Installation Instructions

RTST Splice & Tee Connection Kit

for Self-Regulating and Constant Wattage Heating Cable

CHROMALOX
Advanced Thermal Technologies

PJ452-13
161-562763-001
May, 2021

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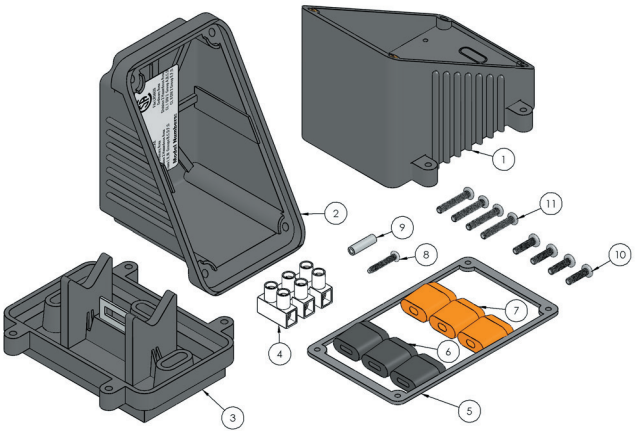
Self-Regulating & Constant Wattage Heating Cable Installation Instructions



Item	Qty.	Description
1	1	Junction Box
2	1	Junction Box Lid
3	1	Junction Box Base
4	1	Three Position Terminal Block
5	1	Cover Gasket
6	3	Black Self-Regulating Cable Grommet
7	3	Orange Constant WattageGrommet
8	1	Terminal Block Screw
9	1	Uninsulated Barrel Connector
10	4	Cover Screws, 5/8” Long
11	4	Box Screws, 1” Long

General

The RTST Splice and Tee Connection Kit is used to make straight and tee splices for Chromalox Self-Regulating or Constant Wattage Heating Cable.

Each kit contains enough material to make one straight or one tee splice.

Certifications/Approvals

Type 4X -60°C<Ta<+55°C
Ordinary & Hazardous Locations
Class I, Division 2 Groups A*,B,C&D
Class II, Division 2 Groups F & G
*CSA only

Tools Required for Kit Installation

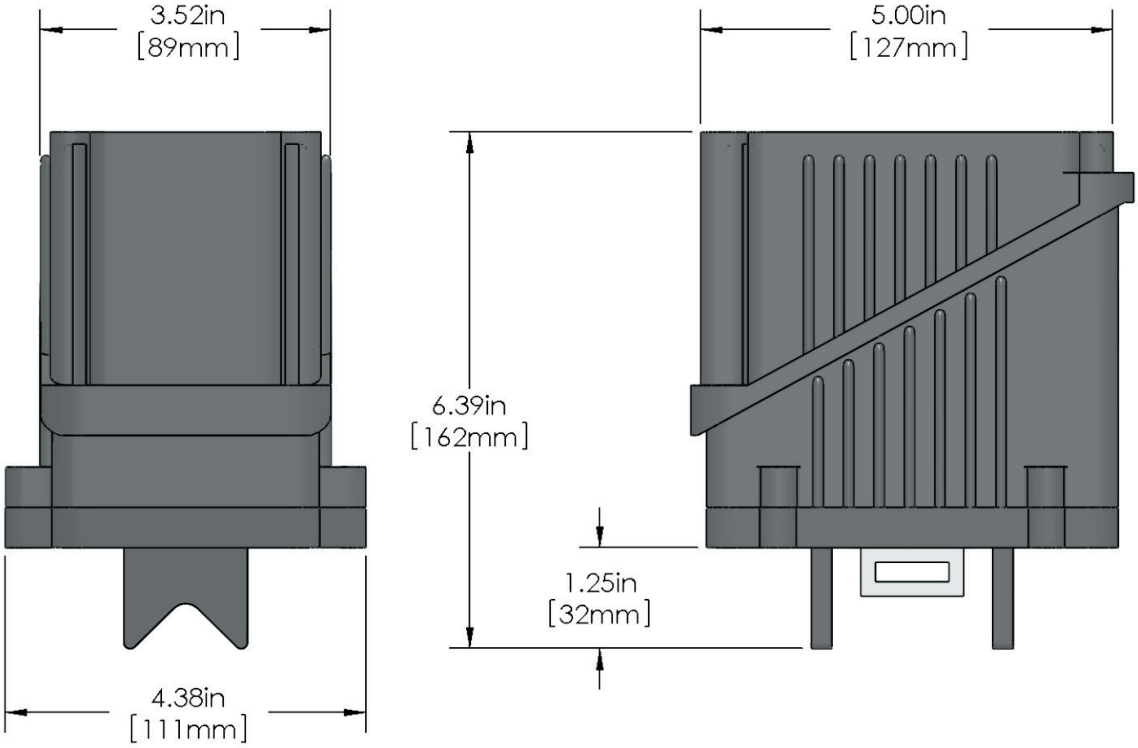
Order Separately

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 CL-1
Fiberglass Tape FT-3

Actual Kit Dimensions



⚠WARNING

HAZARD OF ELECTRIC SHOCK. Disconnect all power before starting. All installations must be effectively grounded in accordance with the National Electrical Code to eliminate shock hazard.

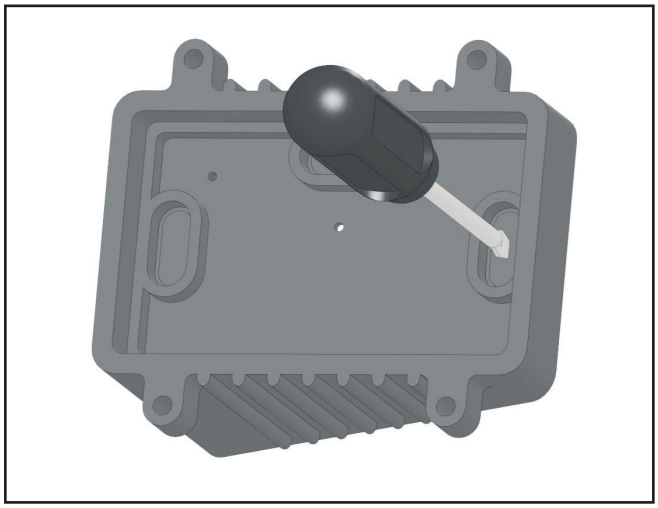
⚠WARNING

Turn off power before removing junction box cover at all times.

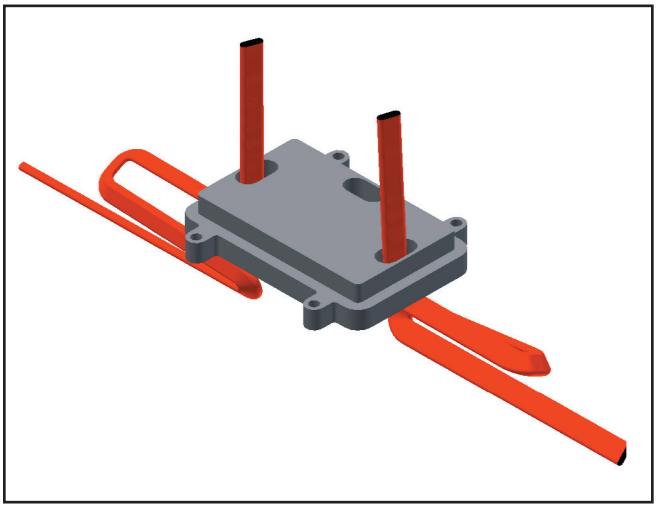
⚠WARNING

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, CPM, SRL, SRM/E, SRP CZH, CWM cable special instructions denoted by *

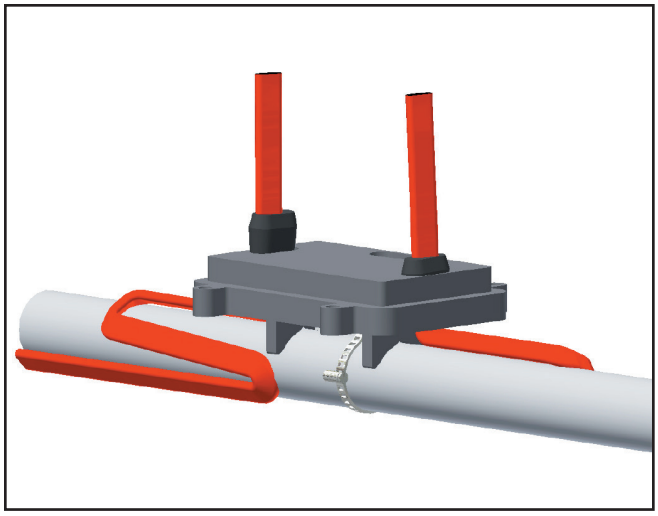


1. Use a hammer and screwdriver to punch out the knockouts on the bottom of the box which correspond to the openings in the base through which the heating cable passes. Only punch out the knockouts that are to be used. If one is mistakenly punched, blank grommets can be ordered to re-establish the water tight seal.

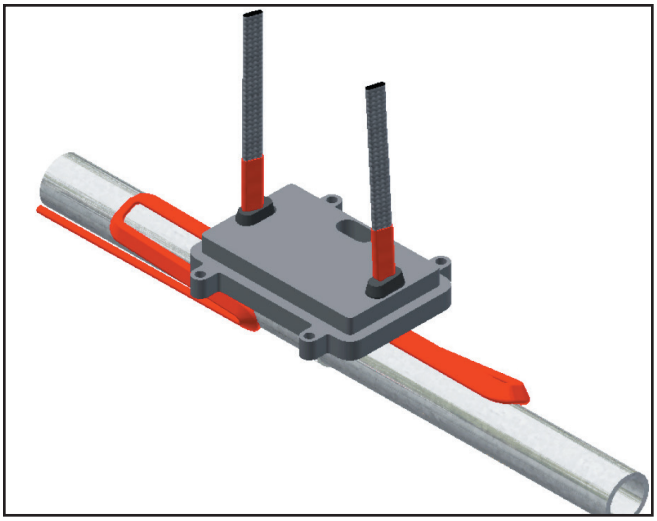


2. Feed the ends of the cables through the appropriate hole in the base. Allow 8” of cable to extend above the top of the base.

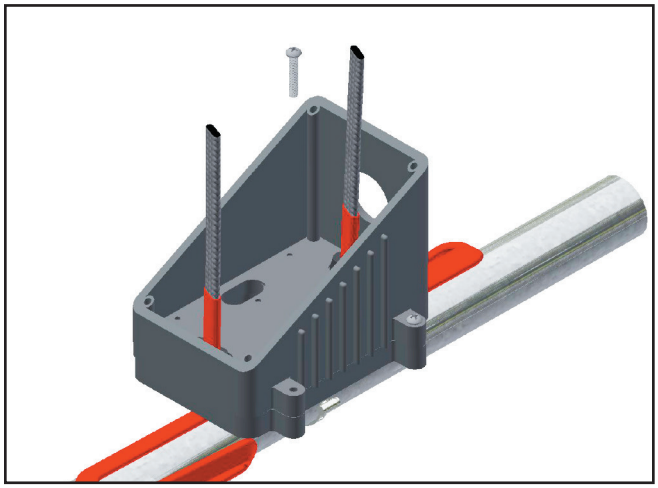
   *If using CZH, CWM cut the cable 12” past the module point (indicated by indention in cable) before completing this step. Cutting cable between module points creates a non-heating cold lead.



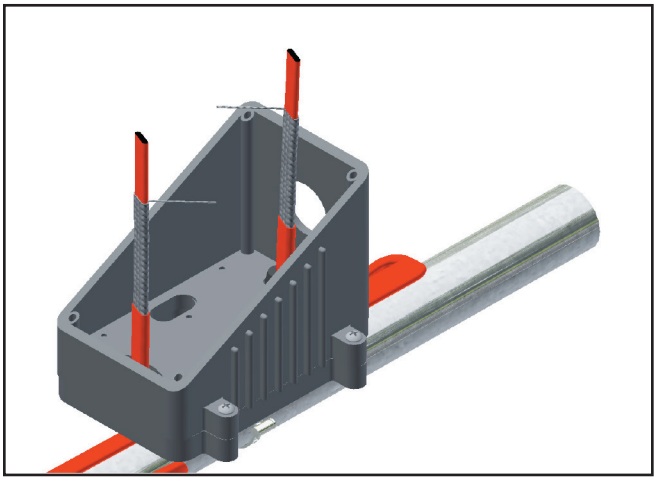
3. Slide cable grommets over the end of the cables and insert it into the opening in the base. Secure the base to the pipe by threading the appropriate sized pipe strap through the slot in the mounting plate. Tighten the pipe strap until the base is securely attached to the pipe.



4. Score the outer insulation 7” from the end of the cables. Remove the jacket to expose the metal braid. ***CAUTION: When removing outer jacket, be careful not to damage the braid of the base cable insulation.***

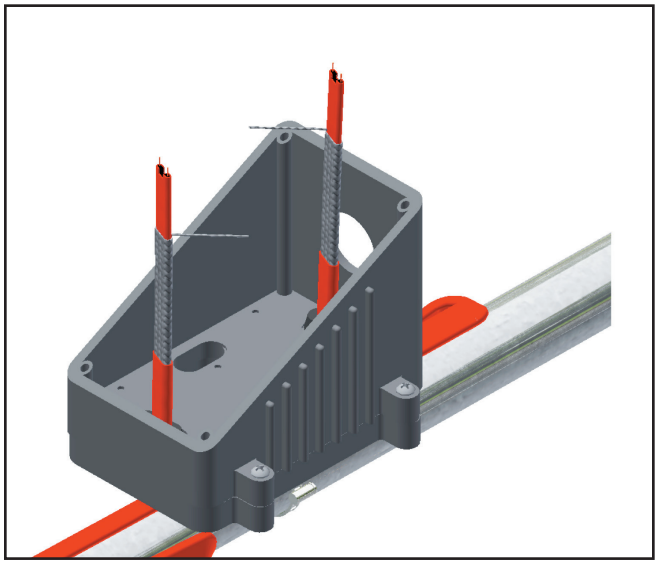


5. Feed cables through the corresponding holes in the box and secure box to base using all four of the 1” long screws (Item 11).



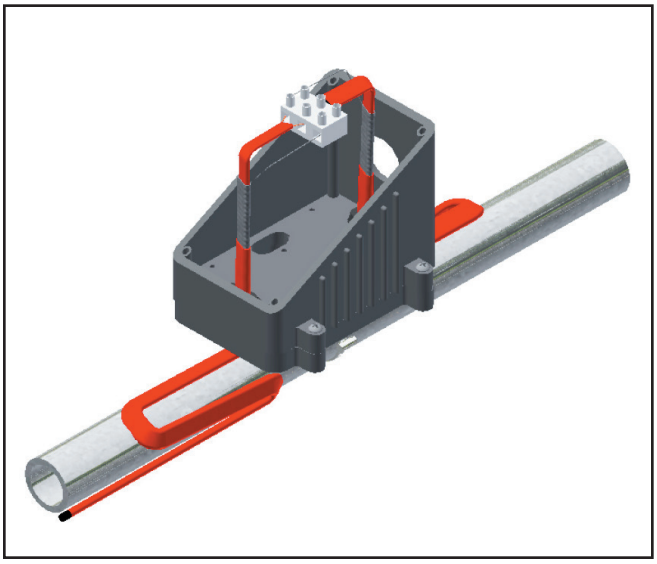
6. Starting from the end of the cables, unravel 2-1/2” of the braid. Twist the strands together to form a pigtail. ***For Tee splices only: Alilgn and tape together two (2) cables 1-1/2” from the end. Twist the corresponding conductors (and braid pigtails) together.

   CAUTION: Do not tape together CZH or CWM cables, as these cable types cannot be overlapped.

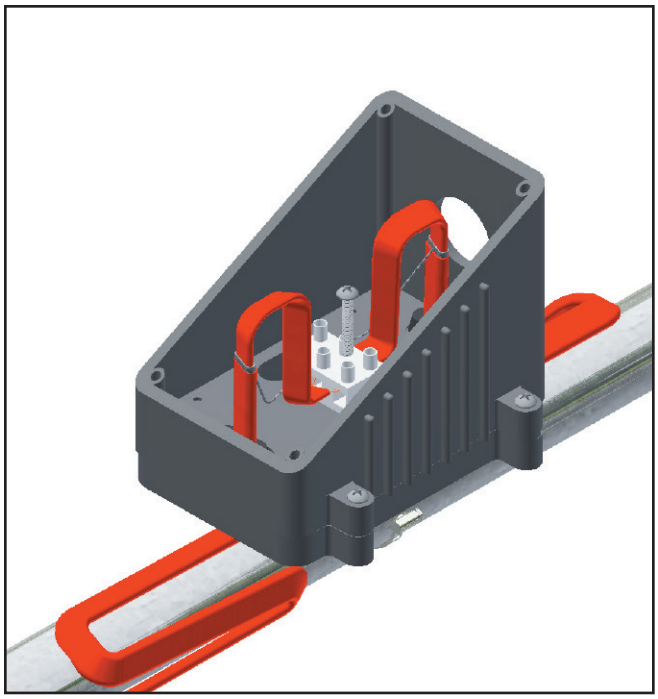


7. Using standard electrical cutters, cut a 3/4” long notch out of the cable between the conductor wires. Bare a 3/8” length of each conductor by stripping off the outside insulation and the inner black core material.

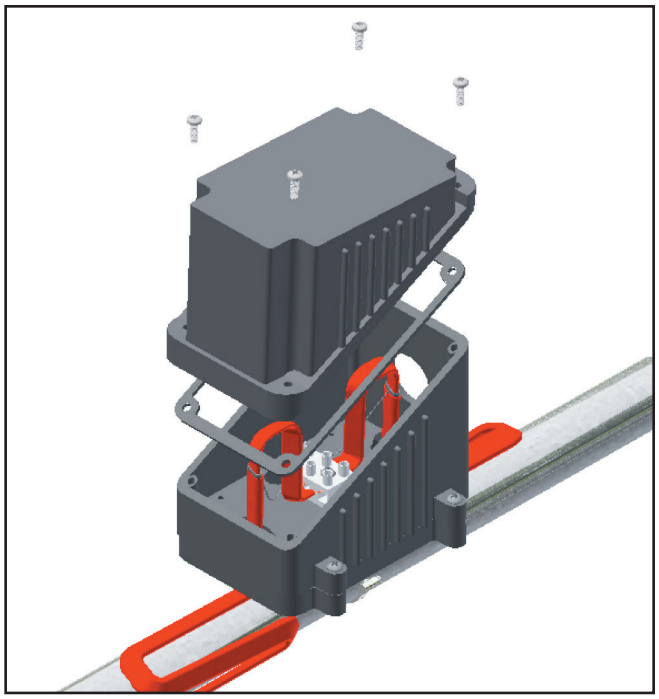
   *If using CZH, CWM score the outer jacket 3/4 inch from the end of the cable and remove the jacket. Cut off the exposed nichrome wire, pushing any remainder back under the jacket. Separate the buss wires and strip off the last 3/8” of the insulation from around both buss wires.



8. Insert the bared ends of the conductors and the braid into the openings in the terminal block. Tighten screws firmly to hold the wires and braid in place.

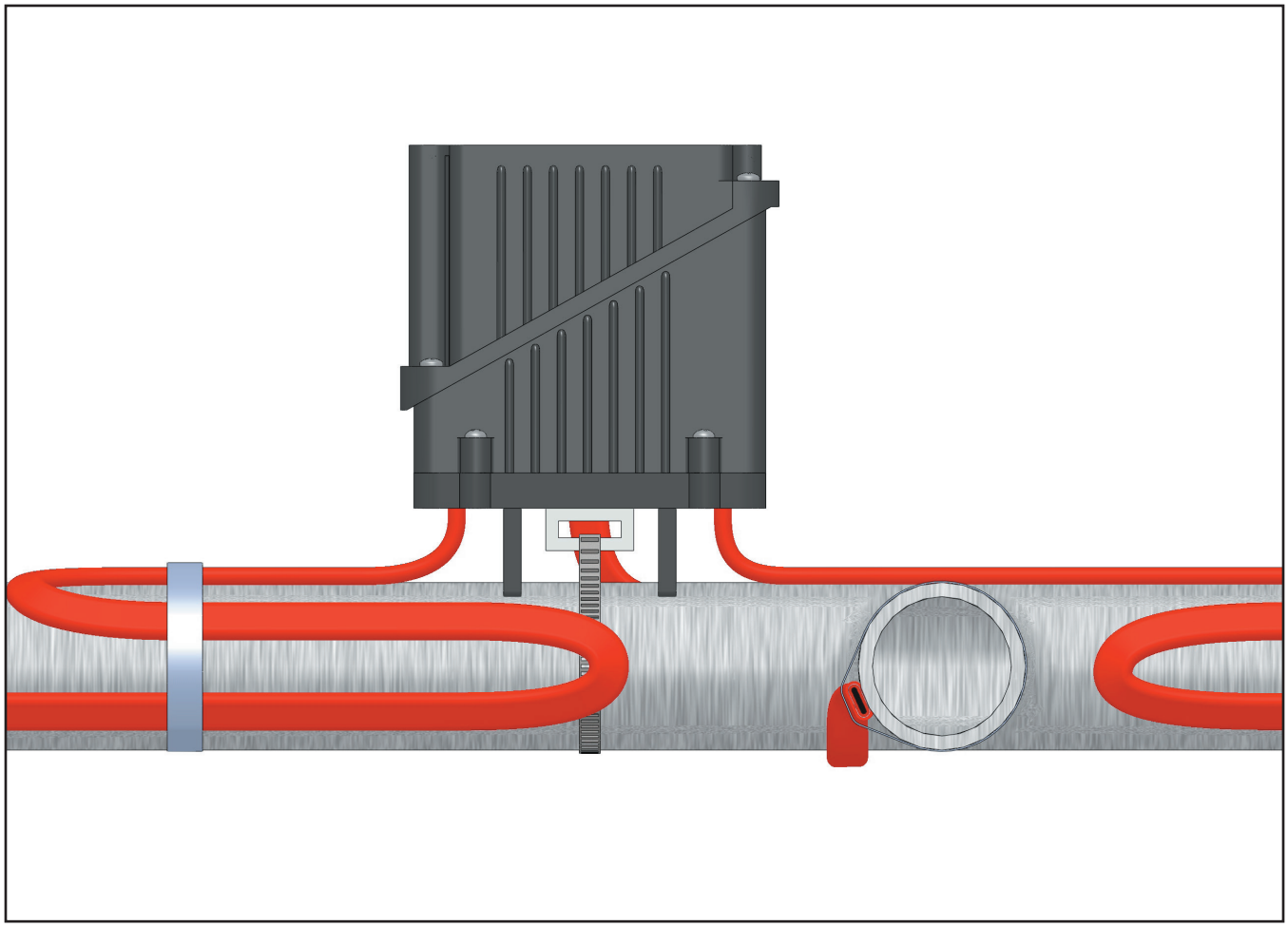


9. Mount terminal block to bottom of the box by driving the self-tapping screw (Item 8) provided into the mounting hole as shown.



10. Carefully push all the wires into the box and secure the lid to the box. Make sure water tight rubber gasket (Item 5) is in place.

RTST 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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