

Installation Instructions

RT-TST Splice & Tee Kit

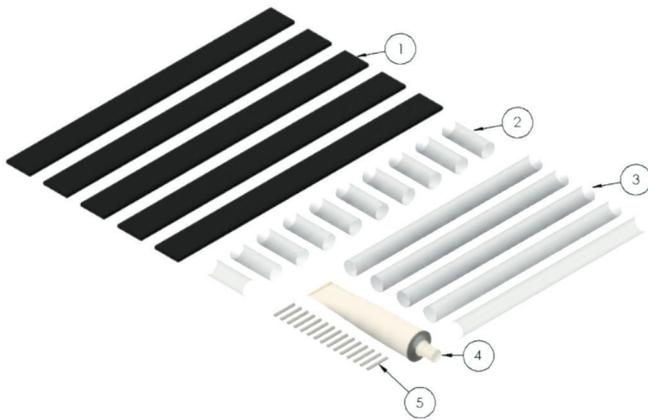
For Constant Wattage Heating Cables



PJ446-6
161-511935-001
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RT-TST Splice & Tee Kit

Constant Wattage Heating Cable Installation Instructions



Item	Qty	Description
1	5	10" Lengths of Silicone Tape
2	10	2-1/2" Long Heat Shrink Tube
3	5	7" Long Heat Shrink Tube
4	1	Tube RTV Sealant
5	15	Uninsulated Barrel Connectors

General

The RT-TST kit is used to make splice and tee connections for Constant Wattage 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) splice connections.

Installation

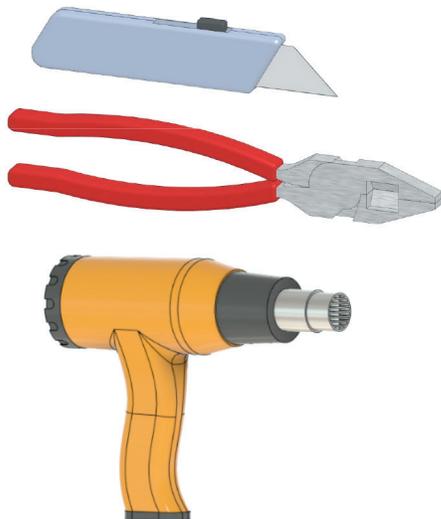
The minimum installation temperature for this kit is 0°F (-18°C).

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.*

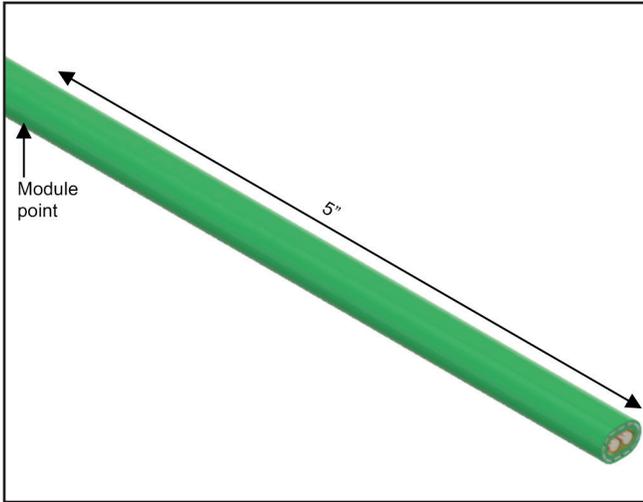
⚠ WARNING

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

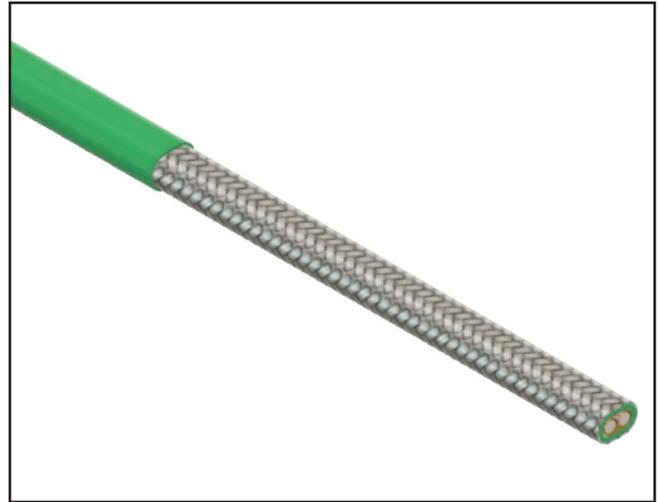
⚠ WARNING

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: CZH, CWM



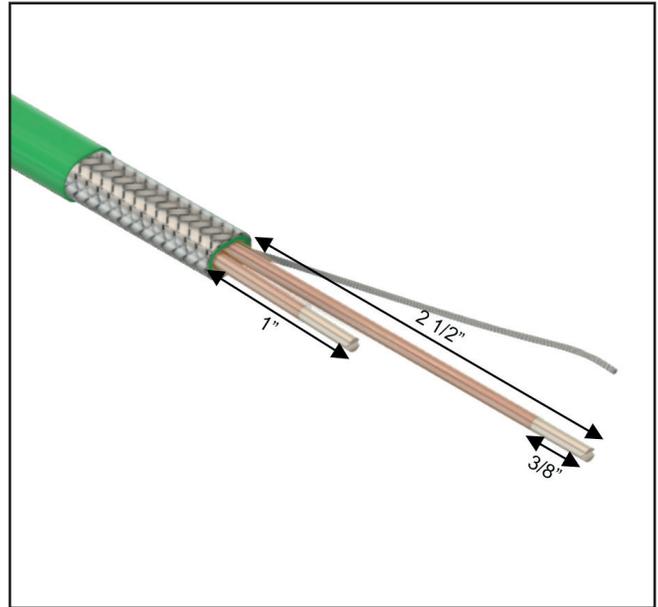
1. Cut all cables 5" from the module point, indicated by an indentation in the side of the cable.



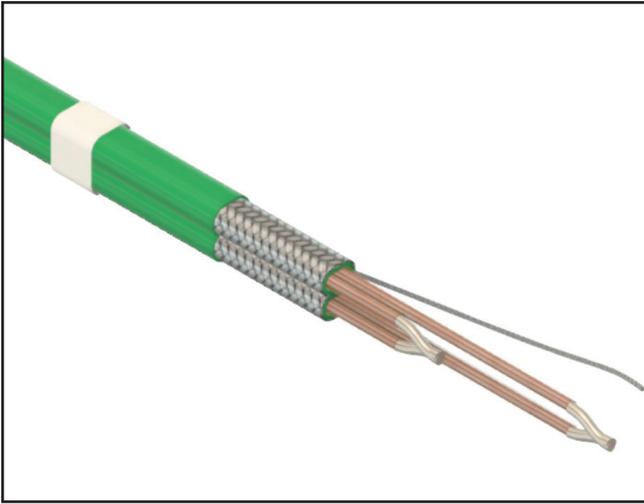
2. Score the outer jacket 3-1/2" from the end of each cable. Remove the jacket to expose the braid.



3. Unravel 2-1/2" of braid and pigtail the strands together.



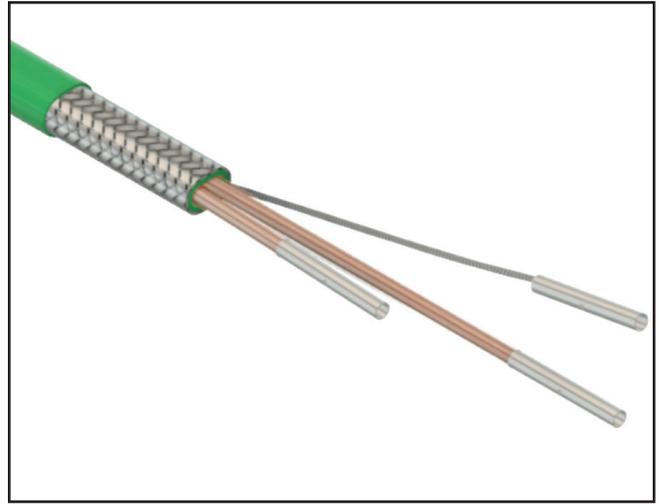
4. Strip all cables as shown. If nichrome wire is showing, cut it off and push any remainder back under sheath. **NOTE:** Cutting the cable between module points (indentations in the cable) creates a non-heating cold lead.



- FOR TEE SPLICES ONLY: Use fiberglass tape to combine two of the heating cables 5" from the end of the conductors. Twist the corresponding conductors of each cable together. Fold over the bare conductors of the single cable.

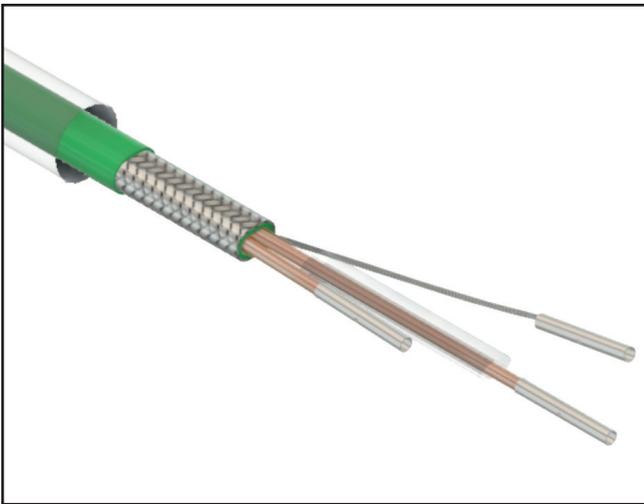
Apply a moderate amount of RTV between the paired cables. Be sure to fill the space completely between the cables.

CAUTION: Ensure the cables do not overlap past the 5" cold lead, as the cables may overheat.

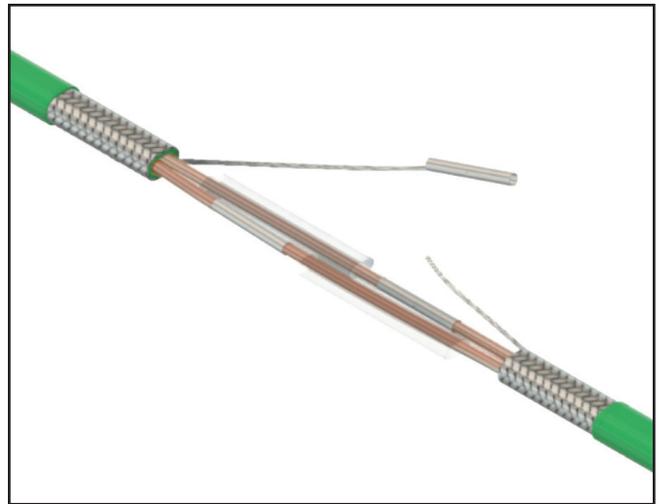


- Slide an uninsulated barrel connector over the bare portion of each conductor of one of the cables (or paired cable). Crimp the connector onto the bare portion of the conductors using a standard crimping tool for uninsulated barrel connectors.

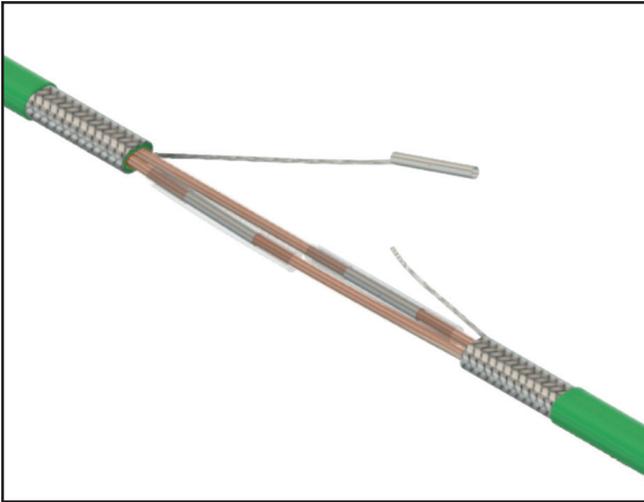
Trim the pigtail back slightly to even up the strands. Slide the end of an uninsulated barrel connector over the end of the pigtail. Crimp on.



- Carefully slide a length of the 7" long heat shrink tube over the cable(s) with the crimped-on barrel connectors past the connection area but do not shrink the tube. Then, carefully slide a length of the short heat shrink tubing over each of the longer conductors on each side of the splice.

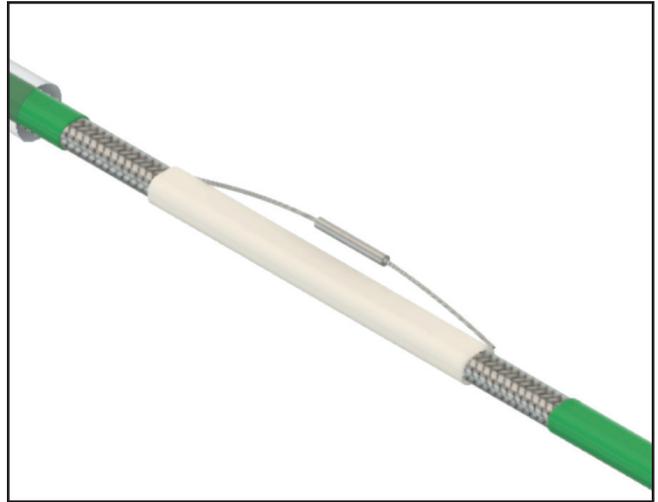


- Insert the bare ends of the conductors of the other cable into the open ends of the barrel connectors. Crimp the barrel connectors one at a time.



9. Slide the heat shrink tubes over the barrel connectors. Using a propane torch or heat gun, apply the heat evenly until both tubes shrink around the barrel connectors.

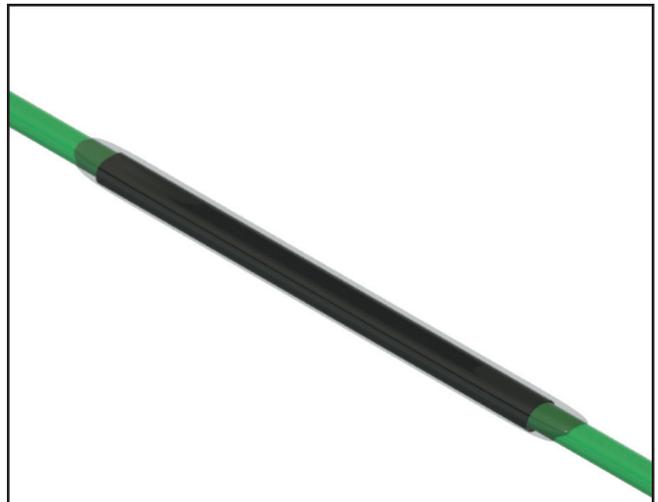
CAUTION: Do not overheat the tube or cable. Always keep the heat source moving.



10. Wrap the entire area of the crimped insulated barrel connectors with fiberglass tape. Insert the other metal braided pigtail into the open end of the uninsulated barrel connector. Crimp using a standard crimping tool for uninsulated barrel connectors.

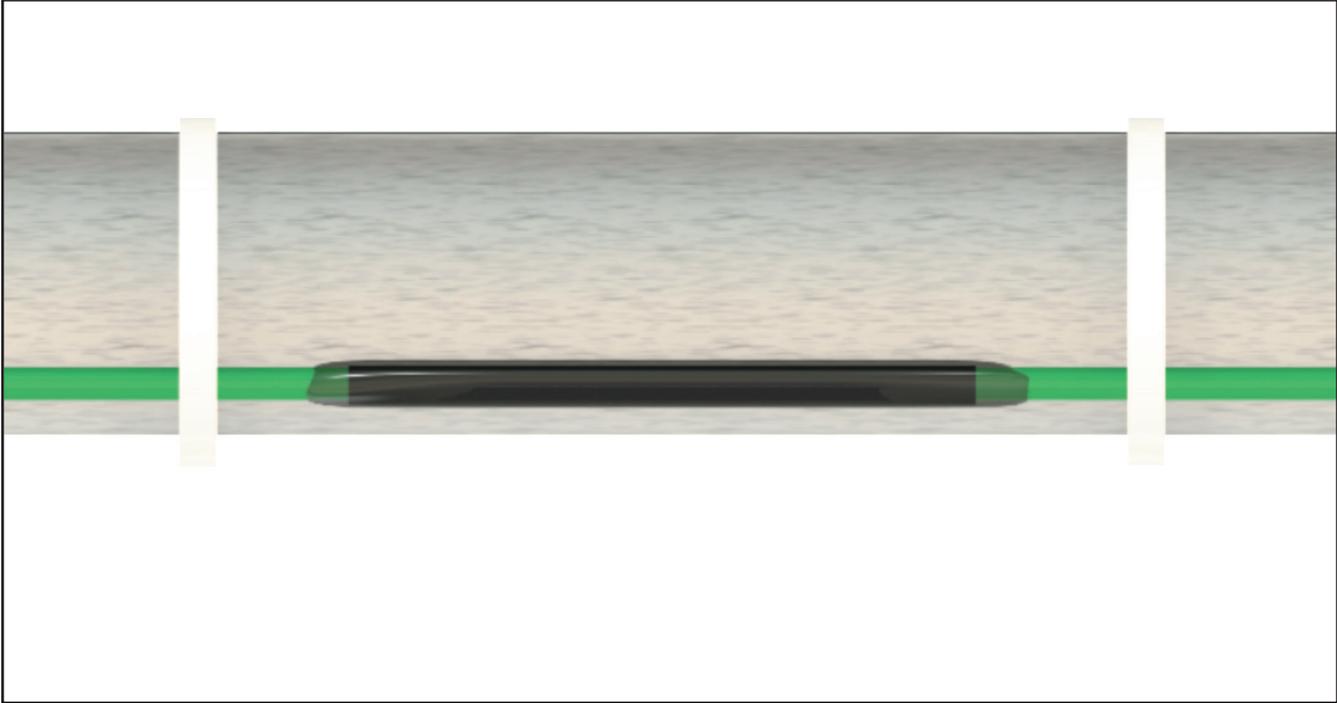


11. Remove the cellophane backing on the silicone tape. Start wrapping 1" from the end of the sheath of a cable. Spiral wrap under tension with a 50% overlap. Finish wrapping one inch past the end of the sheath of the other cable(s).



12. Slide the length of heat shrink tubing over the splice so that the barrel connectors are centered in the tubing. Using a propane torch or heat gun, apply heat evenly until the tube shrinks around the cable. Both ends should remain visibly sealed when cool. If not, gently reheat.

RT-TST 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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