For In-Line Splice Connection, T-Splice Connection, or End Termination Applications

PCS-COM
In-line and T-Splice Kit
INSTALLATION PROCEDURES
for FLX, HSX
For In-Line Splice Connection, T-Splice Connection, or End Termination Applications

Thermon Manufacturing Co.
100 Thermon Dr., San Marcos, Texas 78666
1-800-730-4328 PN 27400
PCS-COM In-line and T-Splice Kit

The following installation procedures are suggested guidelines for the installation of Thermon’s PCS-COM connection systems. They are not intended to preclude the use of other methods and good engineering or field construction practices.

Receiving, Storing and Handling . . .
1. Inspect materials for damage incurred during shipping.
2. Report damages to the carrier for settlement.
3. Identify parts against the packing list to ensure the proper type and quantity has been received.
4. Store in a dry location.

Kit Contents . . .

<table>
<thead>
<tr>
<th>Item</th>
<th>Quantity</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1</td>
<td>Expediter Assembly</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Splice cap</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Grommet</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Expediter Base</td>
</tr>
<tr>
<td>2</td>
<td>1</td>
<td>Caution Label</td>
</tr>
<tr>
<td>3</td>
<td>1</td>
<td>UL Label</td>
</tr>
<tr>
<td>4</td>
<td>3</td>
<td>Splice Connection Boots</td>
</tr>
<tr>
<td>5</td>
<td>2</td>
<td>End Cap ET-6 (FLX-OJ and HSX Cable)</td>
</tr>
<tr>
<td>6</td>
<td>2</td>
<td>End Cap ET-8 (FLX-BC Cable)</td>
</tr>
<tr>
<td>7</td>
<td>3</td>
<td>Wire Nut</td>
</tr>
<tr>
<td>8</td>
<td>2</td>
<td>RTV Tube</td>
</tr>
<tr>
<td>9</td>
<td>1</td>
<td>12/10 AWG Splice Lug</td>
</tr>
<tr>
<td>10</td>
<td>2</td>
<td>8 AWG Lug Butt Splice</td>
</tr>
<tr>
<td>11</td>
<td>1</td>
<td>12 AWG Green Ground Wire</td>
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</tbody>
</table>

Dimensions . . .

- 36mm (1.44”)
- 47mm (1.85”)
- 96mm (3.80”)

Installation Precautions . . .
- To minimize the potential for arcing and fire caused by product damage or improper installation use ground-fault protection. The National Electrical Code (NEC) and Canadian Electrical Code (CEC) require ground-fault protection of equipment for each branch circuit supplying electric heat tracing.
- Installation must comply with Thermon requirements and be installed in accordance with the NEC, CEC, or any other applicable national and local codes.
- Component approvals and performance ratings are based on the use of Thermon specified parts only. User supplied power connection fittings must be listed or certified for intended use.
- De-energize all power sources before opening enclosure.
- Keep ends of heating cable and kit components dry before and during installation.
- The kit instructions should be used in conjunction with the installation instructions for the heating cable and other accessory items.

Certifications/Approvals . . .

UL Listed

Tools Required . . .

- Screwdriver
- Pliers
- Wire strippers
1.1a. For one, two or three cables. Insert cable into expediter, grommet.

1.1b. Two cables.

1.1c. Three cables.

1.2. Slide expediter toward pipe and secure using two (2) circumferential bands of 19mm (3/4") wide tape.

1.3. Place UL® label provided as shown, locate on opposite side from rectangular side opening.

1.4. Cut and remove heating cable overjacket. **Do not cut bus metallic braid.**

1.5. Separate braid strands at edge of overjacket and pull cable through opening.

1.6. Twist braid into a pigtail. Trim ends of braid.
1.1. Gently score the aluminium foil layer and peel away. (HSX cables only).

1.2. Trim ends of braid. Gently score the aluminium foil layer (HSX cable only) and peel away.

1.3. Apply a liberal amount of RTV sealant to cable and inside end cap. Slide end cap onto end of cable. For FLX-OJ or HSX proceed to Step 5.1 on page 6.
3.1. Separate braid strands at edge of overjacket and pull cable through opening.

3.2. Trim braid to approximately 76mm (3’). Crimp 12/10 AWG compression lug to ground braid and ground lead.

3.3. Feed cable and ground through expediter base as shown. Feed cable and ground lead through grommet (above the crimp).

3.4. Slide expediter toward pipe and secure using two (2) circumferential bands of 19mm (3/4”) wide tape.

3.5. Place UL® label provided as shown, locate on opposite side from rectangular side opening.

3.6. Cut and remove primary insulation jacket.

3.7. Skive outside of black matrix.


⚠️ Do not cut bus wire strands.
3.9. Apply a liberal amount of RTV sealant to cable.

3.10. Slide boot onto the end of the cable.

4.1. Slide the metallic braid back from the end of the cable and cut off 38mm (1.5") of cable.

4.2. Apply RTV sealant liberally over the end of the cable and inside the end cap.

4.3. Slide the end cap onto the cable.

4.4. Slide the metallic braid over the end cap. Twist the ends of the metallic braid together.

4.5. Slide 8 AWG crimp connector over end of braid, then crimp to secure braid.

6. Install splice cap using 4 captive screws.

7. Installation Complete
Cable Take-off for FLX and HSX

For Power Connection Boot Termination

For End Cap Termination

Specifications and information subject to change without notice.