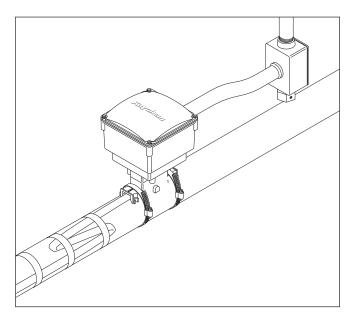


AM-BC-III-M-RT

AutoMatrix Monitor Wire Power Connection Kit Installation Instructions



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).

• Wire strippers

Needle-nose pliers

• 3/8 in. nut driver

• Panduit CT-100 crimp tool

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
- Heat gun or torch (RAYCHEM HA-501A or equal)

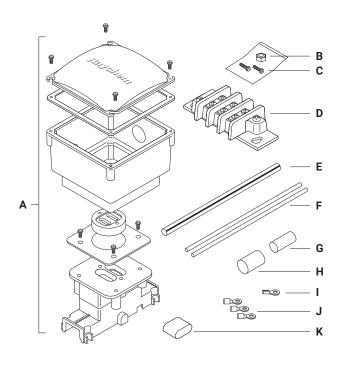
ADDITIONAL MATERIALS REQUIRED

(NOT PROVIDED IN THIS KIT)

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

Kit Contents

c 6 in.
1 in.
1 in.



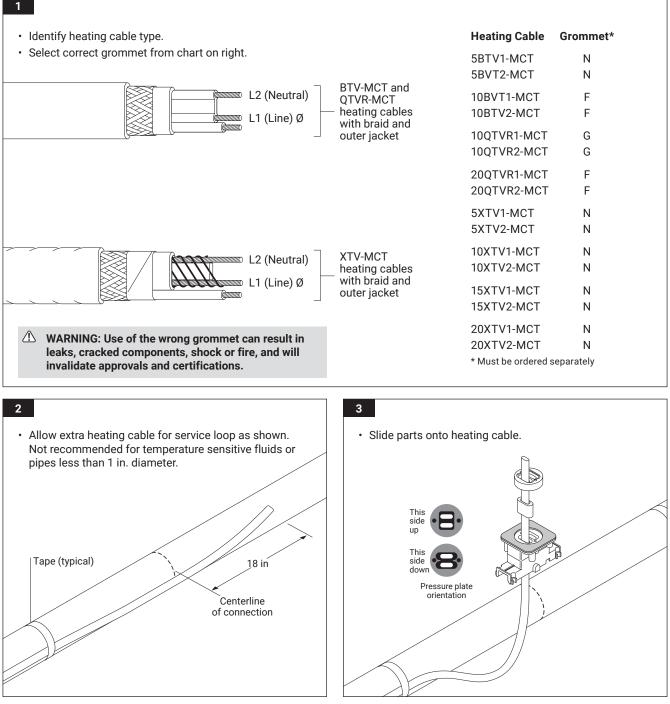
WARNING:

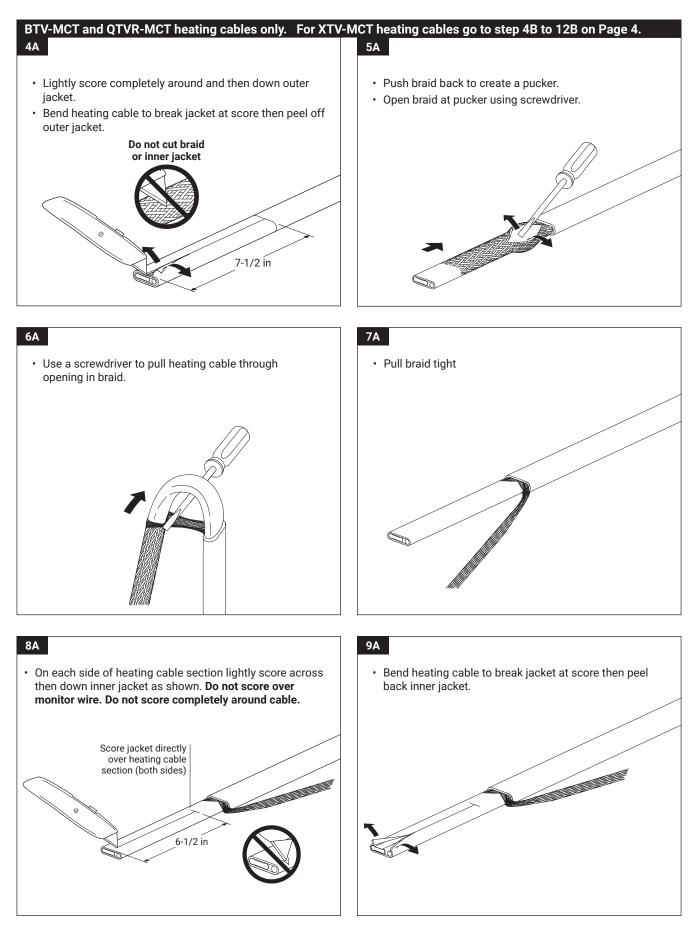
This component is an electrical device which must be installed correctly to ensure proper operation and to prevent shock or fire. Read these important warnings and carefully follow all the installation instructions.

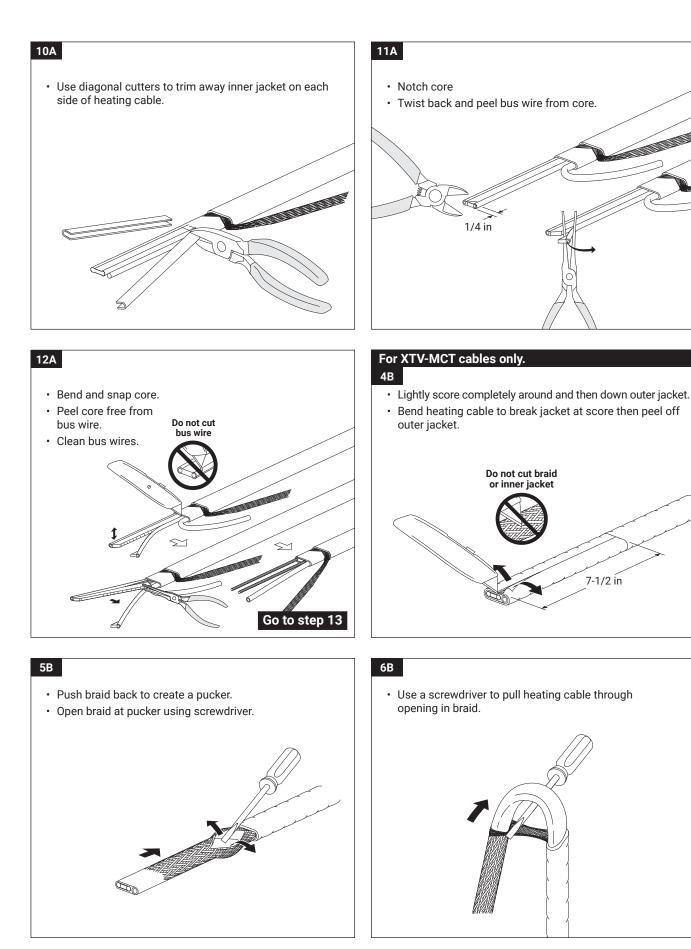
- To minimize the danger of fire from sustained electrical arcing if the heating cable is damaged or improperly installed, and to comply with the 1996 National Electrical Code, ground fault equipment protection must be used on each heating cable branch circuit. Arcing may not be stopped by conventional 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:

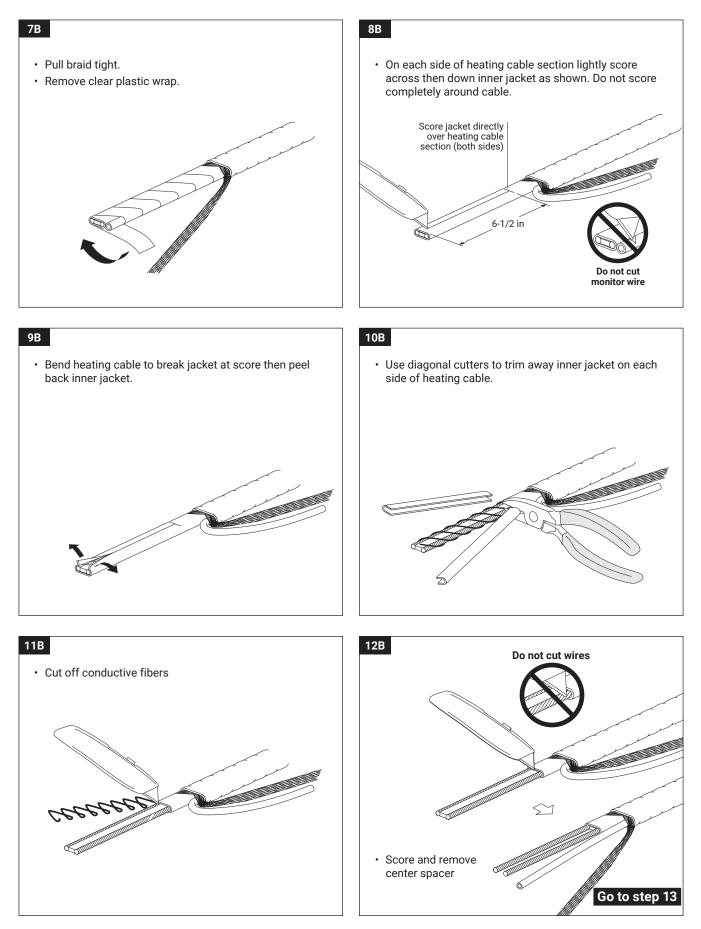
HEALTH HAZARD: Overheating heat-shrinkable tubes will produce fumes that may cause irritation. Use adequate ventilation and avoid charring or burning. Consult MSDS RAY3122 for further information. CHEMTREC 24-hour emergency telephone: (800) 424-9300 Non-emergency health and safety information: (800)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

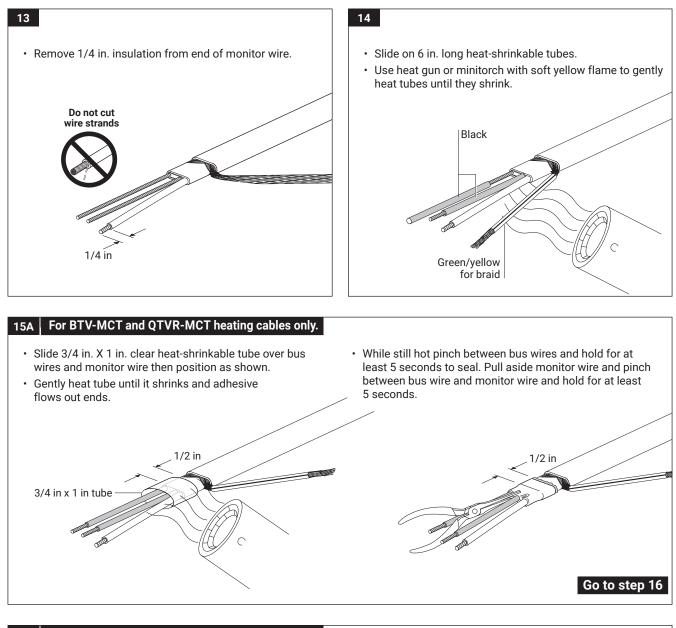






7-1/2 in

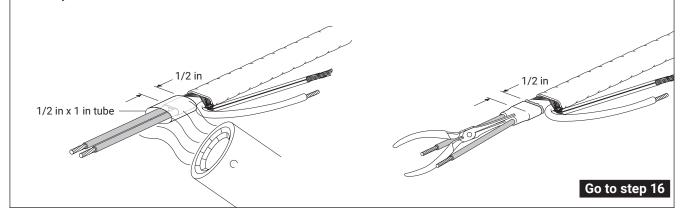


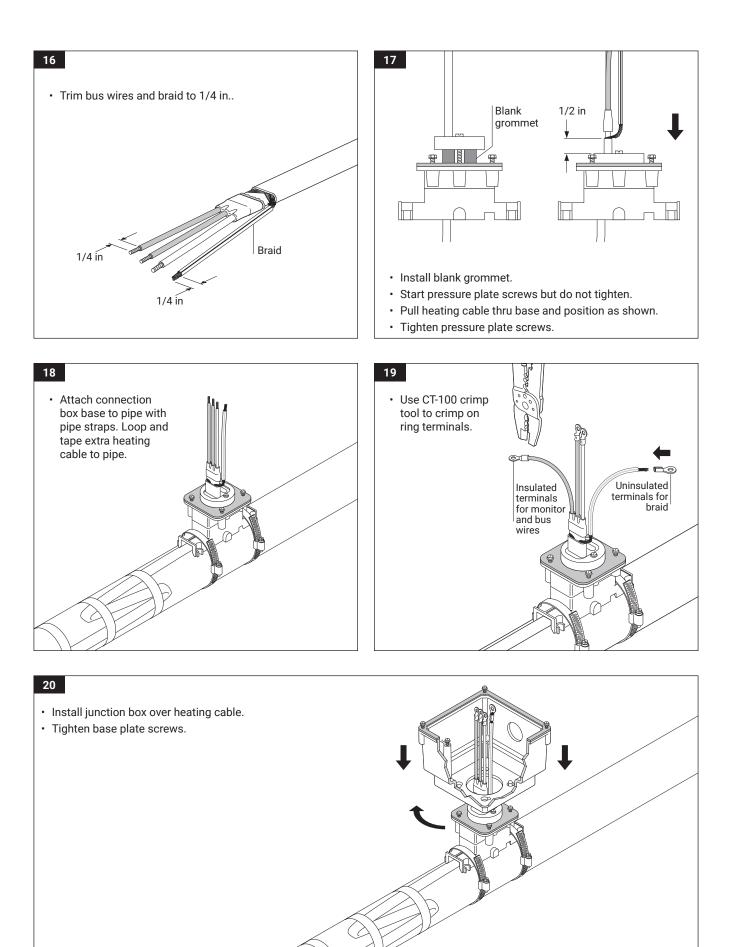


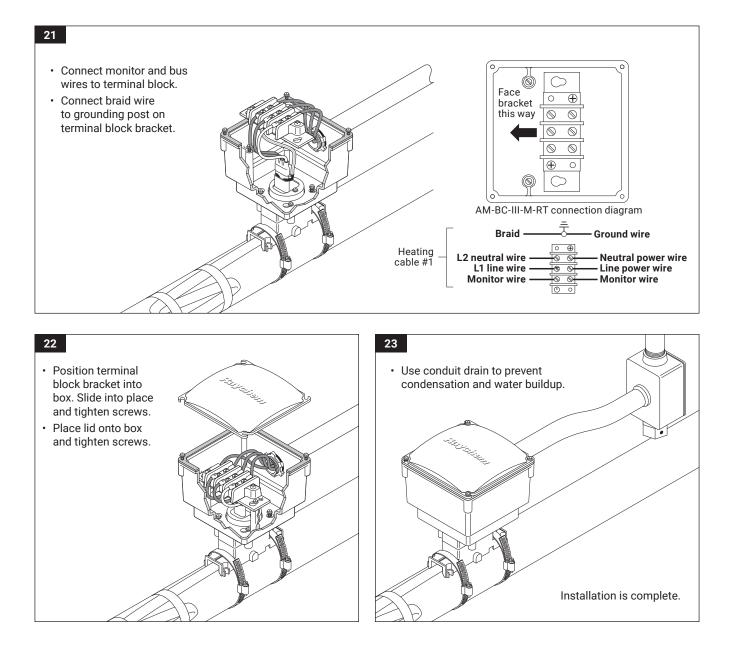
15B For XTV-MCT cables only.

- Slide 1/2 in. X 1 in. clear heat-shrinkable tube over bus wires and position as shown.
- and position as shown. 5 seconds to seal.
 Gently heat tube until it shrinks and adhesive flows out ends.

· While still hot pinch between bus wires and hold for at least







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