUIRED BUT NOT PROVIDED

Materials

- Certified Junction Box for suitable location

Equipment

- Utility Knife
- Wire Stripper
- Heat Gun
- Wire Cutter
- Crimp Tool
- Needle Nose Pliers
- Multi-head Screwdriver
- Pipe Wrench

ASSEMBLY INSTRUCTION DETAILS – POWER CONNECTION

1. Slide parts onto cable as shown below.

Note: If enclosure entry is threaded install the entry body into the threaded hub.



2. Strip the outer jacket and braid 18 cm from the end of the heater cable. Trim back outer jacket approx. 20 mm to expose ground braid. Trim inner jacket 50 mm from outer jacket cut back.



3. 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.



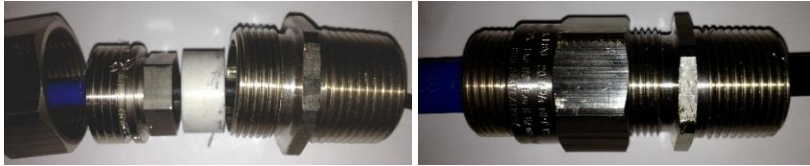
4. Notch core. Peel one of the conductors from the core. Score core between the conductors as close as possible to cut-back end. Peel core from remaining conductor. Clean conductor wires until wires are completely exposed.

5. Slide the core sealer over the bus wires of the cable and over the inner core.

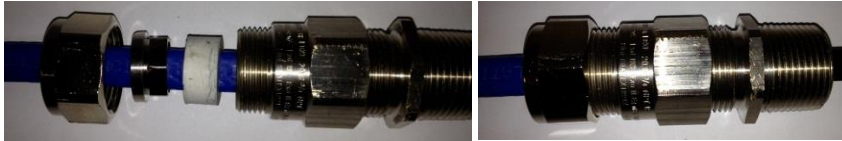
Note: Ensure the core sealer crotch is tight up to the inner jacket separating the two bus wires.



6. 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.

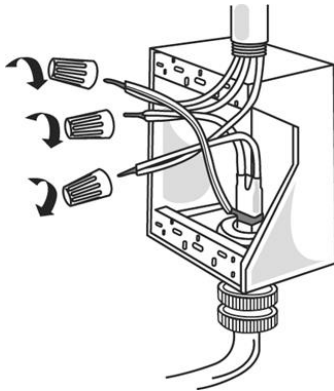


7. Insert the Outer Grommet into the Mid Cap and compress with the Bushing and Back Nut.



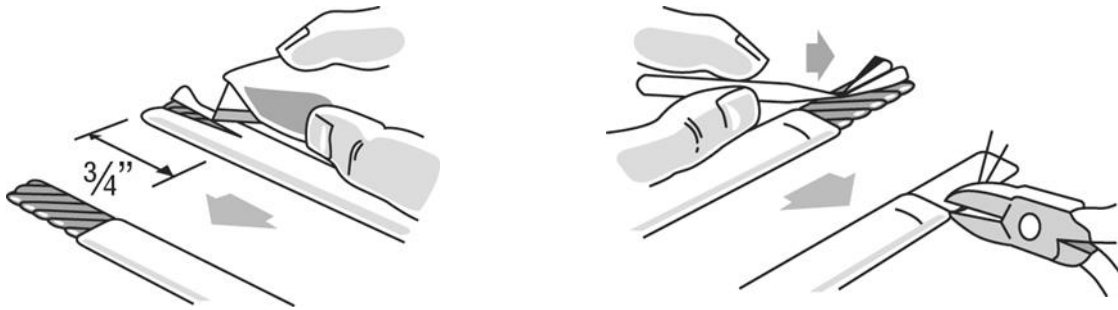
8. Make connections in an approved box for the application. The presence of the trace heaters shall be made evident by the posting of caution signs or markings at appropriate locations and/or at frequent intervals along the circuit.

Note: Install the grounding washer inside the box below the locking nut unless using a metallic enclosure.

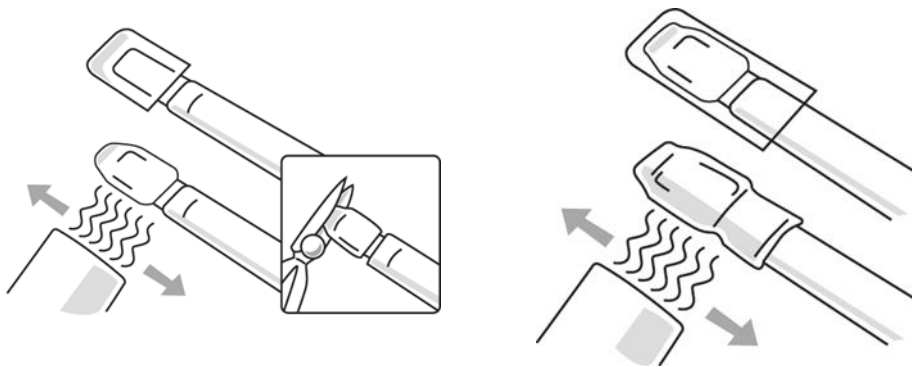


ASSEMBLY INSTRUCTION DETAILS – END SEAL

1. Strip outer jacket as shown 18 mm. **Do not cut into inner jacket.**
2. Unravel ground braid and trim outer jacket cut back.



3. Heat shrink tubing in place with 10 mm over end of heating cable. Remove heat and squeeze with needle-nose pliers. Hold for 15 seconds.



4. Heat shrink cap in place over smaller heat shrink tube until inner sealant starts to appear out from the boot edge.

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