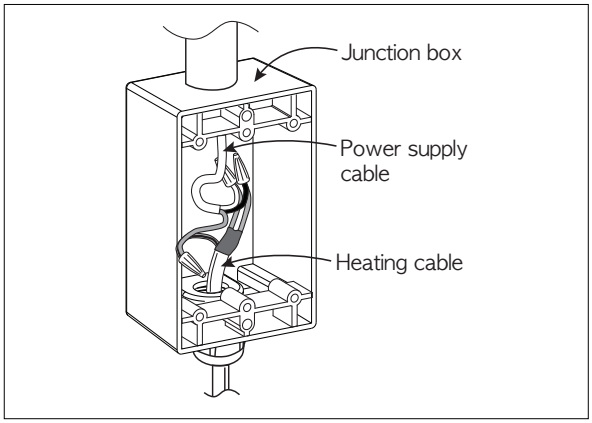
MEP-HT-CPCG-1

Hard-Wired Power Connection Kit Installation Instructions



- MEP-HT-CPCG-1 is a hard-wired power connection kit for use with (BK- and QM-) CRGX and LSRX with -CR suffix self-regulating heating cables.
- The enclosed kit includes materials for one power connection.
- MEP-HT-CPCG-1 is used to connect (BK- and QM-) CRGX and LSRX with -CR suffix heating cable into an electrical junction box for direct wiring and allows a maximum circuit breaker size up to 40A.
- If the junction box is metal it is required to be bonded to ground per NEC and/or CEC.

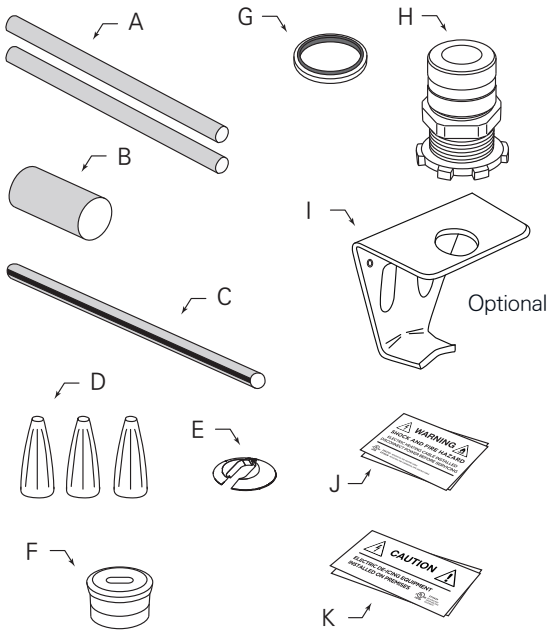
Tools Required

- Utility knife
- Heavy duty scissors
- Needle nose pliers
- Heat gun
- Screwdriver
- Wire stripper

Additional Materials Required

- Junction box:
  - All components must be listed for the US and certified for Canada
  - 120/240 volt with suitable approval for the specific location.
  - 1/2 inch NPT thread compatible.
  - Rated for outdoor use.

Kit Contents

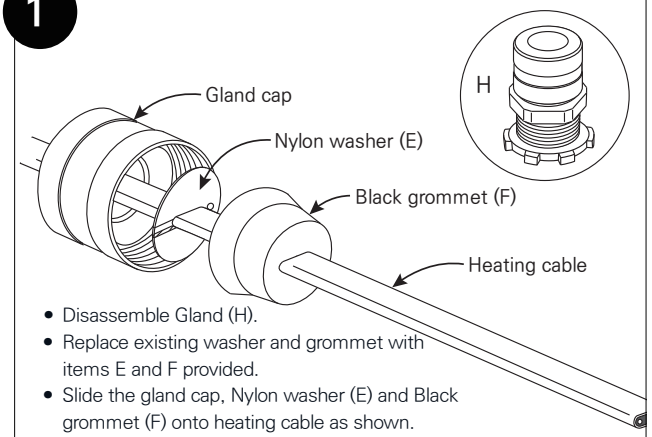


Item	Description	Dimension	Qty.
A	Heat shrink tubes (Black)	0.15×5.5 in.	2
B	Heat shrink tube (Black)	0.47×1.5 in.	1
C	Heat shrink tube (Green/Yellow)	0.16×6.5 in.	1
D	Wire nuts		3
E	Nylon washer (Blue)		1
F	Black grommet (Silicon)		1
G	Sealing ring		1
H	1/2" NPT Metal gland with lock nut and gland cap		1
I	Pipe mounting bracket (optional)		1
J	Warning label for pipe installations		2
K	Caution label for roof installations		2

MEP-HT-CPCG-1

Hard-Wired Power Connection Kit

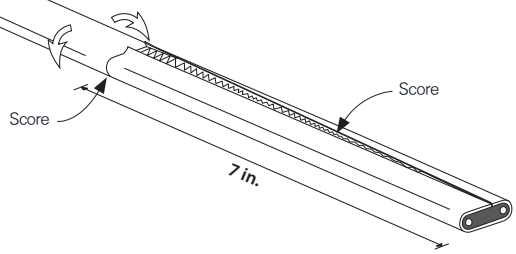
1



- Disassemble Gland (H).
- Replace existing washer and grommet with items E and F provided.
- Slide the gland cap, Nylon washer (E) and Black grommet (F) onto heating cable as shown.

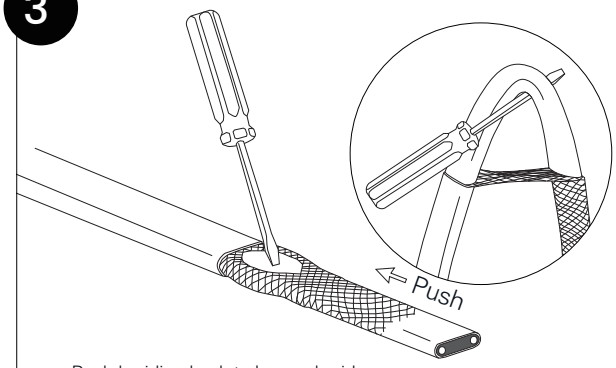
2

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



WARNING: DO NOT DAMAGE BRAIDING

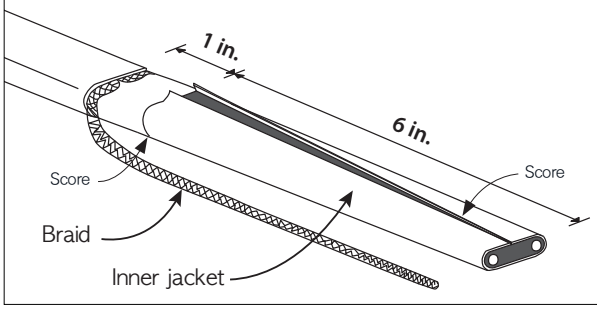
3



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

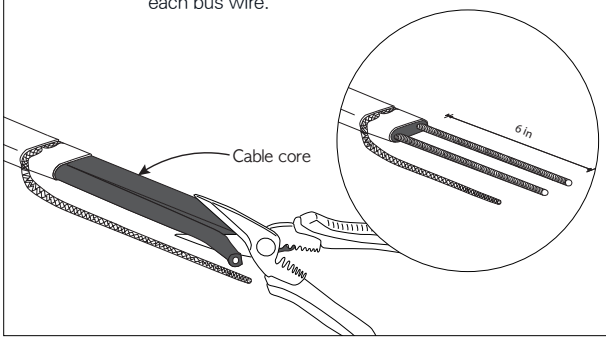
4

- 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.



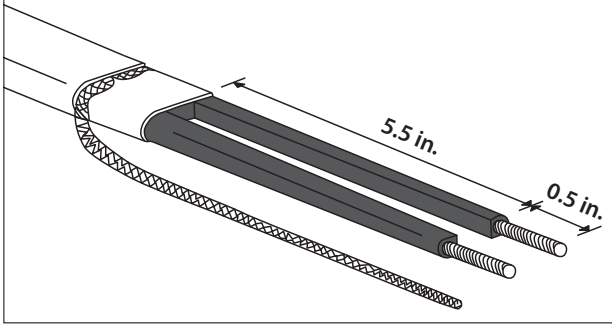
5

- Using scissors or knife, carefully remove cable core between the two main bus wires. Remove core material as illustrated in Step 6.
- If you prefer, you may remove all core material off each bus wire.



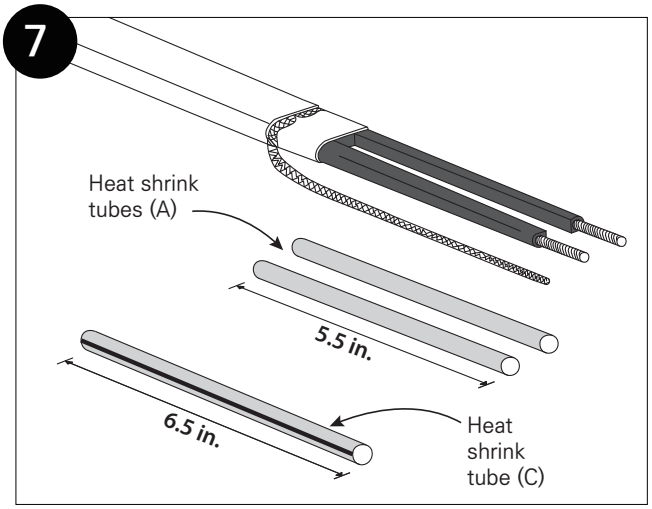
6

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

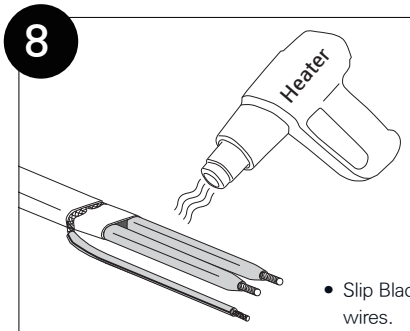


MEP-HT-CPCG-1
Hard-Wired Power Connection Kit

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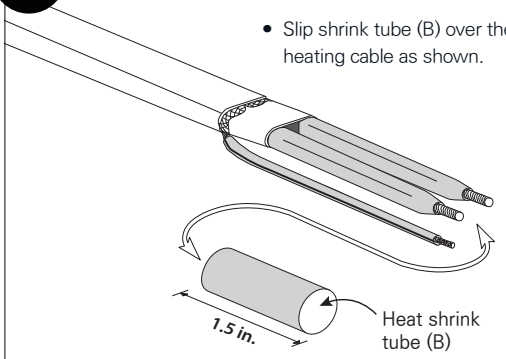
8



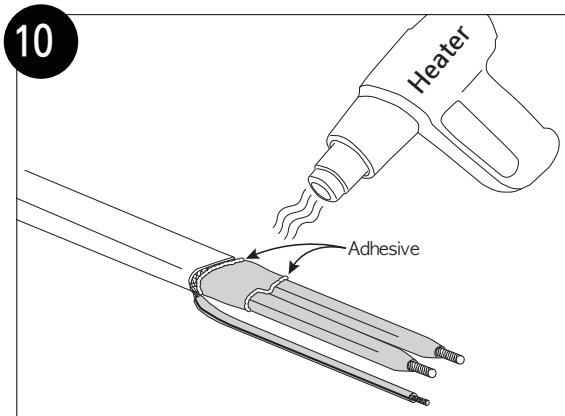
- Slip Black tubes (A) over bus wires.
- Slip Green/Yellow tube (C) over braid pigtail.
- Shrink all three tubes by using heat gun continuously from side to side.

9

- Slip shrink tube (B) over the end of heating cable as shown.

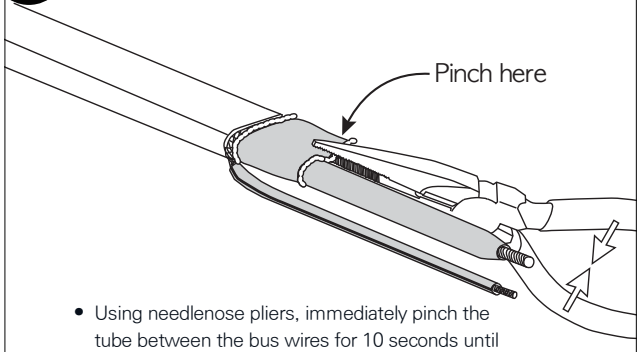


10



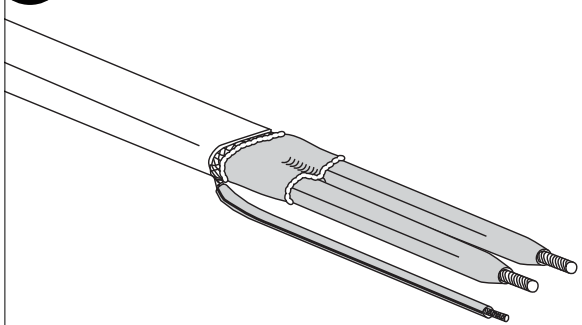
- Using heat gun, shrink tube (B) evenly until adhesive flows out from both ends.

11



- Using needlenose pliers, immediately pinch the tube between the bus wires for 10 seconds until sealed.

12

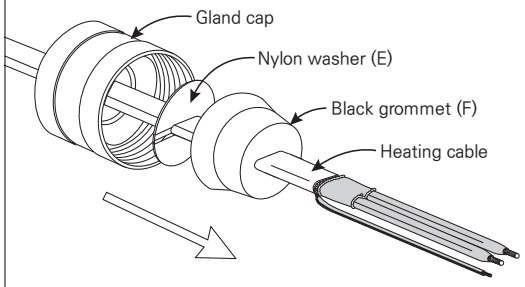


- Heating cable is now prepared for connection.

MEP-HT-CPCG-1

Hard-Wired Power Connection Kit

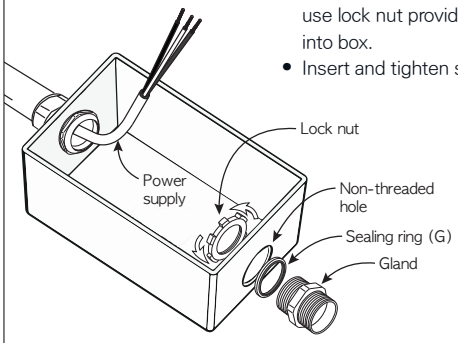
13



- Slide parts to the prepared end of the cable as shown.

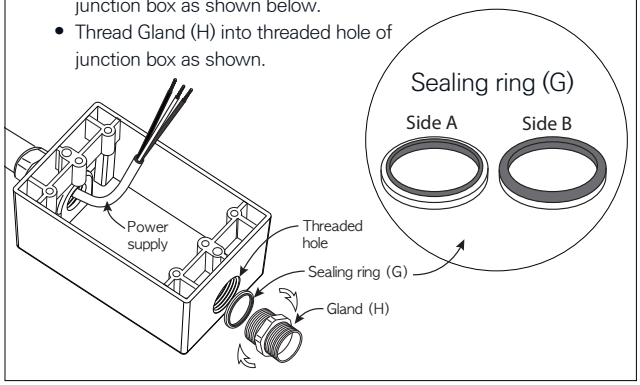
14a Junction box without threaded hole

- For junction box without threaded hole, use lock nut provided to secure gland into box.
- Insert and tighten sealing fitting.



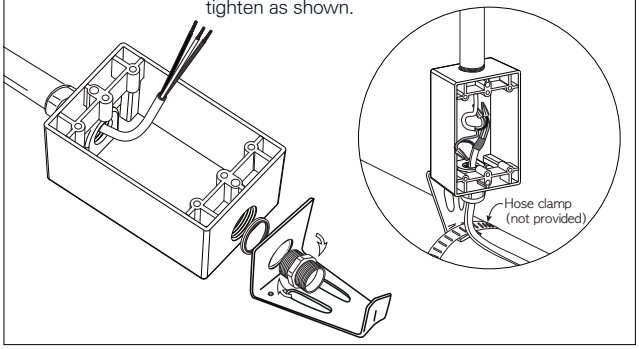
14b Junction box with 1/2" NPT threaded hole

- Place 'B' side of Sealing ring (G) against junction box as shown below.
- Thread Gland (H) into threaded hole of junction box as shown.



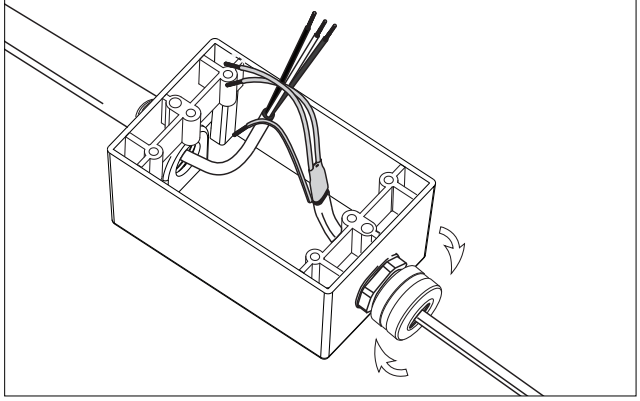
14c Installation using optional pipe bracket

- Use optional metal bracket (I) to install junction box onto a pipe.
- Insert prepared heating cable through fittings and tighten as shown.



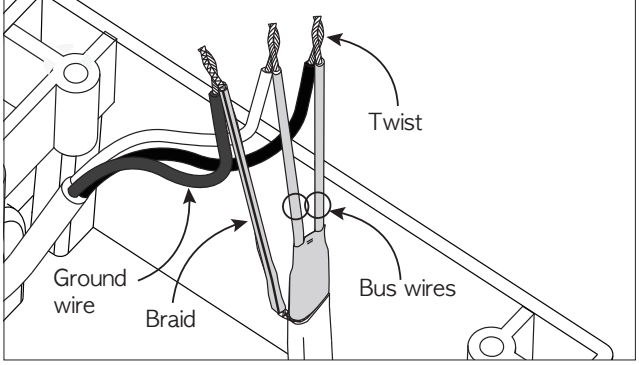
15

- Insert prepared heating cable through Gland (H) and tighten gland cap as shown.



16

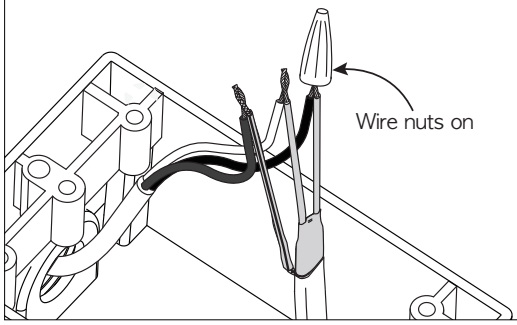
- Connect and twist black power supply wire to one bus wire and white wire to the other bus wire. Polarity does not matter.
- Connect ground wire to braid as shown.



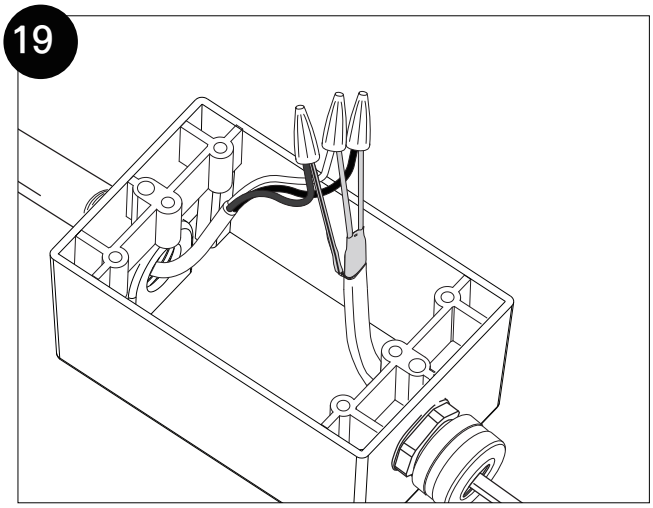
MEP-HT-CPCG-1
Hard-Wired Power Connection Kit

18

- Firmly twist wire nut onto each wire pair.
- Pull on each wire nut after installation to test the integrity of each connection.

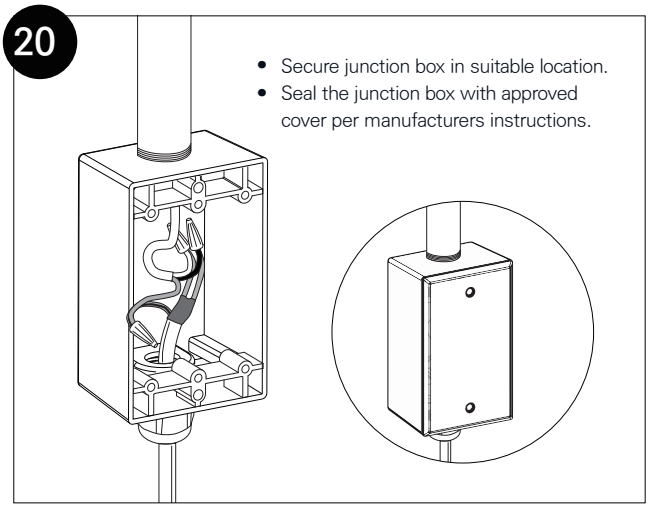


19



20

- Secure junction box in suitable location.
- Seal the junction box with approved cover per manufacturers instructions.



21

- Attach an appropriate marking label (J or K) on the junction box.

