

**RGS™-SFK**

**INSTALLATION INSTRUCTIONS**

RGS Self-Regulating Heating Cables  
Splice and Tee Kit with End Termination Kit



**The Heat Tracing Specialists®**

# RGS™-SFK Power Connection and End Termination Kit



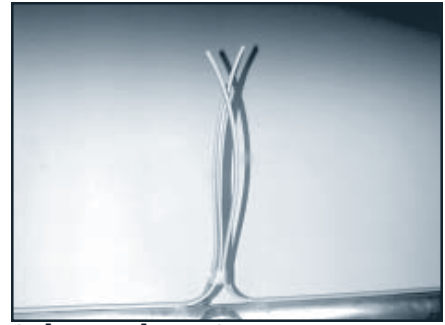
## Tools Required for Installation

Crimper/cutter, flat-blade screwdriver, and utility knife



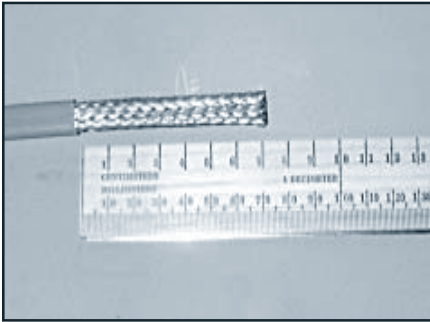
## Kit Contents

(1) Splice/Tee, (1) End Termination

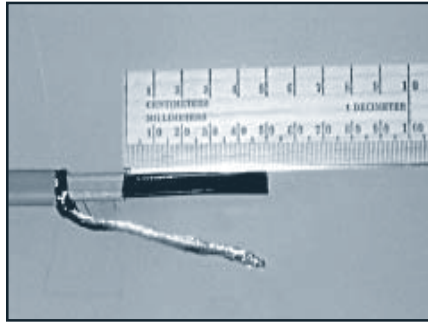


## Splice and Tee Connection

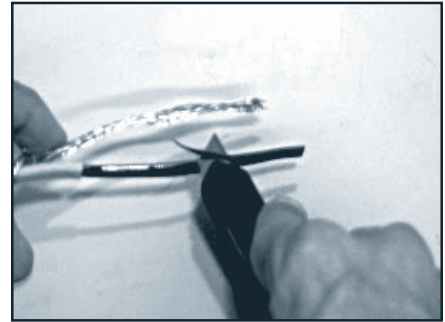
**Step 1:** Allow 12" (30 cm) of extra length for each heating cable at the connection point.



**Step 2:** Cut overjackets back a distance of 3" (70 mm).



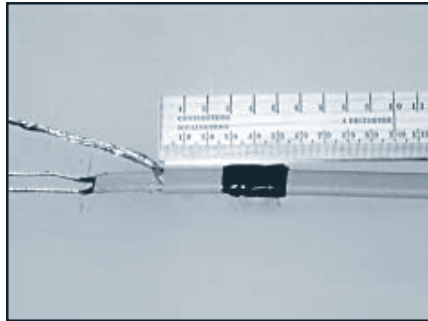
**Step 3:** Separate braids and twist into pig-tails. Carefully cut primary jackets back 2" (50 mm).



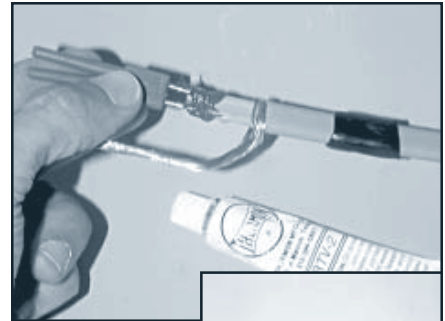
**Step 4:** Skive outer matrix material from conductors with utility knife.



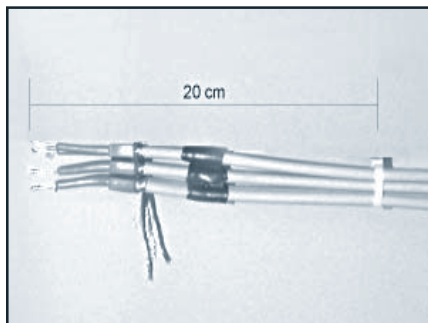
**Step 5:** Peel exposed wires back from center matrix and cut center matrix away, leaving bare conductors.



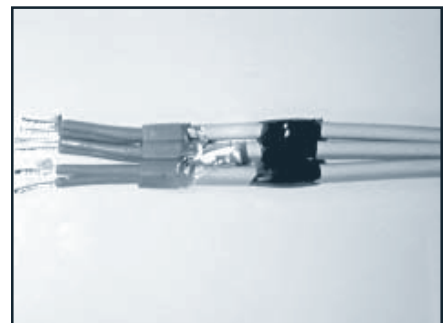
**Step 6:** wrap black mastic around each cable beginning at a distance of 1" (25 mm) back from the pigtail (overjacket).



**Step 7:** Squeeze RTV into the silicone rubber boots and slide over cable ends.



**Step 8:** Stack the two (or three cables in the case of a tee) together and tighten down with two standard tie wraps at 8" (20 cm) and 10" (28 cm) respectively from the exposed bus wire end.

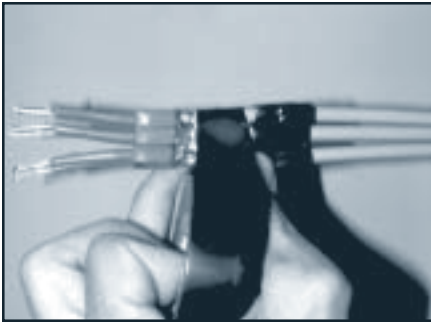


**Step 9:** Twist all the pigtails together. Slide the large un-insulated lug over the braid ends in close proximity to the cables and then crimp. Trim off any extra braid. Bend pigtail back so that the crimp lug lies down.

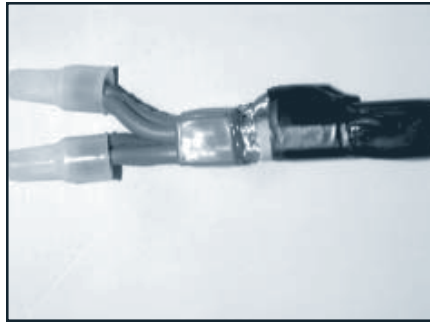


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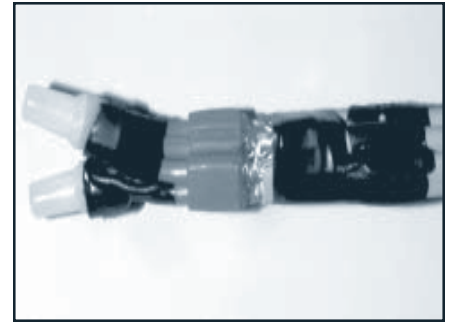
# INSTALLATION INSTRUCTIONS



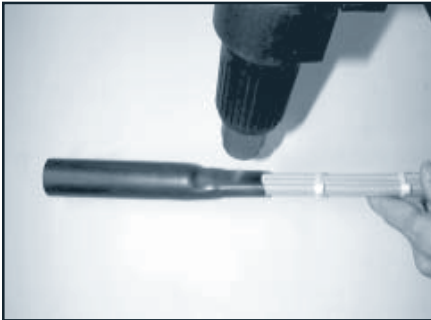
**Step 10:** Wrap black electrical tape around the cables and over the crimped lug.



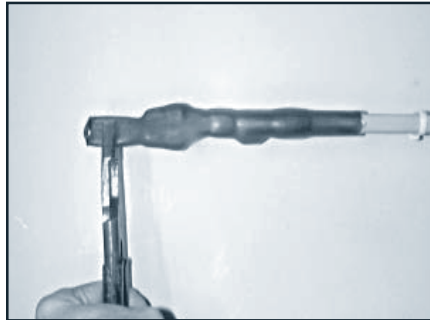
**Step 11:** Twist the bus wires of one side of the cables together and repeat with the other side, making sure that both wires from any one cable do not get twisted together. Crimp insulating caps on each leg.



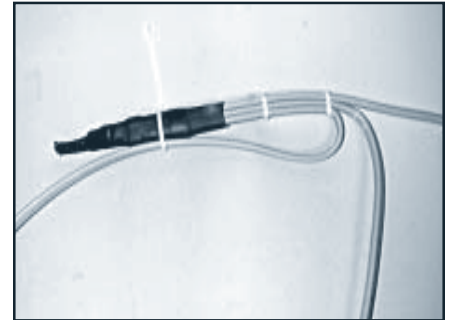
**Step 12:** Wrap mastic tape around each terminated leg and insulation cap.



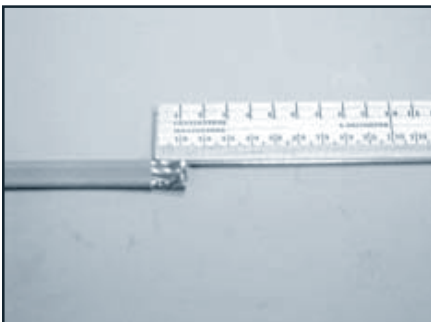
**Step 13:** Slide the 8" (20 cm) heat shrink tube over the connection past the mastic approximately 1" (25 mm) and shrink from mastic end back toward the terminated splice end.



**Step 14:** Pinch heated shrink end with a pair of pliers until the encapsulant cools and seals.



**Step 15:** Fold the splice back on itself to one of the outside cables and secure with a tie wrap. For roof and gutter applications secure the splice up and away from the bottom of the gutter.



## End Termination . . .

**Step 16:** Cut back overjacket 0.5" (12 mm).



**Step 17:** Trim ALL of the braid strands back to the overjacket with scissors.



**Step 18:** Fill the smaller end cap with RTV.



**Step 19:** Slide the end cap on the end of the cable until fully seated.



**Step 20:** Put a small amount of RTV into the opening of the larger over-cap.



**Step 21:** Slide the over-cap over the end cap until fully seated.





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