

PCK-PT/PF

PT and PF Series Power And End Termination Kit For Ordinary And Hazardous Locations Class I, Division II, Groups B, C, And D

DESCRIPTION

PCK-PT/PF allows you to make electrical connections to the PT and PF series PowerTrace constant wattage heater cable. The kit contains materials for one power termination and one end termination.

HEATER ZONE MARKERS

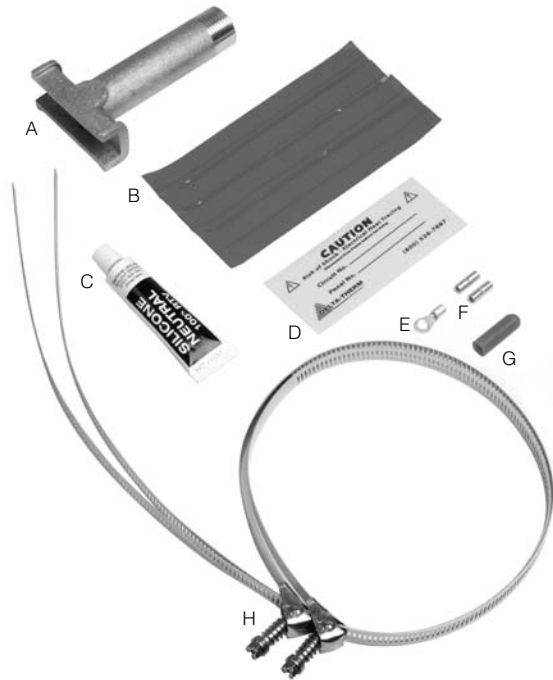
The heater zone markers for the PT cable are raised bumps on the cable edge. The markers on the PF cable may be raised bumps or slight depressions on the cable edge.

ITEMS REQUIRED BUT NOT SUPPLIED

- Weather-Tight Junction Box, With .75" (2cm) NPT Hubs.
- Conduit

TOOLS REQUIRED

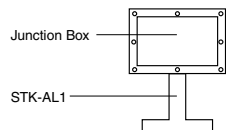
- Crimping Tool
- Wire Stripper/Cutter
- Utility Knife
- Screw Drivers
- Needle Nose Pliers
- Adjustable Wrench
- Measuring Tape



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|-----------------------------|--|
| A. Aluminum Stand Off | E. Ring Connector |
| B. Silicone Tape Pieces (4) | F. Large Non-Insulated Butt Splice (2) |
| C. Silicone Sealant | G. Silicone End Cap .5" x 1.5" (1 x 4cm) |
| D. Caution Label | H. Pipe Straps |

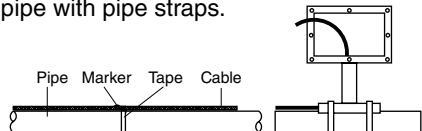
CONNECTING TO POWER

1. Install junction box over STK-AL1.



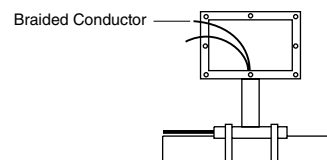
Detail 1.

2. Locate heater zone markers. Cut cable 12" (30cm) from the end of the marker. Pull the cable through the STK-AL1 into the junction box. (The last marker should remain fastened to the pipe.) Fasten the STK-AL1 to the pipe with pipe straps.



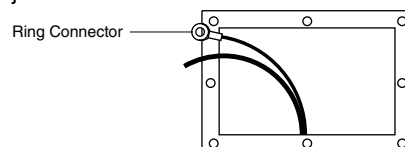
Detail 2.

3. Comb the braid back 4" (10cm) and twist into a conductor.



Detail 3.

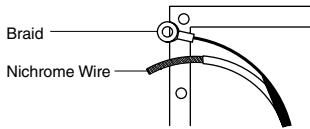
4. Crimp the ring connector to the braid and ground to the junction box.



Detail 4.

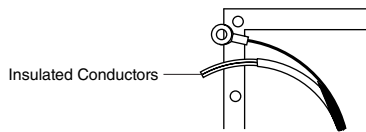


5. Remove 2" (5cm) of the outer jacket from the cable.



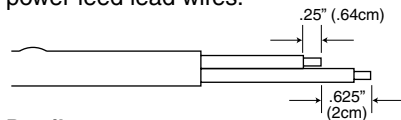
Detail 5.

6. Remove the nichrome wire from the insulated conductors. Tuck any remaining nichrome wire under the outer jacket.
7. Install conduit and power feed to junction box.



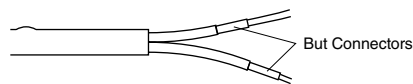
Detail 6.

8. Cut back one of the heater cable conductors .625" (2cm) so the splices will be staggered. Strip the leads back .25" (.64cm) on the heater cable conductors and the power feed lead wires.



Detail 7.

9. Butt splice the heater cable conductors to the power feed wires, using the non-insulated butt splices.



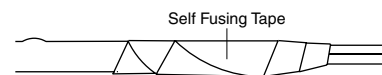
Detail 8.

10. Insulate the butt splices using the 6" (15cm) self fusing silicone tape pieces. (Note that the tape should be stretched tightly over the splices.)



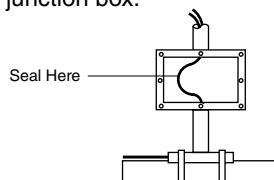
Detail 9.

11. Insulate the entire spliced area from the outer jacket side, to one inch past the spliced area. Use the 6" (15cm) piece of self fusing tape.



Detail 10.

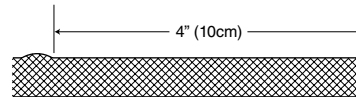
12. Seal the entry from the connection nipple with silicone sealant (RTV). Insert the splice into the junction box and cover. Fasten the caution label (CL-S) to the junction box.



Detail 11.

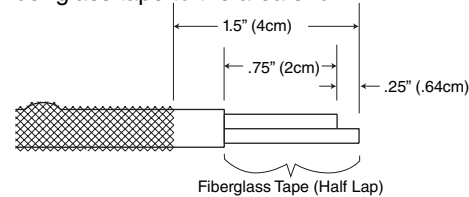
END TERMINATION (PT50)

13. Locate heater zone markers. Cut cable 4" (10cm) from the end of the last marker.



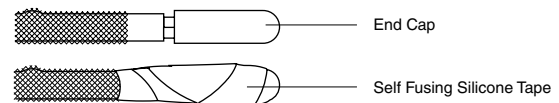
Detail 12.

14. Trim braid 1.5" (4cm) from the end of the cable. Remove .75" (2cm) of the outer insulation from the end of the cable. Remove the nichrome wire from the insulated bus wires. Stagger the bus wires by cutting one lead .25" (.64cm) shorter than the other (do not strip ends). Apply fiber glass tape to the area shown.



Detail 13.

15. Insert the cable end into the end cap completely. Seal the end cap by completely taping over the end cap with 6" (15cm) self fusing silicone tape. Start at the braid and half-lap (under tension) over the cap and double back over the cap finishing over the braid.



Detail 14.

BRAID

Remove the braid in areas to be terminated by combing the braid with care, or trimming to the dimensions indicated above.

Power termination side:

Twist the braid together to form a conductor. Crimp the ring connector to the braid, and fasten to the junction box.

End termination side:

Before trimming, wrap braid with electrical tape to hold in place. Trim to the dimension shown above.

TECHNICAL SUPPORT

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



WARNING

WARNING: The PCK-PT/PF 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, or death due to electric shock. Please call Delta-Therm Corporation at 1-800-526-7887 with any installation or operating questions.