

## Installation Instructions

# RG-STK-1 Roof and Gutter Splice and Tee Kit

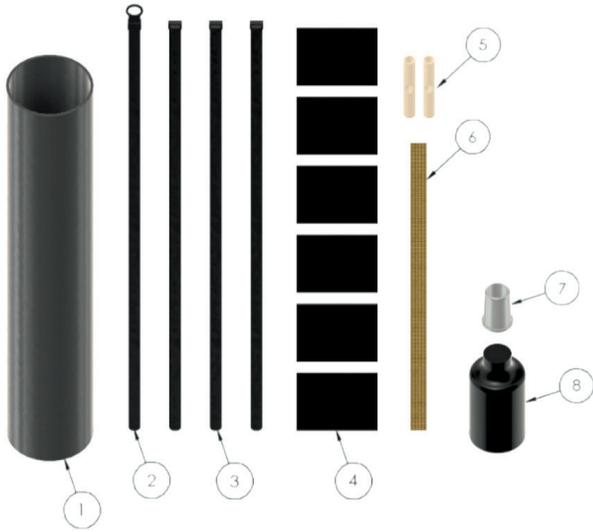
For Self-Regulating Heating Cables



PJ940  
161-511931-007  
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# RG-STK-1 Roof and Gutter Splice and Tee Kit

## Self-Regulating Heating Cable Installation Instructions



Item	Qty	Description
1	1	6" Long Heat Shrink Tube
2	1	Clamp Tie
3	3	Cable Tie
4	6	Mastic Strip
5	2	Insulated Barrel Connector
6	1	Cloth Tape
7	1	Uninsulated Braid Crimp
8	1	Heat Shrink End Cap

### General

The RG-STK-1 kit is used to make straight and tee splices for self-regulating cables in ordinary locations. Consult factory for installation in hazardous locations. Check the kit label to ensure you have the proper kit for the cable you are installing. This kit contains enough parts to make one (1) splice or tee connection.

### Installation

The minimum installation temperature for this kit is 0°F (-18°C).

### Certifications & Approvals

Ordinary Areas



### Tools Required for Kit Installation



### Order Separately

#### Pipe Straps

- Pipe Strap - 1/2" to 3/4" pipes
- Pipe Strap - 1" to 3-1/2" pipes
- Pipe Strap - 2-1/2" to 9" pipes
- Pipe Strap - 9" to 19.5" pipes



**⚠ WARNING**

**HAZARD OF ELECTRIC SHOCK.** Disconnect all power before opening. All installations must be effectively grounded in accordance with the national electrical code to eliminate shock hazard. To avoid electrostatic discharge, wipe with damp cloth.

**⚠ WARNING**

**ELECTRIC SHOCK HAZARD.** Any installation involving electric heating cables must be performed by a qualified person.

**⚠ WARNING**

**FIRE/EXPLOSION HAZARD.** During installation, do not utilize a propane torch or heat gun in a hazardous area.

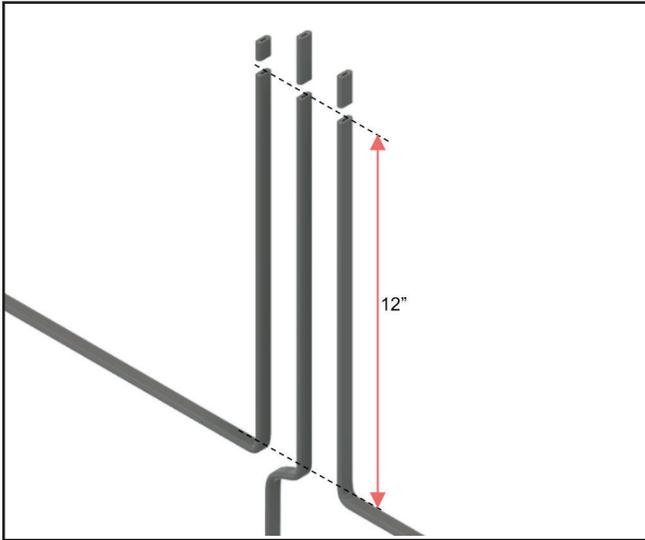
**⚠ WARNING**

**ELECTRICAL HAZARD.** Never connect the two parallel conductors of the heating cable together. This will result in an electrical short circuit.

**⚠ WARNING**

Users should install adequate controls and safety devices with their electric heating equipment. Where the consequences of failure may be severe, back-up controls are essential. Although the safety of the installation is responsibility of the user, Chromalox will be glad to assist in making equipment recommendations.

## Cable installation instructions: CPR, SRL

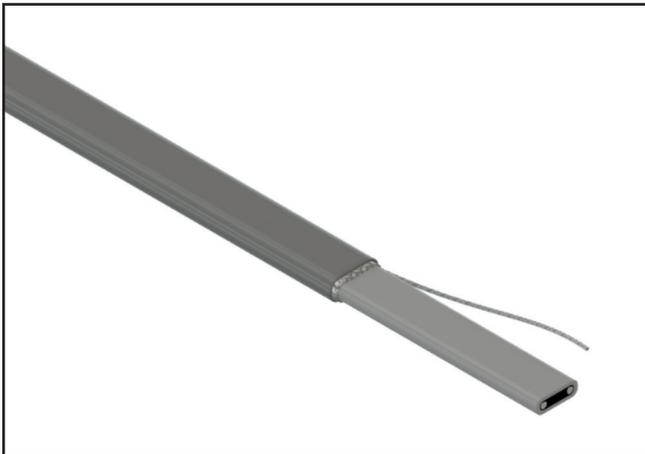


1. Allow for 12" of extra cable, as shown in the above picture. If the cables are not the same length, trim to make them even.

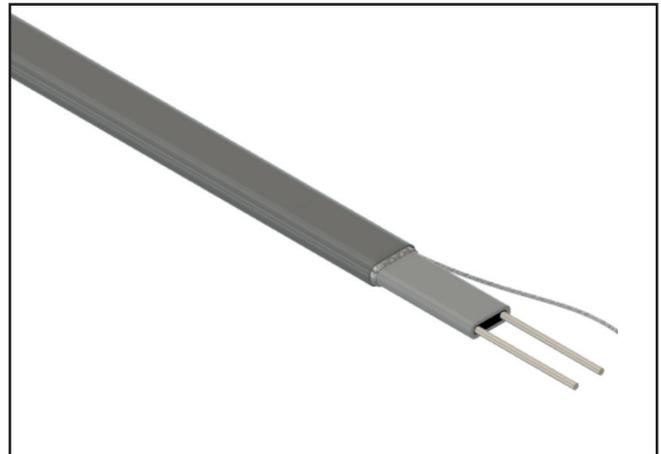
**NOTE:** In the following instructions, a tee connection is shown being made. To perform a splice connection, only use two heating cables.



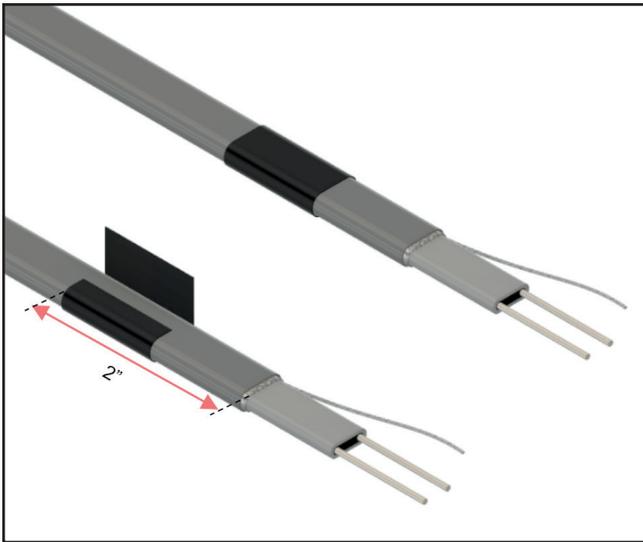
2. Score the cable outer jacket 2" from the cable end, being careful not to damage the braid or the base cable insulation. Remove the jacket to expose the braid.



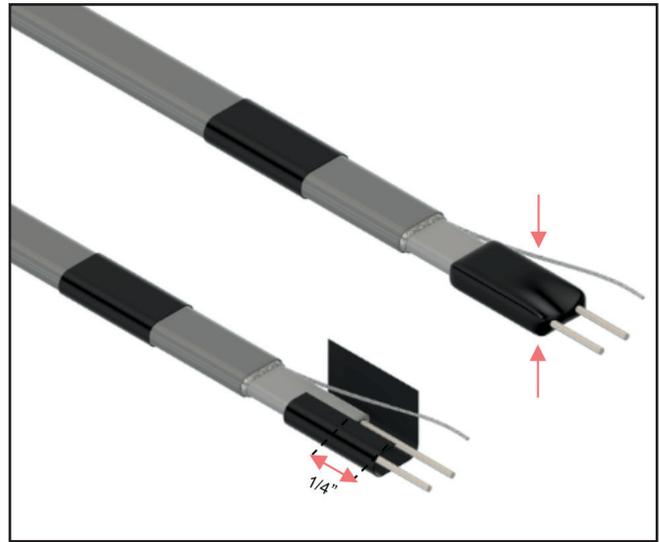
3. Pick the braid apart near the outer jacket and pull the cable through the opening in the braid. Twist the braid into a pigtail on the same side of each cable.



4. Score the outer insulation of the base jacket and the black core material 1" back from the end of the heating cable.



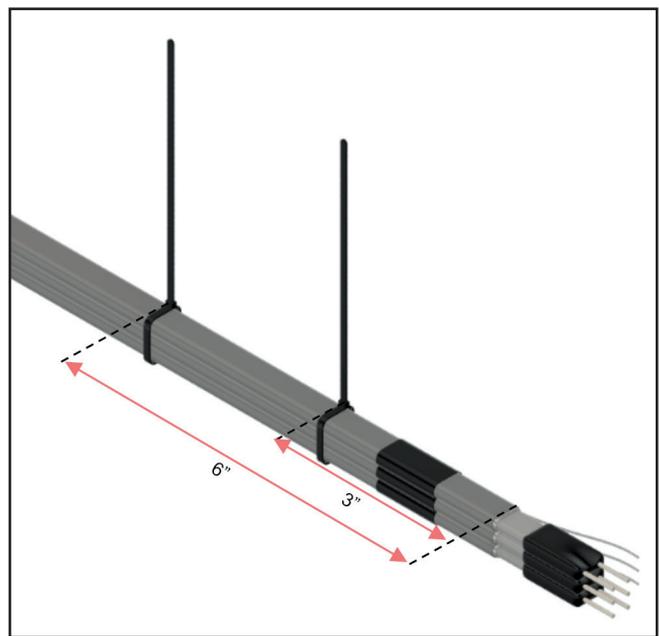
5. Remove the release paper from the mastic and place mastic tape around the outer jacket of the cable.



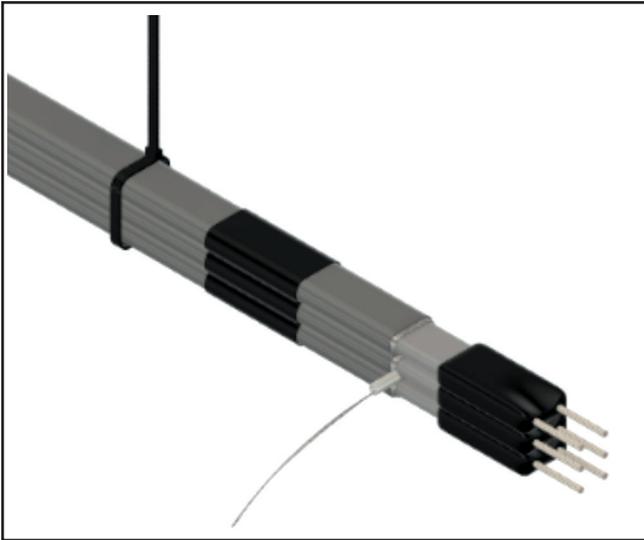
6. Remove release paper from mastic and place mastic tape around the end of the cable. Position as shown. Pinch in the center of the bus wires to completely seal.



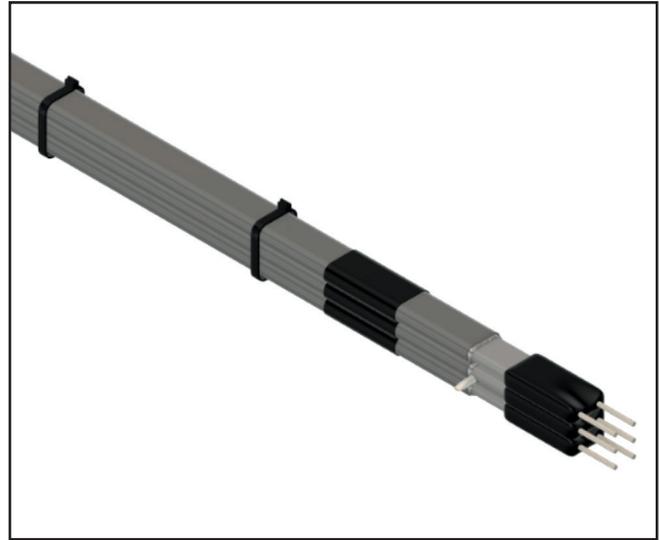
7. Align the sections of mastic and place them together. Firmly press mastic strips together.



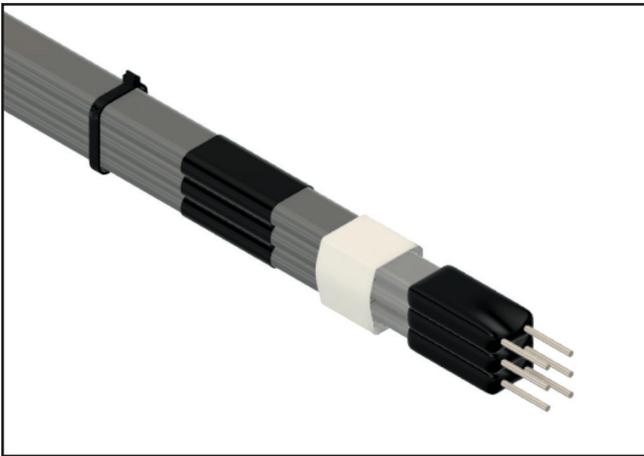
8. Once the cables are aligned, fasten them with cable ties at the positions shown.



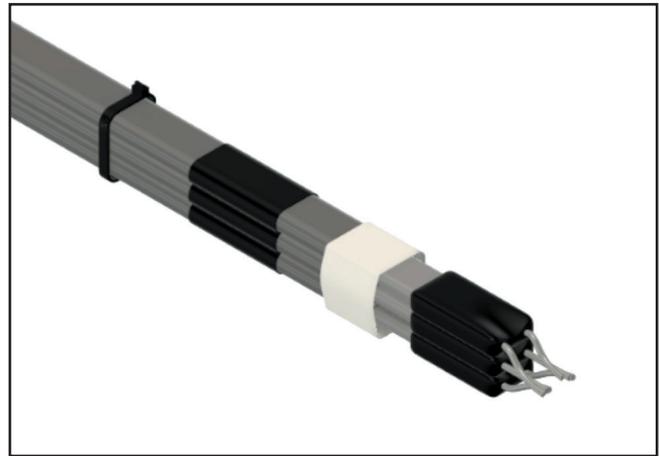
9. Twist all three braid pigtails together. Slide the un-insulated crimp over the braid as shown.



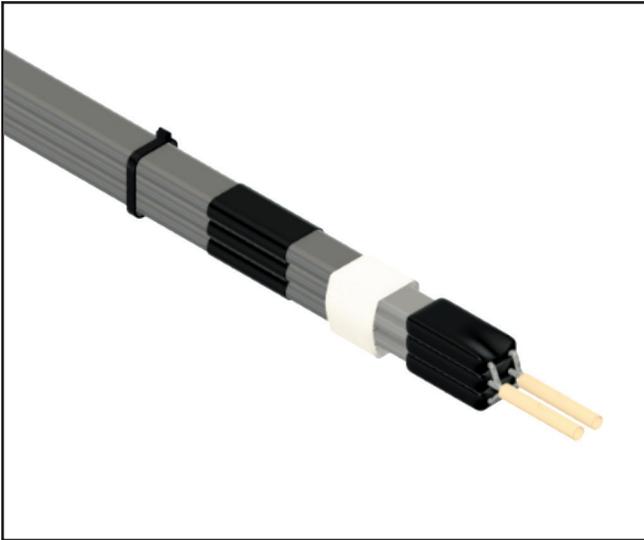
10. Crimp the braid using a crimping tool and cut off the extra braid. Trim off excess length of the cable ties.



11. Fold crimped braid back against the cable and use cloth tape to secure it to the heating cable.



12. Twist each set of bus wires together. **Do not twist bus wires from the same cable together.**



13. Place the insulated barrel connectors over each set of bus wires. Use a crimping tool to crimp each set together.



14. Place the heat shrinkable end cap over the crimps.



15. Place the heat shrink tube over the connection, allowing about 1-1/2" of empty space in the end of the tube. Use a heat gun to completely shrink the tube. Pinch the end of the shrunk tube with needle nose pliers and ensure the end is fully sealed.

**CAUTION: Do not overheat the tube or cable. Always keep the heat source moving.**



16. Attach the clamp tie to the center of the connection. Fold the bottom heating cable under and secure to the connection with a third cable tie. Attach the connection to the top of the gutter and away from the flow path of the melt water using the clamp tie.

**Limited Warranty:**

Please refer to the Chromalox limited warranty applicable to this product at  
<http://www.chromalox.com/customer-service/policies/termsofsale.aspx>.

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