

SPK-IN-5

Industrial (IN) Series Splice 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.



Detail 1.

DESCRIPTION

The SPK-IN-5 kit allows you to make 5 splices on IN Series cables. The kit is FM approved and CSA certified.

CONTENTS

- 5 Heat Shrink Sleeve (.75" x 6")
- 10 Insulated Barrel Connectors (10-12 AWG)
- 10 Insulated Barrel Connectors (14-16 AWG)
- 10 Non-Insulated Barrel Connectors (10-12 AWG)
- 1 Tube Of Silicone Sealant

ITEMS REQUIRED BUT NOT SUPPLIED

- Fiberglass Tape

TOOLS REQUIRED

- Linesman's Pliers
- Wire Strippers/Crimping Tool
- Utility Knife
- Heat Gun Or Torch



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.

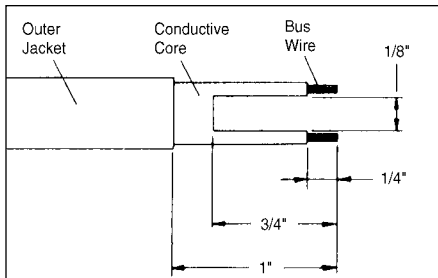
If you must use a torch, do so only with the greatest care to avoid melting the outer jacket. Failure to properly heat the waterproof sleeve may allow moisture to enter the self regulating cable core. If the core is then energized, arcing may occur, which may cause the core to ignite. Once ignited, the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



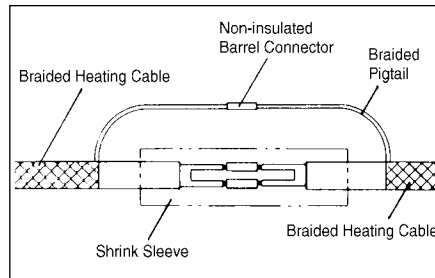


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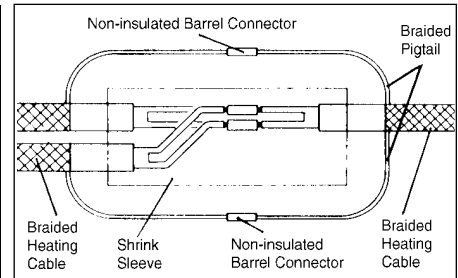
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Detail 2.



Detail 3.



Detail 4.

MAKING AN IN-LINE SPLICE

1. Remove 4" of any optional overjacket.
2. Unravel 4" of any optional braiding. Twist the braiding into a pigtail, then trim the pigtail to remove the tapered end. Refer to Detail 2.
3. Strip the cables according to the diagram above. Refer to Detail 2.
4. Slide the shrink sleeve over one of the heating cables.
5. Using 14-16 AWG insulated barrel connectors, connect the two cables. Refer to Detail 3.
6. Cover the entire splice area with silicone sealant.
7. Center the shrink sleeve over the barrel connectors, leaving the braided pigtails uncovered. Refer to Detail 3.
8. Apply heat to shrink the sleeve.
9. Using a 10-12 AWG non-insulated barrel connector, connect the braided pigtails. Refer to Detail 3.
10. Using fiberglass tape (not supplied), fasten the heating cable to the pipe.

MAKING A T-SPLICE

1. Remove 4" of any optional overjacket.
2. Unravel 4" of any optional braiding. On the single cable, separate the braiding into two equal strands, then twist the strands into pigtails. On the other cables, twist the braiding into pigtails. Trim all four pigtails to remove the tapered ends.
3. Strip the cables according to the diagram to the left. Refer to Detail 2.
4. For the T-connection, twist together one bus wire from each of two parallel cables. Refer to Detail 4.
5. Slide the shrink sleeve over the single cable. Refer to Detail 4.
6. Using 10-12 AWG insulated barrel connectors, connect the three cables. Refer to Detail 4.
7. Cover the entire splice area with silicone sealant.
8. Center the shrink sleeve over the barrel connectors, leaving the braided pigtails uncovered. Refer to Detail 4.
9. Apply heat to shrink the sleeve.
10. Using 10-12 AWG non-insulated barrel connectors, connect the braided pigtails. Refer to Detail 4.
11. Using fiberglass tape (not supplied), fasten the heating cables to the pipe.