

Chromalox®

Installation Instructions

SERVICE REFERENCE

DIVISION 4	SECTION RT
SALES REFERENCE (Supersedes PJ450-10)	PJ450-11
161-562761-001	
DATE	MARCH, 2009

Type RTES End Seal Kit for Self-Regulating and Constant Wattage Rapid-Trace Heating Cable



RTES Kit Parts:

- 1 - End Cap
- 2 - Screws
- 1 - Pressure Plate
- 1 - Black Grommet
- 1 - Orange Grommet

GENERAL

The RTES kit is used for terminating braided (-C) and overcoated (-CR or -CT) versions of Self-Regulating and Fluoropolymer insulated Constant Wattage Rapid-Trace Heating Cable. The cable grommet is furnished with this kit such that the black grommet is used for self-regulating cables SRL, SRF, SRM/E, SRL/S, SRMF/S and the orange grommet is used for constant wattage cable CWM and self-regulating cable SRS.

Only SRL and SRM/E cables are ATEX and IECEx Certified.

Each kit contains enough material to make one termination. Materials required include: standard electrical cutters, screwdriver and fiberglass tape.

Each kit is dual certified as detailed below except as noted above.

ATEX certified to BS EN 60079-0:2006, BS EN 60079-7:2007 & BS EN 62086:2005 ITS08ATEX36059X

IECEx certified to IEC 60079-0:2007 ed.5, IEC 60079-7:2006 Ed.4 and IEC 62086-1:2001 Ed.1. IECEx ITS 07.0018X

INSTALLATION

⚠ WARNING

ELECTRIC SHOCK HAZARD. Disconnect all power before installing or servicing heating cable and accessories. A qualified person must perform installation and service of heating cable and accessories. Heating cable must be effectively grounded in accordance with the National Electrical Code. Failure to comply can result in personal injury or property damage.

Note: All electrical wiring, including GFCI (Ground Fault Circuit Interrupters), must be done in accordance with the National Electrical Code and local codes by a qualified person.

Note: These instructions are for all Self-Regulating and Constant Wattage heating cables in ordinary locations, and for installation of SRL and SRM/E cable in hazardous locations. Not all instructions, are for all cables. Each step has a boldface heading stating what type of cable that instruction is for.

1. FOR CONSTANT WATTAGE CABLE:

Using standard electrical cutters, make a perpendicular cut across the cable four inches from the last module point.

Note: Cutting the cable between module points (indentions in cable) creates a non-heated cold lead. See Figure 1.

INSTALLATION

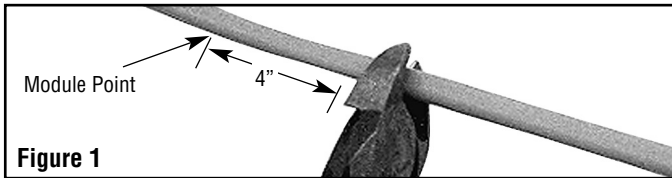


Figure 1

- 2. FOR CABLE WITH EXPOSED METAL BRAID (-C):**
Push the braid back three inches to expose the base cable insulation. See Figure 2.

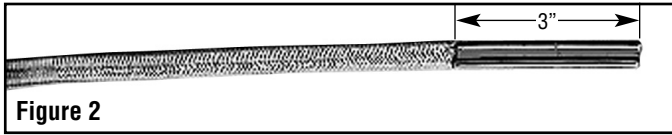


Figure 2

- 3. FOR ALL CABLE:**
Slide the pressure plate and grommet over the end of the cable. **Note:** The pressure plate and end cap have different size curved surfaces on the top and bottom of each piece. These curved surfaces are designed to give a better fit on process equipment. The side with the smaller radius curve is for use on pipes with diameters up to three inches or on flat surfaces. The other side is for use on pipes with diameters of three inches or more. See Figure 3 and Figure 8.

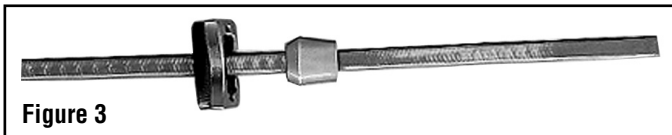


Figure 3

- 4. FOR OVERCOATED CABLES (-CR or -CT):**
Score the outer jacket one inch from the end of the cable. Remove the jacket to expose the braid. Unravel and trim the braid flush with the outer jacket. Pull any strands of braid back towards the outer jacket. See Figure 4.

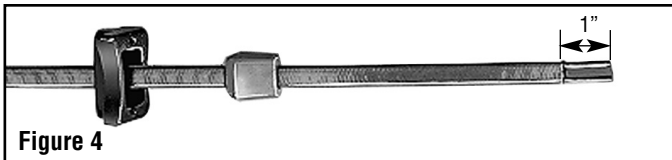


Figure 4

- 5. FOR ALL CABLE:**
Using standard electrical cutters, cut a “VEE” notch between the buss wires. See Figure 5.

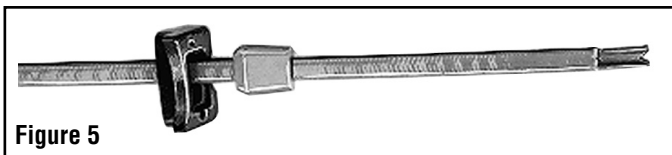


Figure 5

- 6. FOR ALL CABLE:**
Slide the pressure plate and grommet towards the end of the cable leaving 5/8” of the cable extending past the end of the grommet. See Figure 6.



Figure 6

- 7. FOR ALL CABLE:**
Slide the end cap over the grommet. Using a screwdriver, connect the pressure plate to the end cap. See Figure 7.



Figure 7

- 8. FOR ALL CABLE:**
Using a fastening device, fiber re-inforced electrical tape (Chromalox FT-1 or equal), secure the assembly to the pipe. Wrap the tape around the assembly between the legs. See Figure 8.



Figure 8

Limited Warranty:

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

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