

KSR-SK-DB

In-Line Splice Kit

KSR Snow Melting Cable

INSTALLATION PROCEDURES



The Heat Tracing Specialists®

KSR-SK-DB

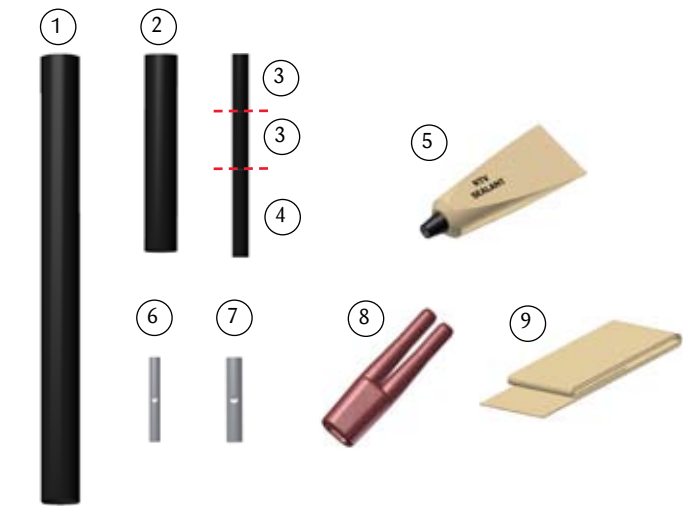
The following installation procedures are suggested guidelines for the installation of in-line cable splices. They are not intended to preclude the use of other methods and good engineering or field construction practices.

Receiving, Storing and Handling . . .

- 1. Inspect materials for damage incurred during shipping.
- 2. Report damages to the carrier for settlement.
- 3. Identify parts against the packing list to ensure the proper type and quantity has been received.
- 4. Store in a dry location.

KSR-SK-DB In-Line Splice Kit

Kit Contents . . .



Item	Quantity	Description
1	1	Heat Shrink 28mm X 325mm (1.10" X 12.80")
2	1	Heat Shrink 20mm X 120mm (.79" X 4.72")
3 & 4	1	Heat Shrink 10mm X 125mm (.39" X 4.92") Cut heat shrink into 3 pieces per step 11
5	1	RTV Tube
6	2	Small Lug (14-16 AWG)
7	1	Large Lug (10-12AWG)
8	2	Power Connection Boot
9	1	Mastic Tape 25 mm X 150MM (.98" X 5.91")

Installation Precautions . . .

- To minimize the potential for arcing and fire caused by product damage or improper installation use ground-fault protection. The National Electrical Code (NEC) and Canadian Electrical Code (CEC) require ground-fault protection of equipment for each branch circuit supplying electric heat tracing.
- Installation must comply with Thermon requirements and be installed in accordance with the NEC, CEC, or any other applicable national and local codes.
- Power connections and end termination must be located in NEMA 4 or 4X enclosures (Thermon KSR-JB or UL Listed equivalent) located above moisture line.
- De-energize all power sources before opening enclosure.
- Keep ends of heating cable and kit components dry before and during installation.
- Do not locate the splice in an expansion joint area, where a bend occurs in the cable, or within a conduit entering or exiting a slab.
- Do not splice cables that have different catalog numbers and/or voltage ratings.
- Component approvals and performance rating are based on use of Thermon specified parts only.
- The kit instructions should be used in conjunction with the installation instruction for the heating cable and other accessory items.



Canadian Standard Association
Certified Snow Melting Equipment
for Applications Having a Type
Designation of 2B



Underwriters Laboratories Inc.
5N23 De-Icing and Snow Melting
Equipment (KOBQ)

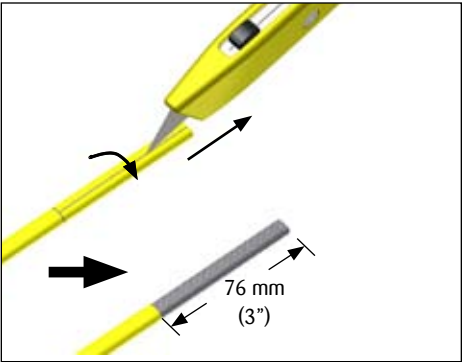
Tools Required . . .



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INSTALLATION PROCEDURES

In-Line Splice Instructions

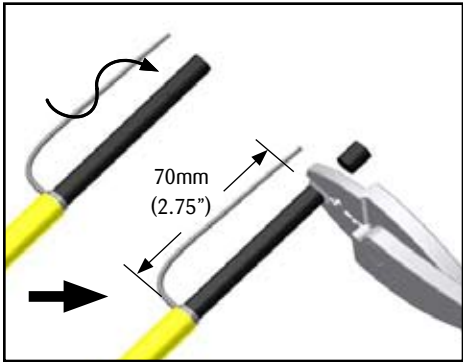


- 1.** Cut and remove heating cable overjacket as shown.

 **Do not cut metallic braid.**

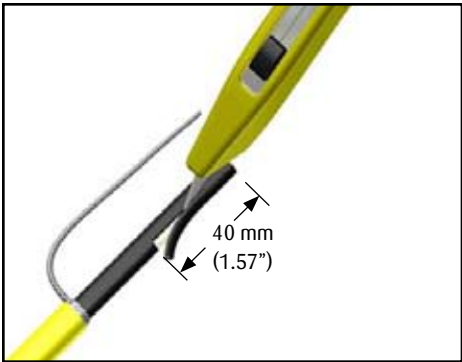


- 2.** Separate braid strands at edge of overjacket and pull cable through opening in braid.



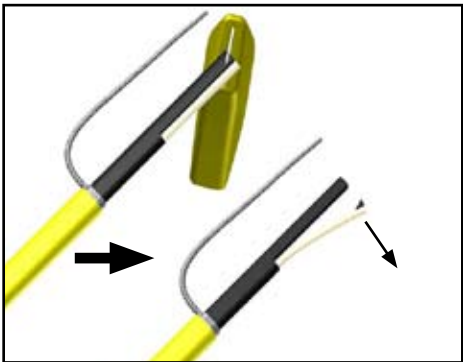
- 3.** Twist braid into a pigtail. Cut end of cable 70 mm (2.75") as shown.

 **Do not cut braid.**

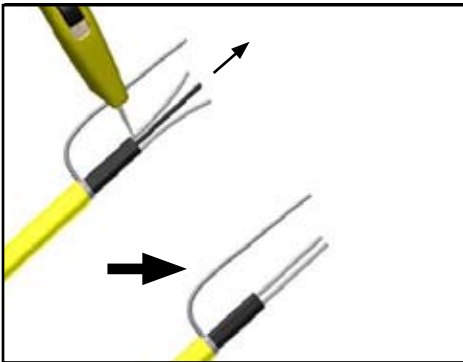


- 4.** Skive outside edges of primary insulation and black matrix 40 mm (1.57") as shown.

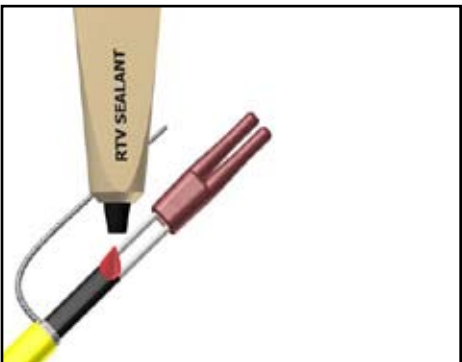
 **Do not cut bus wire strands.**



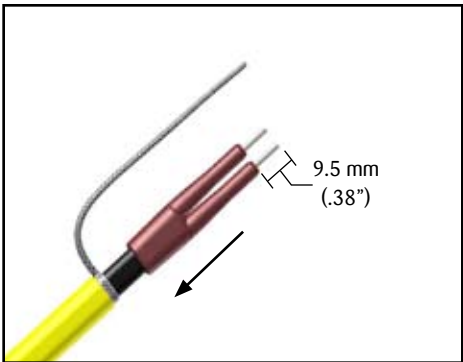
- 5.** Cut V-notch in matrix and pull wires from matrix.



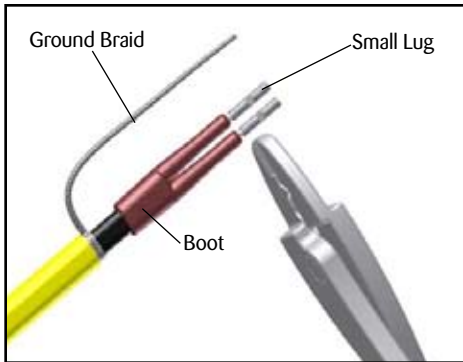
- 6.** Cut and remove remaining center core of matrix.



- 7.** Apply a liberal amount of RTV sealant to cable.

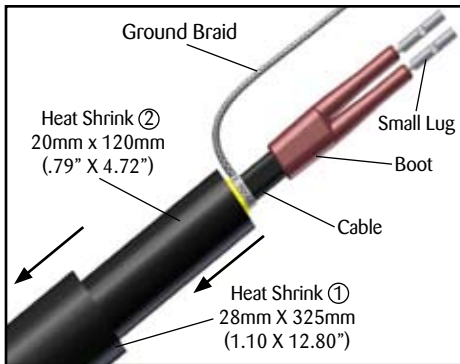


- 8.** Slide boot onto the end of the cable.

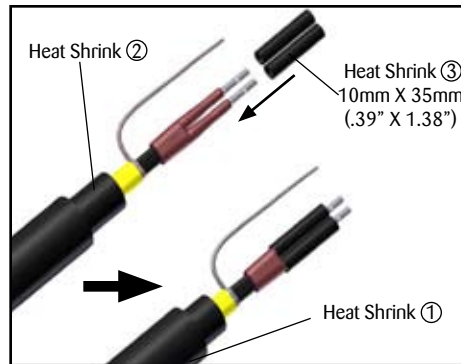


- 9.** Crimp small lugs on end of bus wires.

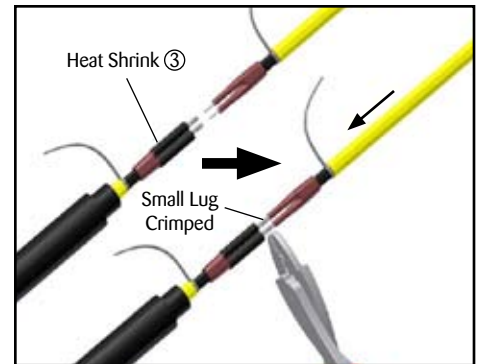
KSR-SR-DB



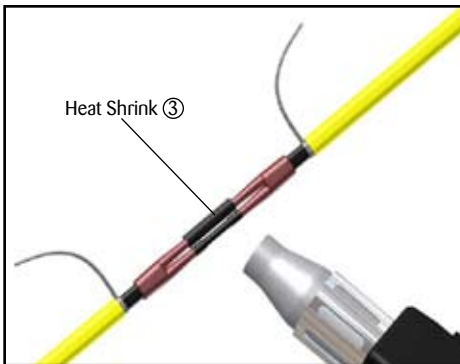
- 10.** Slide heat shrink ① 28mm x 325mm (1.10" x 12.80") then heat shrink ② 20mm x 120mm (.79" x 4.72") onto cable as shown.



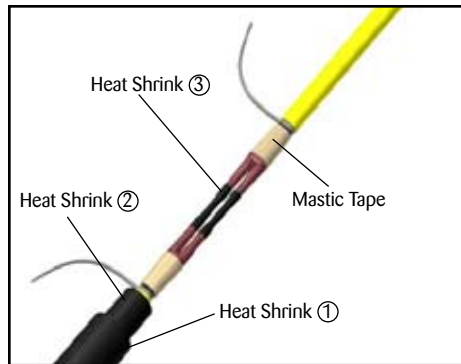
- 11.** Cut 10mm X 125mm (.39" X 5") into 3 pieces : 3 ② pieces @ 35mm (1.38") ④ 1 piece @ 55mm (2.16"). Slide heat shrink ③ 10mm X 35mm (.39" X 1.38") over small lugs on each splice connection boot legs.



- 12.** Repeat steps 1-8 for second cable to be spliced. Crimp the small lugs to the second cable.



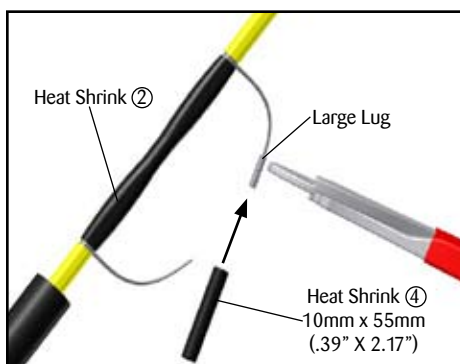
- 13.** Center heat shrink ③ over crimped small lugs. Using heat gun, heat until heat shrinks firmly set.



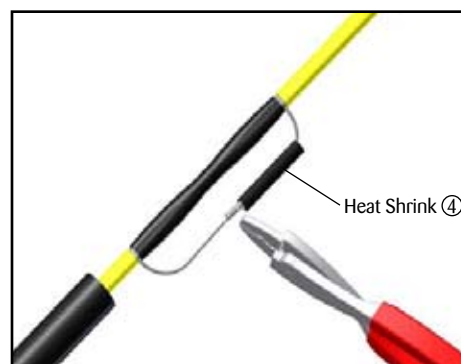
- 14.** Cut 2 pieces of mastic tape about 25mm (1") long. Stretch mastic tape to cover the end of each splice connection boot and cable primary insulation jacket up to metallic braid.



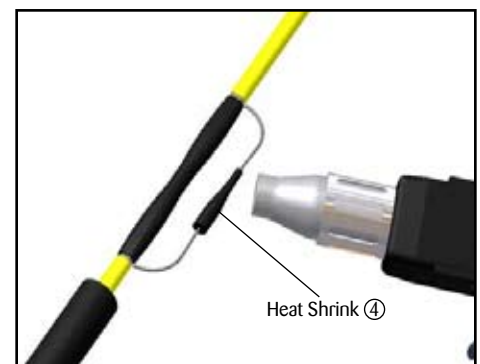
- 15.** Center shrink ② over splice connection area. Using heat gun, heat until heat shrink firmly sets.



- 16.** Crimp large lug on one of the braid as shown. Slide heat shrink ④ over the braid with large lug.



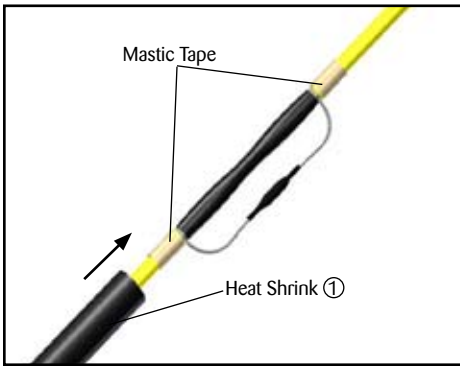
- 17.** Crimp large lug to the end of the other braid.



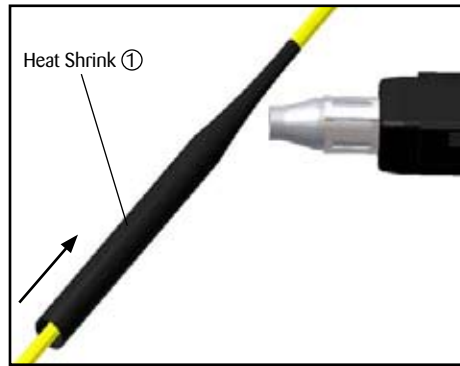
- 18.** Center heat shrink ④ over crimped lug. Using heat gun, heat until heat shrink firmly sets.



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19. Cut two pieces of mastic tape about 25mm (1") long. Stretch mastic tape to cover the yellow cable jacket on each cable.



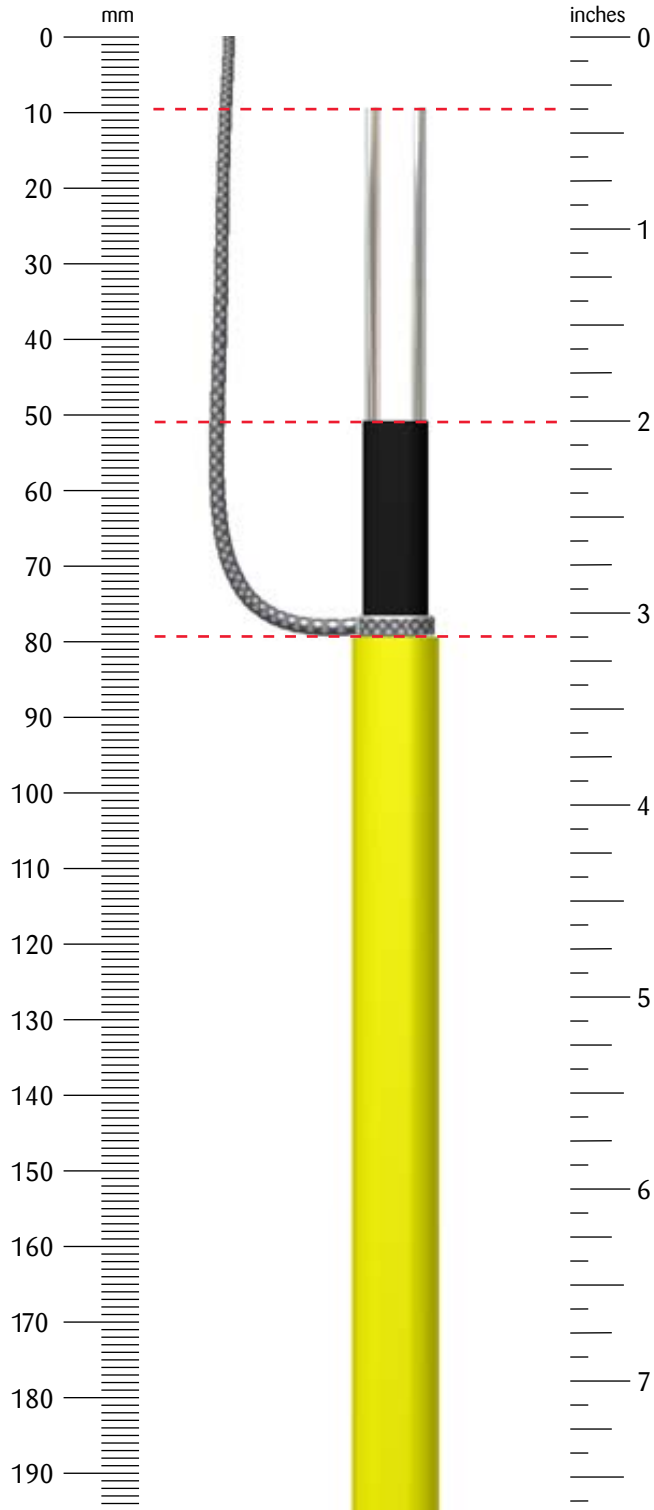
20. Center heat shrink ① over the splice connection area. Using heat gun, heat until heat shrink firmly sets.



21. Completed splice.

INSTALLATION PROCEDURES

Cable Take-Off



For In-Line Splice



ISO 9001
REGISTERED

THERMON . . . The Heat Tracing Specialists®

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Specifications and information are subject to change without notice.

Form 50252-0707