

nVent RAYCHEM JBM-100-L-A Multi Entry Connection Kit **Instruction Manual**

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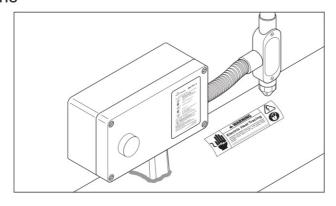


nVent RAYCHEM JBM-100-L-A Multi Entry Connection Kit Instruction Manual



JBM-100-L-A

Installation Instructions



APPROVALS

Hazardous Locations





Class I, Div. 2, Groups A, B, C, D Class II, Div. 2, Groups E, F, G Class III CLI, ZN1, AEx em II T* (1)



(JBM-100-L-A only) Ex eb mb IIC T* Gb (2)

IECEx

JBM-100-L-A is IECEx certified for use with:
BTV-CR/BTV-CT: IECEx BAS 20.0011X
QTVR-CT: IECEx BAS 20.0013X
XTV-CT: IECEx BAS 20.0012X
KTV-CT: IECEx BAS 20.0014X
HTV-CT: IECEx PTB 21.0007X
VPL-CT: IECEx BAS 20.0008X



Class I Division 2 (Zone 2**), Groups A, B, C, D

Class I Zone 2 IIC



Ex eb mb IIC T* Gb; Class I Zone 1 AEx eb mb IIC T* Gb Ex mb tb IIIC T*°C Db; Zone 21 AEx mb tb IIIC T*°C Db

- * For system Temperature Code, see heating cable or design documentation
- (1) Except VPL, HTV (FM approval only)
- (2) Except KTV-CT
- (3) For HTV-CT only ** Per CE Code Table 18

KIT CONTENTS

Item	Qty	Description
A	1	Stand assembly
В	2	Grommet plugs
С	1	Box plug, o-ring, and locknut
D	1	Cable lubricant
E	3	Core sealers
F	3	Green/yellow tubes
G	1	Box with terminal blocks
Н	1	Lid
I	1	Spanner
J	1	Strain relief
K	1	JBL-100-R Plug-in module

Power Connection, Powered Splice, Powered Tee, Dual Power Connection, Splice or Tee with Junction Box and Light

The nVent RAYCHEM JBM-100-L-A is a Type 4X-rated connection kit. It is designed for use with nVent RAYCHEM BTV-CR, BTV-CT, QTVR-CT, XTV-CT, KTV-CT, HTV-CT and VPL-CT industrial parallel heating cables. The kit can be used to connect one, two, or three heating cables to power, to connect two separate heat-trace circuits, or to splice or tee up to three heating cables. The kit includes a plug-in light module that indicates when power is supplied to the heating cable circuit.

Note: For two or more heating cables powered by a single circuit, the length of each heating cable should not exceed the maximum allowable circuit length published in the nVent RAYCHEM self-regulating cables design guide and the total current of all heating cables on the circuit should equal no more than 80% of the circuit breaker current rating.

This kit may be installed at temperatures as low as –40°F (–40°C). For easier installation store above freezing until just before installation.

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

TOOLS REQUIRED

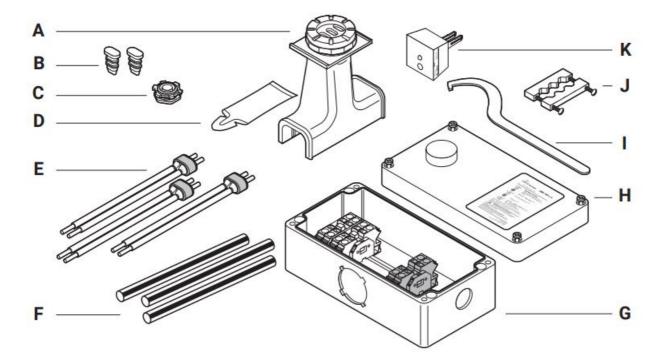
- · Wire cutters
- · Adjustable pliers
- · Needle nose pliers
- Utility knife
- 1/4 in or smaller slotted screwdriver
- Marking pen
- Wire stripper (for VPL-CT)
- · Large slotted screwdriver
- 3/8 in hex key (required for splice and tee connections)

ADDITIONAL MATERIALS REQUIRED

- Pipe strap
- GT-66 or GS-54 glass cloth tape

OPTIONAL MATERIALS

- Recommended conduit drain: JB-DRAIN-PLUG-3/4IN P/N 278621-000
- Small pipe adapter for 1 in (25 mm) and smaller pipes: Catalog number JBM-SPA P/N D55673-000





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 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.
- 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.

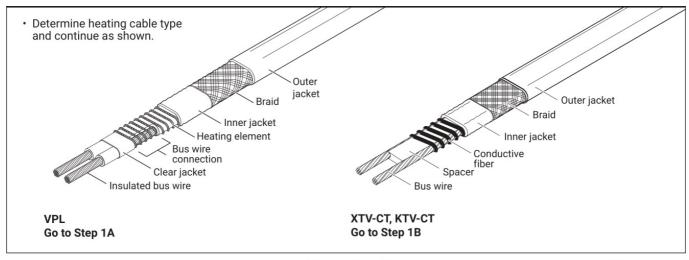
CAUTION:

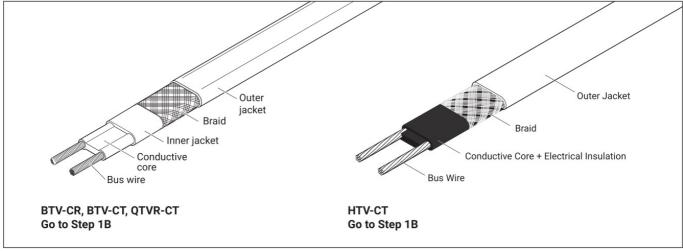
HEALTH HAZARD: Prolonged or repeated contact with the sealant in the core sealer may cause skin irritation. Wash hands thoroughly. Overheating or burning the sealant will produce fumes that may cause polymer fume fever. Avoid contamination of cigarettes or tobacco. Consult MSDS VEN 0058 for further information.

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

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

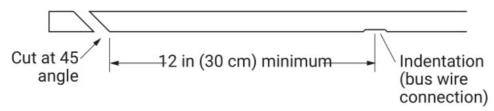
HEATING CABLE TYPES



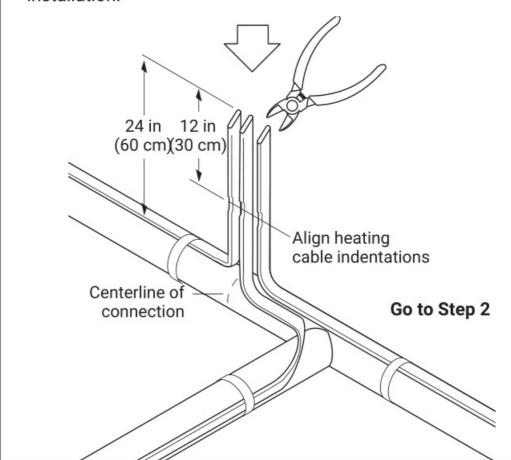


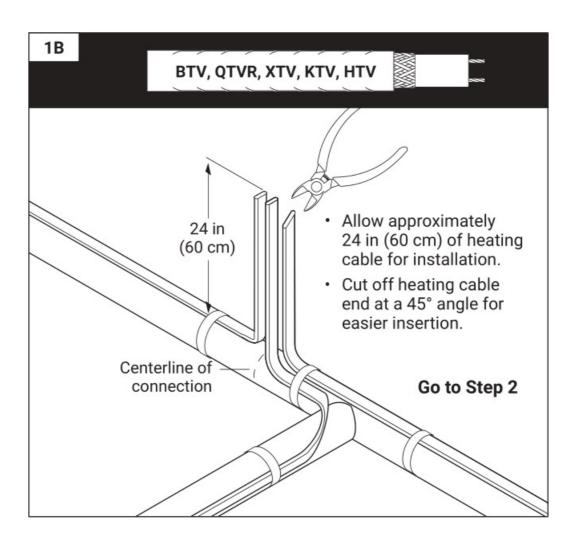


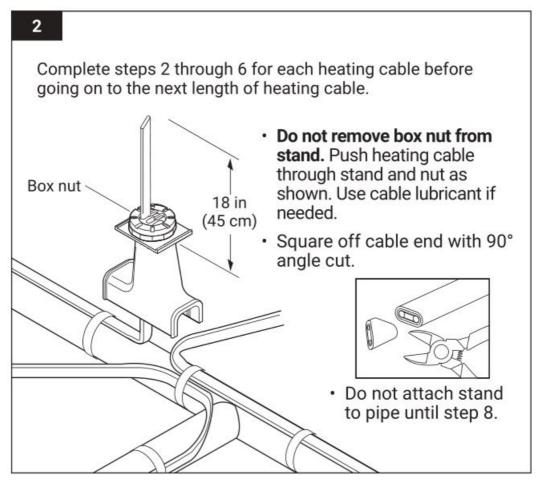
 Cut each heating cable 12 in (30 cm) from the center of the first indentation, cut at a 45° angle.



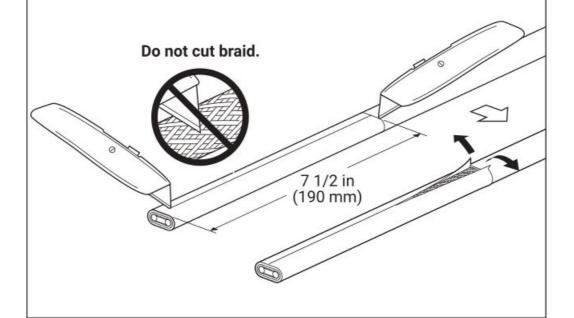
After heating cable has been cut, align indentations.
 Allow approximately 24 in (60 cm) of heating cable for installation.

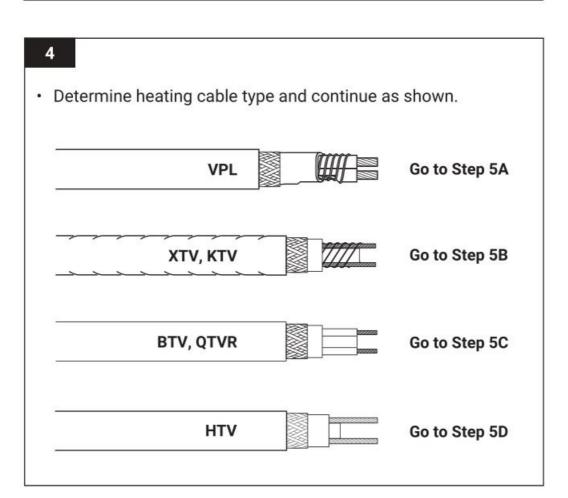




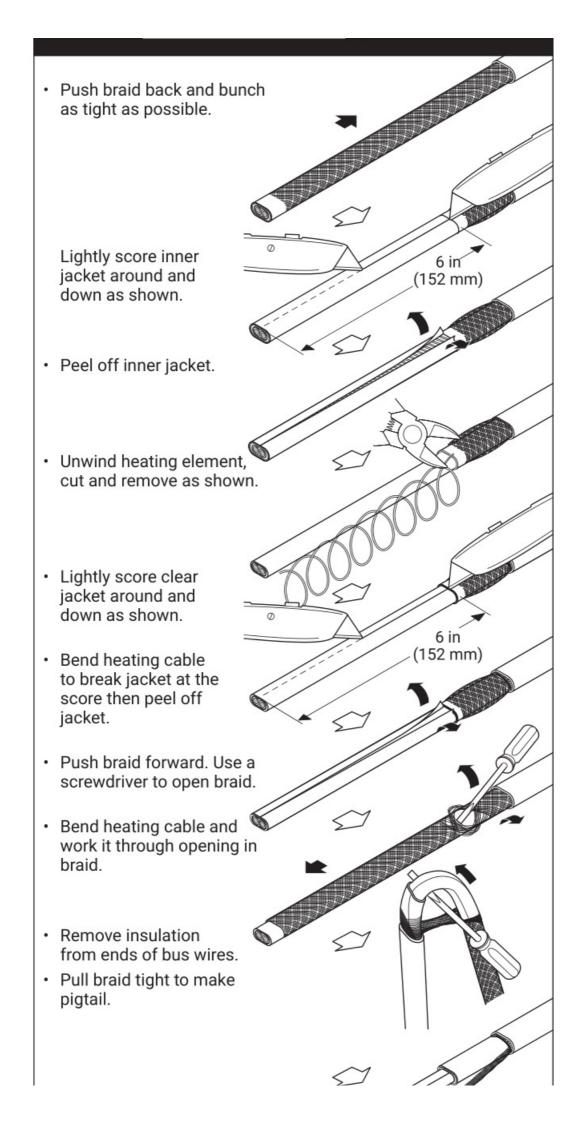


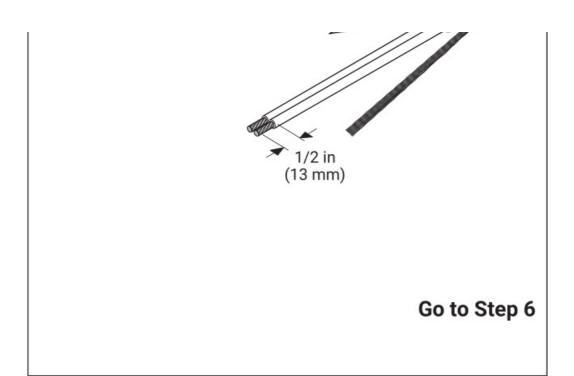
- · Lightly score outer jacket around and down as shown.
- Bend heating cable to break jacket at score, then peel off jacket.

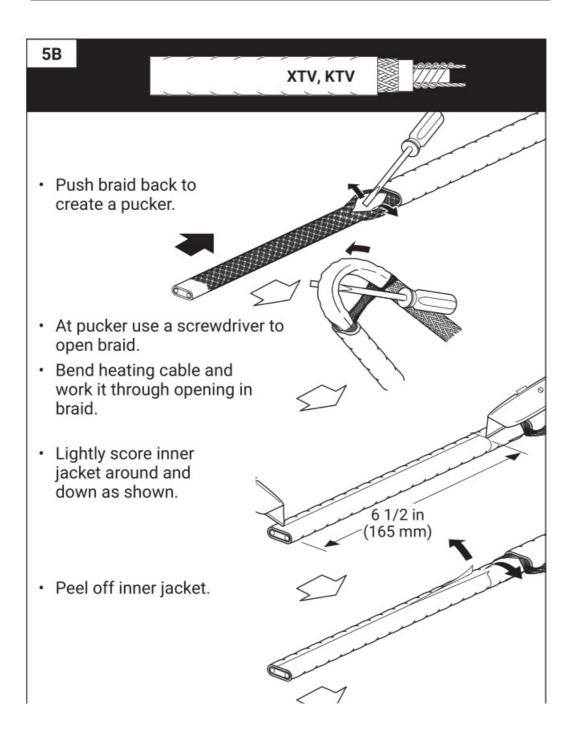


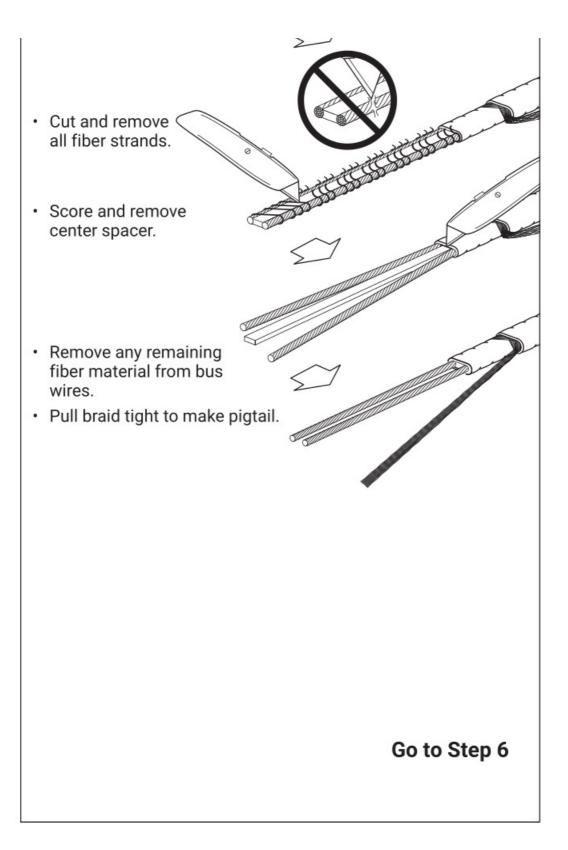


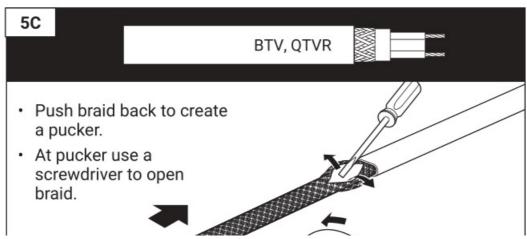


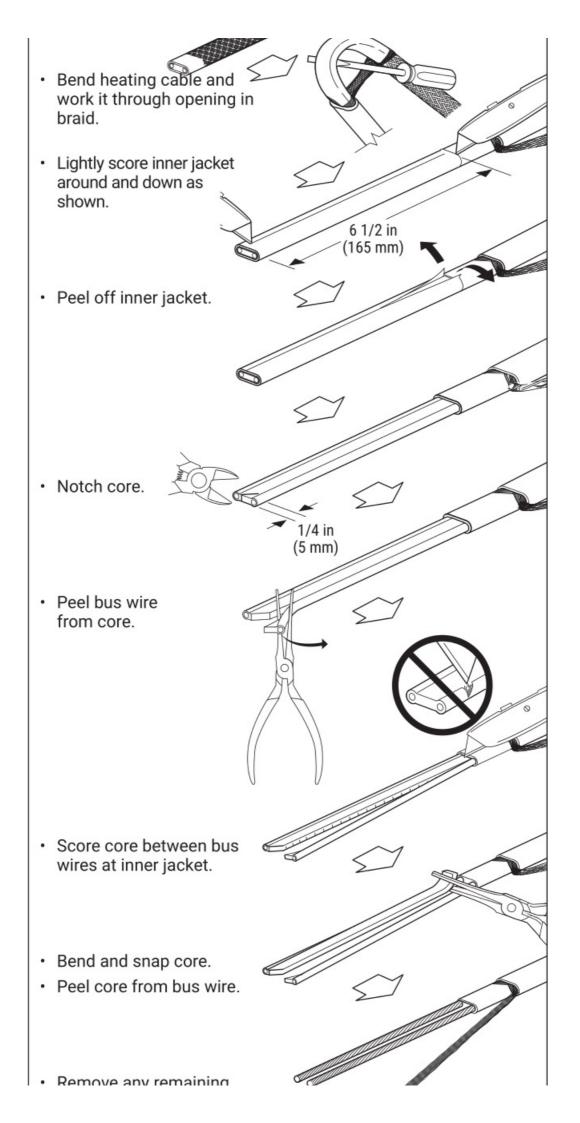








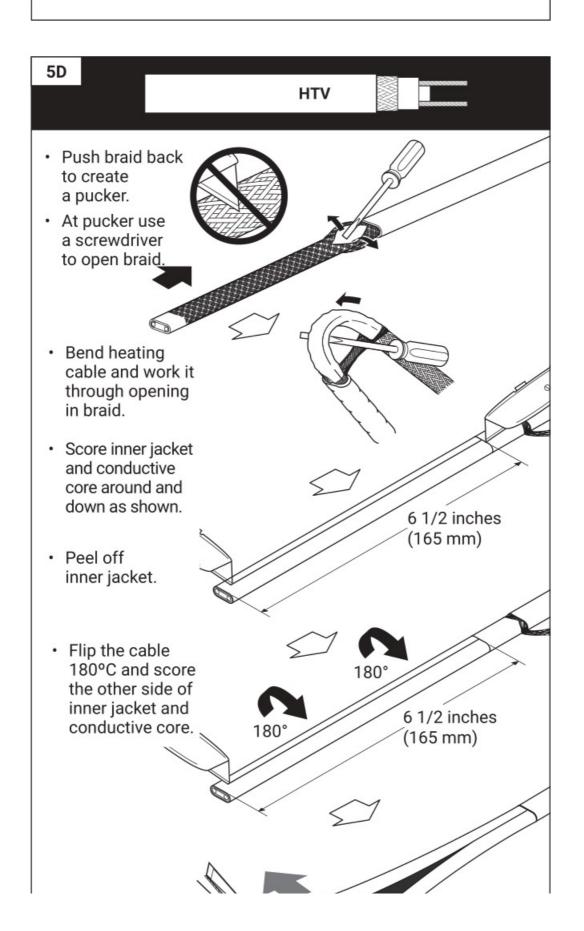


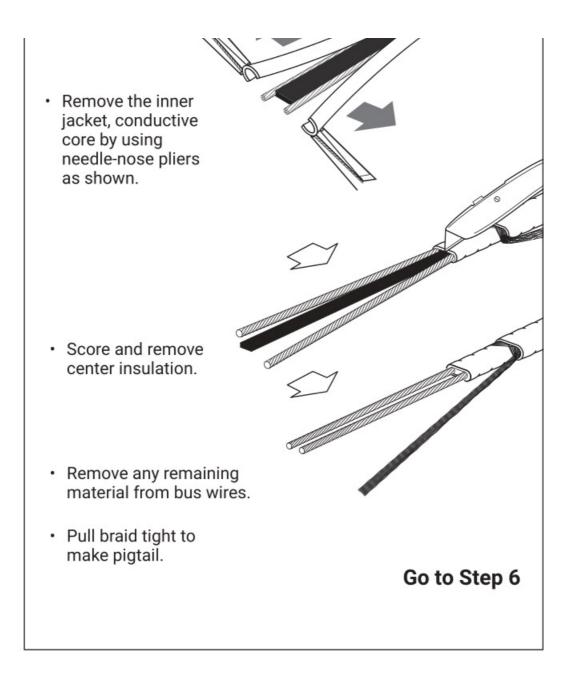


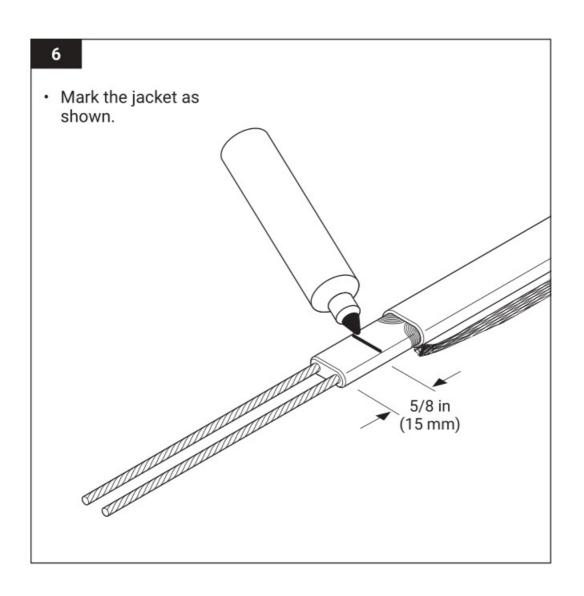
core material from bus wires.

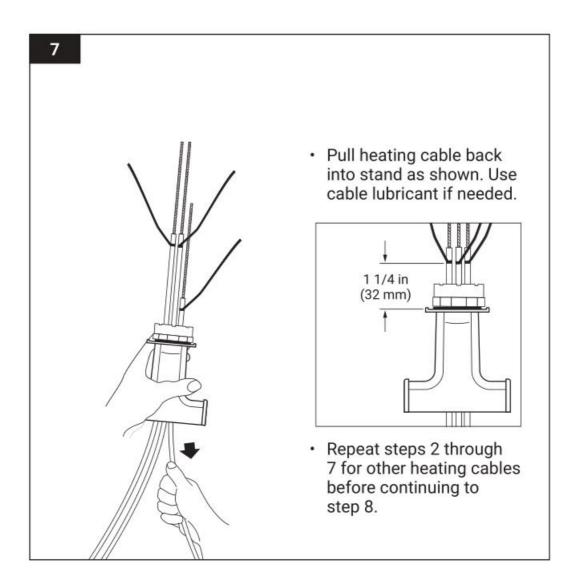
· Pull braid tight to make pigtail.

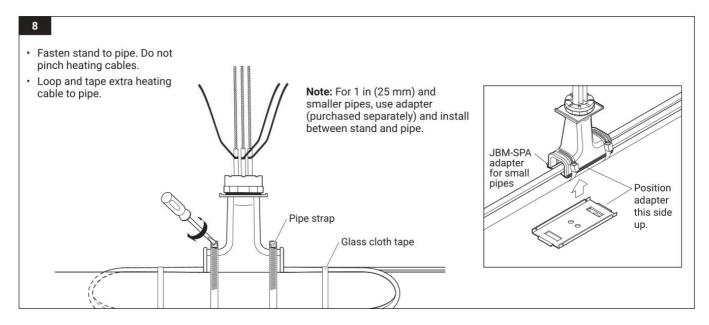


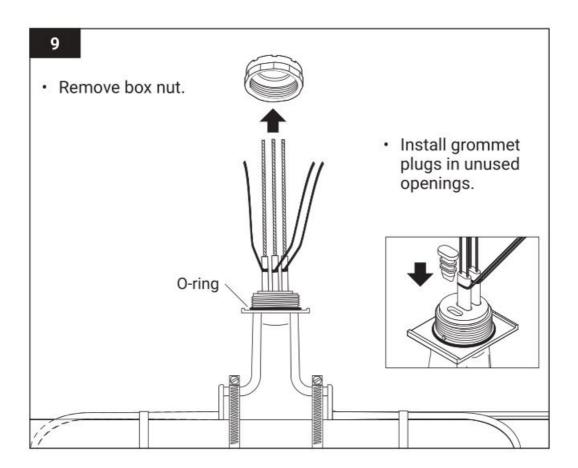


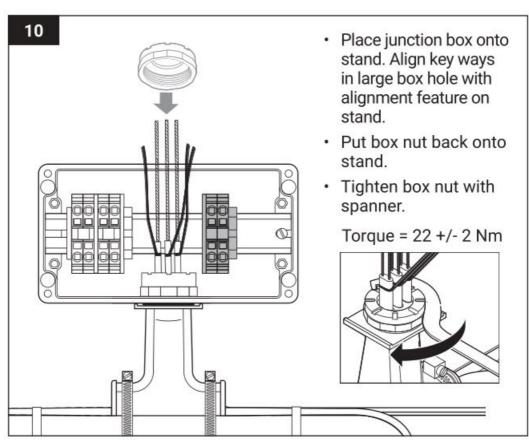


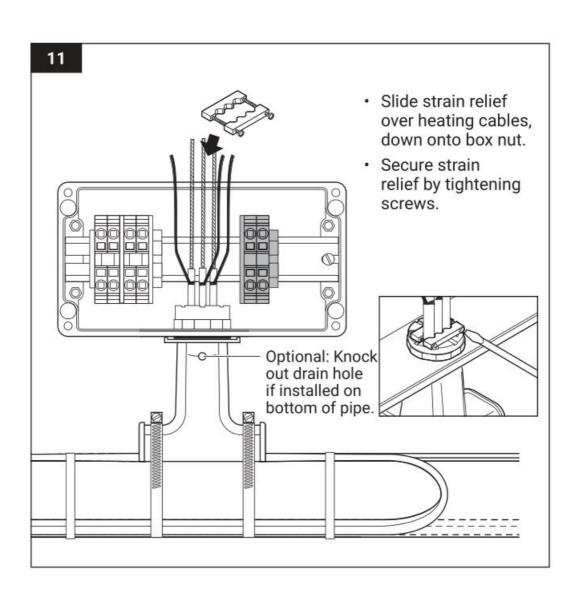


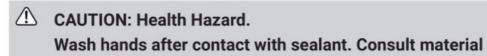






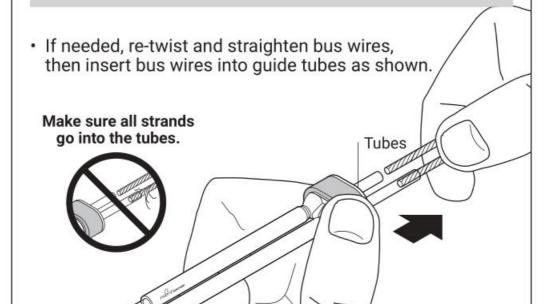


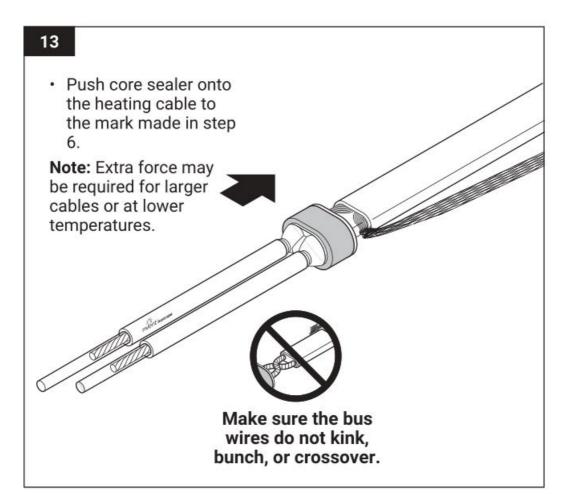


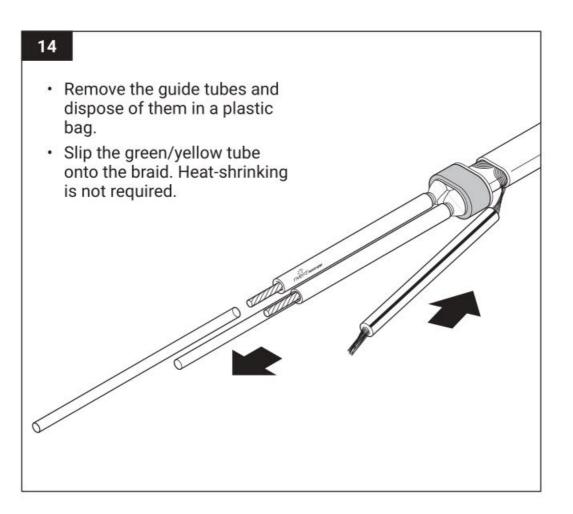


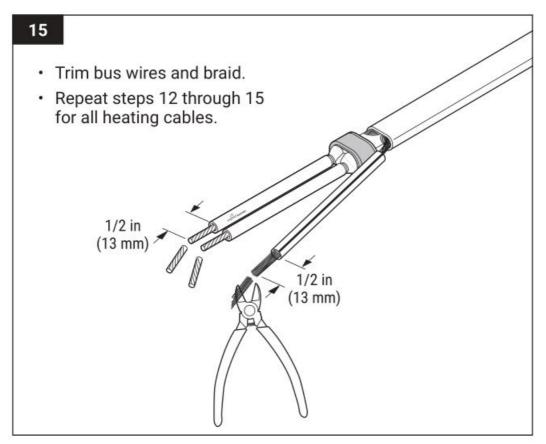
safety data sheet VEN 0058.

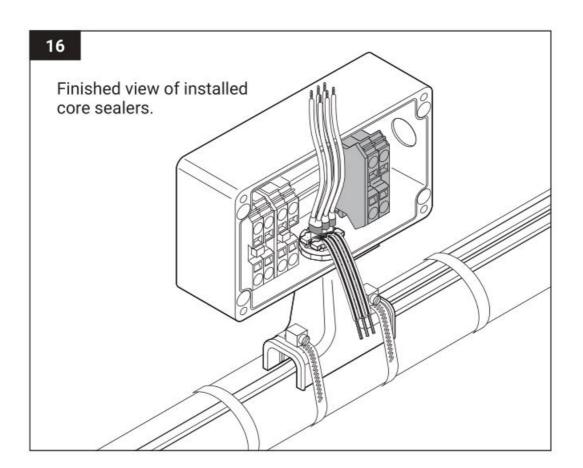
Avertissement: risque pour la santé. Se laver les mains après tout contact avec le produit d'étanchéité. Consulter la fiche de données de sécurité VEN 0058.







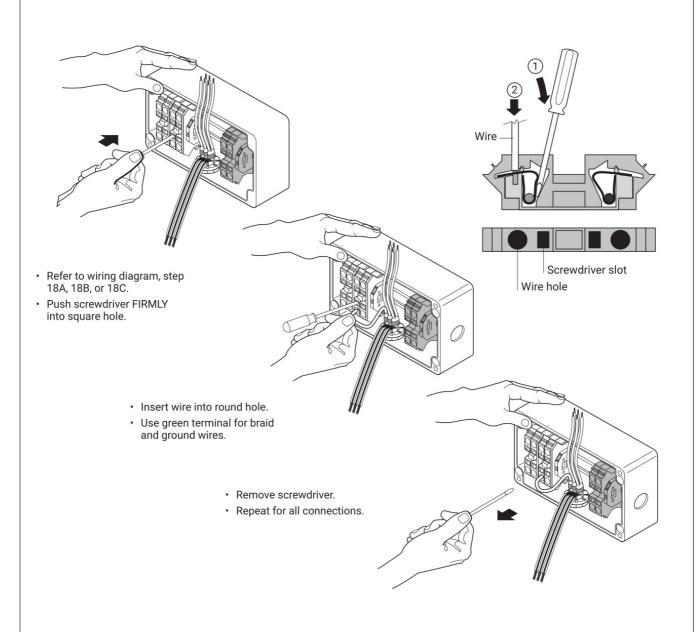


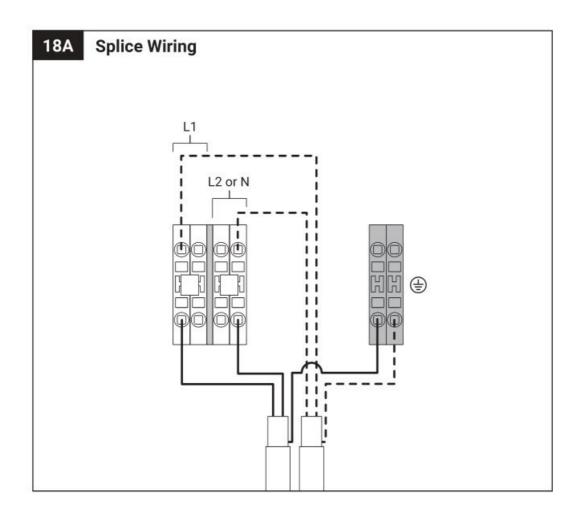


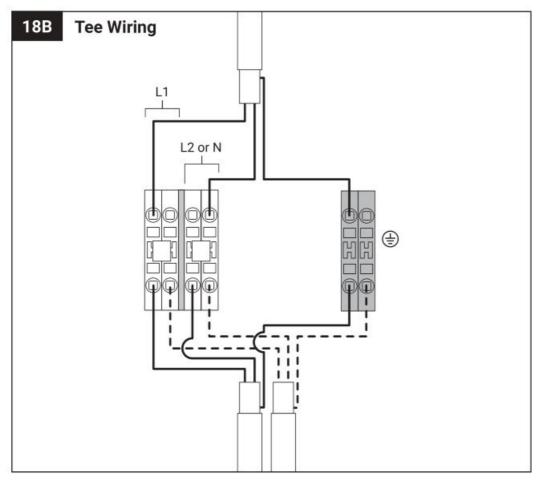
This kit uses spring clamp style terminals.

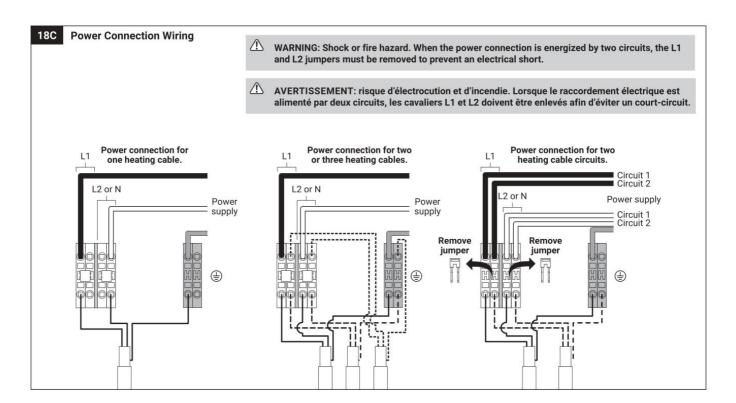
Terminals use a steel spring to clamp the wire to provide improved vibration resistance, reduced maintenance and faster installation.

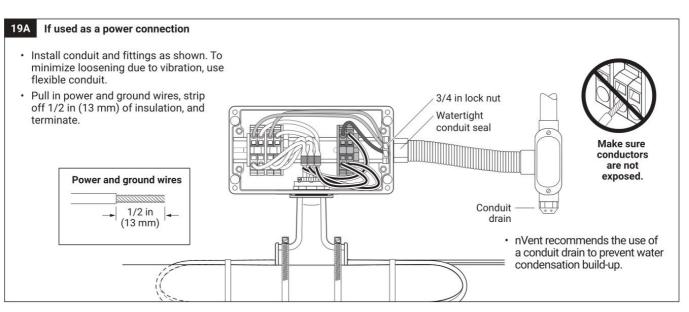
To connect wires, firmly insert a slotted screwdriver into the square hole (\odot) to open the spring. When fully inserted, the screwdriver will lock into place, allowing you to remove your hand and insert the wire into the round hole (\odot) . Remove the screwdriver to clamp the wire. The wire is held securely against the bus bar for low contact resistance over time without the need to periodically retighten screws.

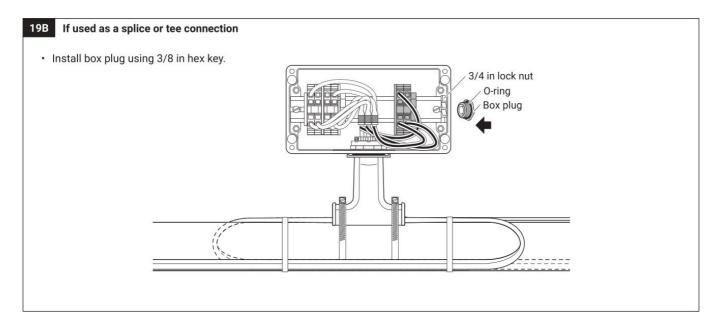


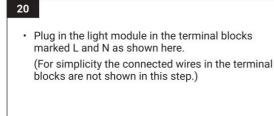


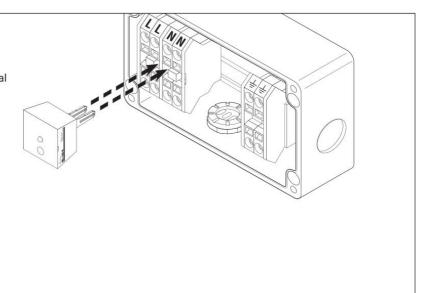


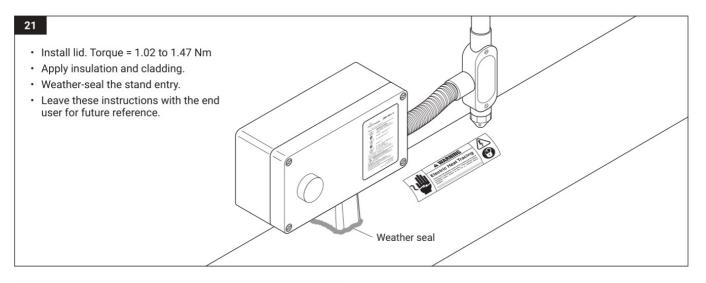












MARNING: Explosion Hazard- Substitution of Components May Impair Suitablity for Class I Division 2 (Zone 2)

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RAYCHEM-IM-H59056-JBM100LA-EN-2111

PN P000001644

Contents

- 1 Documents / Resources
 - 1.1 References
- 2 Related Posts

Documents / Resources



nVent RAYCHEM JBM-100-L-A Multi Entry Connection Kit [pdf] Instruction Manual JBM-100-L-A Multi Entry Connection Kit, JBM-100-L-A, Multi Entry Connection Kit, Entry Connection Kit, Connection Kit

References

• * Electrical Heat Tracing | Heat Tracing | nVent RAYCHEM

Manuals+,