Cold Shrink
Cable Accessory Sealing Kits

Instruction Sheet

ANSI C119.1

Kit Contents:
1 3M™ Cold Shrink Sealing Tube
3 Mastic Sealing Strips for 8452
3 Mastic Sealing Strips for 8452L
4 Mastic Sealing Strips for 8453
6 Mastic Sealing Strips for 8454
1 Instruction Sheet

Kit Selection Chart

<table>
<thead>
<tr>
<th>Kit Number</th>
<th>Minimum Seal Diameter</th>
<th>Maximum Installed Diameter</th>
<th>Cable Size (AWG or kcmil)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>15 kV</td>
</tr>
<tr>
<td>8452</td>
<td>0.95 in. (24 mm)</td>
<td>1.94 in. (49 mm)</td>
<td>2 – 4/0</td>
</tr>
<tr>
<td>8452L</td>
<td>0.95 in. (24 mm)</td>
<td>1.94 in. (49 mm)</td>
<td>2 – 4/0</td>
</tr>
<tr>
<td>8453</td>
<td>1.28 in. (33 mm)</td>
<td>2.67 in. (68 mm)</td>
<td>2/0 – 1000</td>
</tr>
<tr>
<td>8454</td>
<td>1.60 in. (41 mm)</td>
<td>3.50 in. (89 mm)</td>
<td>750 – 1500</td>
</tr>
</tbody>
</table>

Table 1

3M™ Cold Shrink
Cable Accessory Sealing Kits
for Jacketed Concentric Neutral (JCN) Cable

<table>
<thead>
<tr>
<th>Kit Number</th>
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<tbody>
<tr>
<td>8452</td>
<td></td>
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<tr>
<td>8452L</td>
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<td>8453</td>
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</tbody>
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78–8121–1116–5-B

CAUTION
Working around energized systems may cause serious injury or death. Installation should be performed by personnel familiar with good safety practice in handling electrical equipment. De-energize and ground all electrical systems before installing product.
A. Prepare Cable

1. Remove cable jacket.
   
   **NOTE #1:** When sealing accessory end and cable jacket end, the distance the jacket is removed should be in agreement with Elbow manufacturer’s (or other accessory) instructions. The exposed cable semi-con between the cable jacket end and the accessory end should be no more than 2 inches (50 mm).
   
   **NOTE #2:** When sealing cable jacket end only, remove jacket from cable end for a distance to allow installation of accessory plus additional distance as desired.

2. On the cable jacket, 1/2 inch (13 mm) from the jacket end, wrap 1 layer of mastic around the cable.
   
   **NOTE:** Do not stretch mastic when applying.

3. Bend the concentric wires back over the cable jacket end and individually press them onto the mastic.
   
   **NOTE:** Concentric wires should not touch each other when pressed into mastic.

4. Wrap a second mastic strip over the folded wires and previously applied mastic, pressing to fill voids.

5. Tightly overwrap the mastic and concentric wires with 3/4 inch (19 mm) wide vinyl tape for a distance of approximately 1 1/2 inch (40 mm).

6. Prepare the cable and install the connector per manufacturer’s instruction provided with the cable accessory.

7. Proceed to Installation Procedure B or C depending on what type of installation is chosen.
B. Installation Procedures To Seal Both Accessory End And Cable Jacket End

1. Slide the 3M™ Cold Shrink Cable Accessory Sealing Tube onto the cable. The tube end with the loose core end should go on first, away from the connector ①.

![Figure 5](image)

2. Install cable accessory per manufacturer’s instruction.

3. If surface irregularities exist in the seal area of the installed accessory, wrap a mastic strip around the end of the installed accessory ②. Over wrap mastic with two lapped layers of vinyl tape ③.

![Figure 6](image)

4. Position the Cold Shrink tube over the seal area ④ and remove the core by unwinding the loose core end counter-clockwise.

   **TIP:** An occasional tug on the core end will aid in its removal.

![Figure 7](image)

5. Connect concentric wire to cable accessory per accessory manufacturer’s instruction.

![Figure 8](image)
C. Installation Procedures To Seal Cable Jacket End Only

1. Wrap two lapped layers of mastic around cable semi-con, 2 1/2 inch (63 mm) from folded neutral wires ①. DO NOT STRETCH MASTIC WHEN APPLYING. Over wrap mastic with two lapped layers of vinyl tape ②.

2. Slide 3M™ Cold Shrink Cable Accessory Sealing Tube onto the cable. The Tube end with the loose core end should go on first, away from cable end ③.

3. Position the Cold Shrink tube over the seal area and remove the core by unwinding the loose core end counter-clockwise.

   TIP: An occasional tug on the core end will aid in its removal.

4. Install cable accessory per manufacturer’s instruction.

5. Connect concentric wire to cable accessory per accessory manufacturer’s instruction.
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