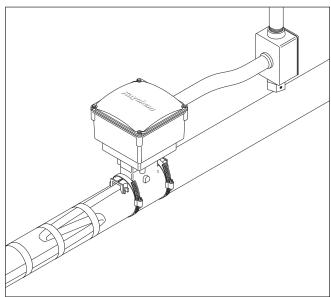


AM-BC-III-M-RT

AutoMatrix Monitor Wire Power Connection Kit Installation Instructions



Kit Contents

ltem	Qty	Description
A	1	Connection box assembly
	1	Connection box lid
	1	Lid gasket
	1	Connection box
	1	Pressure plate
	1	Base gasket
	1	Connection base
	10	Connection box screws
В	1	Grounding locknut (green)
С	2	Pressure plate screws (1 in. SS)
D	1	Terminal block assembly
E	1	Green/yellow heat-shrinkable tube, 1/4 in. x 6 in
F	2	Black heat-shrinkable tube, 1/8 in. x 6 in.
G	1	Clear yellow heat-shrinkable tube, 1/2 in. x 1 in.
Н	1	Clear yellow heat-shrinkable tube, 3/4 in. x 1 in.
I	1	Uninsulated ring terminal
J	3	Insulated ring terminals
K	1	Blank grommet

DESCRIPTION

The nVent RAYCHEM AM-BC-III-M-RT is a copper-free aluminum (maximum 0.4% copper) power connection kit that can be used with RAYCHEM monitor wire self-regulating heating cables (-MCT).

For additional technical support call (800) 545-6258.

The kit contains materials for one power connection.

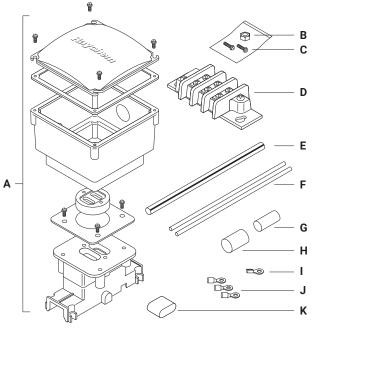
TOOLS REQUIRED

- Screwdriver
- Diagonal cutters
- Utility knife
- 1/4 in. nut driver Measuring tape
- Wire strippers
 Needle-nose pliers
 Panduit CT-100 crimp tool
- 3/8 in. nut driver
- pe
- Heat gun or torch (RAYCHEM HA-501A or equal)

ADDITIONAL MATERIALS REQUIRED

(NOT PROVIDED IN THIS KIT)

- Pipe straps
- Grommets⁽¹⁾
- $^{\left(1\right) }$ See selection chart, step 1.



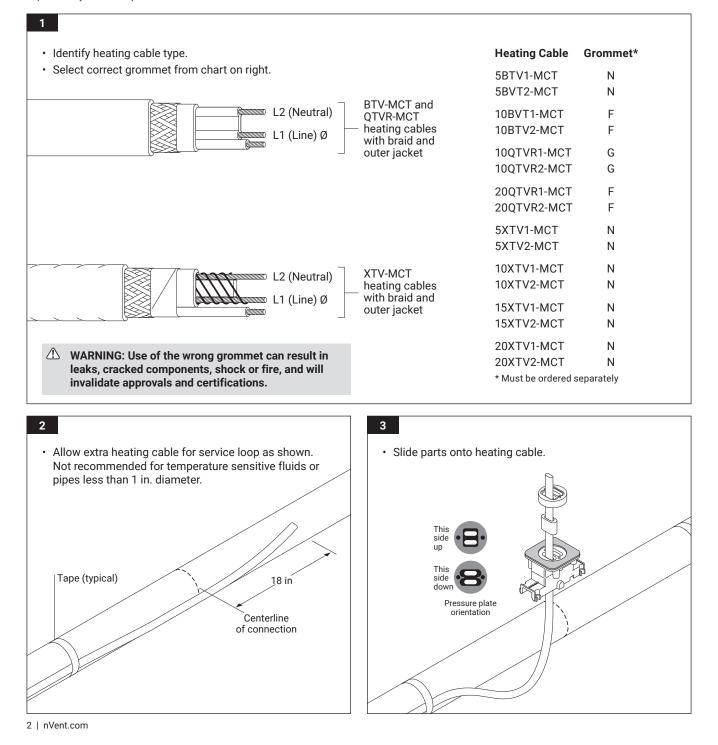
WARNING:

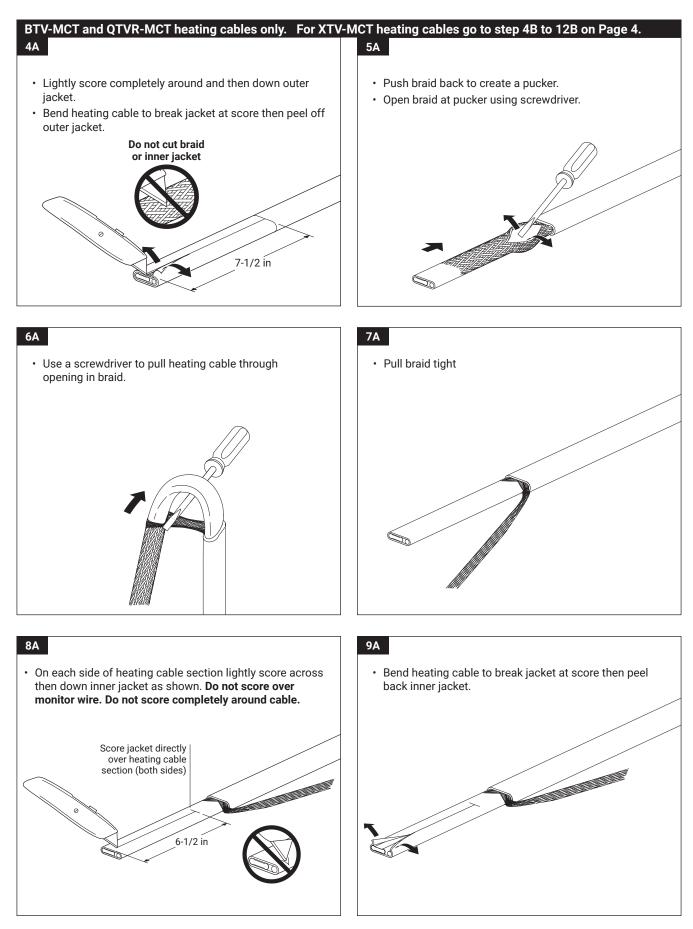
This component is an electrical device which must be installed correctly to ensure proper operation and to prevent shock or fire. Read these important warnings and carefully follow all the installation instructions.

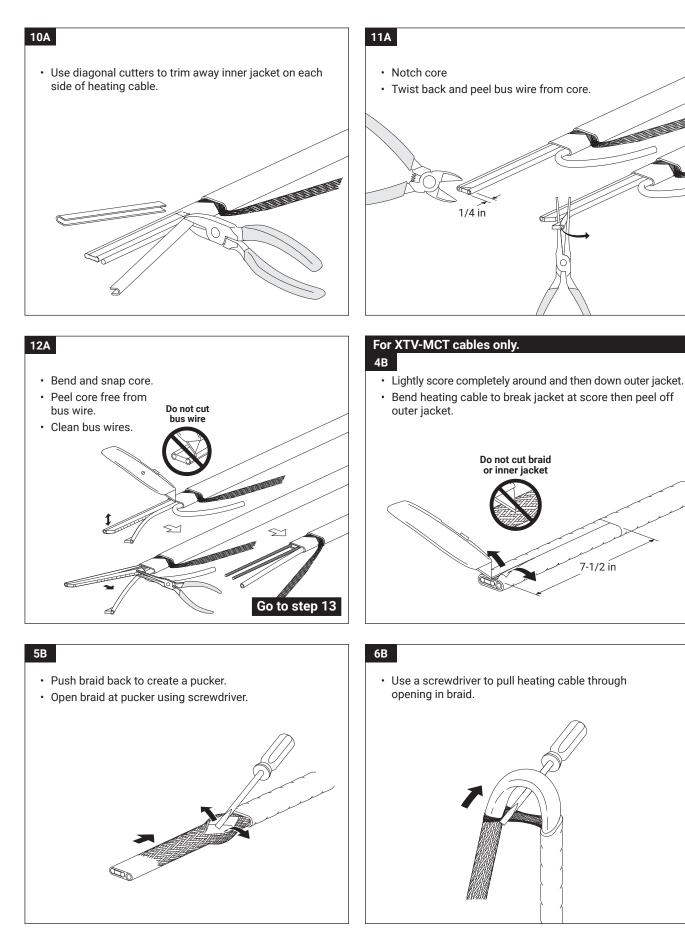
- To minimize the danger of fire from sustained electrical arcing if the heating cable is damaged or improperly installed, and to comply with the 1996 National Electrical Code, ground fault equipment protection must be used on each heating cable branch circuit. Arcing may not be stopped by conventional circuit breakers.
- Component approvals and performance are based on the use of specified parts only. Do not use substitute parts or vinyl electrical tape.
- The black heating cable core and fibers are conductive and can short. They must be properly insulated and kept dry.
- Damaged bus wires can overheat or short. Do not break bus wire strands when scoring the jacket or core.
- Heat damaged components can short. Use a heat gun or a torch with a soft, yellow, low-heat flame, not a blue focused flame. Keep the flame moving to avoid overheating, blistering, or charring the heat-shrinkable tubes. Avoid heating other components. Replace any damaged parts.

CAUTION:

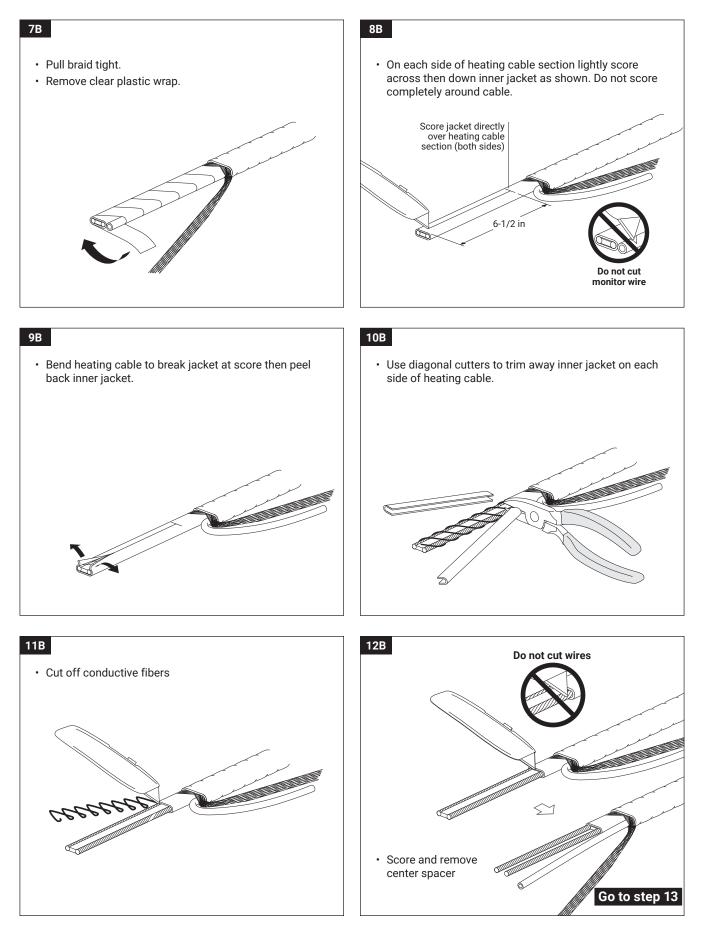
HEALTH HAZARD: Overheating heat-shrinkable tubes will produce fumes that may cause irritation. Use adequate ventilation and avoid charring or burning. Consult MSDS RAY3122 for further information. CHEMTREC 24-hour emergency telephone: (800) 424-9300 Non-emergency health and safety information: (800) 545-6258

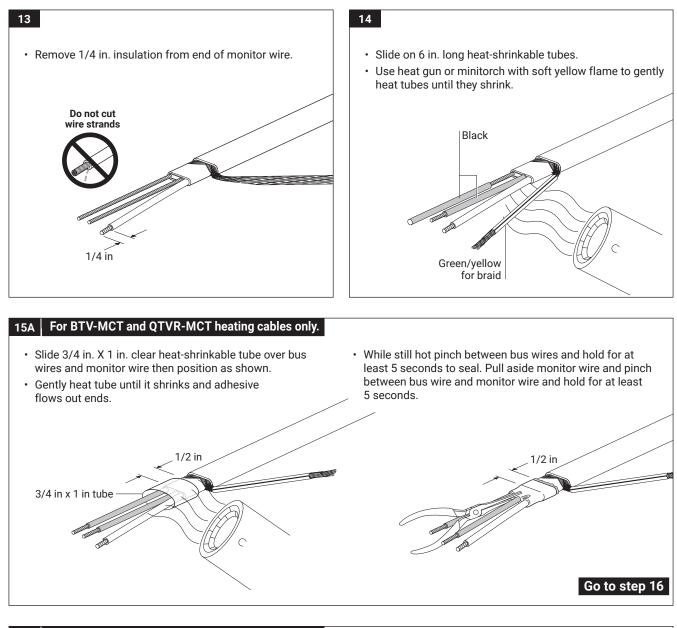






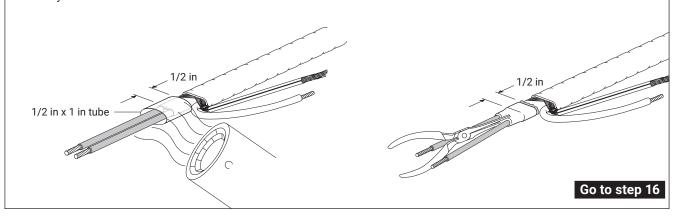
7-1/2 in

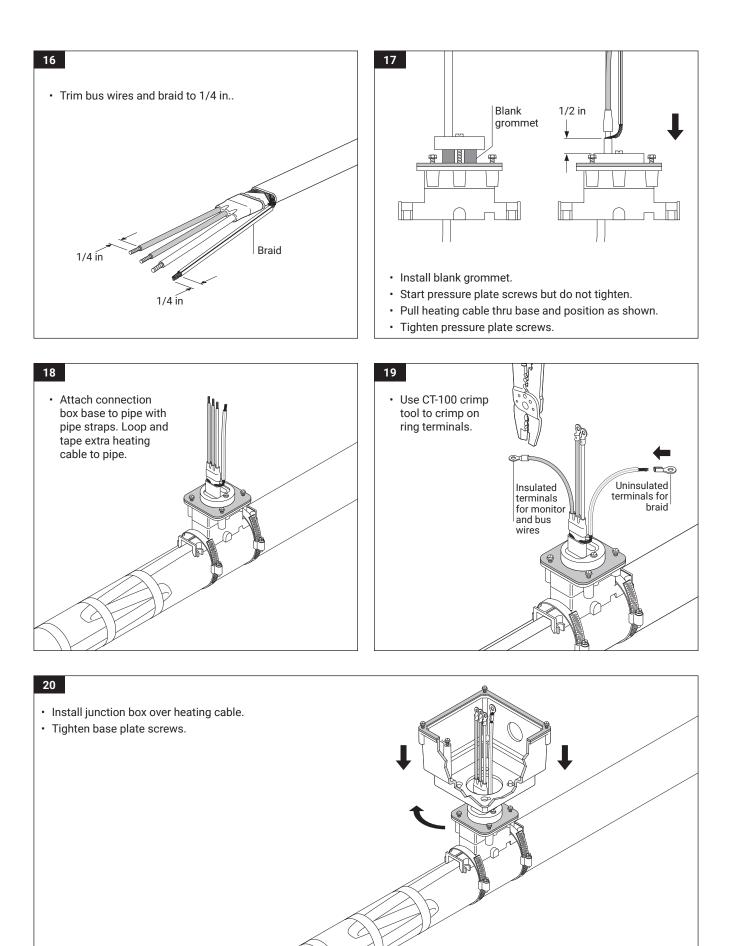


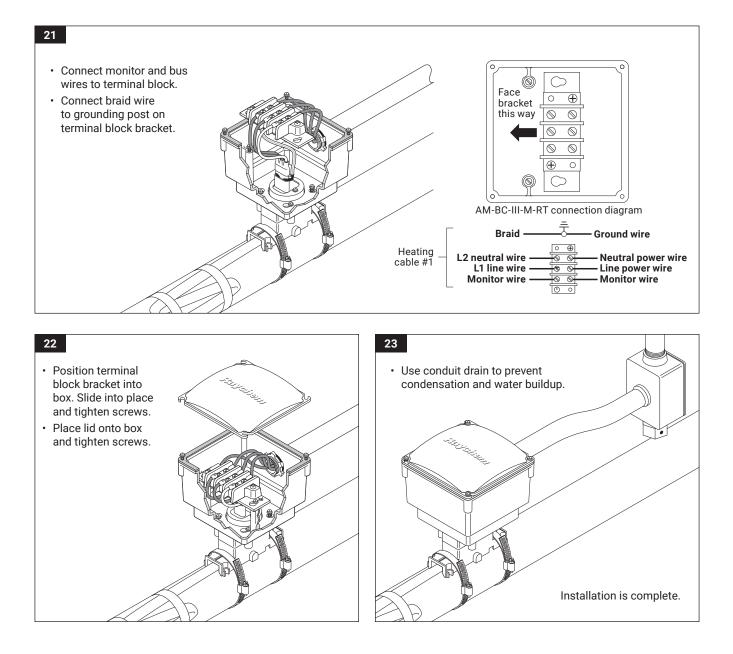


15B For XTV-MCT cables only.

- Slide 1/2 in. X 1 in. clear heat-shrinkable tube over bus wires and position as shown.
- Gently heat tube until it shrinks and adhesive flows out ends.
- While still hot pinch between bus wires and hold for at least 5 seconds to seal.







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