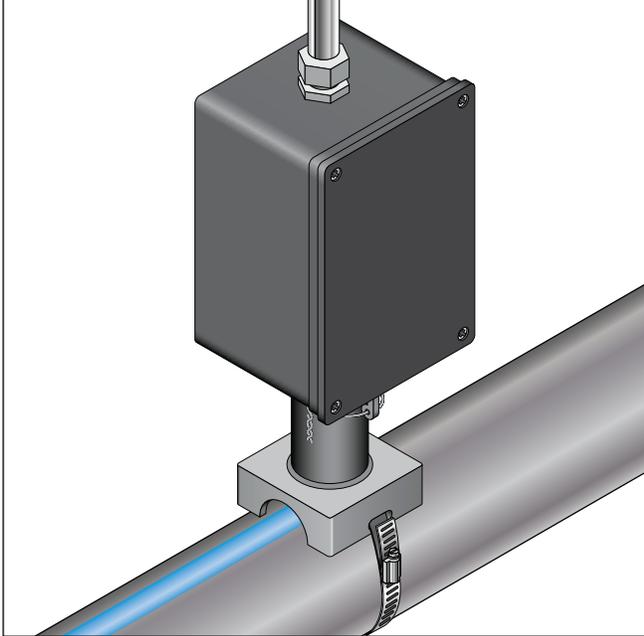




HTP 1548-40PTP/1548-40PTJ Power Connection Kit for Pipes

For use with Dekoron 2700 and 2300 Families of Heating Cables. 1548-81HTJ/81HTP for use with 2000 Series Heating Cables.

Installation Instructions



Kit Description

The Dekoron HTP 1548-40PTP/1548-40PTJ electrical connection kit distributed by Heat-Line is designed for use in ordinary and Division 2 locations. The kit provides excellent resistance to ultraviolet rays from sun, as well as inorganic chemicals and most corrosives. The HTP1548-40PTP/1548-40PTJ electrical connection kit does not include an end seal termination.

Contact Heat-Line directly for recommendations on end seal termination kits suitable for your application.

Tools Required

- Ruler or tape measure
- Utility knife
- Needle-nose pliers
- Flat blade screw driver
- Diagonal cutters
- Heat gun or mini torch

Additional Materials Required (but not provided)

- Appropriately sized pipe clamp
- Conduit grounding clamp (for heater without overbraid)

Approvals

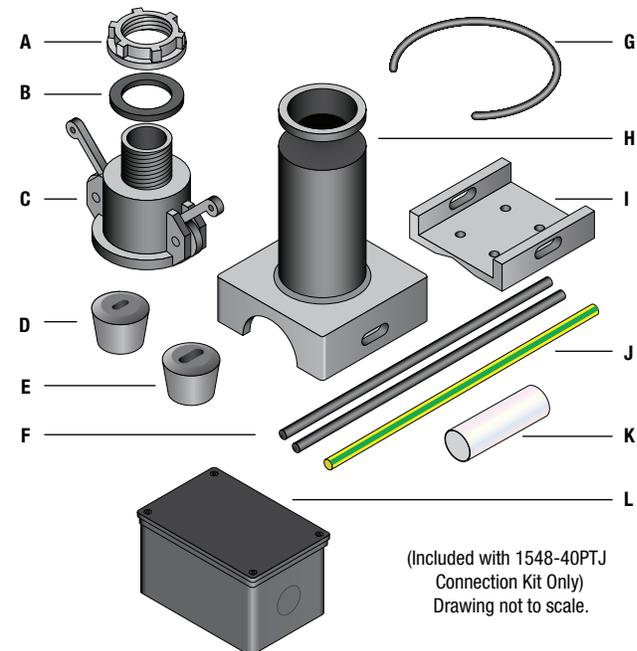


Non-Hazardous and Div. 2 Approved Locations

Class I, Div. 2 Groups A, B, C, D
Class II/ III, Div. 2 Groups F, G
Class 1, Zone 2 Groups IIC

Kit Contents

Item	Qty	Description
A	1	Lock Ring
B	1	Sealing Gasket
C	1	Top
D	1	Sealing Grommet (Small Hole for Heating Cable with Ground Braid Only and No Outer Jacket)
E	1	Sealing Grommet (Large Hole for Heating Cable with Ground Braid and Outer Jacket)
F	2	Heat Shrink Tubes – Black (1/8" x 5-1/2")
G	1	Stainless Steel Wire
H	1	Base
I	1	Adaptor (For Installation on Pipe Smaller Than 1")
J	1	Heat Shrink Tube – Green/yellow (1/4" x 5-1/2")
K	1	Heat Shrink Tube – Clear (1/2" x 1-1/2")
L	1	NEMA 4X junction box (4-1/2" H x 3" W x 2 1/2" D) (Included with 1548-40 PTJ Kit)



⚠ WARNING:

• The Canadian Electrical Code and National Electric Code requires ground fault protection of equipment for each branch circuit supplying electrical heating cables or devices.

• If the heating cable has a stainless steel ground braid, the following caution applies: The metal covering shall not be used as the bonding-to-ground means. Alternative means of protection shall be provided per CE Code part I.

• Ground metal structures used for support on which the cable is installed in accordance with CE Code part I, Section 10.

• For cables installed in outdoor or wet indoor locations, use a suitable weatherproofing cover (such as aluminum jacketing) to protect the thermal insulation.

• After installation of thermal insulation is complete, the insulation resistance of the system should not be less than 10 Mohms when measured at 500 Vdc between

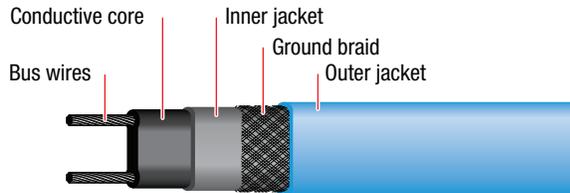
each circuit and ground with set de-energized and all circuit neutrals isolated from ground.

• Install at -22°F (-30°C) or above.

• Do not install heater closer than 1/2 inch to any exposed combustible surface unless the cable has a metal shield or sheath and is provided with a positive temperature control which will limit the surface temperature to a value not exceeding 162°F (72°C).

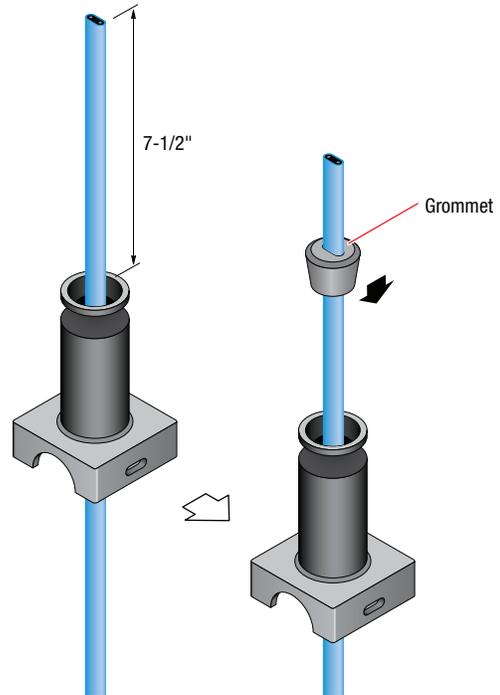
• Minimum bending radius for heating cable is 1/4 inch.

Heating Cable with Ground Braid and Outer Jacket



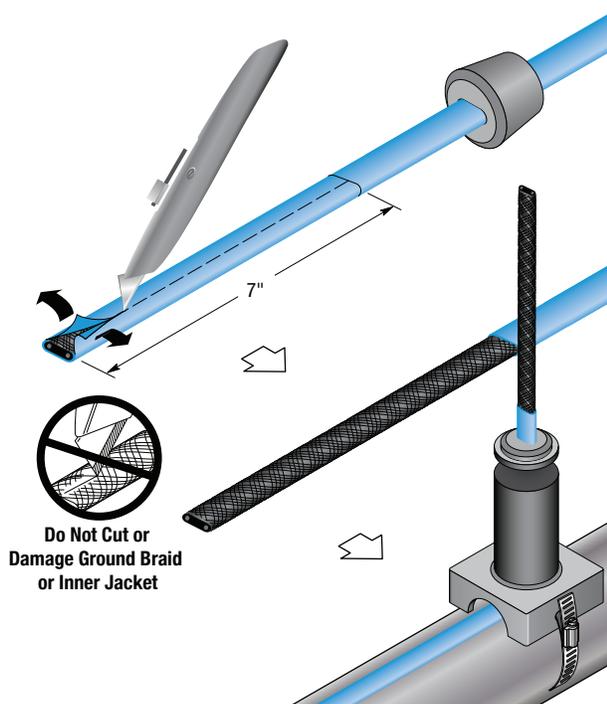
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- Extend the heater 7-1/2 inches above the base.
- Slide the grommet over the heater, inserting the grommet in the base.



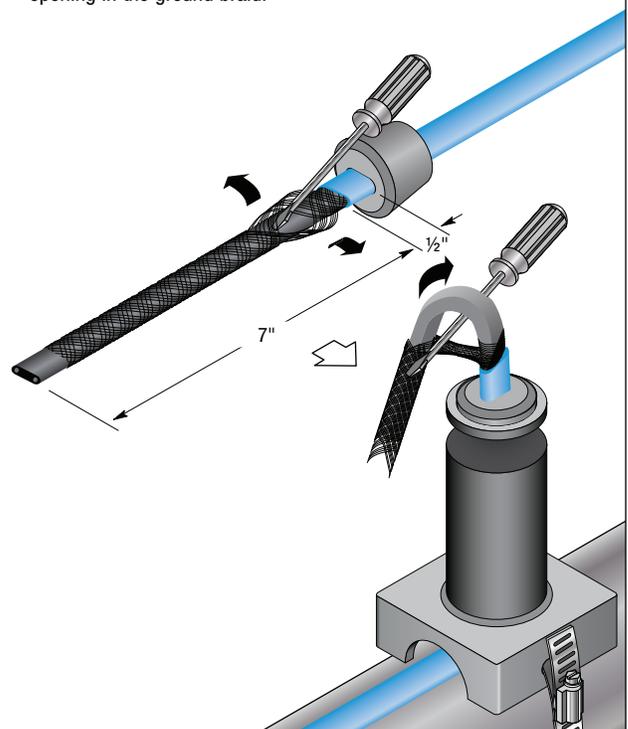
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- Strip outer jacket 7 inches from the end.
- Attach the base to the pipe with a pipe strap.



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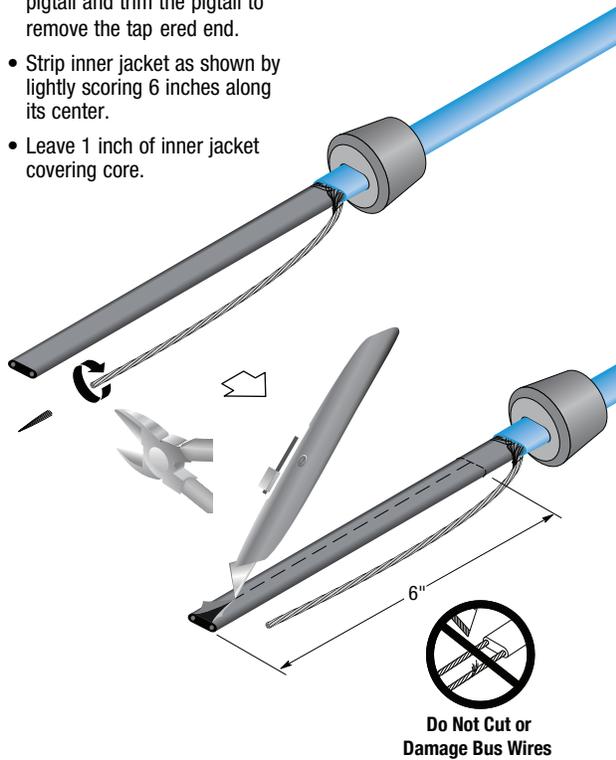
- Make an opening in the ground braid.
- Bend the heater and pull the inner jacket and core through the opening in the ground braid.



HTP 1548-40PTP/1548-40PTJ Power Connection Installation Instructions

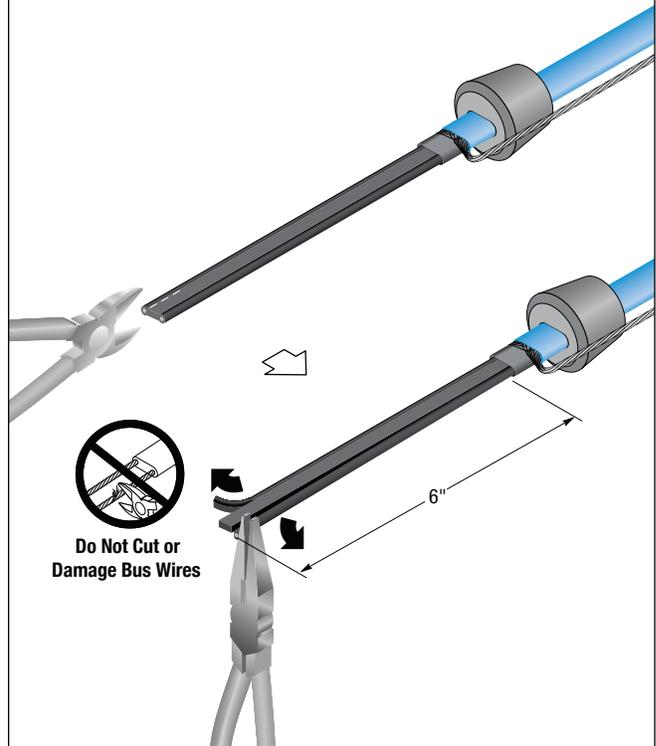
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- Twist the ground braid into a pigtail and trim the pigtail to remove the tap end.
- Strip inner jacket as shown by lightly scoring 6 inches along its center.
- Leave 1 inch of inner jacket covering core.



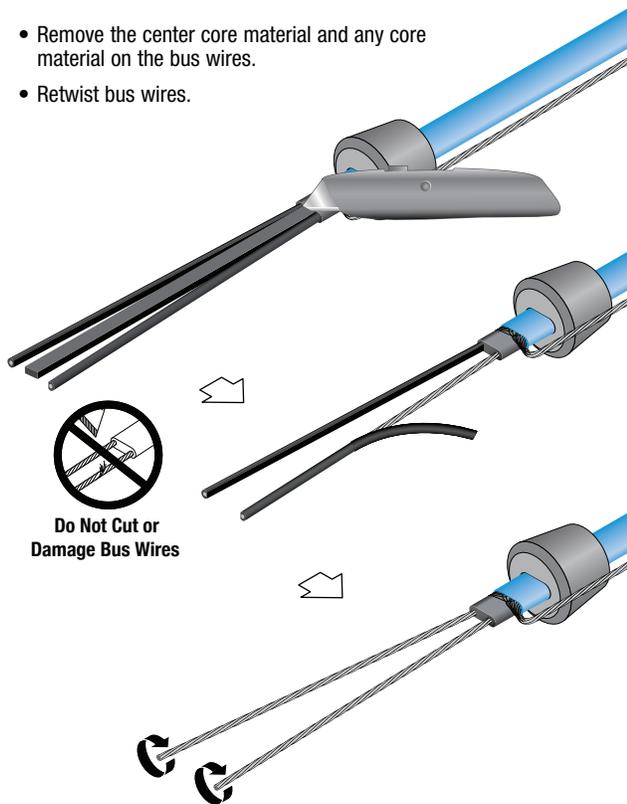
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- Notch the center core between the bus wires and pull the bus wires away from the core for 6 inches.



6

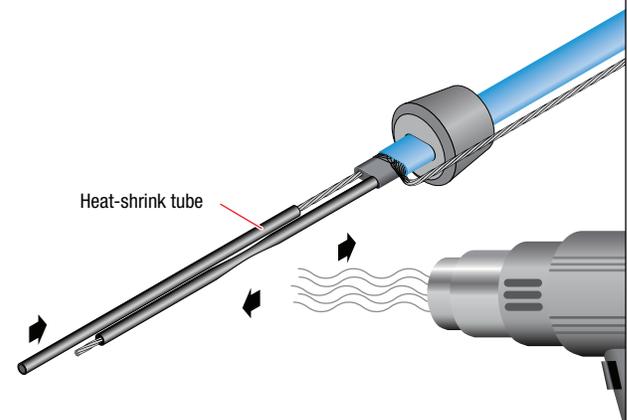
- Remove the center core material and any core material on the bus wires.
- Retwist bus wires.



7

- Place 1/8 x 5-1/2 inch (black) heat-shrink tubes over bus wires.
- Heat shrink the tubes into position, keeping the heat source moving from side to side.

CAUTION: Do not expose heating cable outer or inner jacket to excess heat.

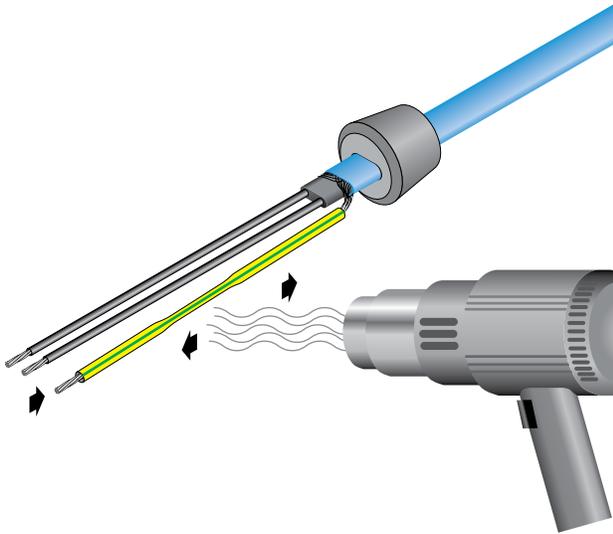


HTP 1548-40PTP/1548-40PTJ Power Connection Installation Instructions

8

- Place 1/4 x 5-1/2 inch (green yellow) heat shrink tube over ground braid and shrink into place.

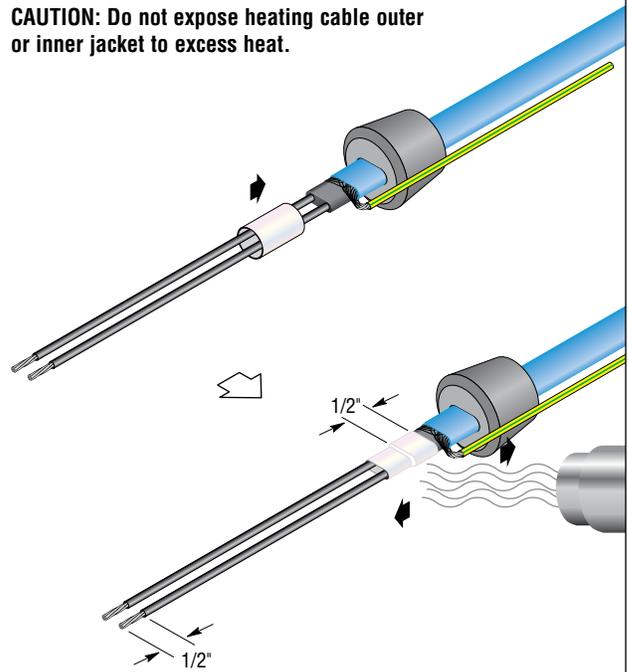
CAUTION: Do not expose heating cable outer or inner jacket to excess heat.



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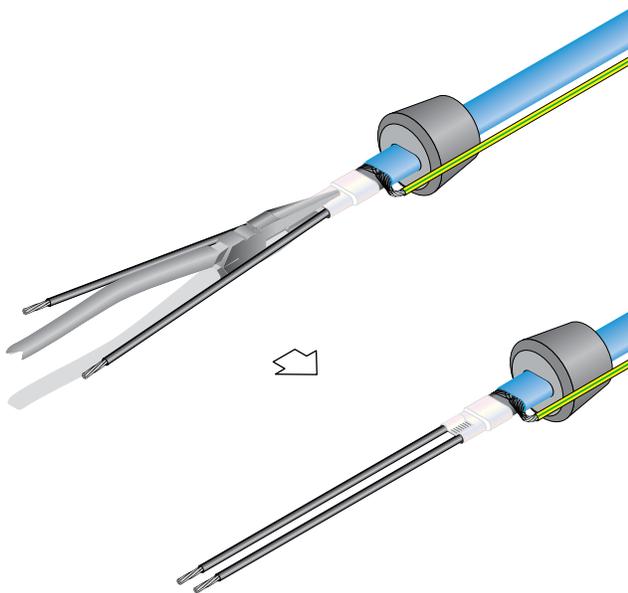
- Place clear 1/2 x 1-1/2 inch heat-shrink tube as shown.

CAUTION: Do not expose heating cable outer or inner jacket to excess heat.



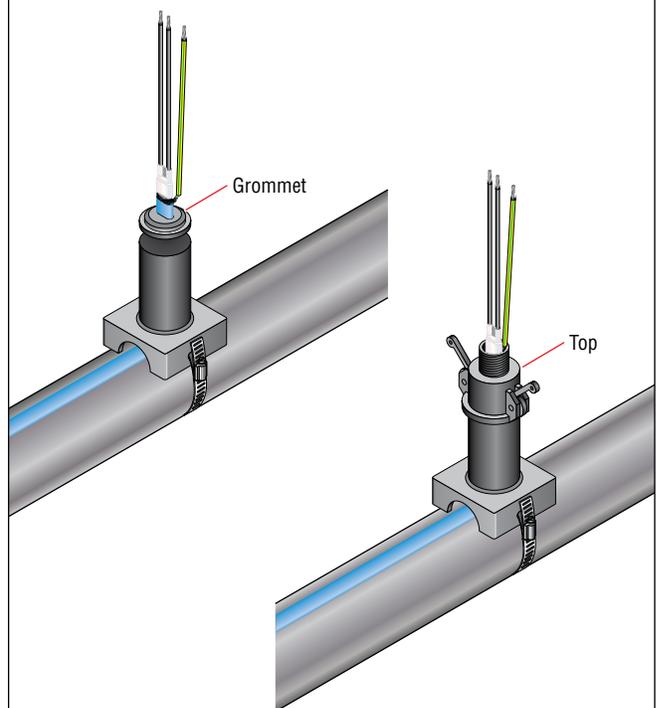
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- While still hot, pinch the center of the heat shrink tube between the bus wires with needle-nose pliers and hold for 10-15 seconds to ensure seal.



11

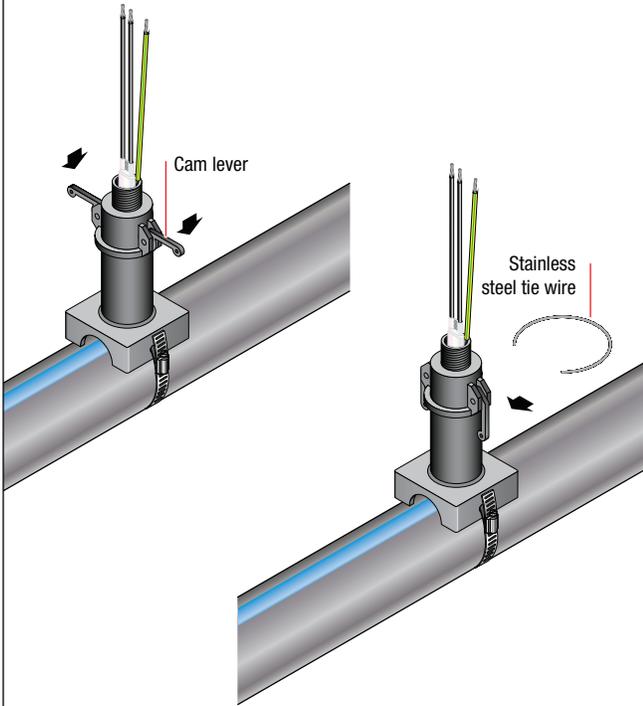
- Make sure the sealing grommet is set in the base.
- Slide the top in place.



HTP 1548-40PTP/1548-40PTJ Power Connection Installation Instructions

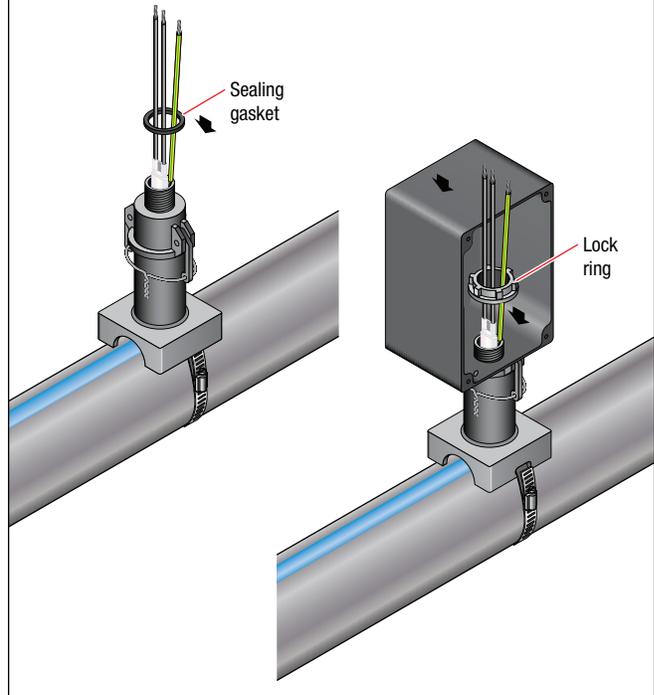
12

- Push cam levers into position.
- Lock cam levers in place by inserting stainless steel tie wire through holes in ends of cam levers and twist together.



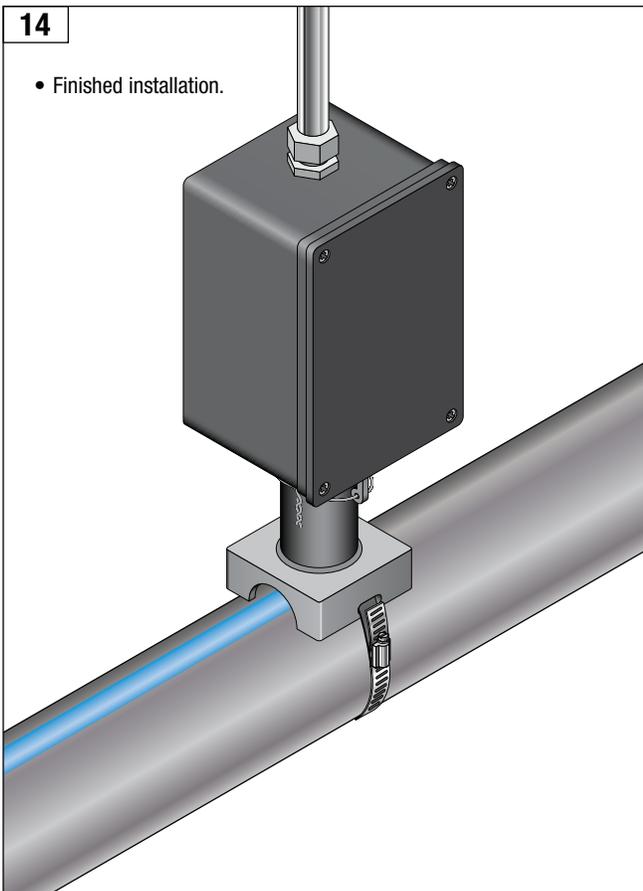
13

- Mount junction box with non threaded opening for 3/4 inch conduit, using the sealing gasket and lock ring to hold in place or use a junction box with a 3/4 inch inside threaded hub.

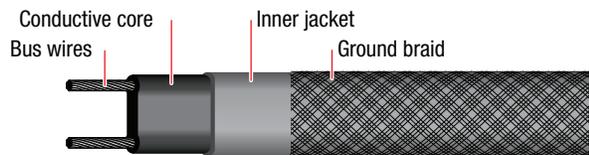


14

- Finished installation.

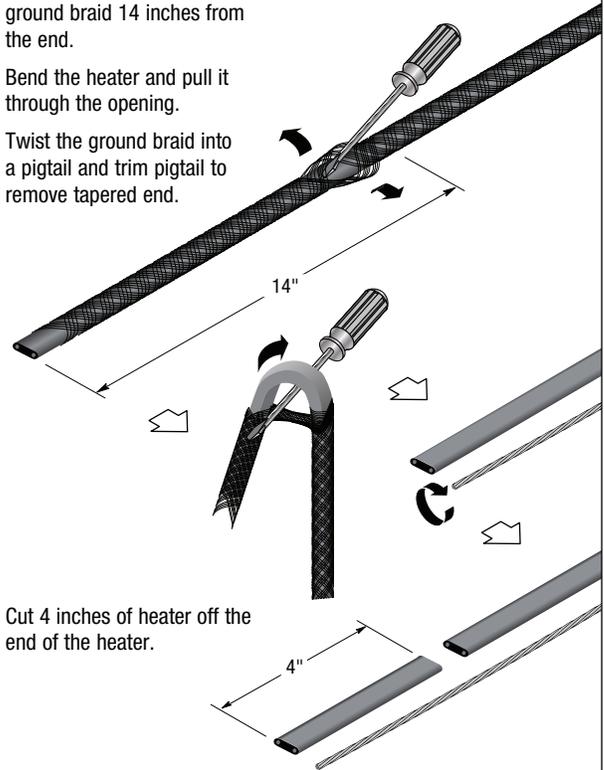


Heating Cable with Ground Braid Only



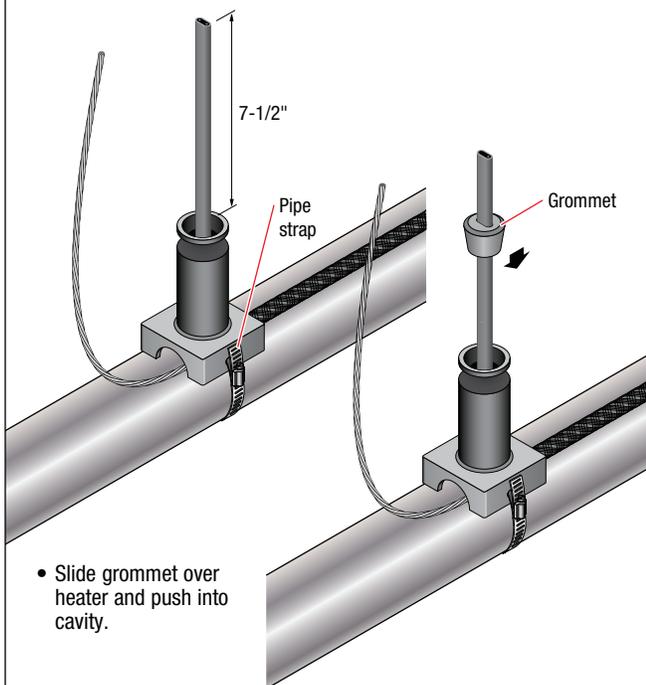
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- Make an opening in the ground braid 14 inches from the end.
- Bend the heater and pull it through the opening.
- Twist the ground braid into a pigtail and trim pigtail to remove tapered end.



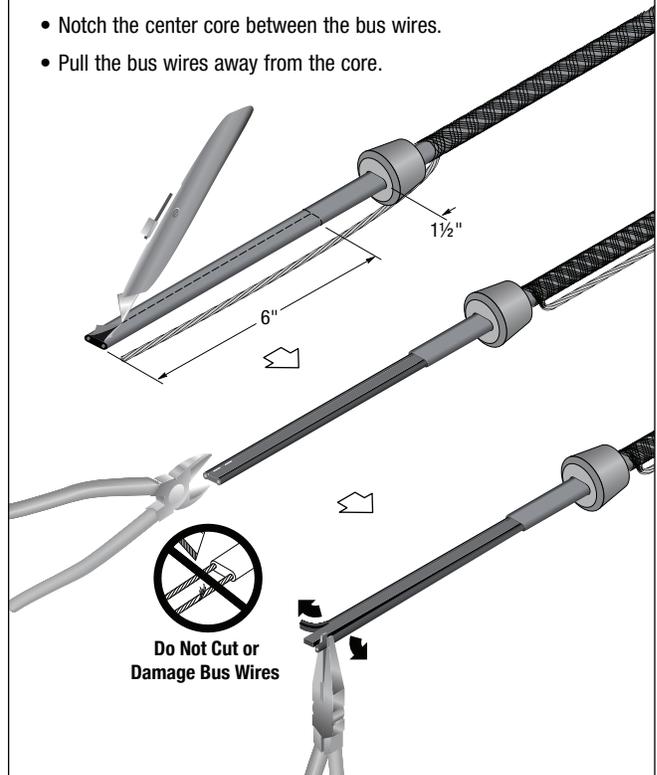
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- Extend the heater 7-1/2 inches above the base. Allow ground braid pigtail to extend out from the bottom of the base.
- Attach the base to pipe with a pipe strap.



3

- Strip inner jacket as shown by lightly scoring 6 inches along its center.
- Notch the center core between the bus wires.
- Pull the bus wires away from the core.



4

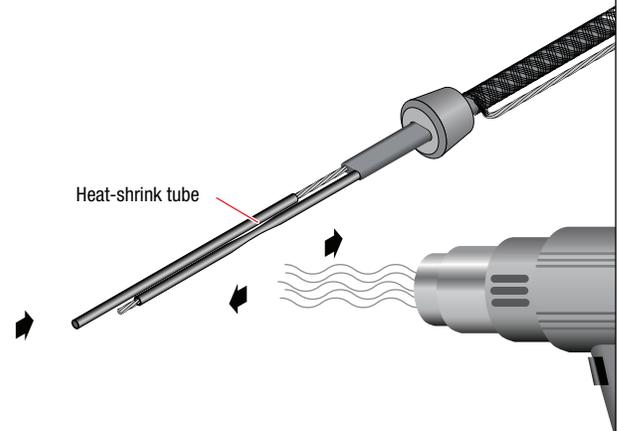
- Remove the center core material and any core material on the bus wires.
- Retwist the bus wires, if needed.



5

- Place the 1/8 x 5-1/2 inch heat-shrink tubes on the bus wires.
- Shrink the tubes with heat gun or soft flame torch.

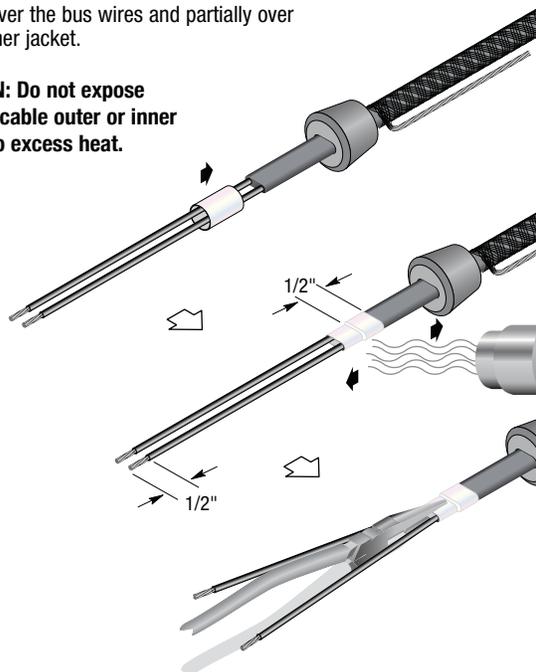
CAUTION: Do not expose heating cable outer or inner jacket to excess heat.



6

- Place the 1/2 x 1-1/2 inch clear heat-shrink tube over the bus wires and partially over the inner jacket.

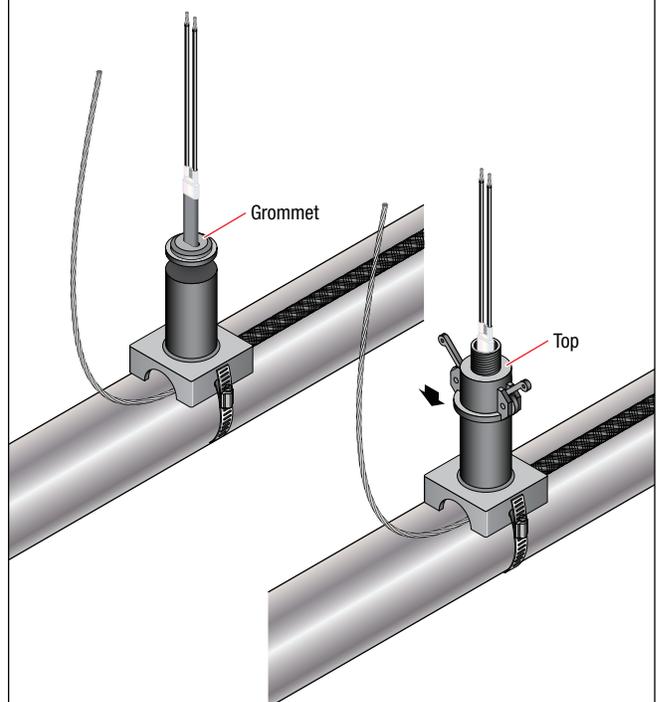
CAUTION: Do not expose heating cable outer or inner jacket to excess heat.



- While still hot, pinch the center of the heat shrink tube between the bus wires with needle-nose pliers and hold for 10-15 seconds to ensure seal.

7

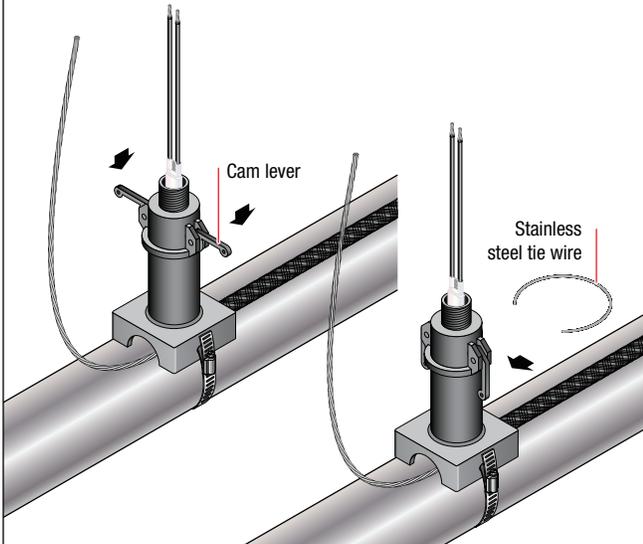
- Make sure the sealing grommet is set in the base.
- Slide the top in place.



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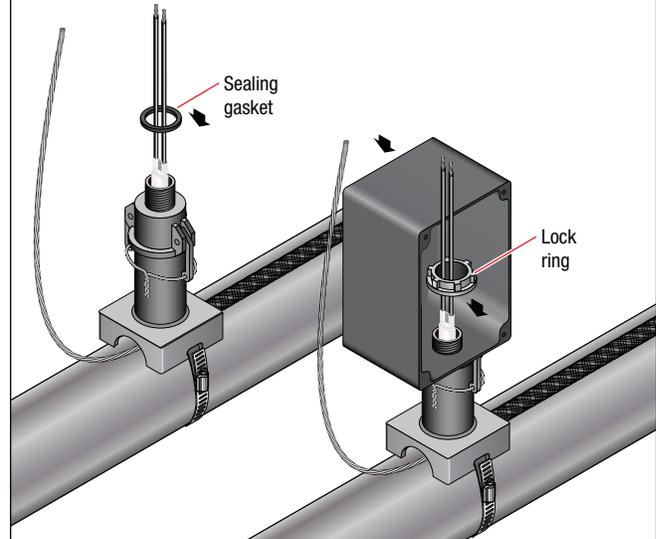
8

- Push cam levers into position.
- Lock cam levers in place by inserting stainless steel tie wire through holes in ends of cam levers and twist together.



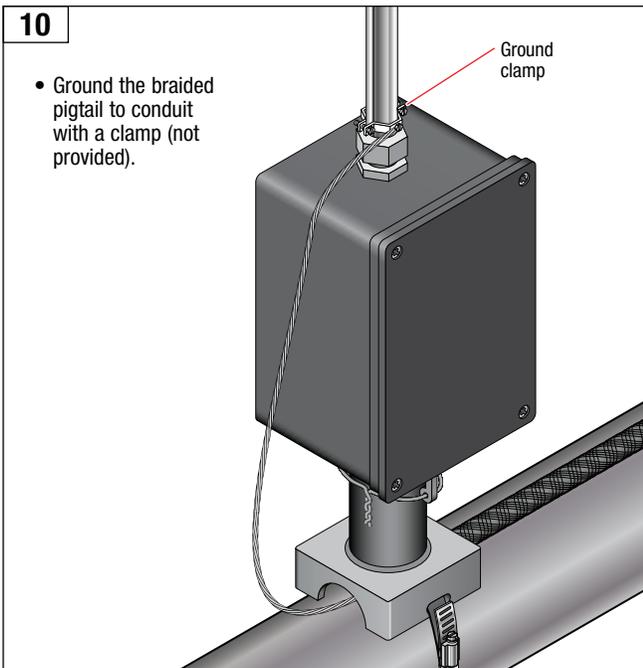
9

- Mount junction box with non threaded opening for 3/4 inch conduit, using the sealing gasket and lock ring to hold in place or use a junction box with a 3/4 inch inside threaded hub.



10

- Ground the braided pigtail to conduit with a clamp (not provided).



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