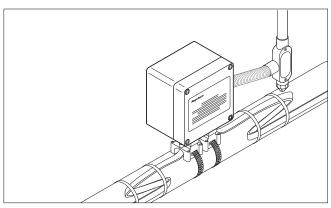


# **RAYCHEM**

# PMKG-J2LP

## Polymatrix Powered Splice Kit Installation Instructions



#### **APPROVALS**

#### **Hazardous Locations**



Class I, Div. 2, Groups B, C, D Class II, Div. 2, Groups F, G



Class I, Div. 2, Groups A, B, C, D Class II, Div. 2, Groups F, G Class III



Class I, Div. 2, Groups A, B, C, D Class II, Div. 2, Groups F, G For BTV and LBTV Heating Cable Systems Only

#### KIT CONTENTS

Qty	Description	
1	Junction box with lid	
2	Bases	
2	Red grommets	
2	Core sealers	
2	Tops (3/4 inch NPS thread)	
2	Green/yellow heat-shrinkable tubes	
2	Ring gaskets	
2	Locknuts	
1	Terminal block	
	1 2 2 2 2 2 2 2 2	

#### **DESCRIPTION**

The PolyMatrix nVent RAYCHEM PMKG-J2LP is a NEMA 4X rated connection kit for use with nVent RAYCHEM BTV-CR, BTV-CT, QTVR-CT, XTV-CT, KTV-CT and LBTV2-CT self-regulating heating cables.

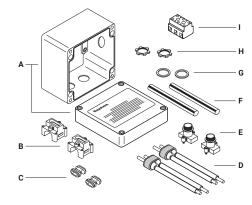
Materials for one powered splice are included in this kit. For technical support call nVent at (800) 545-6258.

#### **TOOLS REQUIRED**

- Screwdriver
- Needle-nose pliers
- · Wire cutters
- Utility knife
- Adjustable pliers
- · Heat gun or mini-torch (for LBTV2 only)

#### **ADDITIONAL MATERIALS REQUIRED**

- Pipe straps
- Tape
- GT-66 Installation temperature above 40°F (5°C)
- GS-54 Installation temperature above −40°F (−40°C)
- HCS-100-A (Required for LBTV2)
- Grommets (Required for KTV and LBTV2)



#### 

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 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 and 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 protection.
- 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.
- Keep components and heating cable ends dry before and during installation.

### **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 RAY/5510 for further information.

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

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

#### **Identify Heating Cable Type**

- This product is for use only with the following heating cables: BTV, QTVR, XTV, KTV and LBTV2 (-CR and -CT versions).
- · Do not use with monitor wire or any other heating cables.
- · Select correct grommet from chart on right.

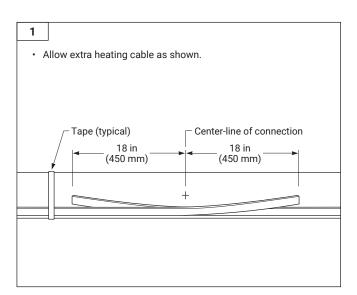


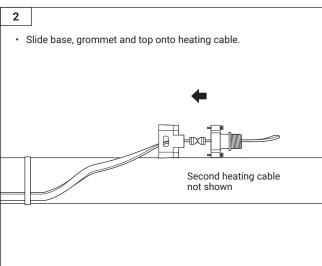
-CT or -CR heating cable with braid and outer jacket

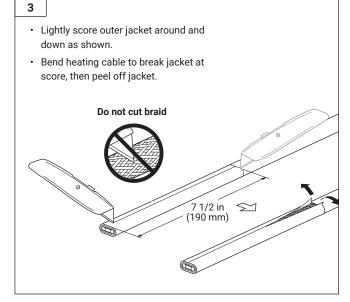
· For LBTV2 a separate heat-shrink core sealer is required. Order two HCS-100-A heat-shrink core sealers.

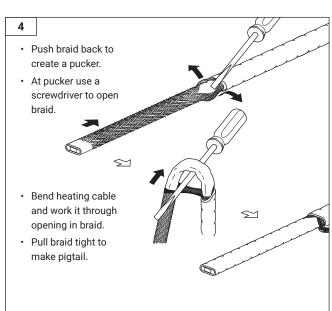
Heating Cable	Туре	Grommet
BTV, QTVR, XTV	-CR or -CT	RED
KTV	-CT	P*
LBTV2	-CT	K*
* Order separately		

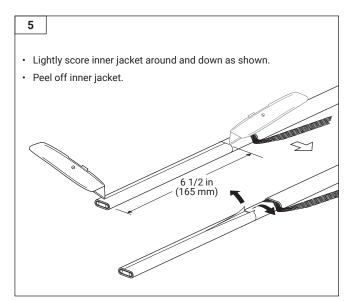
⚠ WARNING: Use of the wrong grommet can result in leaks, cracked components, shock or fire, and will invalidate approvals and certifications.



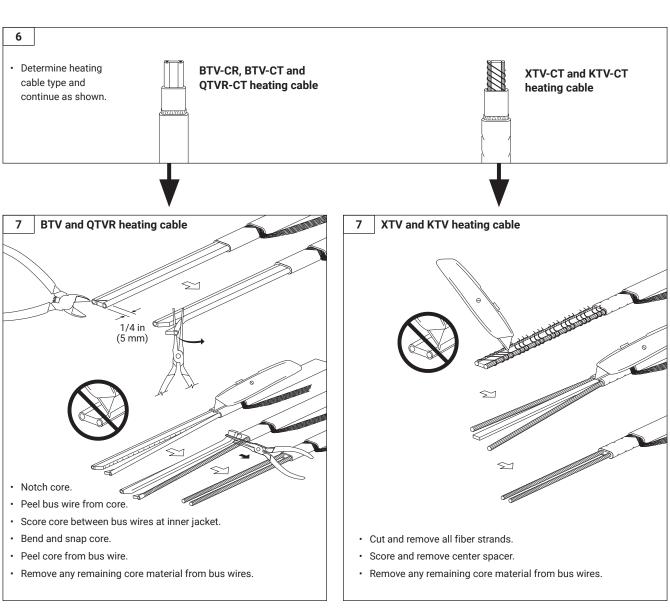


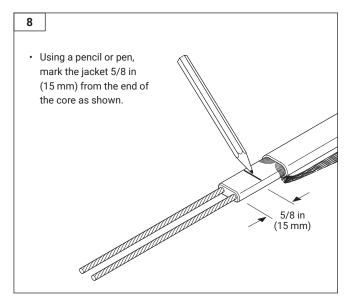


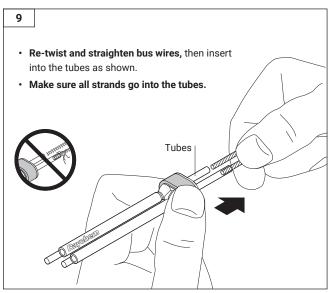


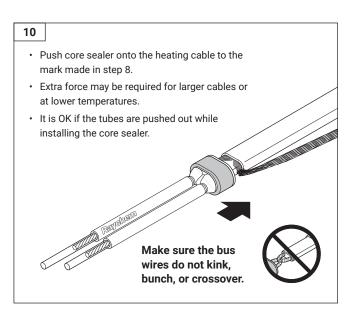


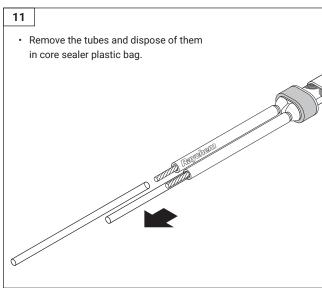
IMPORTANT: For LBTV2 heating cables omit Steps 6 through 12. Instead refer to installation instructions supplied with the HCS-100-A kit, then go to step 13.

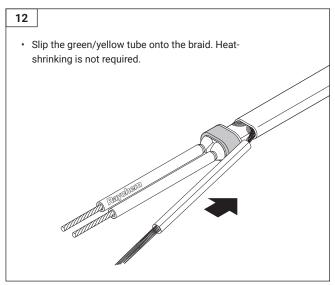


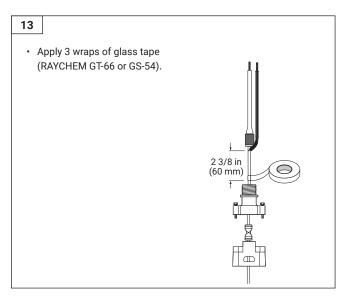


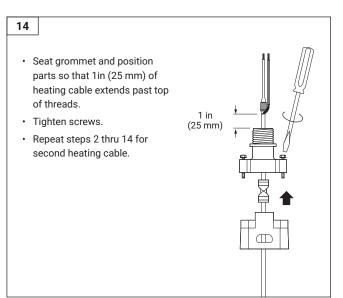


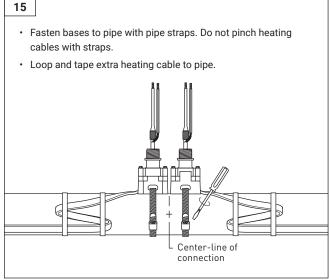


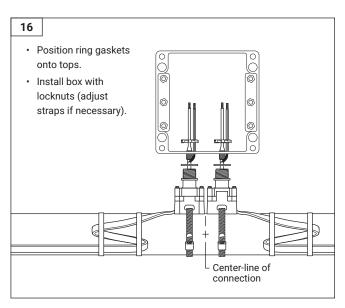


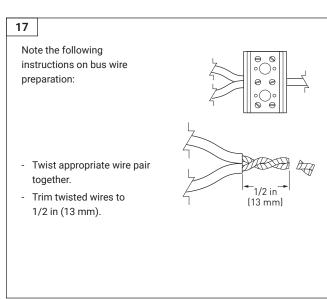


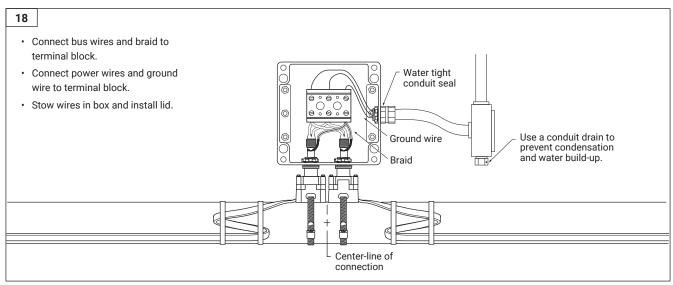












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