

## Installation Instructions

### HP-FG-PC-LT

### High Profile Fiberglass Power/Splice (Low Temperature)



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. Read these important warnings. Follow all installation instructions.

**CAUTION:** Ground-fault equipment protection must be used 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 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.

#### SPECIFICATIONS

120 – 277 Volt

3–10 W/ft., maximum 32A.

Maximum continuous exposure temperature 150°F/65°C.

Minimum bend radius: 1.18 in. (30 mm) @ 68°F/20°C.

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

#### APPROVALS



C US

231572



E484945/E480818

Class I, Div. 2, Groups A, B, C, D

Class II, Div. 2, Groups E, F, G

Class III

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Kelowna, BC, Canada, V4V 1S5

## KIT CONTENTS

- Enclosure with hub
- Dual cable high temp grommet
- 3/4" x 3" Nipple
- 3/4" Rigid Coupling
- Wire Nut (3)
- 3/4" Sealing Ring
- 2-10" Pipe Straps (2)
- Warning Label
- Aluminum Strain Relief (cap, washer, grommet, base)
- Crimp Sleeve (2)
- Galvanized Pipe Bracket
- Cold applied Core Sealer (2)
- 1/2" x 2.5 cm Heat Shrink
- Heat Shrink Cap
- (2) 3/16" tubes
- Installation Instructions (HS-ESK and HP-FG-PC-LT)

## REQUIRED BUT NOT PROVIDED

### Equipment / Materials

- Utility Knife
- Multi-Head Screw Driver
- Wire Cutter
- Wire Cutter
- Pipe Wrench
- Glass Fiber Cloth Tape, Drexan FG Tape or equivalent
- Cable Lubricant
- Crimp Tool

## ASSEMBLY INSTRUCTION DETAILS

**Note:** if using as a splice replace the one-hole grommet in the strain relief with the supplied 2-hole grommet.

1. Allow approximately 32" (80 cm) of heating cable for installation from the pipe. Screw 3/4" Nipple into GUP215 Housing. Attach Rigid Coupling to the base of the Nipple.



2. Disassemble the Strain Relief assembly, cut heaters on approximately a 45° angle. Lubricate heaters with cable lubricant and thread heaters through Strain Relief cap, washer and grommet respectively (wide end towards washer) until 8" (20 cm) of the heater end is exposed. Put Strain Relief base aside.
3. Taking care not to cut the Ground Braid, remove 7" (17.8 cm) of outer jacket from the Heater.



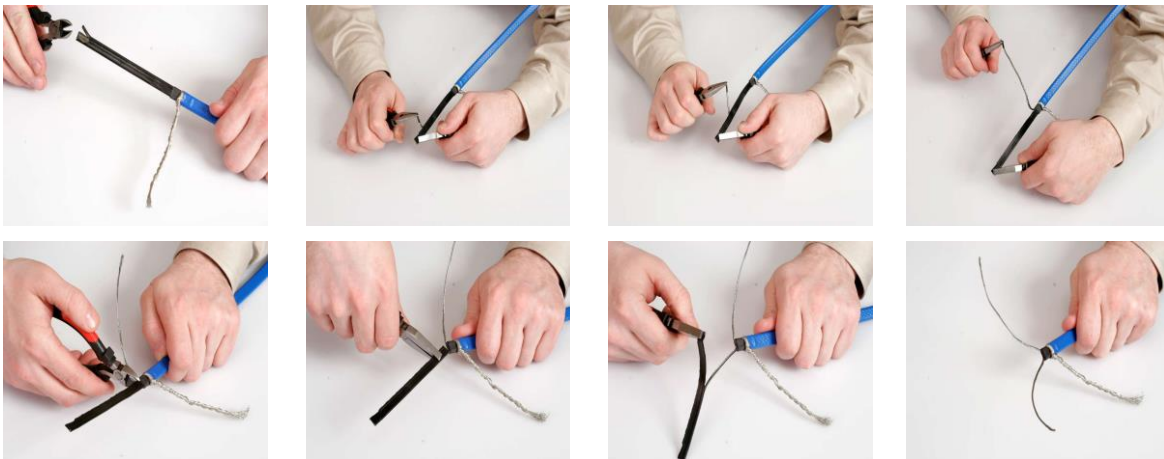
4. Push ground braid back towards the outer jacket cut back. Make a buckle in the braid. With a screw driver, create an opening in the ground braid without cutting it, big enough to pull the cable through. Bend cable enabling it to push through the opening in the ground braid. Twist the ground braid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



5. Strip back inner jacket and clear membrane within 1½" (38 mm) of the 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.



7. Place the supplied tube over one bus wire prior to sliding the core sealer over the bus wires - this will provide added protection from a short between the two bus wires). Then 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.



- Assemble the Stand by placing it between the Rigid Coupling, a  $\frac{3}{4}$ " sealing ring and a Strain Relief Housing. Tighten the Junction Box, 3" (7.5 cm) Nipple, Rigid Coupling, Stand and Strain Relief Housing until all are snug using appropriate tools.



- Feed the Heater Conductors and Ground Wire through the Strain Relief Housing up the 3" (76 mm) Nipple and into the Junction Box. Fit the Heater Strain Relief Grommet into the Strain Relief Housing. Locate the Strain Relief Nut and Washer and tighten hand tight.



- Feed Power Conductor into Junction Box in accordance with Local Electrical Codes and Standards suitable for the application ensuring that the power connection is grounded.
- Connect power conductor cables to Heater Conductors.
- Check that the connections are firm. Cut, strip and splice conductors again if necessary.
- Check Ground Connections to ensure they are firm.
- Push conductors into the Junction Box taking care not to kink wires or expose conductors.
- Retighten Strain Relief Nuts ( $\frac{1}{4}$  turn) with a wrench.
- Install lid on Junction Box making sure not to pinch conductors.
- Find a suitable location and affix the Electrical Warning Label. 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.