

## Installation Instructions

# RT-RST Splice & Tee Kit

For Self-Regulating Heating Cables



PJ445-10  
161-511934-001  
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# RT-RST Splice & Tee Kit

## Self-Regulating Heating Cable Installation Instructions



Item	Qty	Description
1	5	8" Long Heat Shrink Tubes
2	5	Uninsulated Barrel Connectors
3	5	1/2" Long Sealant Tape
4	10	Insulated Barrel Connectors

### General

The RT-RST kit is used to make splice and tee connections 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 five (5) splices.

### Installation

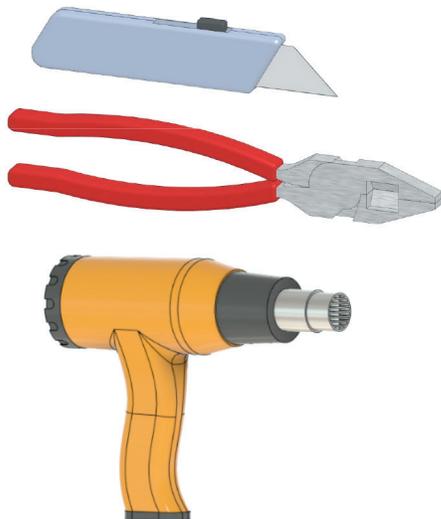
The minimum installation temperature for this kit is 0°F (-18°C).

### Certifications & Approvals

Ordinary Locations



### 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



#### Caution Label & Fiberglass Tape



**⚠ WARNING**

**HAZARD OF ELECTRIC SHOCK.** *Disconnect all power before installing or servicing heating cable. Failure to do so could result in personal injury or property damage. Heater must be installed by a qualified person in accordance with the National Electric Code, NFPA 70.*

**⚠ WARNING**

**ELECTRIC SHOCK HAZARD.** *All installations must be effectively grounded in accordance with the National Electrical Code to eliminate shock hazard.*

**⚠ WARNING**

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

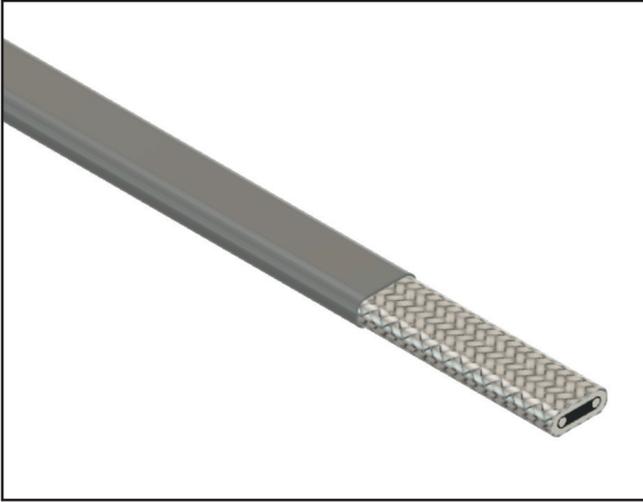
**⚠ WARNING**

**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



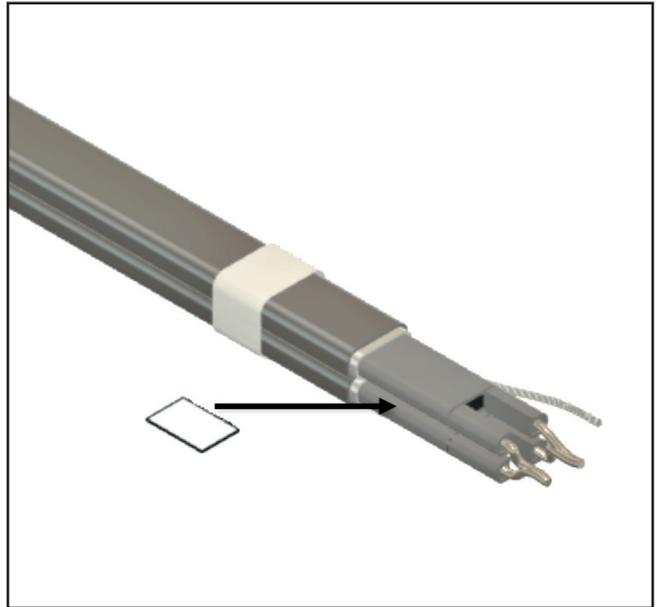
1. Score the outer jacket 1-1/2" from the end of each cable. Remove the jacket to expose the braid.



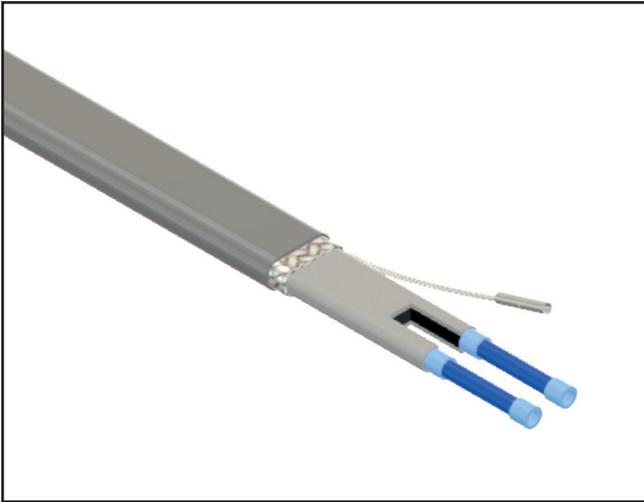
2. Unravel 1-1/2" of braid and twist the strands together to form a pigtail.



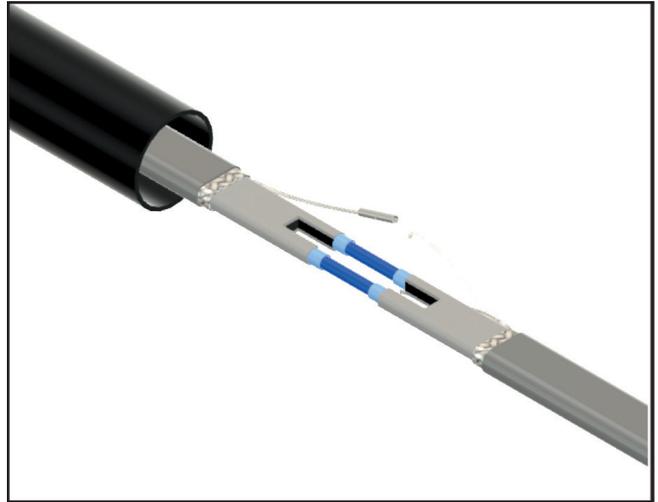
3. Using standard electrical cutters, cut a 3/4" long notch out of each cable between the conductor wires. Bare a 3/8" length of each conductor by stripping off the inner jacket and black core material.



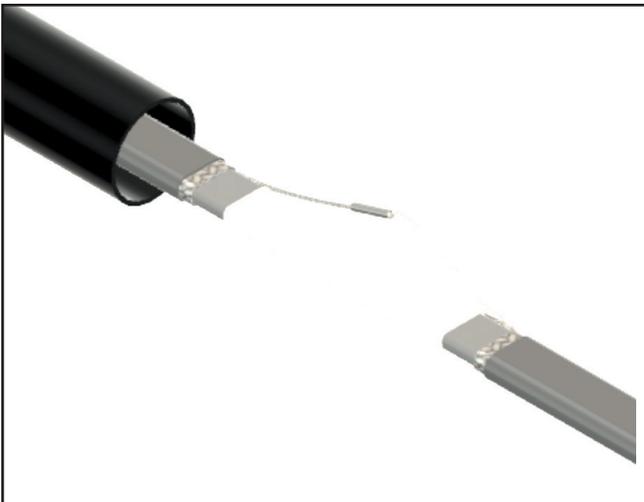
4. **For tee splices only:** Tape two of the heating cables together using fiberglass tape 3" from the end of the conductors. Twist the corresponding conductors of each cable together. Insert a piece of sealant tape lengthwise between the paired cables and force the cables together.



5. Slide an insulated barrel connector over the bare portion of each conductor of one of the cables (or paired cable). Crimp the connector onto the bare portion of the conductors using a crimping tool. Slide one end of an uninsulated barrel connector over the end of the metal braided pigtail (or twisted pigtails for the tee splice). Crimp using a standard crimping tool for uninsulated barrel connectors.



6. Carefully slide a length of heat shrink tubing over the cable(s) with the crimped-on barrel connectors past the connection area, but do not shrink the tube. Insert the bared ends of the conductors of the other cable into the uncrimped ends of the insulated barrel connectors. Crimp the insulated barrel connectors onto the bare portions of the conductors using a crimping tool.



7. Wrap the cutting area of the crimped insulated barrel connectors with fiberglass tape. Fold the other metal braid pigtail over 1/4" and insert into the open end of the uninsulated barrel connector. Crimp using a standard crimping tool for uninsulated barrel connectors



8. Slide the length of heat shrink tubing over the splice so that the barrel connectors are centered in the tubing.



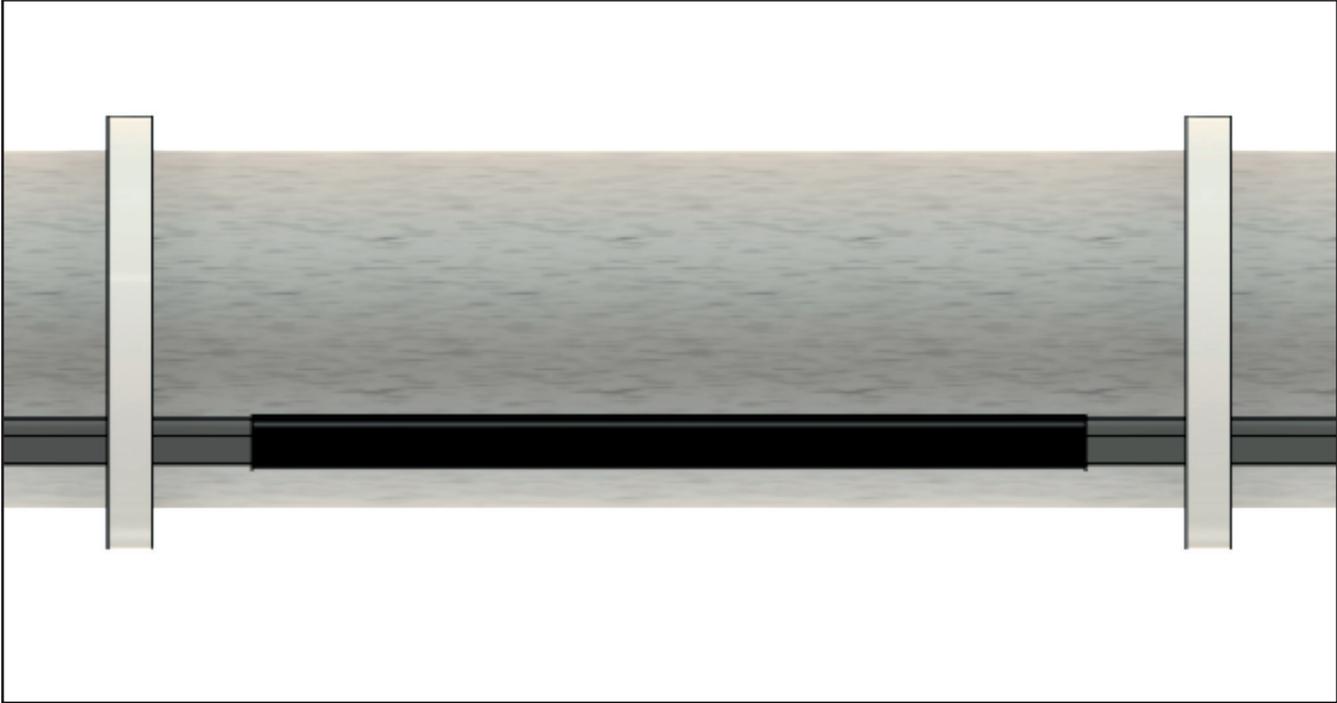
9. Using a propane torch or heat gun, apply heat evenly until the tube shrinks around the cable and the adhesive liner melts. Pinch both ends of the tube for 30 seconds or until cool. Both ends should remain visibly sealed when cool. If not, gently re-heat and pinch again.

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



10. Secure heating cable to pipe with fiberglass tape within 3" of each end of the tube.

**RT-RES Fully Assembled**



**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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