1-847-607-6286



# Power Connection Kit Installation



your heating system. Incorrect installation could create

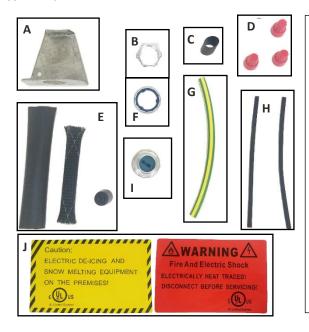
damage and will invalidate your warranty.



## DESCRIPTION

ThermoSoft's Power Connection Kit is for use with NeverFreeze® self-regulating cable for roofs and gutters. The kit connects a live cable in a junction box with a power source. It includes an end seal kit which consists of a woven braid sleeve, shrink tube, and heat shrink cap.

### CONTENTS



- A Mounting Bracket (for Piping)
- B Lock Nut
- **C** Shrink Tube (1/2"x1")
- D Wire Nuts (3 Total)
- F End Seal Kit
- F Blue Grommet and Gasket
- G Yellow Shrink Tube (1/4"x6")
- $\mathbf{H}$  Long Shrink Tubes (2 total) (1/8" x5 ½")
- I Seal Fitting, White Grommet, Gasket
- J Labels

# **TOOLS NEEDED**

- Heat Gun
- Measuring Tape
- Wrench
- Pen
- Screwdriver
- Needle-Nose Pliers
- Wire Cutter
- Utility Knife

### WARNING

- Burning while heating shrink tubes will create fumes that may irritate skin, throat or eyes
- If you have any questions, stop install and call ThermoSoft® or consult a licensed electrician before moving forward.

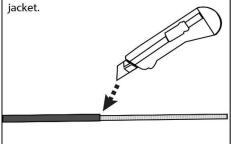


# **Power Connection Kit Instructions**

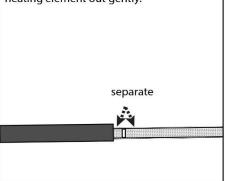
Step 1: Slide the Seal Fitting, White Grommet, Gasket and Seal Fitting Screw (I) onto NeverFreeze® heating cable.



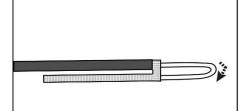
Step 2: Use a utility knife to slice around the heating cable's outer jacket at a distance of 7" (178mm) from the end. DO NOT CUT BRAID OR INNER JACKET. Bend where slice is to break off outer jacket.



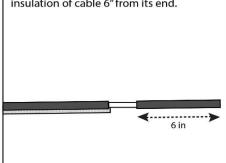
Step 3: CAREFULLY widen open slit in braid to expose heating element. Pull heating element out gently.



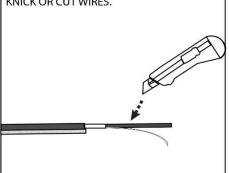
Step 4: Coax the heating element out of the braid more. Bend the heating cable and push the insulation out of the braid.



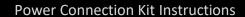
Step 5: Move braid to the side. Cut off insulation of cable 6" from its end.



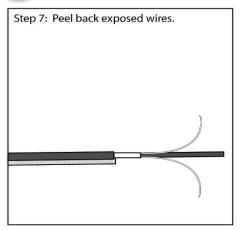
Step 6: Use utility knife to cut PTC and expose wires. BE CAREFUL NOT TO KNICK OR CUT WIRES.

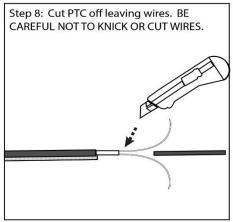


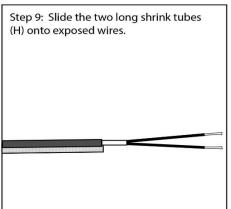


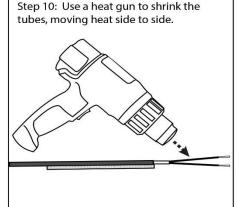


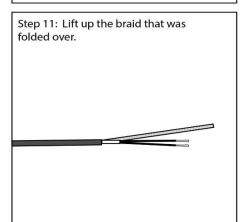


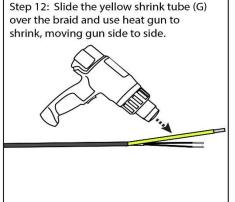






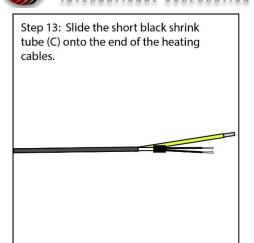


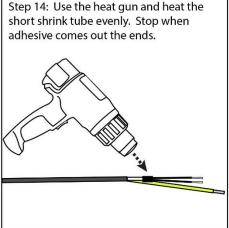




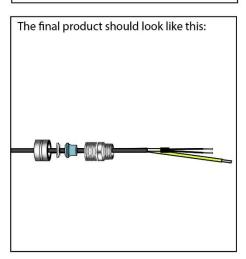


# **Γhermo**Soft

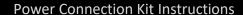




Step 15: While the tube is hot, use pliers to pinch between wires for 10 seconds.



See next page for electrical connection steps.





Step 16: Attach Mounting Bracket (A) to the pipe you will be heating. Place Seal Fitting (I) into position of bracket with cables straight. Fix bracket on pipe tightly with metal band.

Step 18: Make connections. Connect the power wires to the cable wires, and the ground wire to the cable braid. Wire nuts (D) cannot be connected with aluminum wires. Ground the junction box. For heating cables with outer jacket, see shown figure.

