# Raychem

## **JBS-100-A, A6** Single Entry Power Connection with Junction Box

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### Approvals

### Hazardous Locations

### CLI, ZN1, AEx e II $^{* (1)}$ Ex e II T $^{*}$

Class I, Div. 2, Groups A, B, C, D Class II, Div. 1 and 2, Groups E, F, G Class III Temp Code\*

(1) Except VPL

\*For system Temperature Code, see heating cable or design documentation.

(FM)

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### **Kit Contents**

Item	Qty	Description
A	1	Stand
В	1	Core sealer
С	1	Green/yellow tube
D	1	Cable lubricant
E	1	Cable tie
F	1	Lid
G	1	Box with terminal block

### **Installation Instructions**

### Description

The JBS-100-A is a NEMA 4X rated power connection kit. It is designed for use with Raychem® BTV-CR, BTV-CT, QTVR-CT, XTV-CT, KTV-CT and VPL-CT industrial parallel heating cables.

The JBS-100-A6 utilizes larger terminal blocks to accommodate up to 6 AWG power wires.

This kit may be installed at temperatures as low as  $-40^{\circ}$ F ( $-40^{\circ}$ C). For easier installation store above freezing until just before installation.

For technical support call Tyco Thermal Controls at (800) 545-6258.

### **Tools Required**

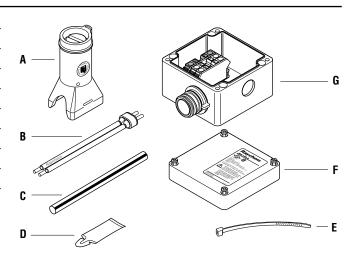
- Wire cutters
- Utility knife
- Needle nose pliers
- Marker
- Pliers or adjustable wrench
  1/4" or smaller flat-blade screwdriver
- Large slotted screwdriver
- Wire stripper (for VPL-CT)

### **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" (25 mm) and smaller pipes: Catalog number JBS-SPA P/N E90515-000



### 🗥 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.

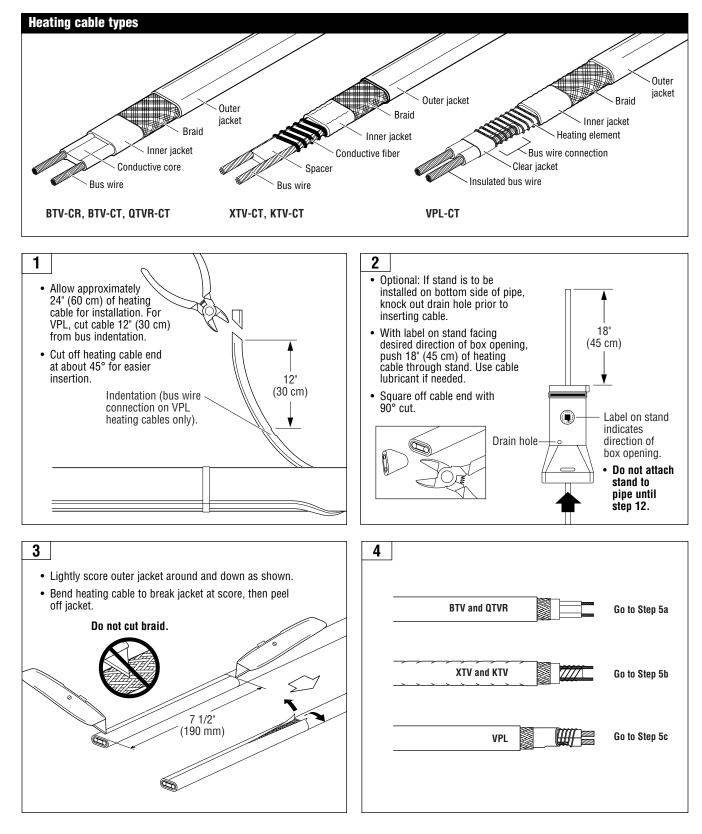
- To minimize the danger of fire from sustained electrical arcing if the heating cable is damaged or improperly installed, and to comply with the requirements of Tyco Thermal Controls, agency certifications, and national electrical codes, ground-fault equipment protection must be used. Arcing may not be stopped by conventional circuit breakers.
- Component approvals and performance are based on the use of Tyco Thermal Controls -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 and flame-retardant foam.

### A CAUTION:

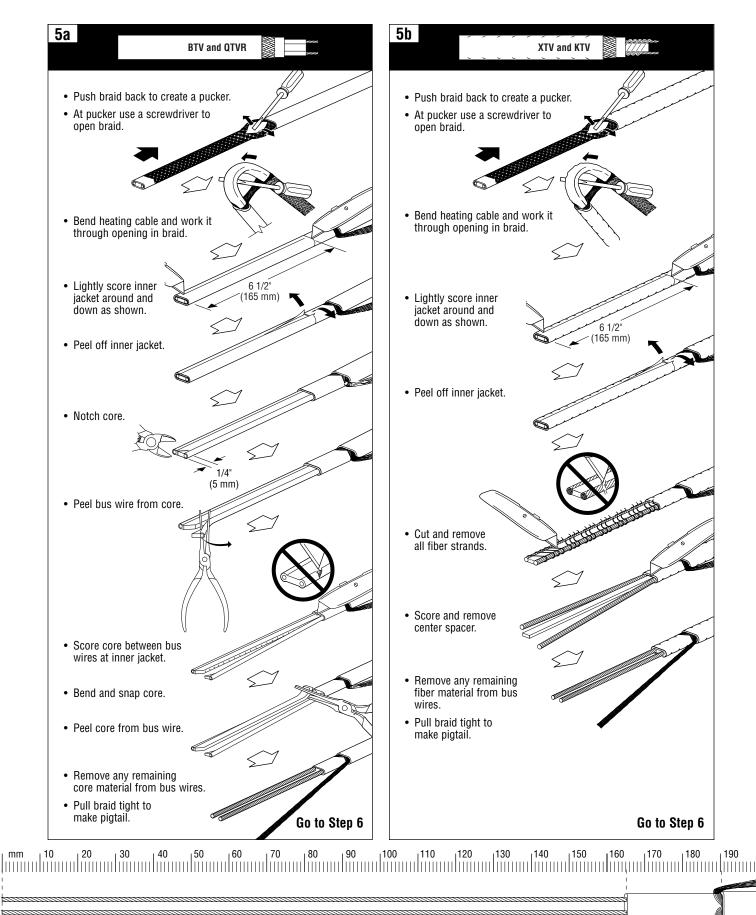
Health Hazard: Prolonged or repeated contact with the sealant in the core sealer may cause skin irritation. Wash hands thoroughly. Overheating or burning the sealant will produce fumes that may cause polymer fume fever. Avoid contamination of cigarettes or tobacco. Consult MSDS RAY5510 for further information.

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

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

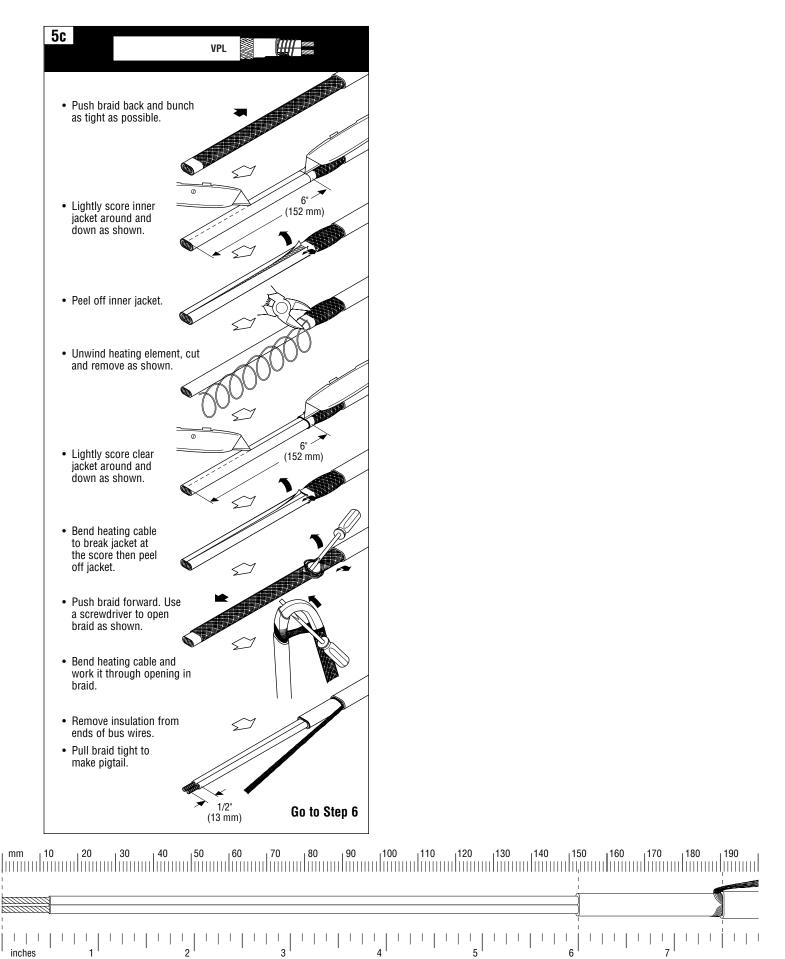


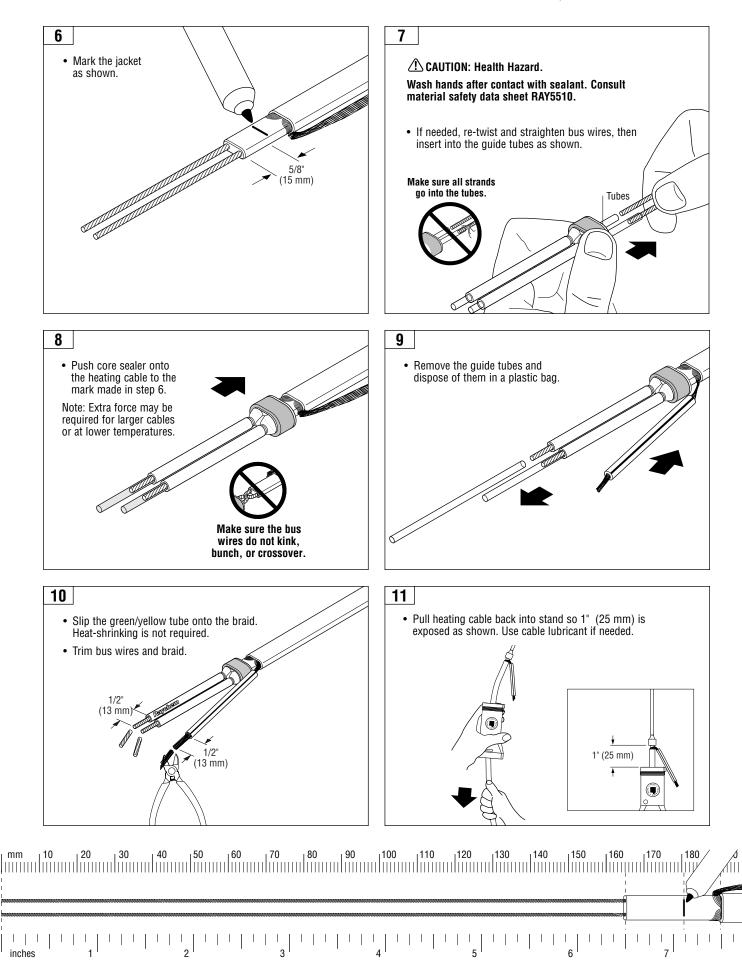


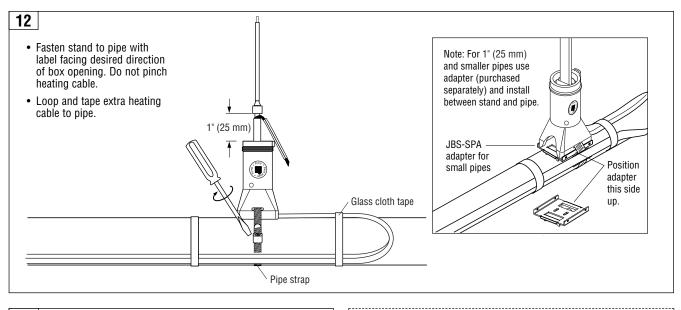


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JBS-100-A, A6 Installation Instructions

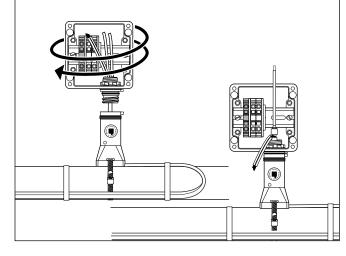


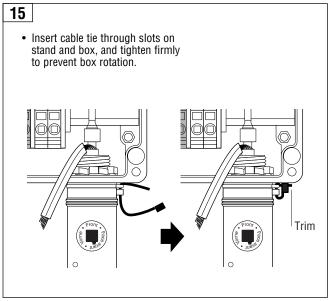




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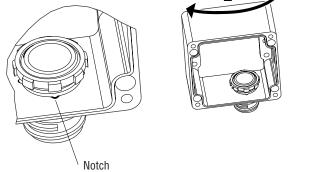
• Screw box onto stand until it stops. Do not overtighten.





### **14** (Optional) To change direction of box opening:

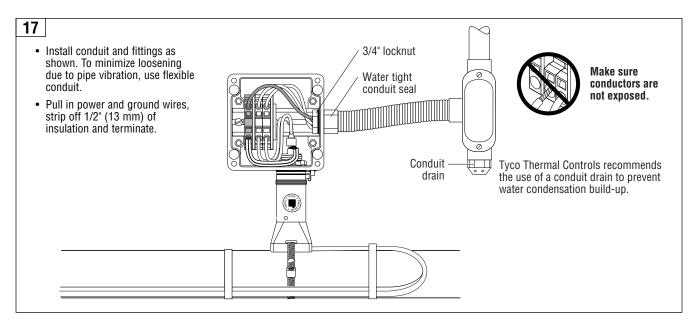
- · Loosen locknut.
- Lift box and rotate. Make sure tab on threaded piece fits into one of the four notches in box.
- Tighten locknut.

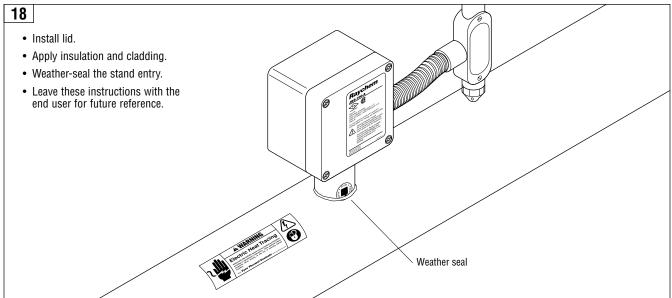


· Remove screwdriver.

# 16 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 $(\bigcirc)$ 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 $(\bigcirc)$ . 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. Wire Screwdriver slot Wire hole • Push screwdriver FIRMLY into square hole. · Insert wire into round hole. · Use green terminal for braid and ground wire.

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