

Installation Instructions

PP-PC-OL

PowerPod® Power/Splice Connection System Low Temperature - Ordinary Locations




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

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

Note: The PP-PC-OL Connection system can be used as a heater-to-heater splice

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

 **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 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.

Do not use substitute parts or substitute electrical tape. Component approvals and performance characteristics are based on Drexan specific parts only. Substitution will void warrantee, 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.

APPROVALS



Ordinary Locations

231572

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

Drexan Energy Systems, Inc.
Kelowna, BC, Canada, V4V 1S5

KIT CONTENTS

- PowerPod – assembled
- Retaining Washer – Power Cable
- Grommet – Power Cable
- Installation Instructions

REQUIRED BUT NOT PROVIDED

Materials

- Pipe Straps
- Glass Fiber Cloth Tape, Drexan FG Tape or equivalent

Equipment

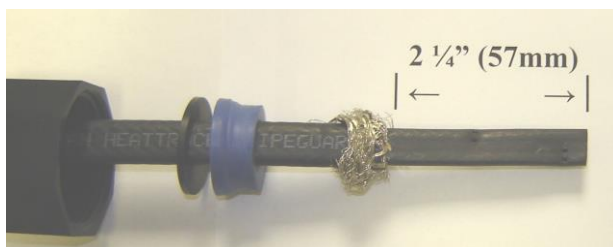
- Utility Knife
- Wire Cutter
- Multi Head Screw Driver
- Pipe Wrench

ASSEMBLY INSTRUCTION DETAILS – HEATING CABLE SIDE

1. Allow approximately 2' (60 cm) of heating cable for installation from the pipe.
2. Mount the PowerPod housing to the desired location.
3. Disassemble and slide the compression nut, retaining washer and grommet onto the cable approximately 12" (30 cm) from the end of the cable.
4. Cut the heating cable straight across.
5. Strip 2¼" (57 mm) of the outer cable jacket from the heating cable taking care not to cut the ground braid.



6. Roll the ground braid back over the heating cable outer jacket.



7. Ensure the screws are loosened on the contact terminals so the cable will pass under the cutting teeth of the contact terminal.
8. Push the heating cable into the desired location of the PowerPod until the cable contacts the end of the channel.
9. Position the grommet in the housing ensuring that the heater braid is compressed between the grommet and the ground guide in the PowerPod.
10. Tighten the ground screw to engage the ground spring to the cable braid and secure the heating cable to the power connection kit with the compression nut.
11. Make the electrical connection with the heating cable bus wires by tightening the contact terminal screws until the contact terminal bottoms out. Note: the lid cannot be properly closed until the screws on the contact terminal are tightened and the electrical connection is made.
12. Repeat as required for the other side if a heater to heater splice is required.

ASSEMBLY INSTRUCTION DETAILS – POWER CABLE SIDE

Insulated power cable method or conduit method.

Note: If using conduit or male $\frac{3}{4}$ inch NPT strain relief for power side eliminate step 1 & 2.

1. Slide Compression nut, retaining washer and power cable grommet (round hole) onto the power cable.
2. Strip back $2\frac{3}{4}$ " (70 mm) of power cable jacket.
3. Remove and discard the nut, washer and grommet.
4. Remove the ground guide spring above the Ground Guide (stamped "GG2") and reinstall the ground screw.
5. Place striped conductor under contact terminals as shown in the photo and tighten contact screws. Be sure to connect the ground to the ground screw.



6. Attach lid and tighten down all six screws until there is no visible gap, ensuring an environmental seal.