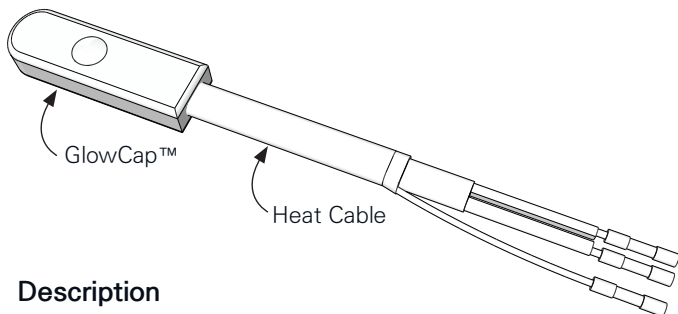




## GlowCap End Seal Kit

### GC-ESK-12 Installation Instructions



#### Description

- GC-ESK is a field-installed end seal kit to terminate 6HTP self-regulating heating cables after the cable has been installed in position. This kit includes materials for one GlowCap™ End Seal.
- The GlowCap End Seal should be placed in any location that the GlowCap and splice connection are not subjected to long-term submersion in water.

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# Installation Instructions

P.1

## Tools Required

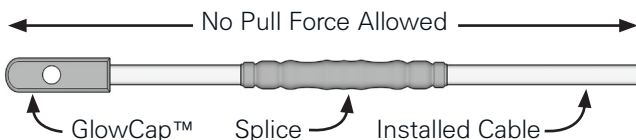
- Ratcheting Crimp tool, Klein 3005CR
- Utility knife
- Heavy duty scissors
- Needle nose pliers
- Heat gun
- Wire stripper
- Tape measure or ruler
- Screw driver

## Additional Materials Required

- Additional RADIANT SOLUTIONS COMPANY accessories may be required for roof and gutter applications, including roof clips and downspout hangers.

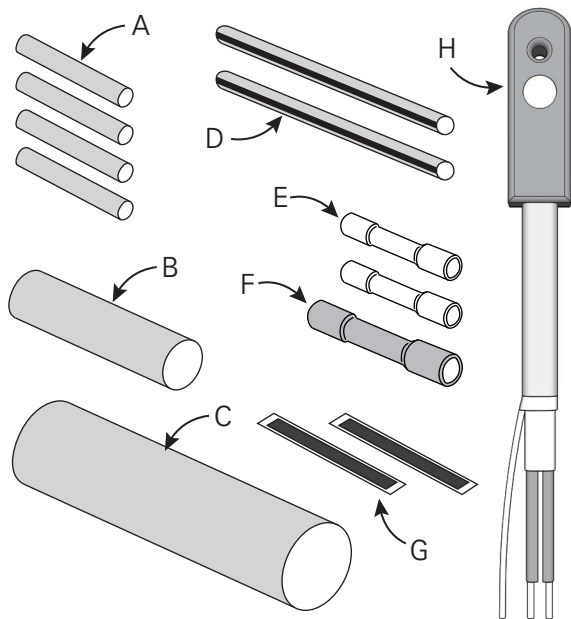
## Safeguards & Warnings

- Do not apply pull forces to the GC-ESK after installation as this may place strain on the splice connection between the GC-ESK and the primary heat cable.
- Install GC-ESK only **after** the heat cable is installed in position.
- Do not place end seal or splice connection in areas subjected to prolonged submersion in water.
- Only for use with HTP 120v self-regulating heat cable



# Kit Contents

P.2



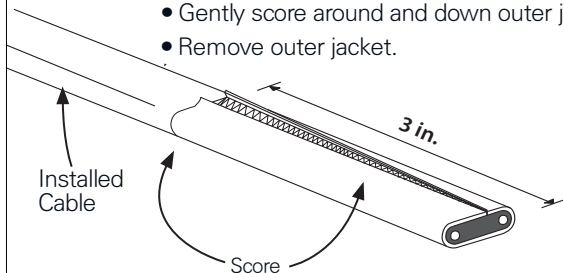
Item	Description	Dimension	Qty.
A	Heat shrink tube (Black)	0.16 x 1.5 in.	4
B	Heat shrink tube (Black)	0.63 x 6.3 in.	1
C	Heat shrink tube (Black)	0.79 x 12 in.	1
D	Heat shrink tube (Green/Yellow)	0.19 x 2.4 in.	2
E	Heat shrink butt splice (Blue)	0.11 x 1.5 in.	2
F	Heat shrink butt splice (Yellow)	0.13 x 1.6 in.	1
G	Mastic tape	0.40 x 2 in.	2
H	GlowCap on 12mm, 6w cable	.50 x 12 in.	1

# Installation Instructions

P.3

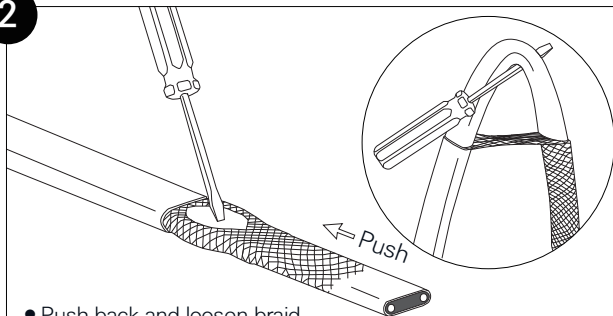
1

- Install heat cable completely, planning for eventual appropriate location of GC-ESK.
- Gently score around and down outer jacket.
- Remove outer jacket.



**WARNING: DO NOT DAMAGE BRAIDING**

2



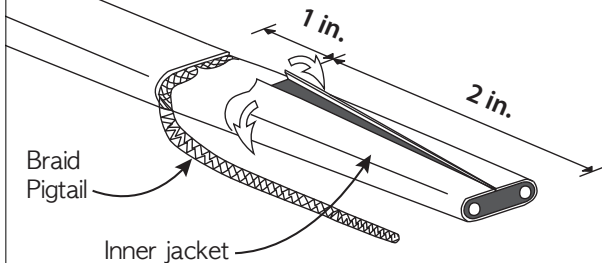
- Push back and loosen braid.
- Gently spread apart braid as shown.
- Bend and pull out heating cable through the opening in the braid.

# Installation Instructions

P.4

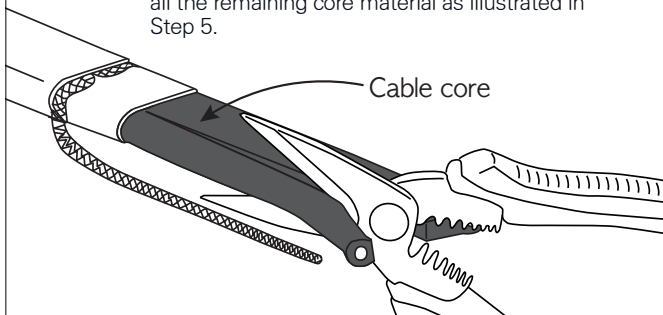
3

- Twist braid into pigtail on one side of heating cable.
- Gently score down and around the inner jacket.
- Bend and break jacket at score; peel off inner jacket.



4

- Using scissors or knife, carefully remove cable core between the two main bus wires. Remove all the remaining core material as illustrated in Step 5.

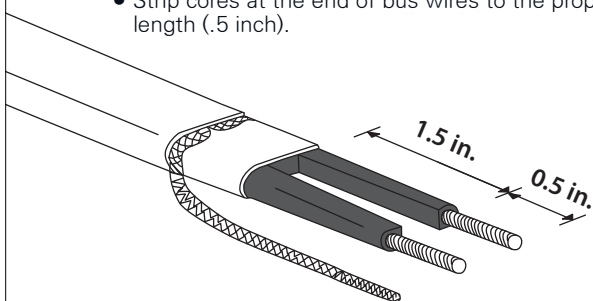


# Installation Instructions

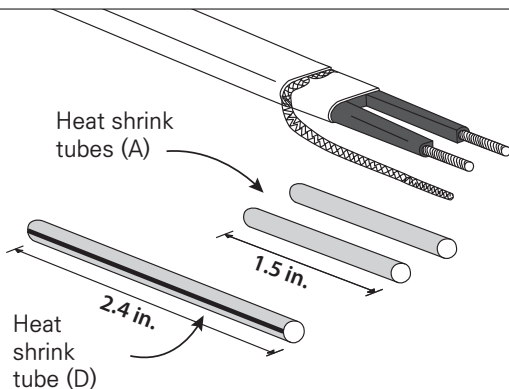
P.5

5

- Strip cores at the end of bus wires to the proper length (.5 inch).



6

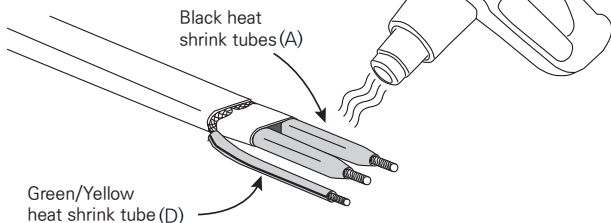


# Installation Instructions

P.6

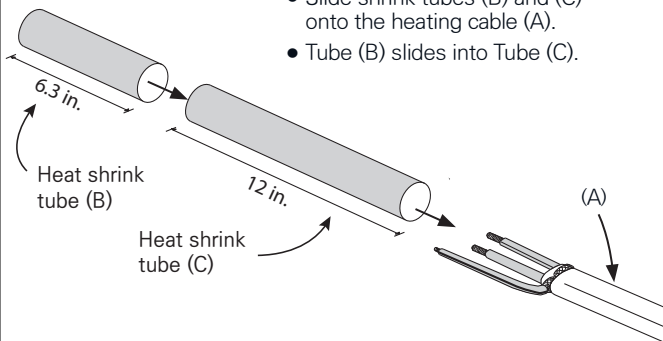
7

- Slip Black tubes (A) over bus wires.
- Slip Green/Yellow tube (D) over braid pigtail.
- Shrink all three tubes by using heat gun continuously from side to side.



8

- Slide shrink tubes (B) and (C) onto the heating cable (A).
- Tube (B) slides into Tube (C).

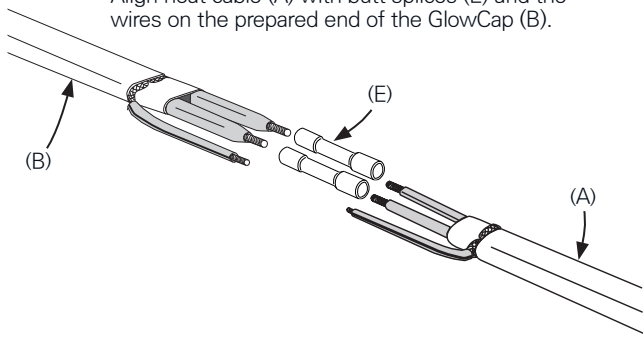


# Installation Instructions

P.7

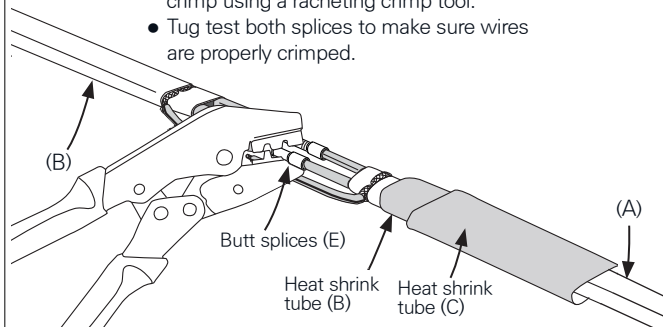
9

- Align heat cable (A) with butt splices (E) and the wires on the prepared end of the GlowCap (B).



10

- Insert each of stripped bus wires from heat cable (A) and (B) into the open ends of butt splices (E) and crimp using a ratcheting crimp tool.
- Tug test both splices to make sure wires are properly crimped.

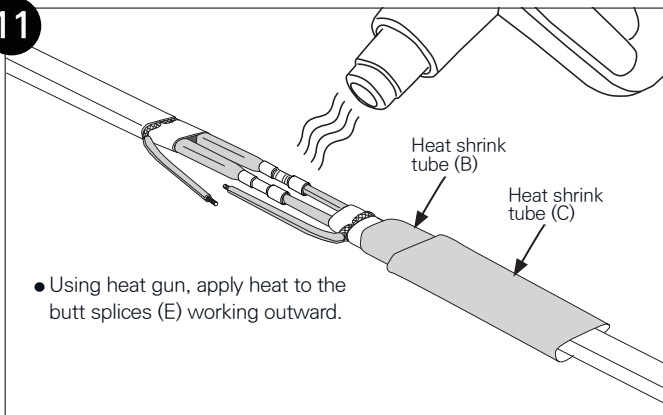




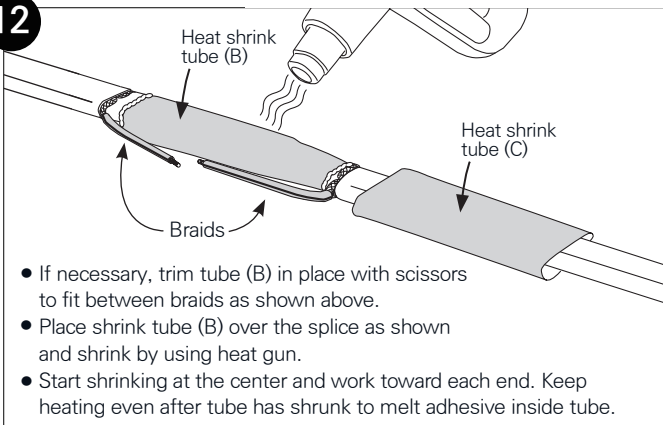
# Installation Instructions

P.8

11



12

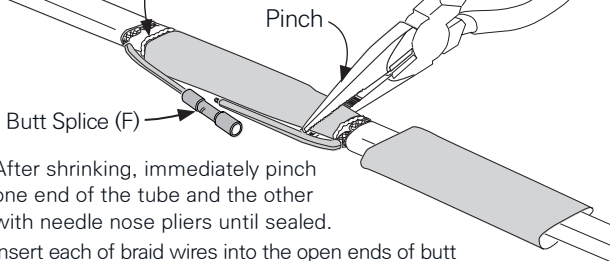


# Installation Instructions

P.9

15

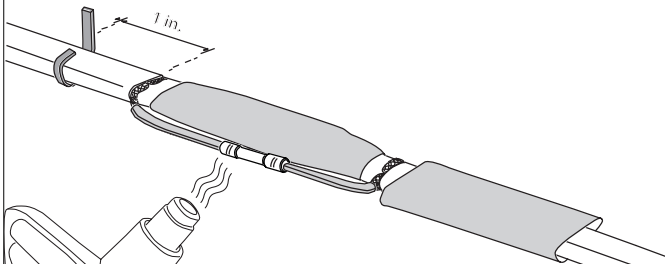
**NOTE:** A small amount of adhesive should ooze out around each end of the heat shrink tubing.



- After shrinking, immediately pinch one end of the tube and the other with needle nose pliers until sealed.
- Insert each of braid wires into the open ends of butt splices (F) and crimp using a ratcheting crimp tool.

16

- Connect the braids using butt splice (F) and properly crimp using ratcheting crimp tool. Apply heat to the butt splice working outward.
- Align a piece of mastic tape (G) 1 inch from the end of outer jacket and wrap around each cable as shown.

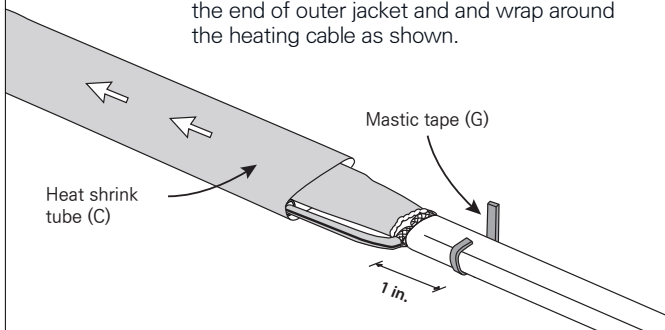


# Installation Instructions

P.10

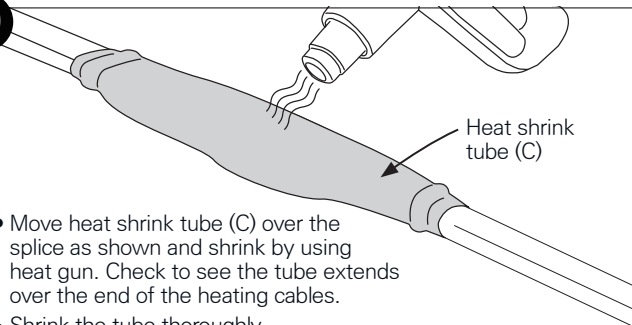
17

- Slide shrink tube (C) over splice as shown.
- Align one piece of mastic tape (G) 1 inch from the end of outer jacket and wrap around the heating cable as shown.



19

- Move heat shrink tube (C) over the splice as shown and shrink by using heat gun. Check to see the tube extends over the end of the heating cables.
- Shrink the tube thoroughly.



**NOTE:** A small amount of adhesive should ooze out around each end of the heat shrink tubing.

# Warranty Information

Radiant Solutions Company (the Company) warrants its products to be free from defects in materials and workmanship for a period of **5 years** to the first owner and/or original purchaser of the product. You must register your warranty with the company at [www.radiantsolutionscompany.com](http://www.radiantsolutionscompany.com) within 60 days of purchase to qualify for warranty coverage. Under this Limited Warranty, the Company will provide the following: If the product is determined by the Company to be defective in materials and workmanship and has not been damaged as a result of abuse, misapplication or modification, the Company will refund all or part of the manufacturer's published list price of the Product at the time of purchase. Radiant Solutions Company's maximum liability shall not in any case exceed the list price for the product claimed to be defective. Warranty requires the installation be performed in strict accordance with the details outlined in this manual. Failure to do so voids the warranty completely. Radiant Solutions Company is not responsible for damage to product it deems the result of neglect, abuse or lack of maintenance. Purchaser is responsible for the costs associated with the installation, removal and reinstallation of the products including both labor and shipping costs incurred to return the product to Radiant Solutions Company. In order to make a claim, you must: (a) Within thirty (30) days after discovery of an alleged warranty issuer, provide the Company in writing with sufficient details relating to the nature of the defect, the installation, the history of operation and any repairs that may have been made, (b) At the Company's discretion and at the owner's expense, ship the Product to the Company or the Company's local distributor, (c) Provide proof that the Product was installed in accordance with the applicable Product Installation Manual and any special written design or installation guidelines by Radiant Solutions Company for this project, (d) Provide proof that the Product was installed in accordance with the National Electrical Code (NEC) or the Canadian Electrical Code, or all applicable local building and electrical codes, (e) Provide a retail sales receipt or proof of purchase, (f) Make a record of your cable inspection on a bi-annual basis and keep on file. The following are not covered by this Limited Warranty: (a) Any incidental or consequential damage, including inconvenience, loss of time or loss of income, (b) Any labor or materials required to repair or replace the Product or controls, (c) Any freight or delivery costs related to the Product to or from our facility, (d) Any costs associated with the analysis needed to discover or diagnose a potential problem with the cable system.



Questions? Please contact us at 1-877-387-4218 or email to [info@radiantsolutionscompany.com](mailto:info@radiantsolutionscompany.com)

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