**PMK-HSE2**

**Low-Profile Heat-Shrinkable End Seal Kit**

### Installation Instructions

**Description**

The PMK-HSE2 is a NEMA 4X rated heat-shrinkable end seal kit for use with Raychem BTV-CR, BTV-CT and QTVR-CT parallel heating cables in nonhazardous and Division 2 hazardous locations. Materials for five end seals are included in the kit.

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

**Tools Required**

- Diagonal cutters
- Heat gun or mini-torch
- Utility knife
- Needle nose pliers

**Additional Materials Required**

- Tape:  
  - GT-66 for installation temperature above 40°F (4.4°C)
  - GS-54 for installation temperature above −40°F (−40°C)

### Approvals

**Hazardous Locations**

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

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**Kit Contents:**

<table>
<thead>
<tr>
<th>Item</th>
<th>Qty</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>5</td>
<td>Heat-shrinkable tubes 1-inch (25 mm)</td>
</tr>
<tr>
<td>B</td>
<td>5</td>
<td>Heat-shrinkable tubes 3-inch (75 mm)</td>
</tr>
</tbody>
</table>

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**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.
- Bus wires will short if they contact each other. Keep bus wires separated.
- 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 guns or torches can cause fire or explosion in hazardous areas. Be sure there are no flammable materials or vapors in the area before using these tools.
- Heat-damaged components can short. Use a heat gun or torch with a soft, yellow, low-heat flame. Keep the flame moving to avoid overheating, blistering, or charring the heat-shrinkable tubes. Replace any damaged end seals or heating cable.
- Leave these instructions with the end user for reference and future use.

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**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
PMK-HSE2 Installation Instructions

For use with BTV-CR, BTV-CT and QTVR-CT heating cables only.

1. Lightly score outer jacket around and down as shown. 
   • Bend the heating cable to break jacket at score then peel off jacket.

2. Push back braid to expose the inner jacket. Do not cut off the braid wires.
   • Cut off end of heating cable leaving 1-inch inner jacket.

3. Refer to Material Safety Data Sheet RAY3122.
   • Position short tube over end of heating cable as shown.
   • Heat tube until it shrinks and adhesive flows out ends.
   • While still hot, gently pinch end and hold for 5 seconds.
   • Allow tube and braid wires to cool completely.

4. Pull the braid over the recovered tube and twist the end.
   • Trim braid 1/4-inch from end of tube.
   • Smooth down any exposed, sharp, braid wire ends.

5. Refer to Material Safety Data Sheet RAY3122.
   • Slide long tube over the braid and outer jacket and position as shown.
   • Heat tube until it shrinks and adhesive flows out ends.
   • While still hot, gently pinch end and hold for 5 seconds.
   • Allow tube to cool completely.

6. Secure end seal to pipe with glass cloth tape.

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