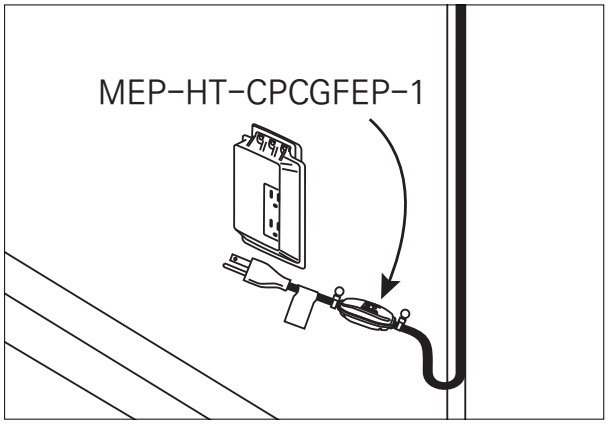
MEP-HT-CPCGFEP-1

Plug-In Power Connection Kit Installation Instructions



Description

- MEP-HT-CPCGFEP-1 is a ground fault protection equipped, plug-in power connection kit for use with (BK- and QM-) CRGX and LSRX with -CR suffix self-regulating heating cables.
- (BK- and QM-) CRGX and LSRX with -CR suffix self-regulating heating cables are allowed for both pipe freeze protection and roof & gutter de-icing applications.
- MEP-HT-CPCGFEP-1 complies with requirements for ground-fault protection of equipment.
- Warning: MEP-HT-CPCGFEP-1 plug-in power connection kit is limited to maximum 15A circuit breaker size.
- Use HT-CPCG-1 hard-wired power connection kits for circuit breaker size up to 40A.

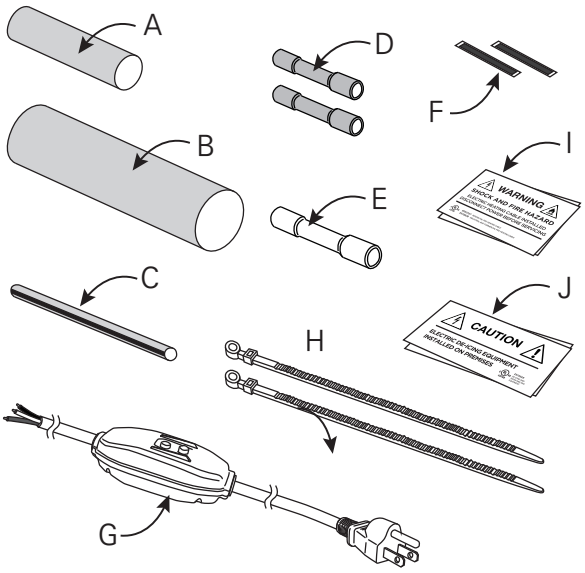
Tools Required

- Racheting 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

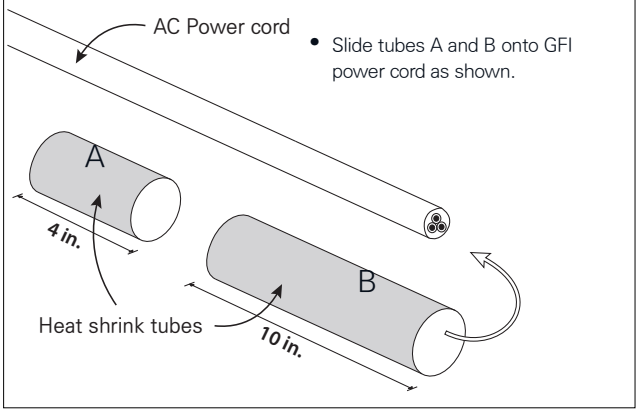


Item	Description	Dimension	Qty.
A	Heat shrink tube (Black)	0.63 x 4 in.	1
B	Heat shrink tube (Black)	0.79 x 10 in.	1
C	Heat shrink tube (Green/Yellow)	0.16 x 2 in.	1
D	Heat shrink butt splices (Blue)	0.11 x 1.5 in.	2
E	Heat shrink butt splice (Yellow)	0.13 x 1.6 in.	1
F	Mastic tape	0.4 x 2 in.	2
G	Plug-in 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

MEP-HT-CPCGFEP-1

Plug-In Power Connection Kit

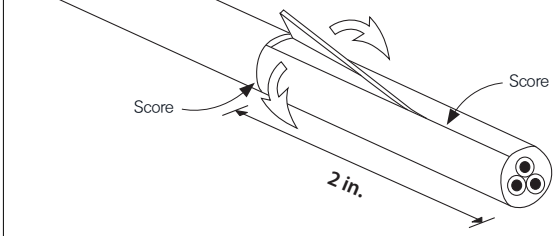
1 AC Power Cord



- Slide tubes A and B onto GFI power cord as shown.

2

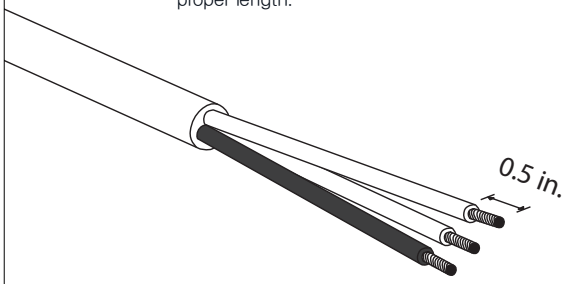
- Gently score and strip outer jacket of the power cord.
- Be careful not to cut or damage any conductors inside the cord.



WARNING: DO NOT DAMAGE CONDUCTORS

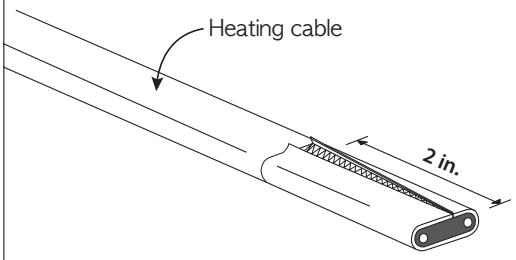
3

- Strip wires of the power cord to the proper length.



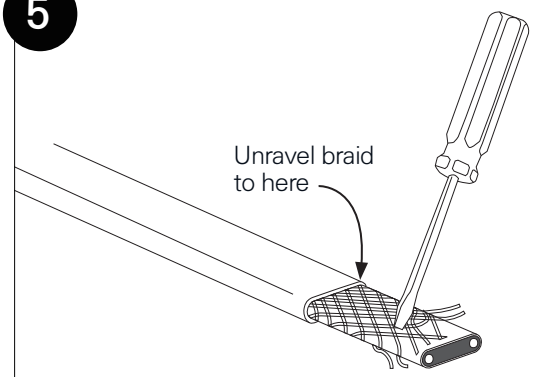
4

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



WARNING: DO NOT DAMAGE BRAIDING

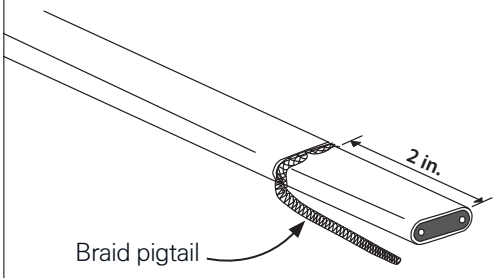
5



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

6

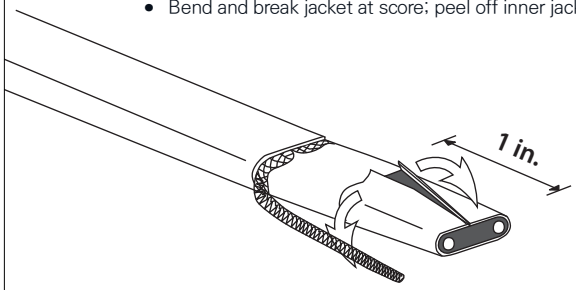
- Straighten and twist the braid into a pigtail.
- Place braid pigtail on one side of heating cable.



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Plug-In Power Connection Kit

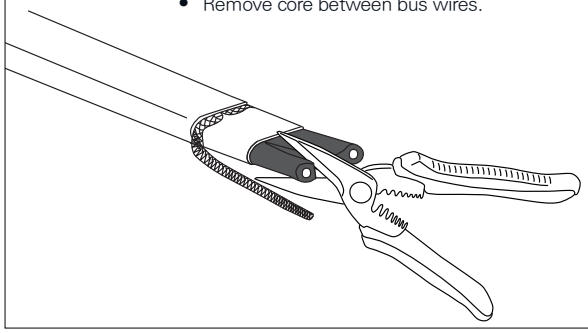
7

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



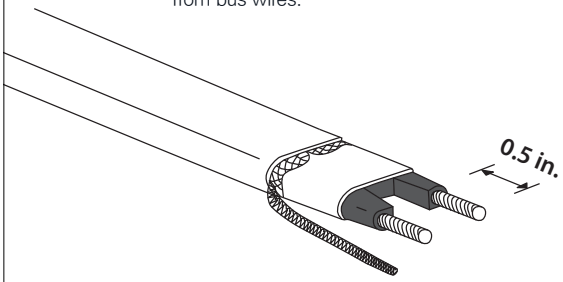
8

- Remove core between bus wires.



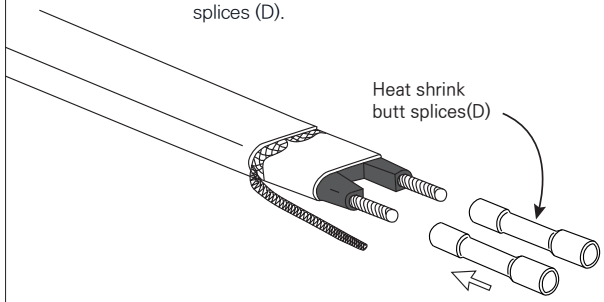
9

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



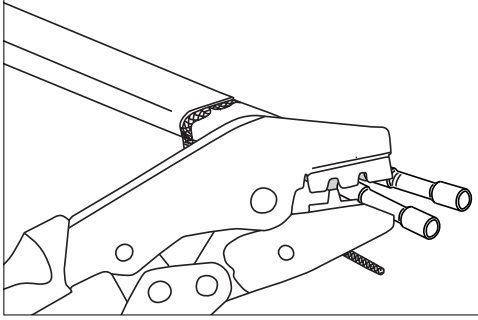
10

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

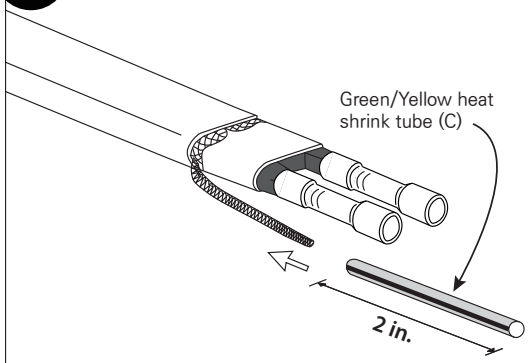


11

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



12

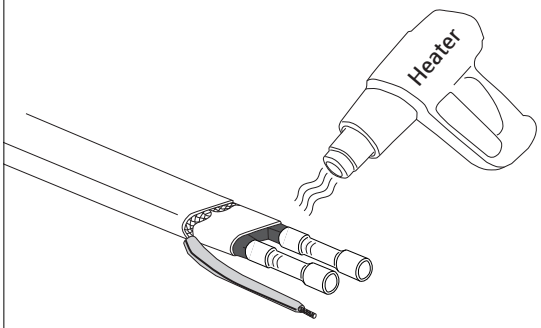


MEP-HT-CPCGFEP-1

Plug-In Power Connection Kit

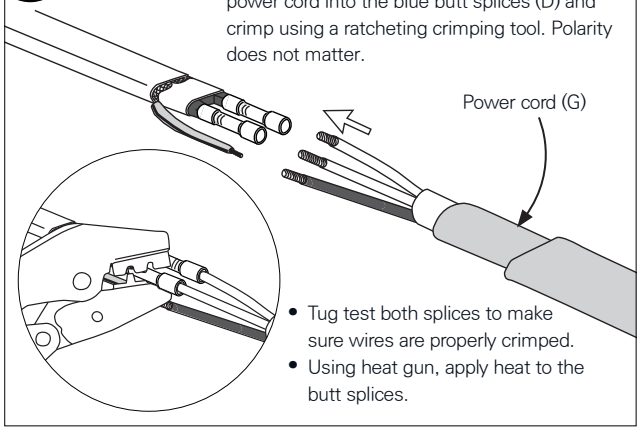
13

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



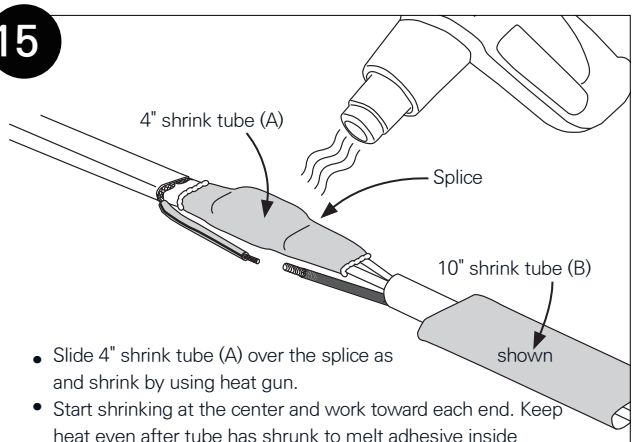
14

- 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.



- Tug test both splices to make sure wires are properly crimped.
- Using heat gun, apply heat to the butt splices.

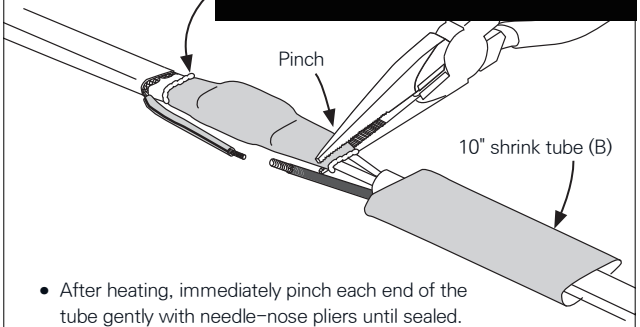
15



- 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

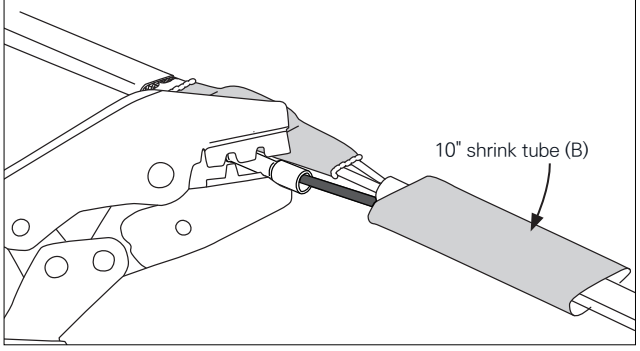
NOTE: A small amount of adhesive should ooze out around each end of the heat shrink tubing.



- After heating, immediately pinch each end of the tube gently with needle-nose pliers until sealed.

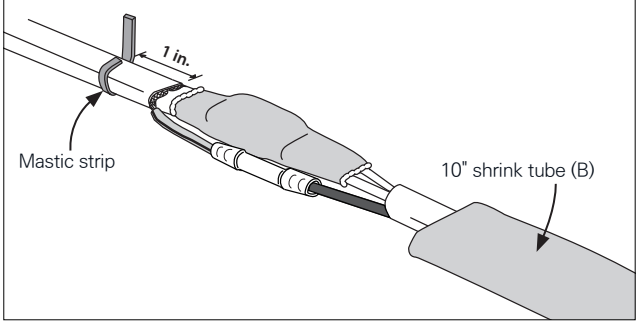
17

- 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

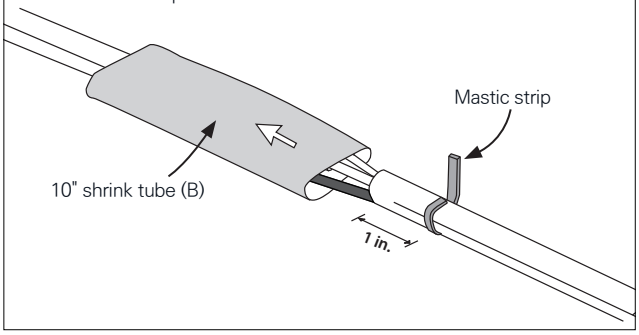
- Align one piece of mastic tape (F) 1 inch from the end of outer jacket and and wrap around the heating cable as shown.



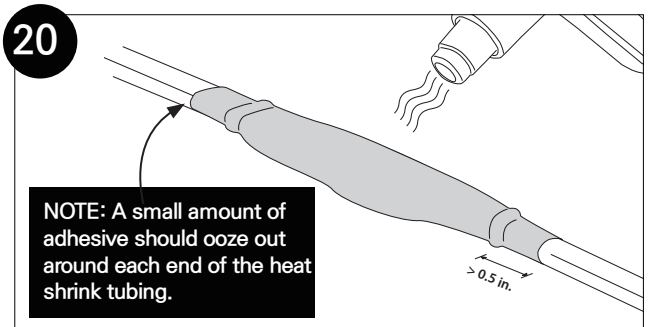
MEP-HT-CPCGFEP-1
Plug-In Power Connection Kit

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.



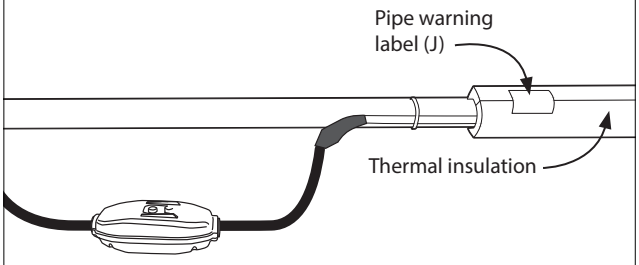
20



- 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.

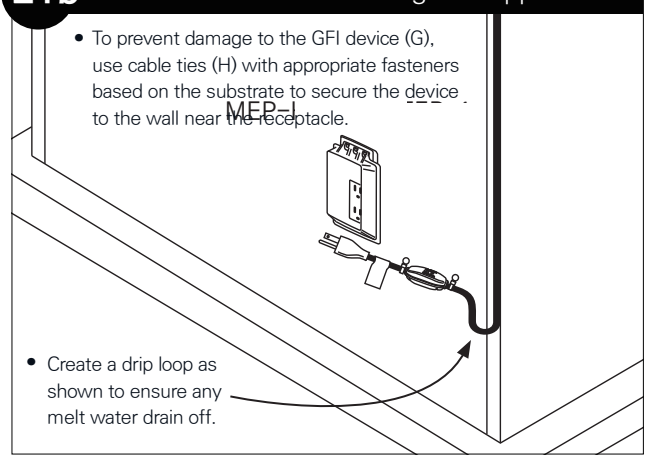
21a For pipe application

- 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 application

- 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.