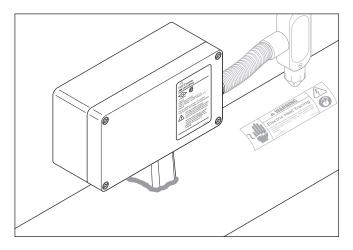


JBM-100-LBTV2

Power Connection, Powered Splice, Dual Power Connection, or Splice with Junction Box Installation Instructions



APPROVALS

Hazardous Locations





Class I, Div. 2, Groups A, B, C, D Class II, Groups F, G Class III CLI, ZN1, AEx e II T6 (1)



CL I ZN 1 AEx eb IIC T6 Gb Ex eb IIC T6 Gb

(1) FM only

DESCRIPTION

The nVent RAYCHEM JBM-100-LBTV2 is a NEMA 4X-rated connection kit. It is designed for use with nVent RAYCHEM LBTV2-CT self-regulating heating cables. The kit can be used to connect one or two heating cables to power, connect two separate heat-trace circuits, or to splice two heating cables.

This kit may be installed at temperatures as low as -40°F (-40°C). Store above freezing until just before installation.

For technical support nVent at (800) 545-6258.

TOOLS REQUIRED

- Heat gun or mini-torch
- 1/4 in slotted screwdriver
- · Utility knife

· Wire cutters

- · Large slotted screwdriver
- · Needle nose pliers
- Adjustable pliers
- 3/8 in hex key (required for splice connections)

ADDITIONAL MATERIALS

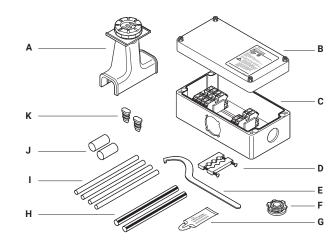
Pipe straps (two required)
 GT-66 or GS-54 glass cloth tape

OPTIONAL MATERIALS

· Recommended conduit drain: JB-DRAIN-PLUG-3/4IN P/N 278621-000

KIT CONTENTS

Item	Qty	Description
A	1	Stand assembly
В	1	Lid
С	1	Box with terminals (max: 1 in conduit & 6 AWG wire)
D	1	Strain relief
E	1	Spanner
F	1	Box plug, o-ring, and locknut
G	1	Cable lubricant
Н	2	Green/yellow heat-shrinkable tubes
I	4	Black heat-shrinkable tubes
J	2	Clear yellow heat-shrinkable tubes
K	2	Grommet plugs



⚠ WARNING:

This component is an electrical device that must be installed correctly to ensure proper operation and to prevent shock or fire. Read these important warnings and carefully follow all of 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 requirements of nVent, agency certifications, and national electrical codes, ground-fault equipment protection must be used. Arcing may not be stopped by conventional circuit breakers.
- The power connection may be powered by more than one circuit. Be sure all power sources are de-energized before opening box.
- Component approvals and performance are based on the use of nVent-specified parts only. Do not use substitute parts or vinyl electrical tape.

- · The black heating cable core is conductive and can short. It 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.
- Keep components and heating cable ends dry before and during installation.
- Use only fire-resistant insulation materials, such as
- fiberglass wrap or flame-retardant foam.

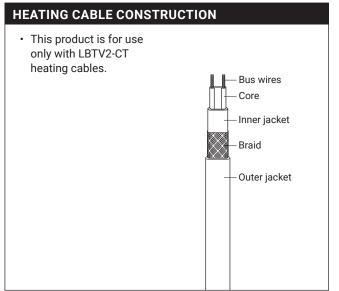
 Heat-damaged components can short. Use a heat gun
 or a torch with a soft, yellow, low-heat flame. Keep the flame moving to avoid overheating, blistering, or charring the heat-shrinkable tubes. Avoid heating other components. Replace any damaged parts.

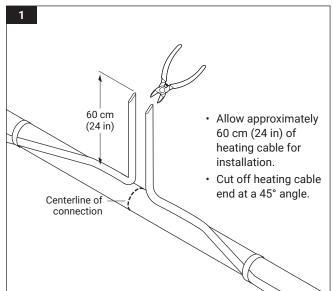
CAUTION:

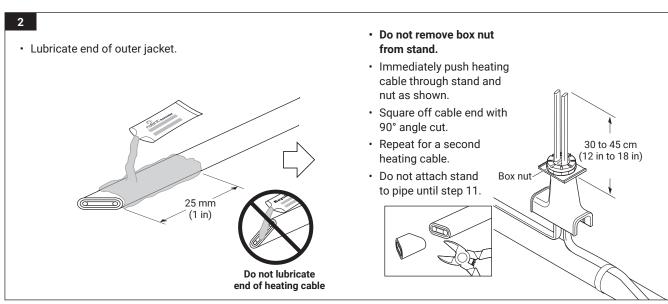
Health Hazard: Overheating heat-shrinkable tubes will produce fumes that may cause irritation. Use adequate ventilation and avoid charring or burning. Consult MSDS RAY3122 for further information.

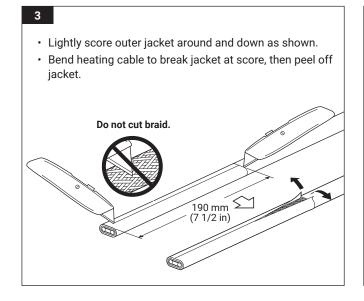
CHEMTREC 24-hour emergency telephone: (800) 424-9300

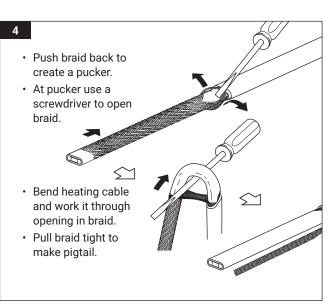
Non-emergency health and safety information: (800) 545-6258.

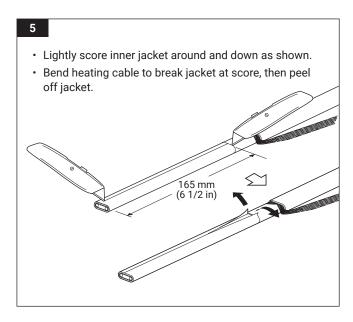


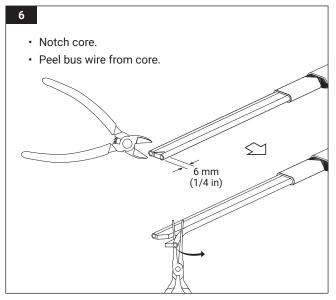


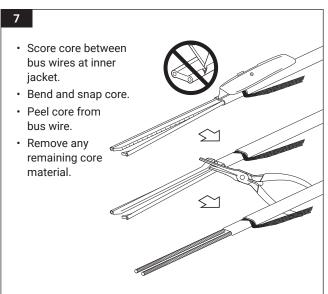


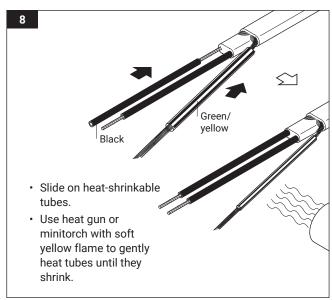


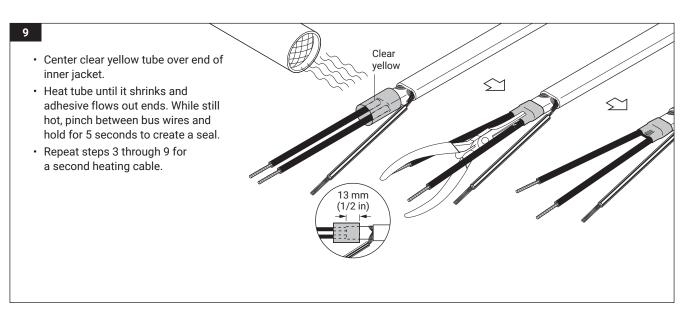


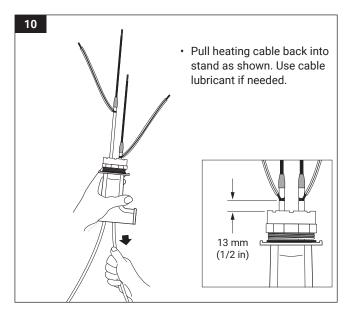


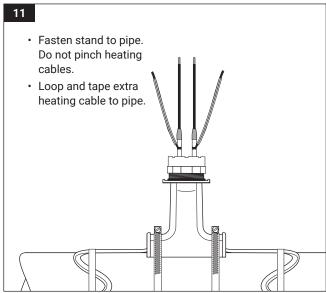


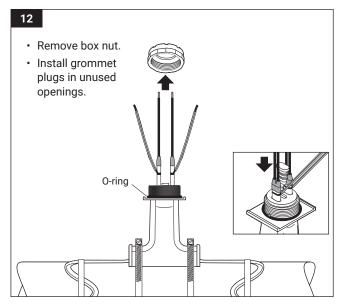


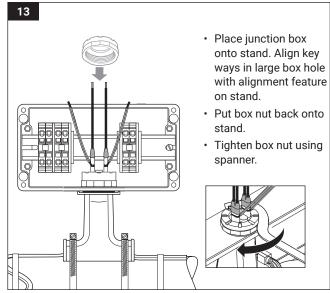


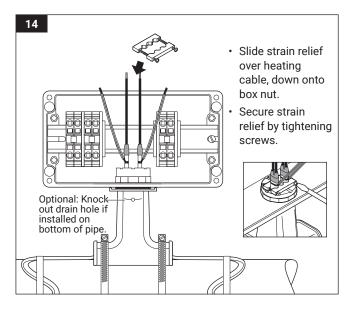


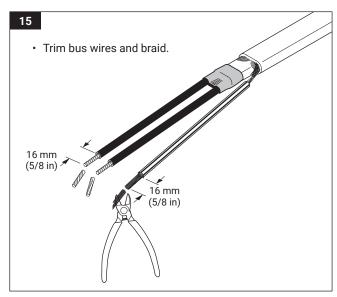










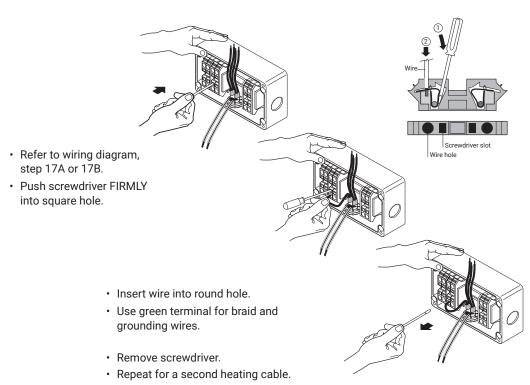


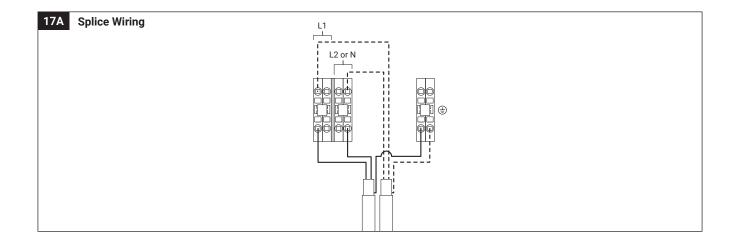
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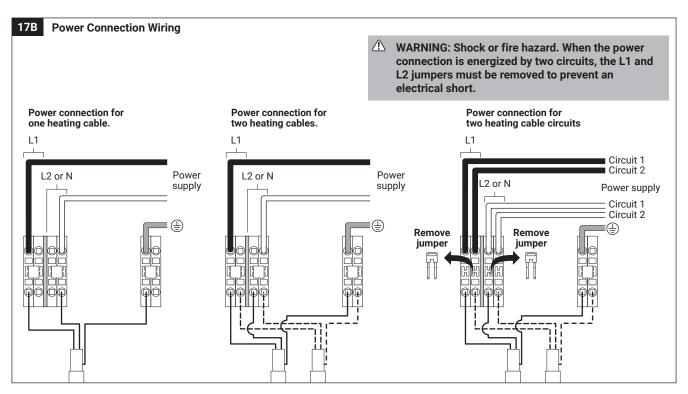
This kit uses spring-clamp style terminals to provide improved vibration resistance, reduced maintenance and faster installation.

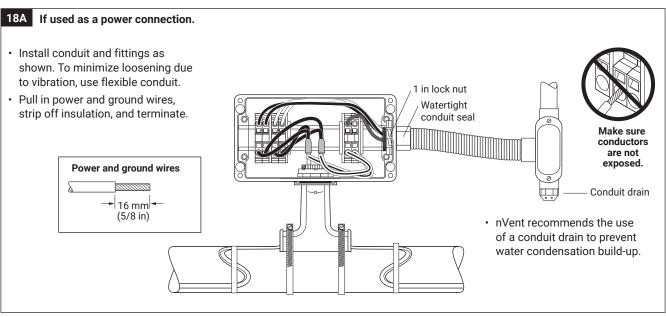
To connect wires, firmly insert a slotted screwdriver into the square hole (©) to open the spring. When fully inserted, the screwdriver will lock into place, allowing you to remove your

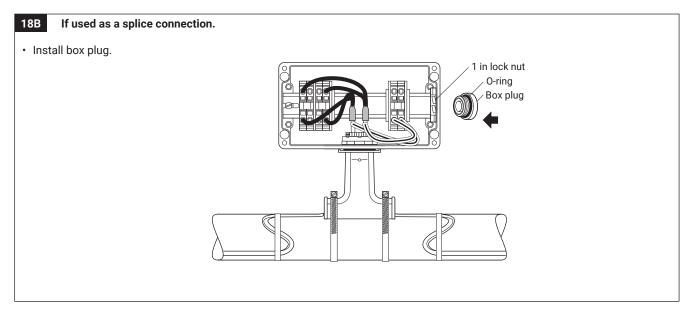
hand and insert the wire into the round hole (©). Remove the screwdriver to clamp the wire. The wire is held securely against the bus bar for low contact resistance over time without the need to periodically retighten screws.

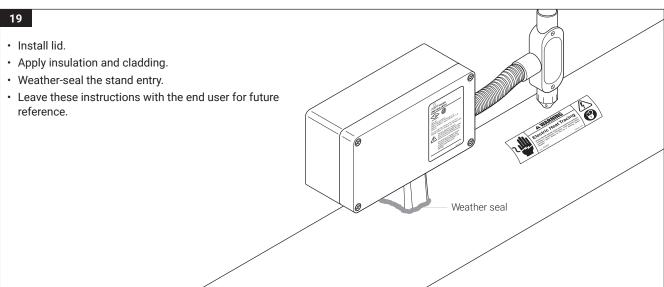












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