1.0 SCOPE
This specification consists of installation instructions for the Self Contained Power Connector for 2-wire cable with ground applications.

2.0 PURPOSE
To define material number system for the above instructions.

3.0 REFERENCE MATERIAL NUMBERS
See pages 2-4 for the actual instruction sheets. These pages can be used as originals.

4.0 DEFINITIONS
Not applicable.

5.0 PROCEDURES
Place one (1) instruction sheet in the smallest unit container.

6.0 IMPLEMENTATION
December 6, 2005
Self Contained Power Connector Installation Instructions
For 2 Wire Cable With Ground Applications

The 2-circuit-with-ground connectors will splice non-metallic-sheathed cable in the following wire ranges and types:

**Self Contained Connector -**

2 Circuit with ground for Solid Wire & Stranded Wire

<table>
<thead>
<tr>
<th>Wire Range</th>
<th>Order No.</th>
<th>Optional Hand Tool</th>
<th>Optional Bench Mount Tool</th>
<th>Optional Bench Arbor Press</th>
<th>Housing Color</th>
</tr>
</thead>
<tbody>
<tr>
<td>10 AWG</td>
<td>19403-0300</td>
<td>19285-0084</td>
<td>64006-0200</td>
<td>White</td>
<td></td>
</tr>
</tbody>
</table>

Reference Information
UL File Number: E217798 & E196349
NEC Article: 550, 551, and 545, HUD Section: 3280.801
10 AWG Version, 30A, 300V

**Self Contained Connector -**

2 Circuit with ground for Round Stranded Cable

<table>
<thead>
<tr>
<th>Wire Range</th>
<th>Insulation Diameter</th>
<th>Order No.</th>
<th>Optional Hand Tool</th>
<th>Optional Bench Arbor Press</th>
<th>Housing Color</th>
<th>Cover Color</th>
</tr>
</thead>
<tbody>
<tr>
<td>14-16</td>
<td>14-16</td>
<td>19403-1010</td>
<td>19285-0074</td>
<td>N/A</td>
<td>64006-0200</td>
<td>Blue</td>
</tr>
<tr>
<td>12</td>
<td>14-16</td>
<td>19403-1010</td>
<td>19285-0074</td>
<td>N/A</td>
<td>64006-0200</td>
<td>Yellow</td>
</tr>
</tbody>
</table>

Reference Information
UL File Number: E182087 Vol 2, CSA File Number: LR18689-C53
NEC Article: 550, 551, and 545, HUD Section: 3280.801
16 to 12 AWG Version, Current: 15-20A, Voltage: 600V

Installation Procedure:
1. Carefully strip and prepare the wires to the configuration as shown in Figure 1.

<table>
<thead>
<tr>
<th>WIRE SIZE</th>
<th>“A” In.</th>
<th>“B” In.</th>
</tr>
</thead>
<tbody>
<tr>
<td>10 AWG</td>
<td>1.95</td>
<td>.96</td>
</tr>
<tr>
<td>12 AWG</td>
<td>1.0</td>
<td>1.0</td>
</tr>
<tr>
<td>14 AWG</td>
<td>1.0</td>
<td>1.0</td>
</tr>
<tr>
<td>16 AWG</td>
<td>1.0</td>
<td>1.0</td>
</tr>
</tbody>
</table>
2. Position the clear cover (bottom facing upward) as shown in Figure 2. (Cover for 4 latch 10 AWG connector shown).

3. Position wires into locator slots. Be certain to place the black wire in the slot marked BLK, green or bare wire in slot marked GRD, and the white wire in the slot marked WHT. Upon final positioning of all wires, be certain the end of the cable jacket is rolled into the integral strain relief slot and is a minimum of .06" past the second strain relief rib as shown in Figure 2.

4. For connectors with 4 latches, position the housing assembly over the cover with the ribs in the housing aligned between the latches as shown in Figure 3A. Then push the two halves together until the locking tabs engage as shown in Figure 4A. For the hinged connectors, position the hinge pins on the housing assembly into the mating holes in the cover as shown in Figure 3B. Then press down until both lock into place as shown in Figure 4B.

5. Close the strain relief cover and housing by hand. Place assembly into Molex tool as shown in Figure 5 for connector with 4 latches or Figure 6 for the hinged connector. Squeeze the tool until the connector bottoms out and the locking latches engage on both sides. OR alternately, squeeze the top and bottom closed with tongue and groove (slip joint) pliers as shown in Figure 7 (Hinged connector assembly shown). Pliers must be a minimum of 10" long. Squeeze firmly on both sides, squarely across the connector between ribs A and B to ensure wires seat completely into slots.
6. Inspect the connector to ensure the wires have been properly engaged into the housing assembly contacts. A properly terminated wire is fully seated into its proper slots with no significant bow of the cover. If the wires extend past the insulation stops, the wires must be re-terminated with a NEW CONNECTOR. Once the cover has been closed the connector cannot be re-used. Failure to comply with this procedure may result in the failure of the connector.

7. Mating and un-mating the completed connector is illustrated in Figure 7.