200 A 15 kV class insulated protective cap

**General**
Eaton’s Cooper Power™ series insulated protective cap is an accessory device designed to electrically insulate and mechanically seal loadbreak bushing interfaces. When mated to a loadbreak product and the drain wire is attached to ground, the insulated protective cap provides a fully shielded, submersible insulating cover for energized bushings. The cap can be used for permanent or temporary installation on bushings, junctions or feedthru devices that meet the requirements of IEEE Std 386™-2006 standard.

**Installation**
No special tools are required. A shotgun stick tool is used to place the protective cap on an exposed bushing interface. Refer to Service Information S500-21-1 200 A 15, 25, and 35 kV Class Insulated Protective Cap Installation Instructions for details.

**Production tests**
Tests are conducted in accordance with IEEE Std 386™-2006 standard.
- AC 60 Hz 1 Minute Withstand
  - 34 kV
- Minimum Corona Voltage Level
  - 11 kV
Tests are conducted in accordance with Eaton requirements.
- Physical Inspection
- Periodic Dissection
- Periodic Fluoroscopic Analysis
**Features and detailed description**

- **EPDM INSULATION**
  High quality peroxide cured EPDM insulation is mixed and formulated in-house for complete control of insulating rubber characteristics.

- **SEMI-CO誶DUCTIVE SHIELD**
  Molded semi-conductive EPDM shield meets requirements of ANSI/IEEE Standard 592.

- **PROBE**
  Probe provides reliable conductive path with mating female contacts.

- **SEMI-CO誶DUCTIVE INSERT**
  Semi-conductive insert is molded of semi-conductive EPDM and controls electrical stresses at nose of mating loadbreak product.

- **PULLING EYE**
  Stainless steel reinforced pulling eye ensures high strength for shotgun stick operation.

- **GROUNDING WIRE AND GROUNDING EYE**
  48-inch, #14 AWG stranded copper ground wire is tin plated and ensures dead-front construction when tied off to ground.

- **GROUNDING EYE** (Optional for larger grounding wire)

- **LATCHING RING**
  Semi-conductive molded locking ring locks cap onto nose piece of mating interface.

- **GROUNDING WIRE AND GROUNDING EYE**

Figure 1. Illustration shows construction of insulated protective cap.

Figure 2. 15 kV insulated protective cap profile and stacking dimensions.

<table>
<thead>
<tr>
<th>Description</th>
<th>kV</th>
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</thead>
<tbody>
<tr>
<td>Standard Voltage Class</td>
<td>15</td>
</tr>
<tr>
<td>Maximum Rating Phase-to-Phase</td>
<td>14.4</td>
</tr>
<tr>
<td>Maximum Rating Phase-to-Ground</td>
<td>8.3</td>
</tr>
<tr>
<td>AC 60 Hz 1 Minute Withstand</td>
<td>34</td>
</tr>
<tr>
<td>DC 15 Minute Withstand</td>
<td>53</td>
</tr>
<tr>
<td>BIL and Full Wave Crest</td>
<td>95</td>
</tr>
<tr>
<td>Minimum Corona Voltage Level</td>
<td>11</td>
</tr>
</tbody>
</table>

Voltage ratings and characteristics are in accordance with IEEE Std 386™-2006.

**Ordering information**

To order the 15 kV Class Insulated Protective Cap Kit, refer to Table 2.

**Table 2. Insulated Protective Cap Kit**

<table>
<thead>
<tr>
<th>Description</th>
<th>Catalog Number</th>
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<tbody>
<tr>
<td>Protective Cap</td>
<td>LPC 215</td>
</tr>
</tbody>
</table>

Each kit contains:
- Protective Cap with stranded copper ground wire
- Silicone Lubricant
- Installation Instruction Sheet