

PF - HTK

Heat Trace Termination Kit

INSTALLATION MANUAL

Single Entry Connection and Termination Kit for Chromalox Self-Regulating and Constant Watt Heat Trace



PF-HTK Kit Part Number: FABH-K100005

Quantity	Description
1	Compression fitting
1	Locknut
1	Silicone termination boot
1	Pipe standoff
5	Caution Labels
1	O-ring
1	Self-regulating cable grommet
1	Constant wattage cable grommet
1	Junction Box
1	Pipe Strap, up to 10" diameter.
1	Heat Shrink End Seal
1	Uninsulated butt splice
2	Insulated butt splices
1	Tube of RTV Sealant

PF-HTK INSTALLATION

POWER CONNECTION 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.

⚠ 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, FABER will be glad to assist in making equipment recommendations.

1. Insert heating cable through pipe standoff and grommet as shown. Eight inches of cable should extend past the grommet. Strap pipe standoff to pipe with pipe strap and attach extra cable to pipe as appropriate (Figure 1). For pipes smaller than 1-1/2" diameter a small pipe adapter (Chromalox model SPA not included) is required.

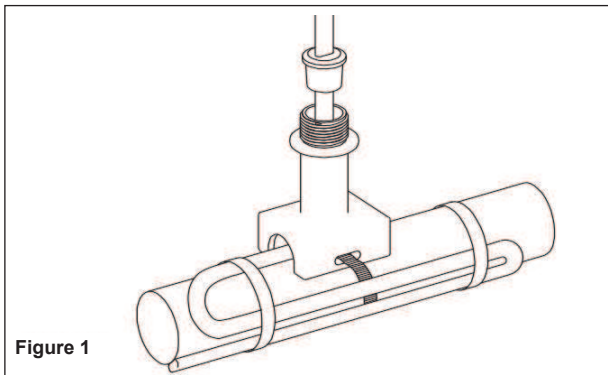


Figure 1

**For Overjacketed cable, "-CR" and "-CT", continue to step 2.
For Braid only cable, "-C", skip to step 3.**

2. Score the outer insulation 7 inches from the end of the cable. Lightly cut the outer jacket up the center to the end of heating cable and remove the outer jacket from the cable (Figure 2).
CAUTION: DO NOT CUT METAL BRAID.

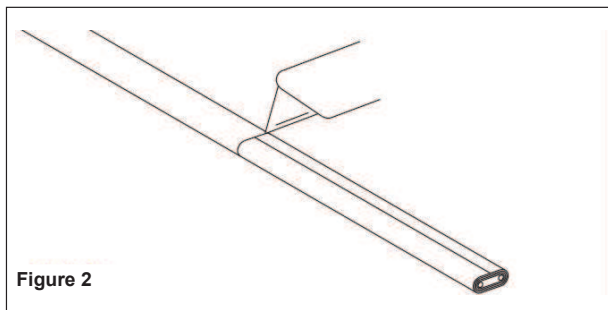


Figure 2

3. Move braid back to create a bulge approximately 7 inches from the end. At the bulge, separate the braid to make an opening (Figure 3).

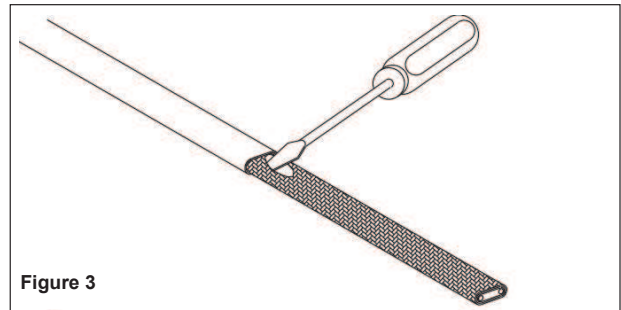


Figure 3

4. While bending the heating cable, work the cable through the braid opening (Figure 4). Pull the braid tight.

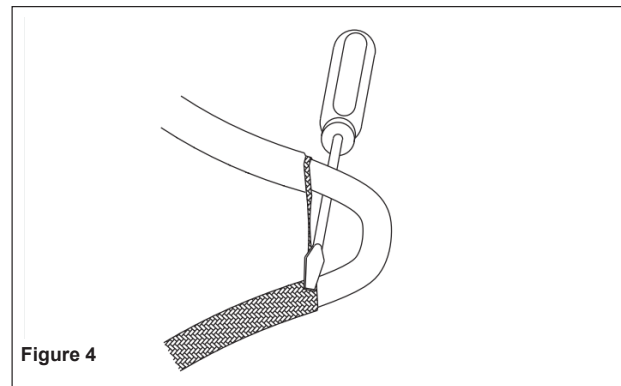


Figure 4

5. Score the inner insulation 6 inches from the end. Lightly cut the inner jacket up the center to end of heating cable and remove the inner jacket from the cable (Figure 5).

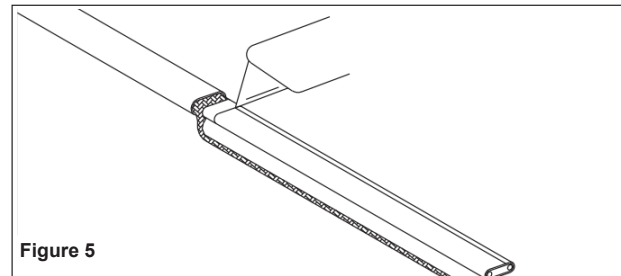


Figure 5

6. Shave the core material from the outside of each bus wire (Figure 6).

**Skip this step if using CWM constant wattage cable*

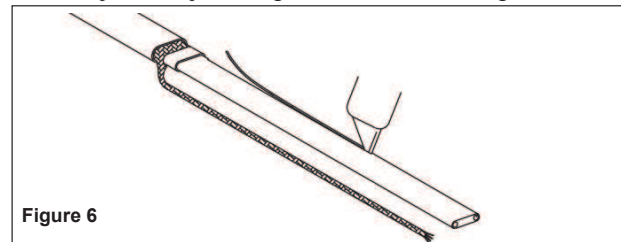
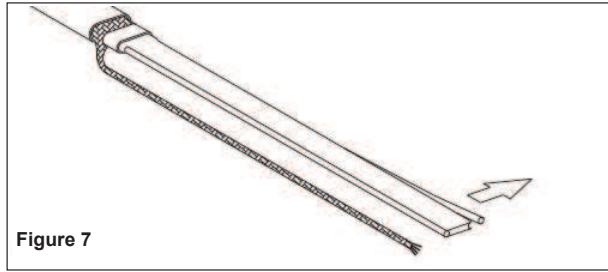


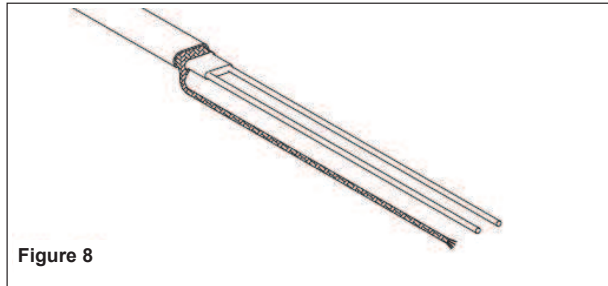
Figure 6

PF-HTK INSTALLATION

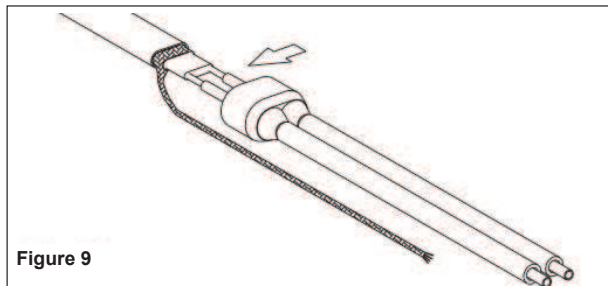
7. Starting at the end of the heating cable, using needle nose pliers or a knife pull each bus wire away from the core material (Figure 7).
*Separate CWM leads and strip 1/4" from each leadwire



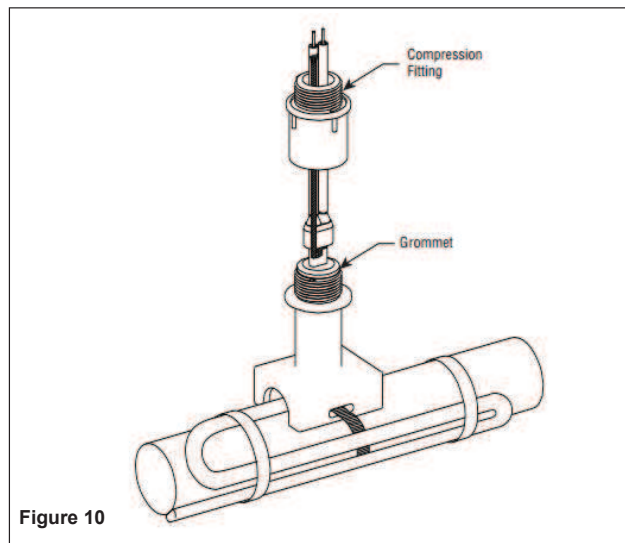
8. Remove the exposed core material and cut 1/4" of the end of each bus wire (Figure 8).
*Skip this step if using CWM constant wattage cable



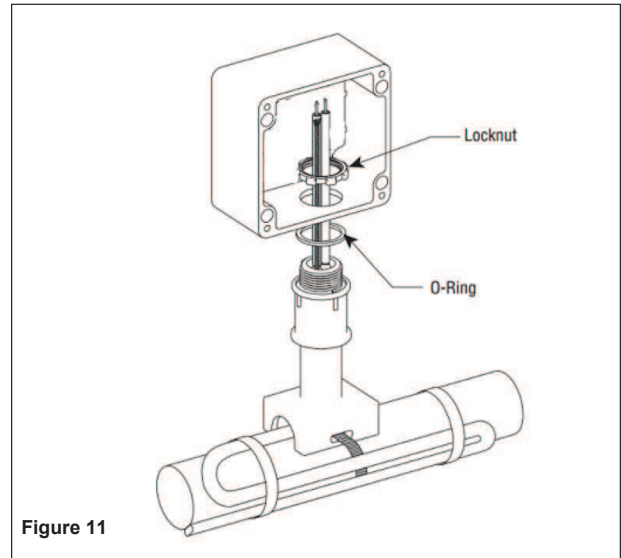
9. Liberally apply RTV over the exposed matrix and leads. Push the rubber boot over the heating cable (Figure 9). Trim lead ends as needed.
*Boot is not needed when using CWM constant wattage cable



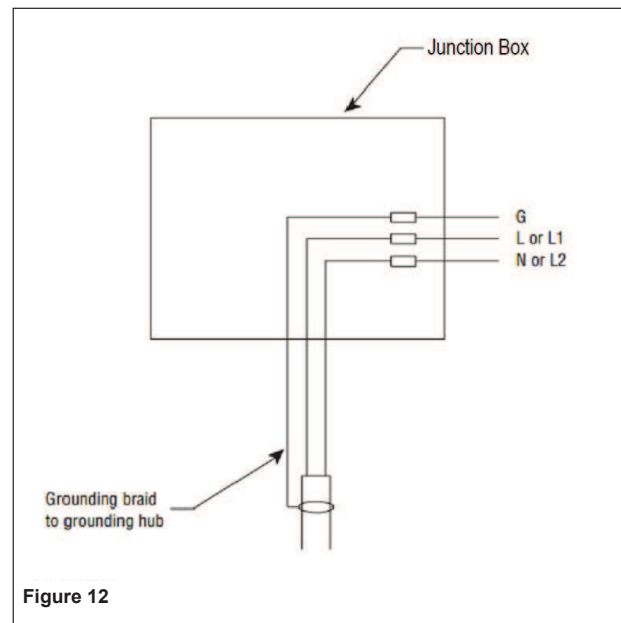
10. Slide compression fitting over cable (Figure 10). Grommet should be placed inside pipe standoff. Termination boot should be spaced 1/2" from sealing grommet.



11. Attach junction box to compression fitting as shown (Figure 11). Tighten locknut until the junction box bottoms out against the lip of the compression fitting. Use the sealing o-ring and locknut to attach the compression fitting to the junction box. Alternately the compression fitting may be threaded directly into a 1" hub.



12. Electrical Contractor shall punch/drill hole as needed into the Junction Box for the conduit. Attach conduit hub (Chromalox CCH-2 or equivalent not included) as needed. Using crimp connectors supplied power electrical connections should be as shown (Figure 12).



NOTE: Ground Fault Protection required, refer also to: NEC Section Article 427 "Fixed Electric Heating Equipment for Pipelines and Vessels."

PF-HTK INSTALLATION

END SEAL INSTALLATION

⚠ WARNING

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

1. Using standard electrical cutters, make a perpendicular cut across the cable 1/8" from the end. Make sure braid is not in contact with bus-wires (Figure 13).

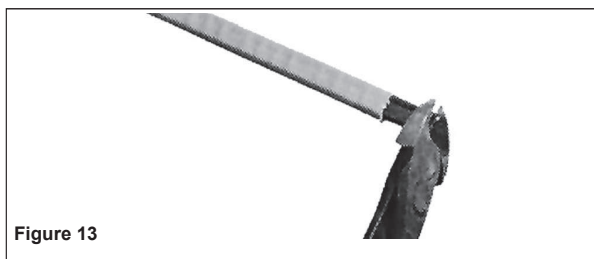


Figure 13

2. Slide the heat shrink cap over the end of the cable (Figure 14).

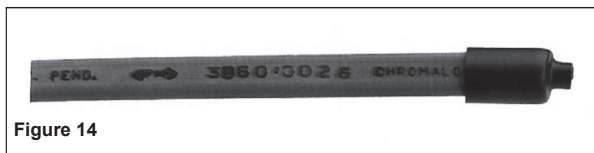


Figure 14

3. Using a propane torch or heat gun, apply heat evenly until the cap shrinks around the cable and the adhesive melts. Both ends should remain visibly sealed when cool (Figure 15). If not, gently reheat.

⚠ WARNING

FIRE/EXPLOSION HAZARD. When utilizing a propane torch or heat gun in a classified (Div. 2) area, verify that the area is not hazardous at the time of installation.

⚠ CAUTION

Do not overheat the tube or cable. Keep the heat source moving at all times.

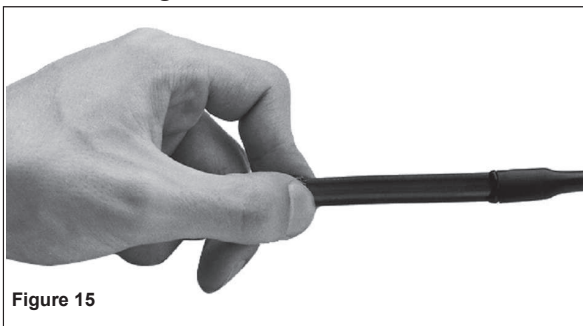


Figure 15

Secure heating cable to pipe with fiberglass tape within three inches of the end seal (Figure 16).

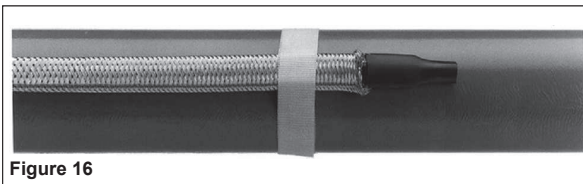


Figure 16



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