

Power Connection Kit

Installation Instructions

For Self-Regulating & Constant Wattage Heating Cables



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Self-Regulating & Constant Wattage Heating Cable Installation Instructions



General

The power connection kit is used for electrical termination of one self-regulating and constant wattage cables.

Qty	Description
1	Junction Box
1	Compression Fitting
1	Locknut
1	Silicone Termination Boot
1	Pipe Standoff
1	RTV
1	O-Ring
1	Self-Regulating Cable Grommet
1	Constant Wattage Cable Grommet

Certifications & Approvals

IP66 NEMA/Type 4x $-60^{\circ}\text{C} < T_a < +55^{\circ}\text{C}$
 Ordinary & Hazardous Locations
 Class I, Division 2 Groups A,B,C, & D, Zone 2 IIC
 Class II, Division 2, Groups F & G, Class III



ITS08ATEX36059X CE0389
 IIG Exe II T6 Ta -60°C ti 170°C
 IECEX ITS 07.0018X
 Exe II T6 GbTa -60°C to 170°C

⚠ WARNING

HAZARD OF ELECTRIC SHOCK. Disconnect all power before opening. All installations must be effectively grounded in accordance with the National Electrical Code to eliminate shock hazard. To avoid electrostatic discharge. Wipe with damp cloth.

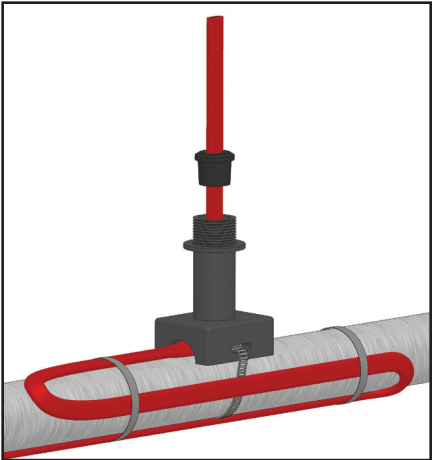
⚠ WARNING

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

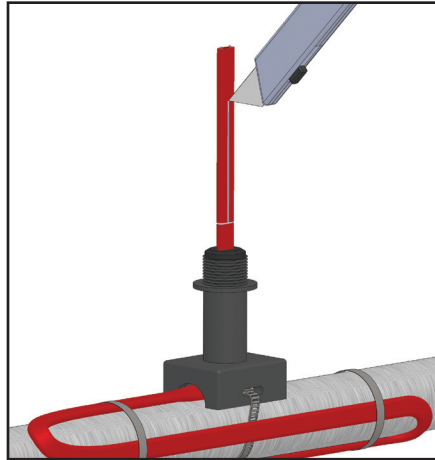
⚠ WARNING

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.

Cable installation instructions: special instructions denoted by *

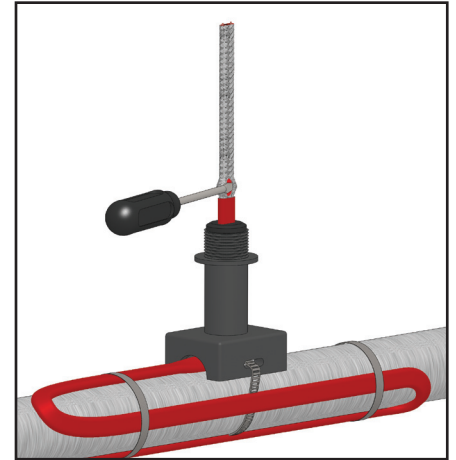


1. Insert heating cable through pipe standoff and grommet as shown. 8 inches of cable should extend past the grommet. Strap pipe standoff to pipe with pipe strap and attach extra cable to pipe as appropriate. For pipes smaller than 1-1/2" diameter a small pipe adapter (not included) is required.

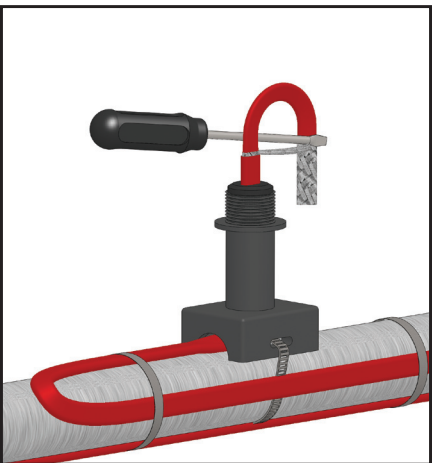


2. Score the outer insulation 7 inches from the end of the cable. Lightly cut the outer jacket up the center to the end of heating cable and remove the outer jacket from the cable. **WARNING: DO NOT CUT METAL BRAID.**

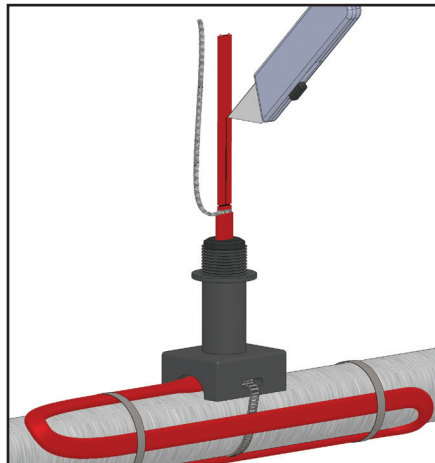
Note: If using braid only cable (-c), skip this step.



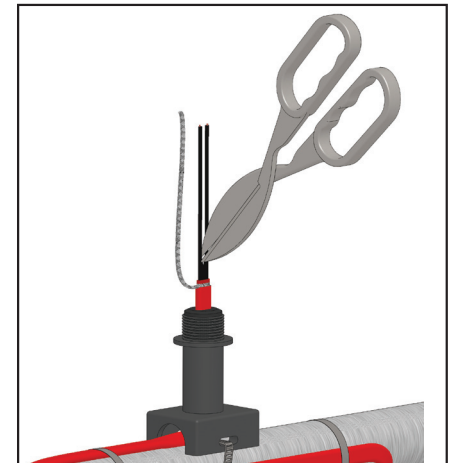
3. Move braid back toward the overjacket, creating a bulge. At the bulge, separate the braid to make an opening.



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

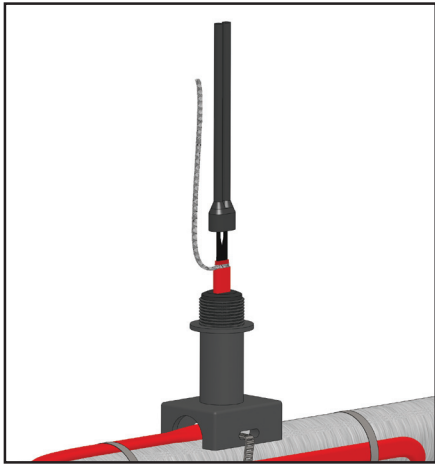


5. Score the inner insulation 6 inches from the end. Lightly cut the inner jacket to end of heating cable and remove the inner jacket from the cable.

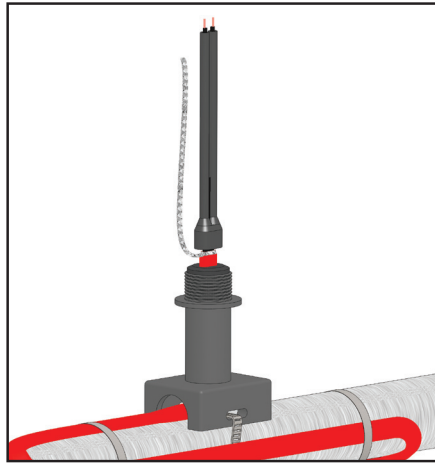


6. Use tin snips or similar tool to cut excess material from between the buss wires.

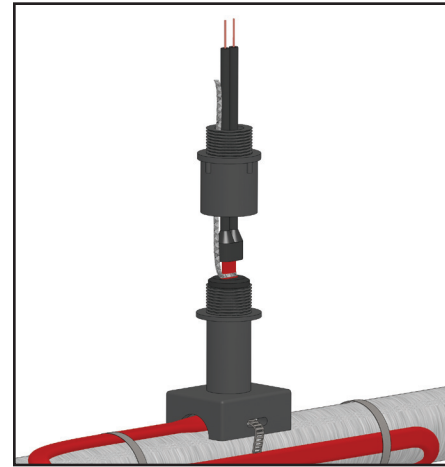
*Separate leads



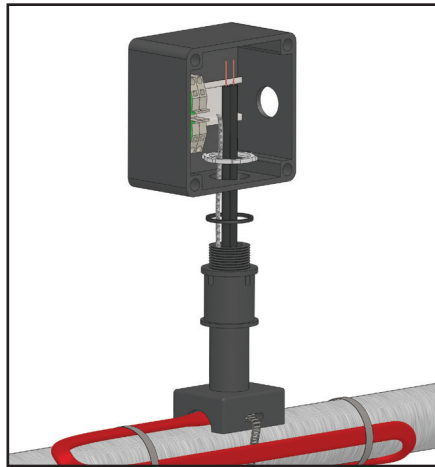
7. Liberally apply RTV over the exposed matrix and leads. Push the rubber boot over the heating cable.



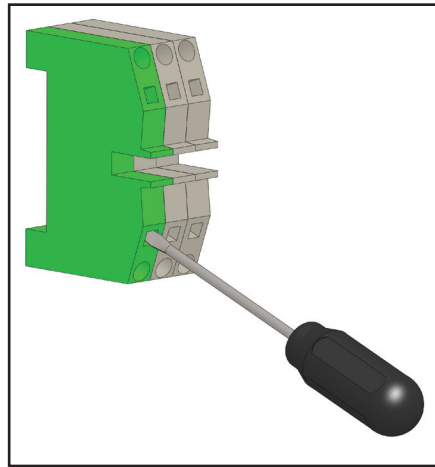
8. Strip each bus wire so that no black matrix material shows above the end of the rubber boot. Trim lead ends as needed.



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



10. Assemble junction box to compression fitting as shown. Tighten locknut until the junction box bottoms out against the lip of the compression fitting.



11. Attach 3/4" conduit hub. Use a flathead screwdriver to release the terminal spring clamps and insert cable leads and grounding braid as per wiring diagram on next page. Supply power electrical connections to terminals as shown on wiring diagram on next page. For ATEX and IECEx installations, conduit hub must be an ATEX or IECEx certified component.

NOTE: Conduit hub should be approved for:
 Class I, Div. 2
 Class II Div. 1 & 2
 Class III Div 1 & 2
 NEMA 4X
 and rated by a nationally recognized laboratory.



12. Once Locknut is secure and wires are secured in terminal, place cover on box and secure the lid to the box by tightly fastening screws.

Wiring Diagrams

