

## SPK-PT/PF-5

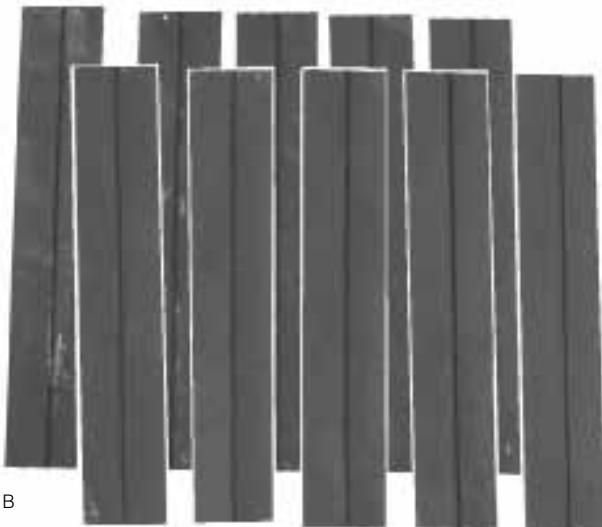
### PT and PF Series Splice Connection Kit



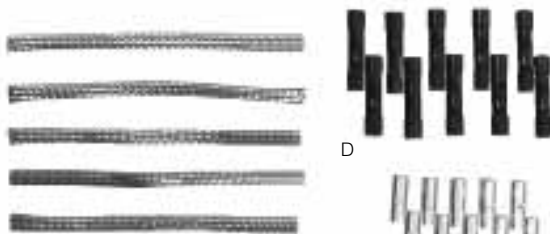
Warning: This kit and the cable used with it must be installed by a qualified electrician. All assembly, installation, and test instructions must be followed. Improper installation can result in property damage, serious injury, and/or death due to electric shock and fires. Please call Delta-Therm Corporation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



A



B



C



D



E

#### GENERAL

The SPK-PT/PF-5 allows making five in-line splice that is located under the insulation. It is designed for under insulation splicing applications not exceeding 200°F. High profile splicing, above the insulation, can be used where exposure temperatures exceed 200°F and/or improved maintenance capability is required. For those cases, use PT-T3SL, Tee Splice Kit, and its instructions along with the contents of this kit for in-line splices.

NOTE: The minimum ambient temperature at which this Kit should be installed is -5°F.

#### CABLE ZONE MARKERS

The 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. Markers alternate sides at the zone length. See specifications to determine the zone length for your cable.

#### ITEMS REQUIRED BUT NOT SUPPLIED

- Electrical Tape

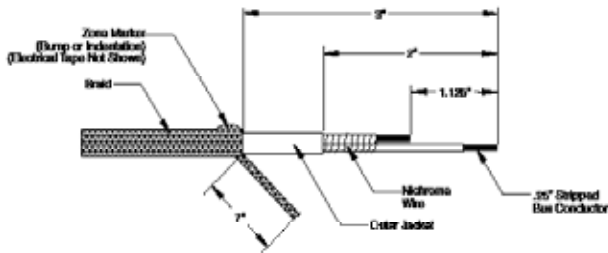
#### TOOLS REQUIRED

- Crimping Tool
- Wire Stripper/Cutter
- Utility Knife
- Measuring Tape

- A. Shrink Sleeve .75" x 5.25" (5)
- B. Silicone Tape, 6" long (10)
- C. Stainless Steel Braid, 3.5" long (5)
- D. Insulated Butt Splice (10)
- E. Uninsulated Butt Splice (10)



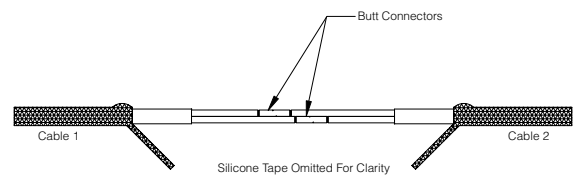
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Detail 1.

### TERMINATING PROCEDURE

1. Locate the heater zone marker on each cable to be spliced. Apply electrical tape over the zone marker to hold the braid in place. Cut the cables 3" from the zone marker. Cut braids back 2". Comb the braids back to the zone markers and twist into conductors. Trim the braid ends and crimp an uninsulated butt connector to each.
2. Remove 2" of the outer jacket from each cable. Remove all nichrome wire from each cable and tuck the ends under the outer jackets. Nichrome wire is the small diameter wire spiraled around the bus conductor insulation. Insert 5.25" long shrink sleeve over one cable.
3. Carefully separate the bus conductors without damaging insulation or exposing the conductor. Cut one conductor 1.125" back from the end. Strip .25" insulation from the end of each conductor. Line up the cables and cut the conductor opposite the uncut conductor of the first cable 1.125" so that the finished splices are staggered. Strip .25" insulation from the end of each conductor. Refer to detail 1.



Detail 2.

### SPLICING PROCEDURE

1. Crimp an insulated butt connector from the short conductor of Cable 1 to the long conductor of Cable 2. Refer to detail 2. Repeat the process with the remaining pair of conductors. Wrap the entire splice area with a 6" long piece of silicone tape, stretching the tape and ensuring the tape overlaps the outer jackets of each cable. Repeat the wrapping process starting from the end opposite the original starting point. Center the shrink sleeve over the splice area. Shrink completely assuring the adhesive flows at ends.
2. Twist the ends of the 3.5" long, stainless steel braid and crimp to each braid butt connector from Step 1. Remove the electrical tape from each cable.

### TECHNICAL SUPPORT

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