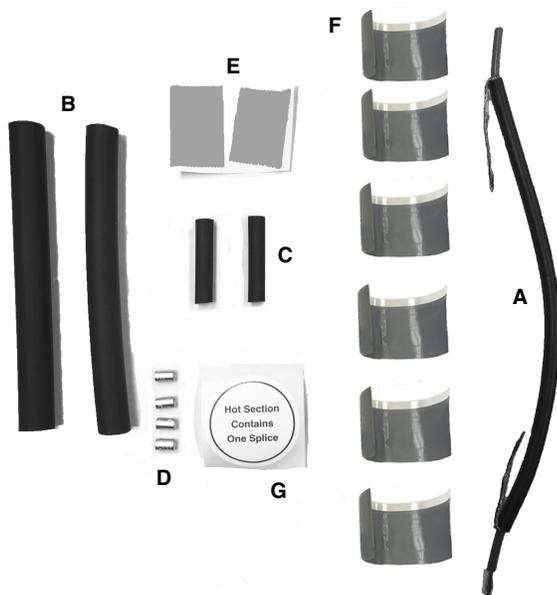


Splice Kit for Silicone Jacket Cable



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.



DESCRIPTION

The SPK-FW kit allows you to make A splice on FW Series cables.

CONTENTS

- A. 1 #10 AWG lead 6" long (prepared)
- B. 2 Heat Shrink Sleeves (5" long, .5" diameter)
- C. 2 Heat Shrink Sleeves (1" long, .25" diameter)
- D. 4 Parallel Connectors
- E. 2 Kapton* Tape, 1" long
- F. 6 70 Silicone Rubber Tape (2" long)
- G. Label

TOOLS REQUIRED

- Linesman's Pliers
- Utility Knife
- Crimping Tool
- Soldering Iron
- Heat Gun



WARNING

When applying heat shrink sleeves, ensure that you heat the entire surface area of the sleeve so that the waterproof adhesive melts evenly and the outer jacket adheres properly to the cable. Delta-Therm recommends that you use a heat gun to accomplish this.

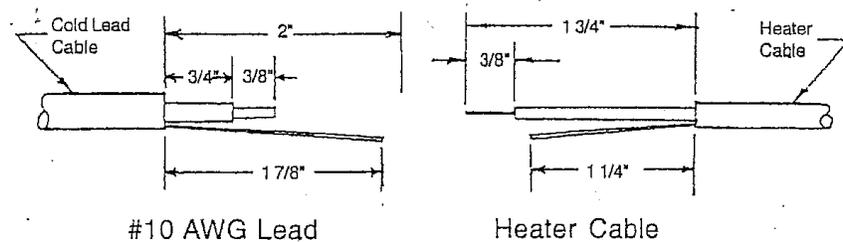
If you must use a torch, do so only with the greatest care to avoid melting the outer jacket. Failure to properly heat the waterproof sleeve may allow moisture to enter the self regulating cable core. If the core is then energized, arcing may occur, which may cause the core to ignite. Once ignited, the core may continue to burn even after power is shut off, possibly causing a fire and damaging property.

*Kapton is a registered trademark of Dupont.





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SPLICING THE CABLE

1. Prepare cold leads and heater leads per sketch. Exercise care in stripping to prevent breaking copper braid strands.
2. Scrape gold colored Kapton tape from exposed 3/8" heater cable center conductor.
3. Insert 5" long piece of 1/2" diameter and 1" long piece of 1/4" polyolefin shrink sleeving on each heater lead.
4. Crimp conductors using P550SL parallel connectors. Flatten connectors slightly after crimping to reduce height of edges.
5. Solder splices. Wrap splice using 1" of Kapton tape. Shrink 1" long sleeving over each splice.
6. Abrade primary silicone insulation using emery cloth.
7. Wrap splices with two layers of 70 silicone rubber tape. Each layer should be 2" long and stretched slightly when applied. Start wrap at cold lead end on first layer. Start second layer at heater cable end.
8. Crimp braids using P550SL parallel connectors. Be sure connectors are not tight and braids are carrying axial loads. Flatten connectors after crimping. Wrap splice using 1" of Kapton tape. Wrap splices with one layer of 70 silicone rubber tape. Stretch tape while applying.
9. Center 5" shrink sleeve over splices and shrink completely. Use heat gun attachment and shrink for at least 40 seconds.