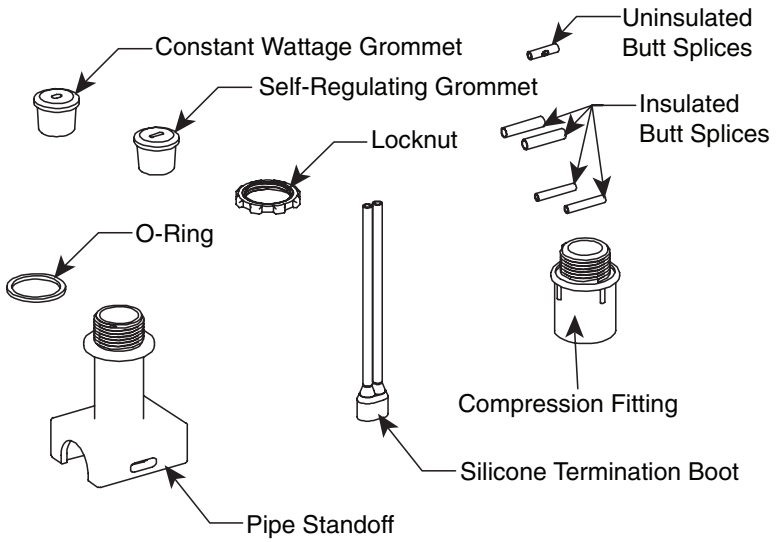
Installation Instructions

SSK Single Entry Sealing Kit & Optional Junction Box

for Self-Regulating & Constant Wattage Heating Cables

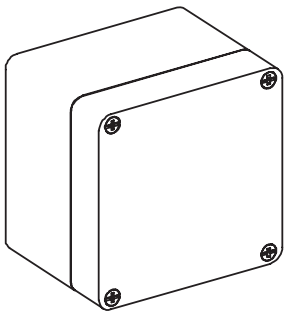
CHROMALOX
Advanced Thermal Technologies

PJ498-3
161-562581-033
April, 2021



Qty	Description
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
4	Insulated Butt Splices
2	Un-Insulated Butt Splices

Junction Box (Optional)



Optional: NEMA 4X Rated Junction Box

Quantity	Description
1	Junction Box*

* Approved for CSA Class I, Div. 2 Groups A, B, C & D and Class II. Div. 2, Groups F, G when junction box is used that is rated NEMA 4X, and certified by appropriate third party agency for use for that application and hazardous locations rating (Div. 2).

Installation

The minimum Installation temperature for this kit is 0˚F (-18˚C).

General

The SSK and PJB kit is used for electrical termination of self-regulating and constant wattage cables.

⚠WARNING

ELECTRIC SHOCK HAZARD. Do not cross connect two conductors from two heating cables together nor connect two conductors of one heat cable together as either will cause a short circuit. Failure to comply can result in personal injury or property damage.

⚠WARNING

ELECTRIC SHOCK HAZARD. Verify insulation resistance is 20 megohms or greater before installing. Contact Chromalox if cable is less than 20 megohm.

SSK & Optional Junction Box for Self-Regulating & Constant Wattage Heating Cables

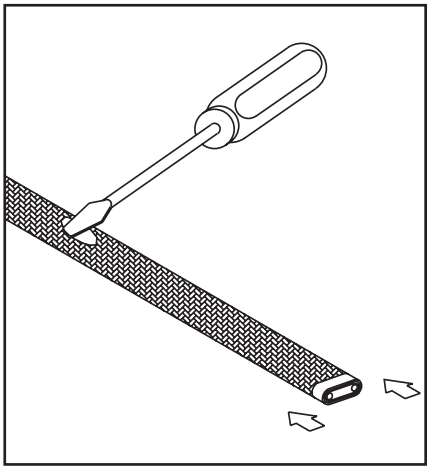
Braid only cable instructions for SRL-C, SRM/E-C
CWM-C cable special instructions denoted by *.

⚠WARNING

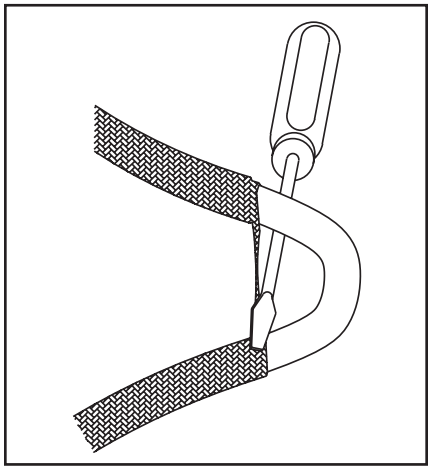
ELECTRIC SHOCK HAZARD. Disconnect all power before installing or servicing heating cable and accessories. A qualified person must perform installation and service of heating cable and accessories. Heating cable must be effectively grounded in accordance with the National Electrical Code. Failure to comply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

⚠WARNING

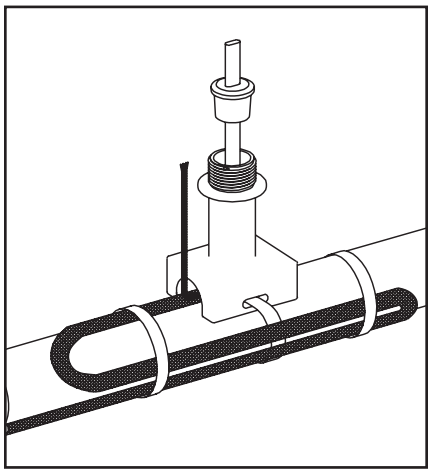
Users should install adequate controls and safety devices with their electric heating equipment. Where the consequences of failure may be severe, back-up controls are essential. Although the safety of the installation is responsibility of the user, Chromalox will be glad to assist in making equipment recommendations.



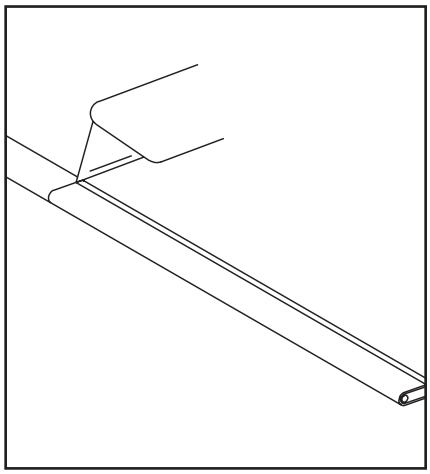
1. Push braiding back from the end of the cable. 11” from cable end create a bulge. At the bulge, separate the braid to make an opening.



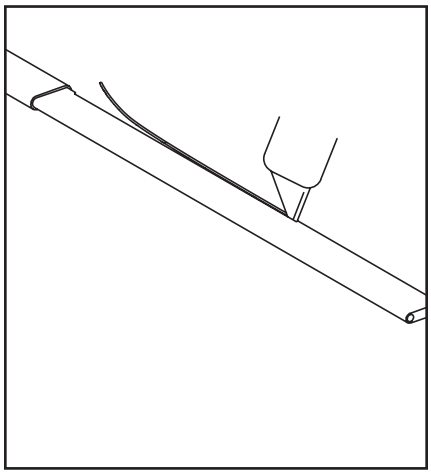
2. While bending the heating cable, work the cable through the braid opening. Pull the braid tight.



3. Insert cable though pipe standoff and grommet as shown. Leave braid outside of pipe standoff for future connection to ground. Attach standoff.

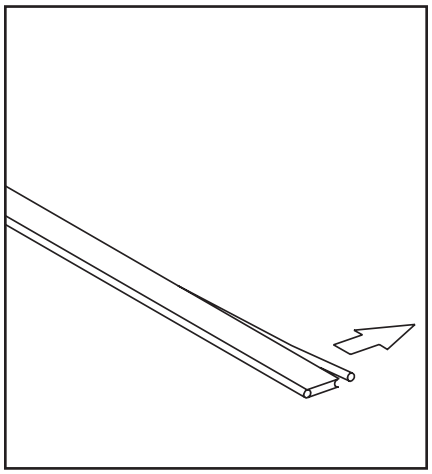


4. Score the inner insulation 7” from the end. Lightly cut the inner jacket up the center to end of heating cable and remove the inner jacket from the cable.



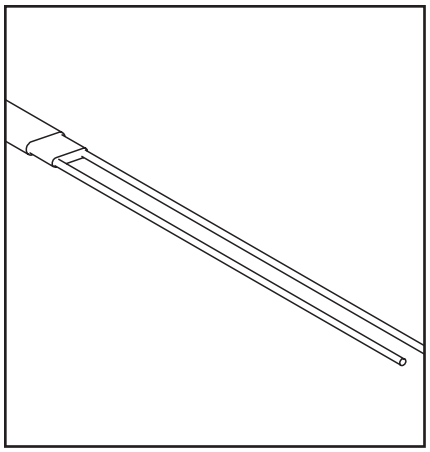
5. Shave the core material from the outside of each bus wire.

* Skip this step if using CWM-C constant wattage cable.

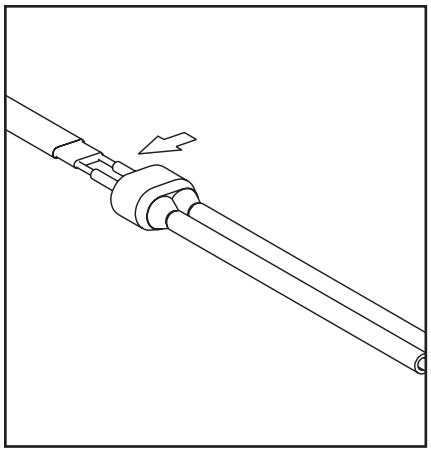


6. Starting at the end of the heating cable, using needle nose pliers or a knife pull each bus wire away from the core material

* Separate CWM-C leads and strip 1/4” from each leadwire.

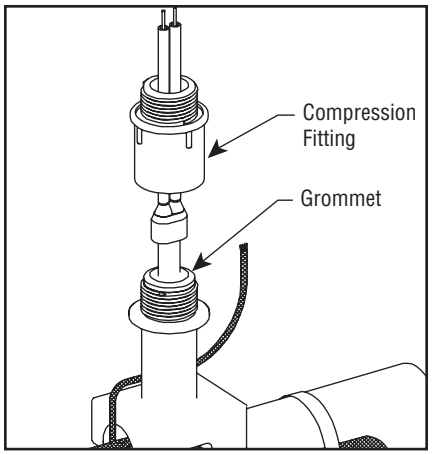


7. Remove the exposed core material and cut 1/4” off the end of each bus wire. *Skip this step if using CWM-C constant wattage cable.

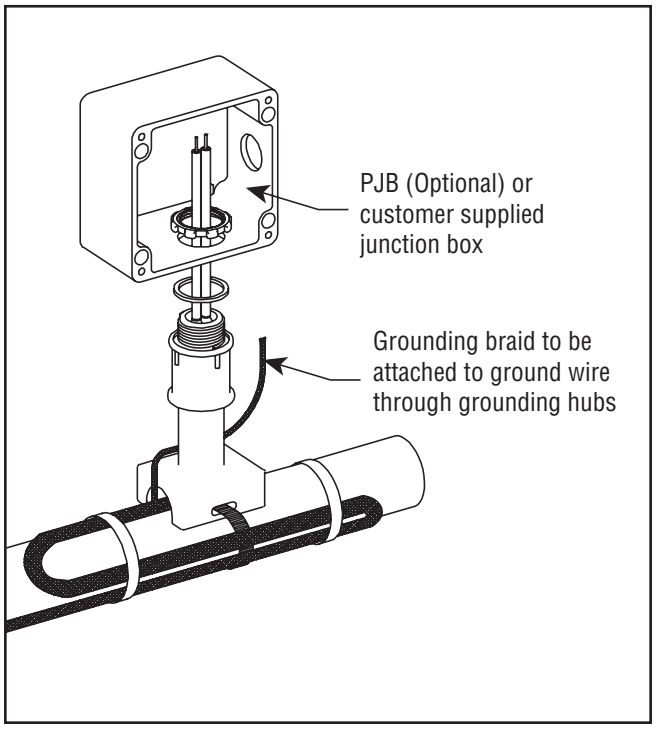


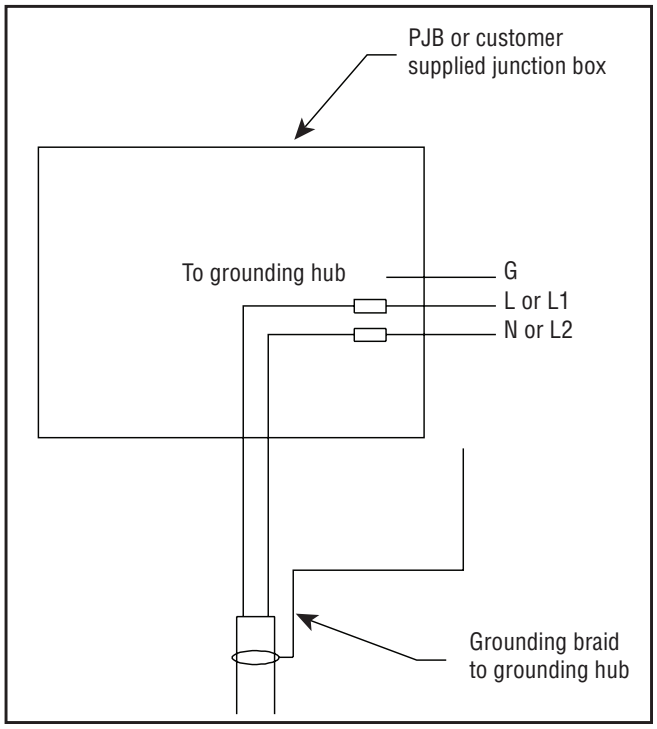
8. Liberally apply RTV over the exposed matrix and leads. Push the rubber boot over the heating cable. Slide cable wires through plastic guide tubes. After boot is in place remove guide tubes and discard. Trim lead ends as needed.

* Boot is not needed when using CWM-C constant wattage cable.



9. Slide compression fitting over cable. Grommet should be placed inside pipe standoff. Termination boot should be spaced 1/2” from sealing grommet. Tighten compression fitting until it bottoms out against pipe standoff.



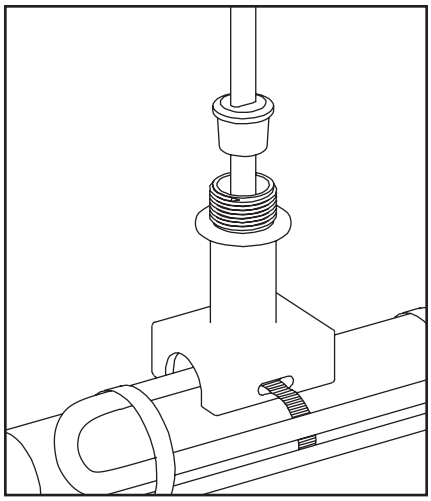


10. Attach junction box to compression fittingas shown. Tighten locknut until the junction box bottoms out against the lip of the compression fitting. The SSK kit is provided with a sealing o-ring and locknut to attach the compression fitting to a customer supplied junction box through a hole cutout sized 1.313” diameter. Alternately the compression fitting may be threaded directly into a 1” hub.

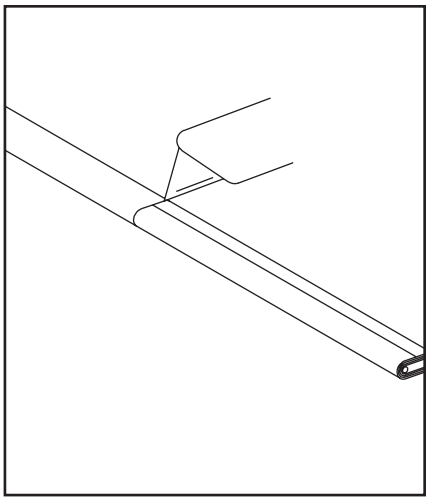
11. Attach conduit hub (Chromalox CCH-2 or equivalent not included) as needed. Supply power electrical connections should be brought into box as shown.

SSK & Optional Junction Box for Self-Regulating & Constant Wattage Heating Cables

Overjacketed cable instructions for SRL-CR, SRL-CT SRM/E-CT CWM-CT cable instructions denoted by *.

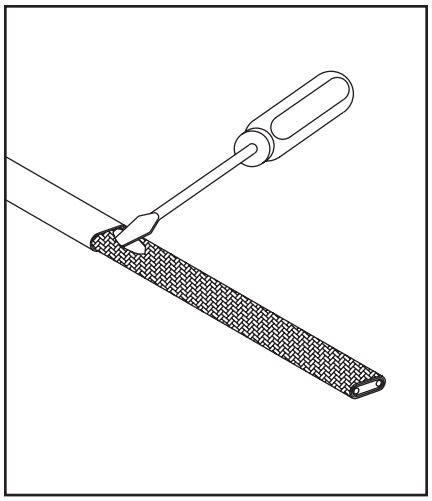


1. Insert heating cable through pipe standoff and grommet as shown. 8” of cable should extend past the grommet. Strap pipe standoff to pipe with pipe strap (Chromalox type PS not included) and attach extra cable to pipe as appropriate. For pipes smaller than 1-1/2” diameter a small pipe adapter (Chromalox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

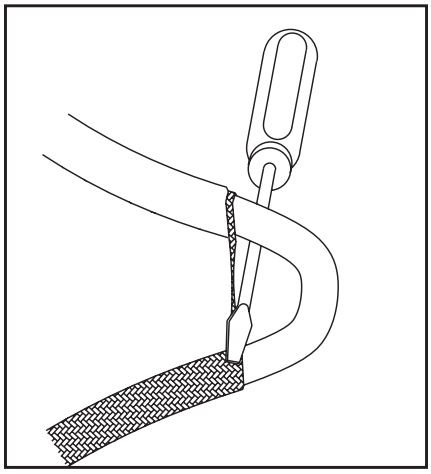


2. Score the outer insulation 7” from the end of the cable. Lightly cut the outer jacket up the center to the end of heating cable and remove the outer jacket from the cable.

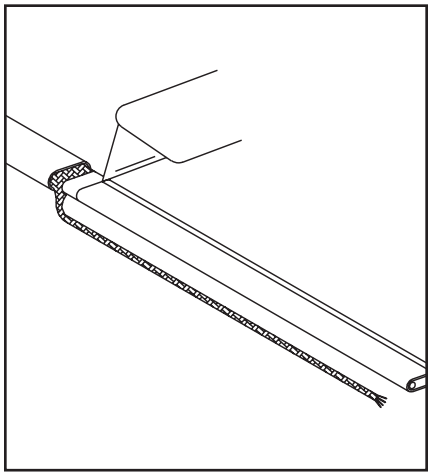
CAUTION:
DO NOT CUT METAL BRAID



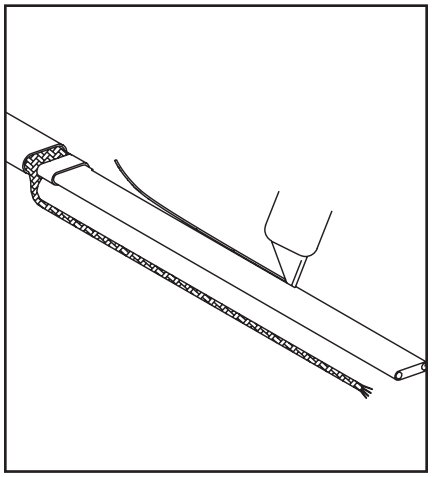
3. Move braid back toward the overjacket, creating a bulge. At the bulge, separate the braid to make an opening.



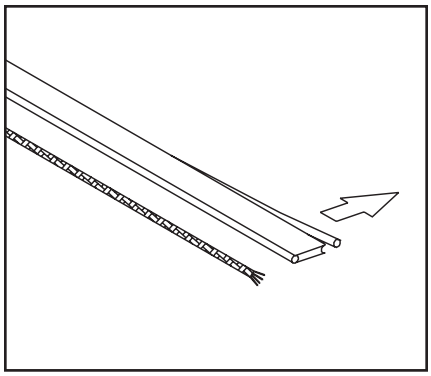
4. While bending the heating cable, work the cable through the braid opening. Pull the braid tight.



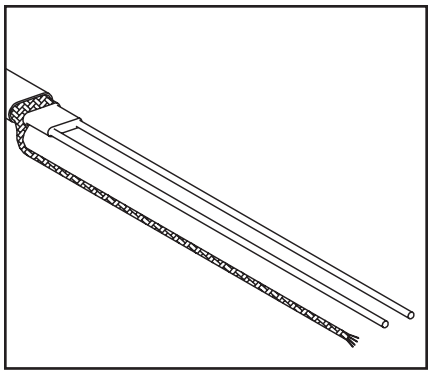
5. Score the inner insulation 6” from the end. Lightly cut the inner jacket up the center to end of heating cable and remove the inner jacket from the cable.



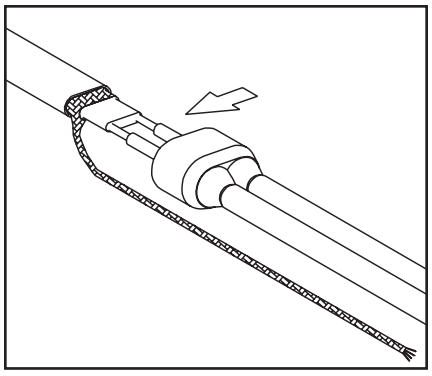
6. Shave the core material from the outside of each bus wire. *Skip this step if using CWM-C constant wattage cable.



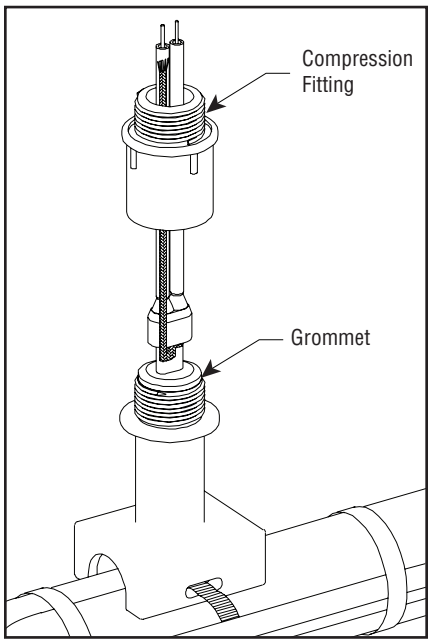
7. Starting at the end of the heating cable, using needle nose pliers or a knife pull each bus wire away from the core material. *Separate CWM-C leads and strip 1/4” from each leadwire.



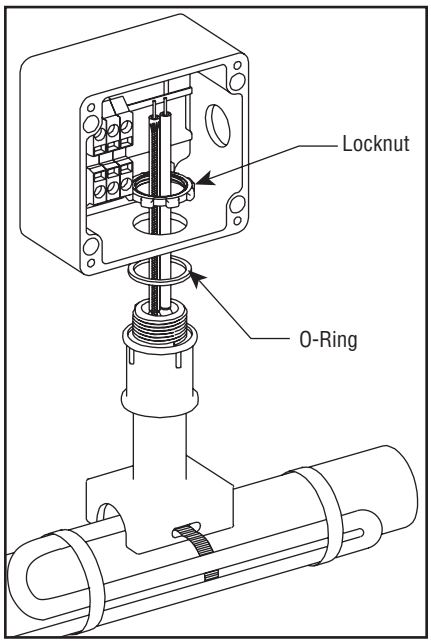
8. Remove the exposed core material and cut 1/4” of the end of each bus wire. *Skip this step if using CWM-C constant wattage cable.



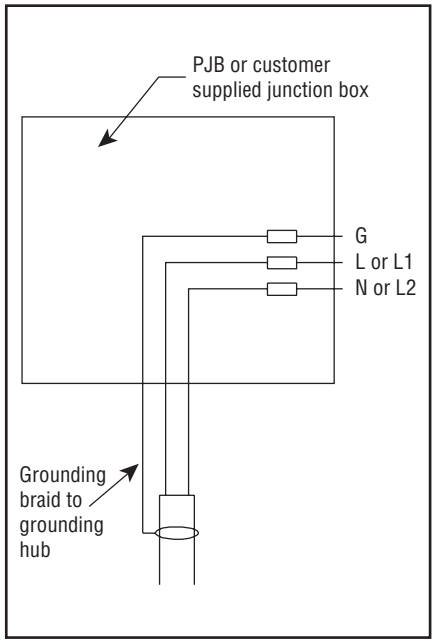
9. Liberally apply RTV over the exposed matrix and leads. Push the rubber boot over the heating cable. Trim lead ends as needed. *Boot is not needed when using CWMC constant wattage cable.



10. Slide compression fitting over cable. 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. Tighten locknut until the junction box bottoms out against the lip of the compression fitting. The SSK kit is provided with a sealing oring and locknut to attach the compression fitting to a customer supplied junction box through a hole cutout sized 1.313” diameter. Alternately the compression fitting may be threaded directly into a 1” hub.



12. Attach conduit hub (Chromalox CCH-2 or equivalent not included) as needed. Using crimp connectors supply power electrical connections should be as shown.

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

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