

PCK-HT

HT Series Power Connection Kit



- A. Aluminum Stand Off
- B. Silicone Sealant
- C. Fiberglass Tape
- D. End Cap .5" x 1.5" (1 x 11cm) (2)
- E. Caution Label
- F. Ground Screw
- G. Ring Connectors (2)
- H. Large Non-Insulated Butt Splice (3)
- I. Small Non-Insulated Butt Splice (2)
- J. Stainless Steel Pipe Straps (2)

DESCRIPTION

PCK-HT allows you to make electrical connections with all High Temperature Series self regulating heating cables in process heating or pipe tracing applications. The kit contains material for one power connection, OR one splice connection, OR one power input splice and two end terminations.

ITEMS REQUIRED BUT NOT SUPPLIED

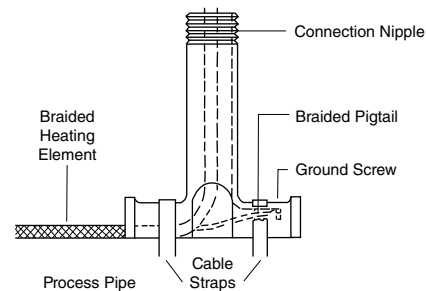
- Weather-Tight Junction Box, .75" (2cm) Hub
- Pipe Straps For Pipes Larger Than 6" (15cm)

TOOLS REQUIRED

- Crimping Tool
- Utility Knife
- Needle-Nose Pliers
- Heat Gun or Torch
- Wire Stripper/Cutter
- Flat-Blade Screwdriver
- Adjustable Wrench
- Measuring Tape

CONNECTING TO POWER

1. Insert the heating cable through the connection nipple, allowing 6" (15cm) to extend beyond the top of the connection nipple.



Detail 1.

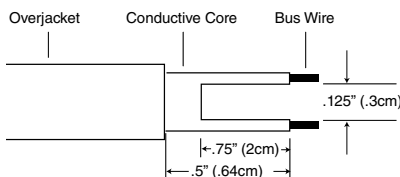
2. Place the connection nipple on the pipe surface at the point where the conduit will connect into the system. Fasten the connection nipple to the pipe using the metal pipe straps.
3. Screw the appropriate size connection box (not supplied) onto the connection nipple. Connect the conduit to the connection box. Pull appropriate size input power wires (not supplied) through the conduit into the connection box.
4. Separate the cable conductors as outlined in the Stripping The Cable section.



- Connect the cable bus wires to the input power wires using the non-insulated barrel connectors. Apply silicone sealant to each barrel connector, then tape each connector separately with fiberglass tape. Seal the splice area and tape the barrel connectors together with fiberglass tape.
- Using silicone sealant, fill the connection nipple from the top.
- Push the splice and input power wires into the connection box, then attach the gasket and cover.
- Attach the caution label to the connection box cover.

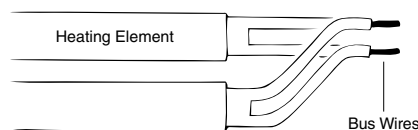
STRIPPING THE CABLE

- Remove the outer jacket 1" (3cm) from the end, exposing the core.
- Cut out a strip of core material .125" wide x .75" long (.32cm x 2cm).



Detail 2.

- Score around each bus wire .25" (.64cm) from the end, being careful not to cut the wires inside.
- Bend the core material at the scored points of each bus wire with pliers to break the core-to-wire bond.
- Remove core material from conductors with razor blade or knife.



Detail 3.

MAKING AN INPUT POWER SPlice

- Follow steps 1 through 4 of the Connecting To Power section.
- Twist one bus wire from each cable together with a bus wire from the other cable, connecting the cables in parallel (Refer to Detail 3). Crimp a barrel connector onto each lead.
- Slide the input power wires into the open end of the barrel connectors, then crimp.

- Seal each barrel connector with silicone sealant, then tape them separately with fiberglass tape. Seal the splice, making sure to coat the area between the cables, then tape the barrel connectors together with fiberglass tape.
- Push the splice and input power wires into the connection box and attach the gasket and cover.
- Attach the caution label to the connection box cover.

MAKING A SPlice CONNECTION

- Cut the heating cables to extend 10" (25cm) beyond the established splice point.
- Follow steps 1 through 8 of Connecting To Power section, using two cables instead of power leads.

GROUNDING BRAIDED CABLE FOR CLASS I, DIVISION 2 AREAS

- Remove 10" (25cm) of metallic braid from the end of the heating cable.
- Unravel the next 2" (5cm) of metallic braid and twist into a pigtail. Attach the ring connector to the pigtail.
- Connect the ring connector to the connection nipple using the grounding screw.

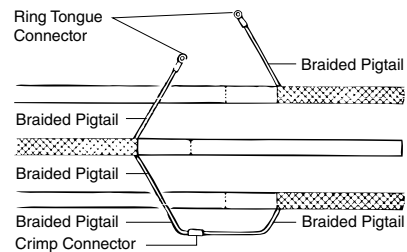
MAKING A TEE SPlice

- Follow instruction for input power splice connection, using three cables and no power input connections.
- For Braided Heater: Remove 10" (25cm) of metallic braid from all three cables.
- Unravel 2" (5cm) of metallic braid from each cable.
- Separate the braid on the single cable into two equal strands. Twist the braid to form two pigtails on the single cable and one pigtail each on the other cables.

TECHNICAL SUPPORT

Please call Delta-Therm Corporation at 1-800-526-7887 with any installation or operating questions.

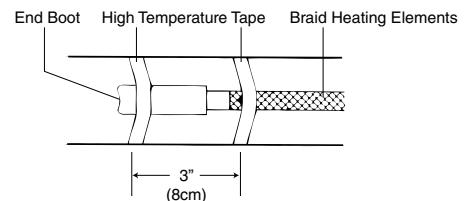
- Connect braid pigtails, using one barrel connector and two ring connectors.



Detail 4.

TERMINATING THE CABLE

- Remove the metallic braid 3" (8cm) from end.
- Trim the end of the heating cable so that one bus wire is .25" (.64cm) shorter than the other.
- Fill the end cap with silicone sealant and slide it onto the heating cable, ensuring that the bus wires do not touch each other. Using fiberglass tape, fasten the cap into place.
- Using fiberglass tape, fasten the heating cable onto the pipe.



Detail 5.



WARNING

WARNING: This kit and the cable used with it must be installed by a qualified electrician. All assembly, installation, and test instructions must be followed. Improper installation can result in property damage, serious injury, and/or death due to electric shock and fires. Please call Delta-Therm Corporation at 1-800-526-7887 with any installation or operating questions.