DELTA-THERM

PCK-TT

TT Series Power Connection Kit

A. Heat Shrink Sleeve .375” x 6” (1 x 15cm)
B. Cable Connector Assembly
C. Standoff Bracket
D. Fiberglass Tape
E. Heat Shrink Sleeve .5” x 1.5” (1 x 11cm)
F. Grounding Screw
G. Closed-End Crimp Connectors (2)
H. Ring Connector
I. .75” Sealing Locknut
J. Heat Shrink Sleeve .25” x 1.5” (.5 x 11cm)
K. Heat Shrink Sleeve .125” x 2.5” (.3 x 6cm)
L. Caution Labels (6)

DESCRIPTION
PCK-TT allows you to make electrical connections with all Thrifty Trace Series self regulating heating cables in pipe tracing applications. The kit contains material for one power connection and one end termination.

ITEMS REQUIRED BUT NOT SUPPLIED
Weather-tight Junction Box, .75" (2cm) Hub, and Pipe Strap

TOOLS REQUIRED

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

CONNECTING TO POWER
For Braided Cable

1. Remove 6" (15cm) of any optional overjacket.
2. Push the braid back to loosen it.
3. Approximately 6" (15cm) from the end of the cable, spread the braid strands to create an opening.

Detail 1.

4. Bend the cable at the opening, then pull the cable through the opening to free the braid.
5. Twist the braid into a pigtail, then trim the pigtail to remove the tapered end.

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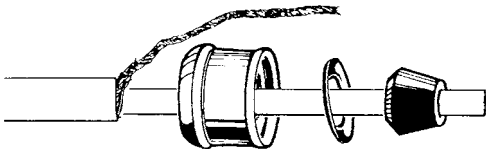
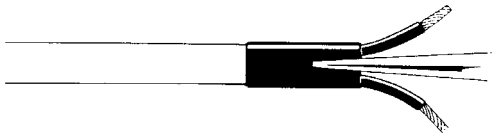
For All Cable

1. Insert the cable through the connector cap, the gland washer, and the grommet, leaving 4" (10cm) exposed from the end of the rubber grommet.



Detail 2.

2. Score and remove 1.75" (5cm) of the jacket to expose the black core.
3. Shave the black material from the bus wires along the edges of the core, then cut away the center material to free the bus wires.
4. Cut the .125" x 2.5" (.3cm x 6cm) piece of shrink sleeve in half. Slide the sleeves over each bus wire, leaving .5" (1cm) of bus wire exposed. Apply heat to shrink the sleeves.
5. Slide a .5" x 1.5" (1cm x 4cm) shrink sleeve over the two bus wires so that .75" (2cm) covers the cable body and .75" (2cm) covers the bus wires. Apply heat to shrink the sleeve. While the sleeve is still hot, use needle-nose pliers to squeeze the sleeve between the bus wires. To ensure a watertight seal, hold the pliers in place until the sleeve cools.



Detail 3.

6. Using a pipe strap (not supplied), fasten the standoff bracket to the pipe.
7. Insert the connector body through the bracket, then attach the junction box (not supplied) to the connector body.
8. Push the cable through the connector body, moving the grommet, the gland washer, and the connector cap to the connector body. Then tighten the cap to the body.
9. Attach the non-insulated ring connector to the pigtail, then use the grounding screw to attach the ring connector to the standoff bracket.
10. Using the closed-end crimp connectors, connect the bus wires to 10-14 AWG power feed wires.
11. Push the connection into the junction box, then attach the gasket and cover.

TERMINATING THE CABLE

Cable Without Braid Or Overjacket

1. Squarely trim the end of the cable, ensuring that the conductors do not touch each other.
2. Slide a .25" x 1.5" (.64cm x 4cm) shrink sleeve over the end of the cable, covering only 1" (3cm) of the cable.
3. Apply heat to shrink the sleeve. While the sleeve is still hot, use needle-nose pliers to squeeze the end of the sleeve. To ensure a watertight seal, hold the pliers in place until the sleeve cools.

Cable With Braid

1. Slide the braid back from the end of the cable and squarely remove 1.5" (4cm) from the end of the cable, ensuring that the conductors do not touch each other.
2. Slide a .25" x 1.5" (.64 x 4cm) shrink sleeve over the end of the cable, covering only 1" (3cm) of the cable.
3. Apply heat to shrink the sleeve. While the sleeve is still hot, use needle-nose pliers to squeeze the end of the sleeve. To ensure a watertight seal, hold the pliers in place until the sleeve cools.
4. Slide the braid over the shrink sleeve, then twist the end of the braid into a pigtail.

Cable With Braid And Overjacket

5. Score and remove 3" (8cm) of the overjacket from the end of the heater.
6. Slide the braid back from the end of the cable and squarely remove 1.5" (4cm) from the end of the cable, ensuring that the conductors do not touch each other.
7. Slide a .25" x 1.5" (.64 x 4cm) shrink sleeve over the end of the cable, covering only 1" (3cm) of the cable.
8. Apply heat to shrink the sleeve. While the sleeve is still hot, use needle-nose pliers to squeeze the end of the sleeve. To ensure a watertight seal, hold the pliers in place until the sleeve cools.
9. Slide the braid over the shrink sleeve, then twist the end of the braid into a pigtail.
10. Slide the .375" x 6" (1 x 15cm) shrink sleeve over the braid, leaving .5" (1cm) extending beyond the end of the pigtail.
11. Apply heat to shrink the sleeve. While the sleeve is still hot, use needle-nose pliers to squeeze the end of the sleeve. To ensure a watertight seal, hold the pliers in place until the sleeve cools.

ATTACHING THE CABLE TO PIPE

12. Using fiberglass tape, attach the cable to the pipe at one-foot intervals.
13. Attach a caution label in a visible location near the standoff bracket and at frequent intervals along the heat-traced pipe.

TECHNICAL SUPPORT

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

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.