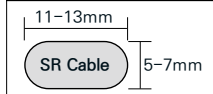




Plug-In Power Connection Kit

PPK-319 Installation Instructions

For Use On



LISTED

When used with Heat
Tape Pro Self-Regulating
Heat Cable

PPK-319



Description

- PPK-319 is a ground fault protection equipped, plug-in power connection kit for use with self-regulating heating cables that are 5-7mm thick x 11-13mm wide.
- PPK-319 complies with requirements for ground-fault protection of equipment.
- Warning: PPK-319 plug-in power connection kit is limited to maximum 15A circuit breaker size.
- Use HCK-P or HCK-M-1 hard-wired power connection kits for circuit breaker size up to 40A.

Installation Instructions

Tools Required

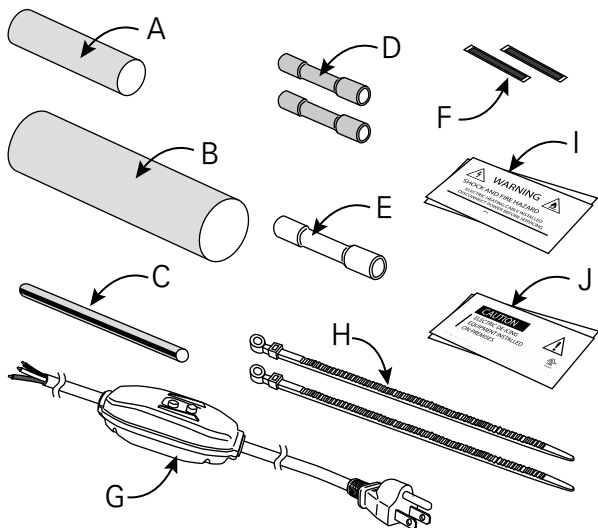
- Ratcheting Crimp tool, Klein 3005CR
- Utility knife
- Heavy duty scissors
- Needle nose pliers
- Heat gun
- Wire stripper

Additional Materials Required

Receptacle shall be listed for the US and certified for Canada, grounded 120 volt with suitable approval for the specific location(receptacle must be rated for outdoor use).

Kit Contents

3



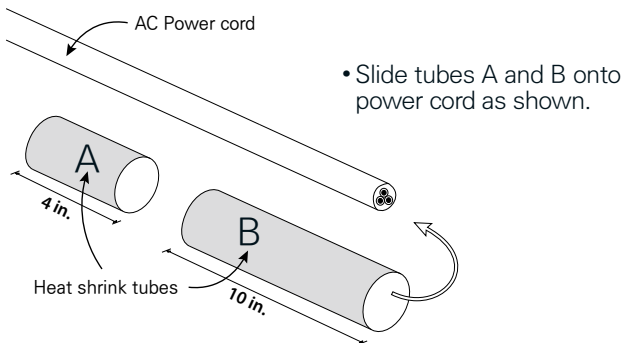
Item	Description	Dimension	Qty.
A	Heat shrink tube (Black)	0.63 x 4 in.	1
B	Heat shrink tube (Black)	0.79 x 10 in.	1
C	Heat shrink tube (Green/Yellow)	0.16 x 2 in.	1
D	Heat shrink butt splices (Blue)	0.11 x 1.5 in.	2
E	Heat shrink butt splice (Yellow)	0.13 x 1.6 in.	1
F	Mastic tape	0.4 x 2 in.	2
G	Plug-in GFI cord and plug		1
H	Cable ties	0.19 x 8 in.	2
I	Warning label for pipe installations		2
J	Caution label for roof installations		2

Installation Instructions

4

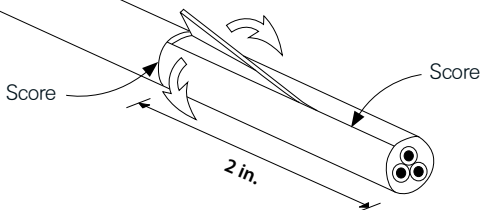
1

AC Power Cord



2

- Gently score and strip outer jacket of the power cord.
- Be careful not to cut or damage any conductors inside the cord.



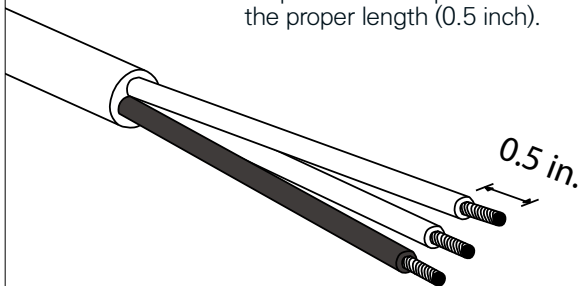
WARNING: DO NOT DAMAGE CONDUCTORS

Installation Instructions

5

3

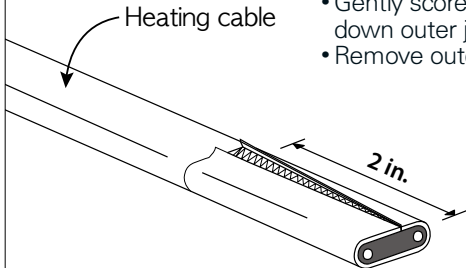
- Strip wires of the power cord to the proper length (0.5 inch).



4

Heating cable

- Gently score around and down outer jacket.
- Remove outer jacket.



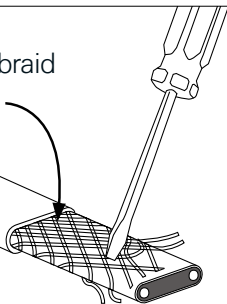
WARNING: DO NOT DAMAGE BRAIDING

Installation Instructions

6

5

Unravel braid
to here

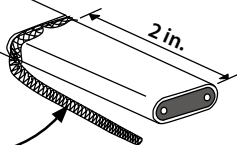


- Carefully unravel the braid back to the outer jacket using a non-sharp tool such as a flat head driver or ballpoint pen.

6

- Straighten and twist the braid into a pigtail.
- Place braid pigtail on one side of heating cable.

Braid pigtail

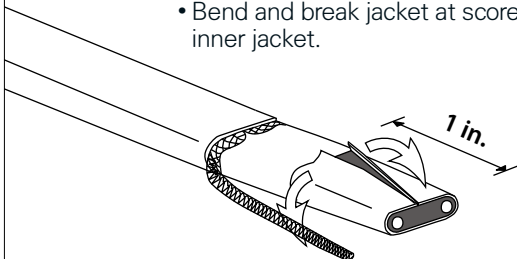


Installation Instructions

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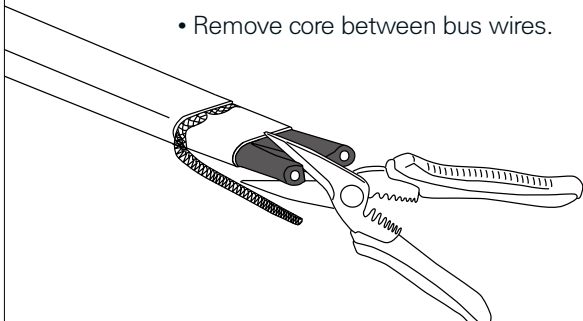
7

- Gently score down and around the inner jacket 1 inch from end of cable.
- Bend and break jacket at score; peel off inner jacket.



8

- Remove core between bus wires.

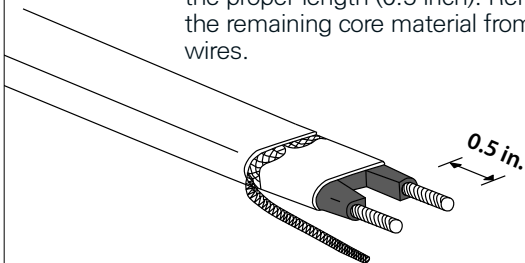


Installation Instructions

8

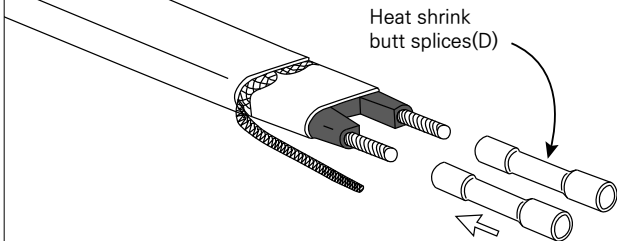
9

- Strip cores at the end of bus wires to the proper length (0.5 inch). Remove all the remaining core material from bus wires.



10

- Prepare two blue heat shrink butt splices (D).



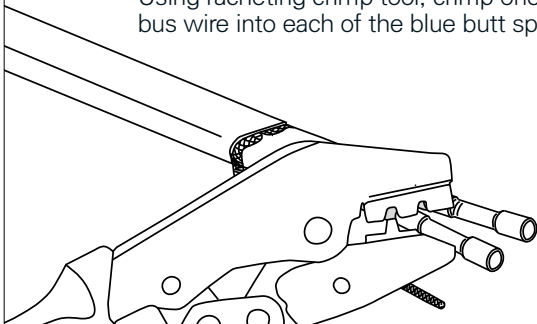
WARNING: DO NOT DAMAGE CONDUCTORS

Installation Instructions

9

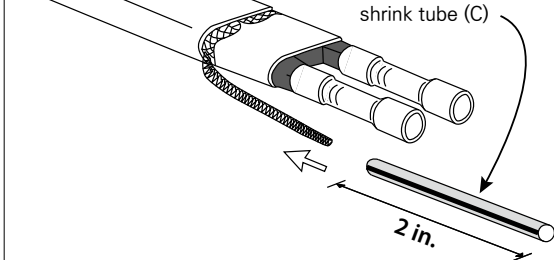
11

- Using ratcheting crimp tool, crimp one stripped bus wire into each of the blue butt splices (D).



12

Green/Yellow heat shrink tube (C)

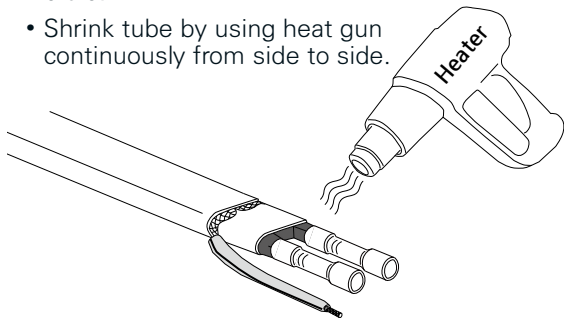


Installation Instructions

10

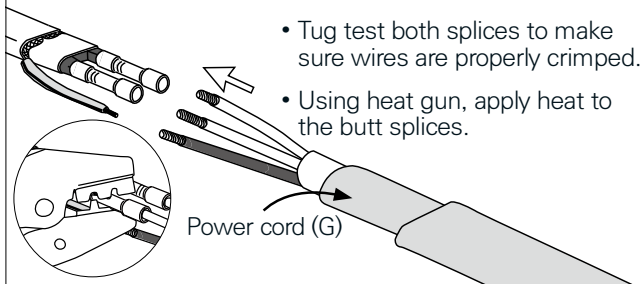
13

- Slip Green/Yellow shrink tube (C) over the braid.
- Shrink tube by using heat gun continuously from side to side.



14

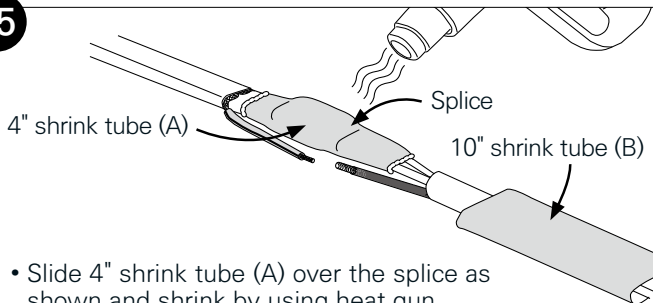
- Insert stripped black and white wires of the power cord into the blue butt splices (D) and crimp using a ratcheting crimping tool. Polarity does not matter.



Installation Instructions

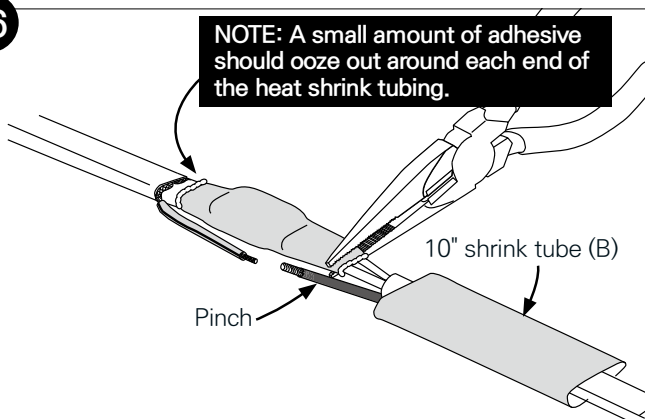
11

15



- Slide 4" shrink tube (A) over the splice as shown and shrink by using heat gun.
- Start shrinking at the center and work toward each end. Keep heat even after tube has shrunk to melt adhesive inside tube.

16

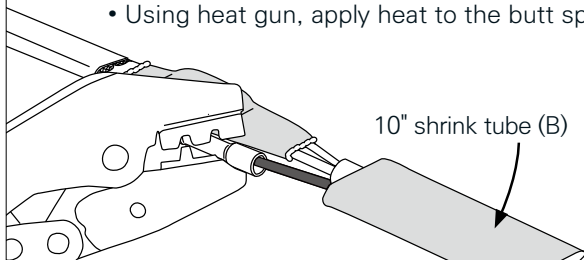


Installation Instructions

12

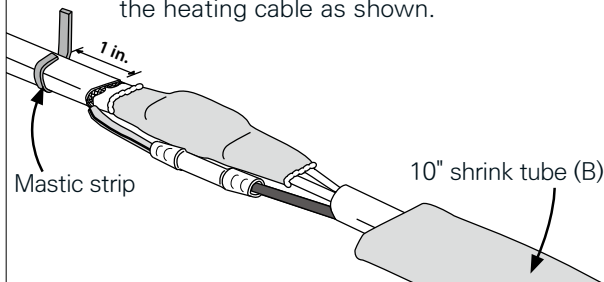
17

- Connect the braid pigtail from heat cable to the stripped ground wire of the power cord with the yellow butt splice (E) and crimp using a ratcheting crimping tool.
- Using heat gun, apply heat to the butt splice.



18

- Align one piece of mastic tape (F) 1 inch from the end of outer jacket and wrap around the heating cable as shown.

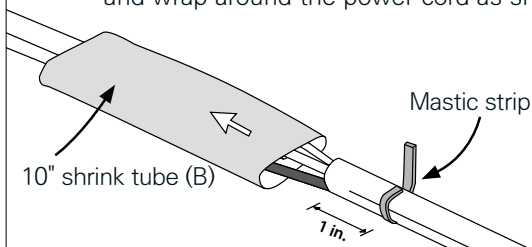


Installation Instructions

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19

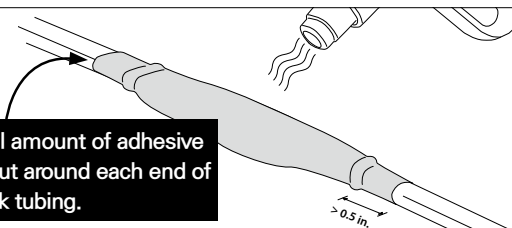
- Slide 10" shrink tube (B) over splice area as shown.
- Align the second mastic tape strip (F) 1 inch from the end of outer jacket of the power cord and wrap around the power cord as shown.



20

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

- Center 10" shrink tube (B) over the splice as shown and shrink by using heat gun. Check to see the tube extends over the ends of both the heating cable and power cord.
- Using heat gun, shrink the tube thoroughly. Start at the center and work toward each end. Keep heat even after tube has shrunk to melt adhesive inside tube.



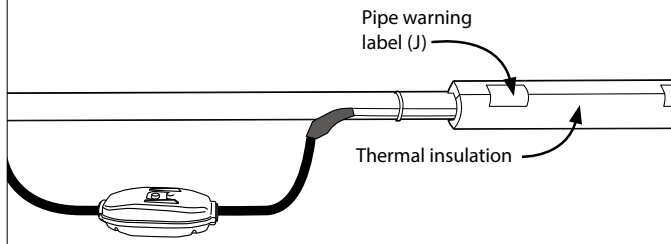
Installation Instructions

14

21a

For Pipe Applications

- To prevent damage to the GFI device (J), use cable ties (I) to secure the device to the wall or ceiling near the receptacle.

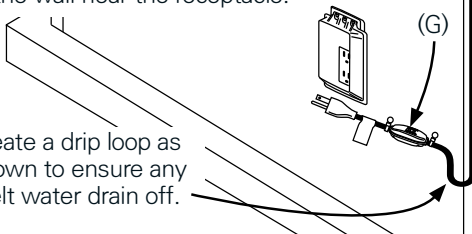


21b

For Roof & Gutter Applications

- To prevent damage to the GFI device (G), use cable ties (H) with appropriate fasteners based on the substrate to secure the device to the wall near the receptacle.

- Create a drip loop as shown to ensure any melt water drain off.



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 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.