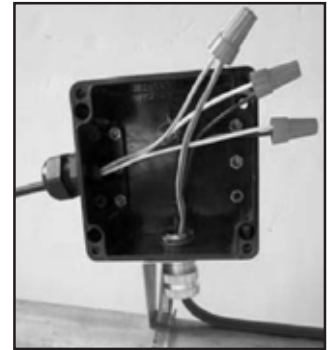


### DESCRIPTION

This Power Connection Kit is for use with Warmup NAMSR self regulating cable. The kit connects the live termination of a cable inside a junction box for connection with a power source. **This kit includes an End Seal Kit** (1 heat shrink tube, 1 heat shrink cap & 1 woven braid sleeving).



### KIT CONTENT

Item	Qty	Description
A	2	Black Shrinkable Tube (1/8" x 5 1/2")
B	1	Green/ Yellow Shrinkable Tube (1/4" x 6")
C	1	Seal Fitting and white Grommet
D	1	Lock Nut
E	1	Black Shrinkable Tube (1/2" x 1")
F	1	Gasket
G	1	Blue Grommet
H	3	Wire Nuts
I	4	Labels
J	1	Mounting Bracket for Piping



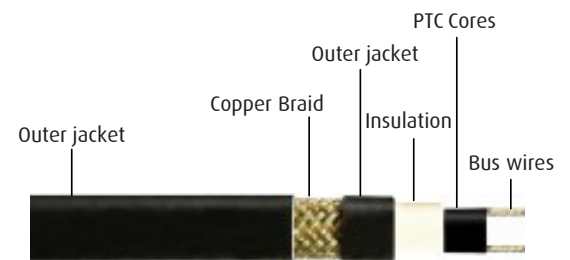
### REQUIRED TOOLS

- Utility Knife
- Wire Cutter
- Needle-Nose Pliers
- Adjustable Wrench
- Pen
- Screw- Driver
- Heat Gun
- Measuring Tape

### CAUTION

Charring or burning the heat-shrinkable tubes in this kit will produce fumes that may cause eye, skin, nose, and throat irritation.

### PRODUCT CONNECTION



Cable with outer jacket for dry and wet conditions

### APPROVALS



1. Open the "Seal fitting", slide the seal fitting kits, white grommet and blue grommet onto the heating cable.



2. Slice completely around heating cable outer jacket, at a distance of 7" (178mm) from the end. Be careful not to cut braid or inner jacket. Then, bend the heating cable to break jacket where sliced, and peel off outer jacket.



3. Carefully push braid back to loosen and spread apart as shown.



4. The heating cable must be bent so the insulation can be pushed out of the braid.



5. Place braid to one side of cable.

6. Cut off the insulation of cable at a distance of 6" (152mm) from the end.



6. Cut PTC material to expose wires with utility knife. **Do not cut bus wires!**



7. Peel back exposed wires from PTC material.



8. Cut off remaining PTC material, leaving the exposed wires. **Do not cut bus wires!**



9. Slide "black shrinkable tubes" of 5" (140mm) on both wires.



10. Carefully shrink the tubes by heating from side to side continuously, being careful not to damage heating cable.



11. Then, slide "green/yellow shrinkable tube" over braid and shrink.



12. Slide "black shrinkable tube" of 1" (25mm) on the end of heating cable.



**13.** Heat the tube evenly until it shrinks and adhesive flows out of both ends.



**14.** Before the tube is cold, pinch it at the area between wires with pliers, and hold for 10 seconds to ensure seal.



**15.** Final appearance for heating cables with an outer jacket.



### PRODUCT INSTALLATION

**16.**

1) Loosely attach the "Mounting bracket for piping" to the pipe you want to heat.

2) Position the "seal fitting" into the hole of the bracket, make sure the cable and fitting come straight up through the hole.

3) Fix the bracket on the pipe with a metal band tightly.



**17.** Use a metallic junction box to ensure a proper grounding. Insert and tighten the heating cable.

**NOTE:** Leave at least 6" of lead wire inside a junction box.



**18.** Make connections as shown in the following figures. Connect the power wires with the cable wires. Connect the incoming ground wire with the cable braid. The wire nuts, included, must not be connected with aluminum wires. The junction box also needs to be grounded.

For heating cables with outer jacket, see Figure 18-1.



(18.1)

**19.** For roof and gutter applications, put warning label on junction box.

