

200 A 35 kV class insulated protective cap



General

Eaton's Cooper Power Systems 200 A, 35 kV insulated protective cap meets the full requirements of IEEE Std 386™-2006 standard—Separable Insulated Connector Systems, and provides an insulated, fully shielded submersible cover for an energized 35 kV Class loadbreak interface. The molded peroxide-cured EPDM semi-conductive shield maintains ground potential on the cap's surface when the drain wire is attached to a grounding lug. The protective cap is required for temporary or permanent installation on 21.1 kV and 21.1/36.6 kV loadbreak bushings, portable feedthru junctions, and other accessories having interfaces that conform to IEEE Std 386™-2006 standard (200 A loadbreak interface No. 1, 21.1 kV and 21.1/36.6 kV).

Installation

No special tools are required. A clampstick tool is used to place the protective cap on an exposed bushing. Refer to Installation Instruction Sheet S500-65-1 for details.

Production tests

Tests conducted in accordance with IEEE Std 386™-2006 standard.

- ac 60 Hz 1 Minute Withstand
 - 50 kV
- Minimum Corona Voltage Level
 - 26 kV

Tests conducted in accordance with Eaton's Cooper Power Systems requirements.

- Physical Inspection
- Periodic Dissection
- Periodic X-ray Analysis

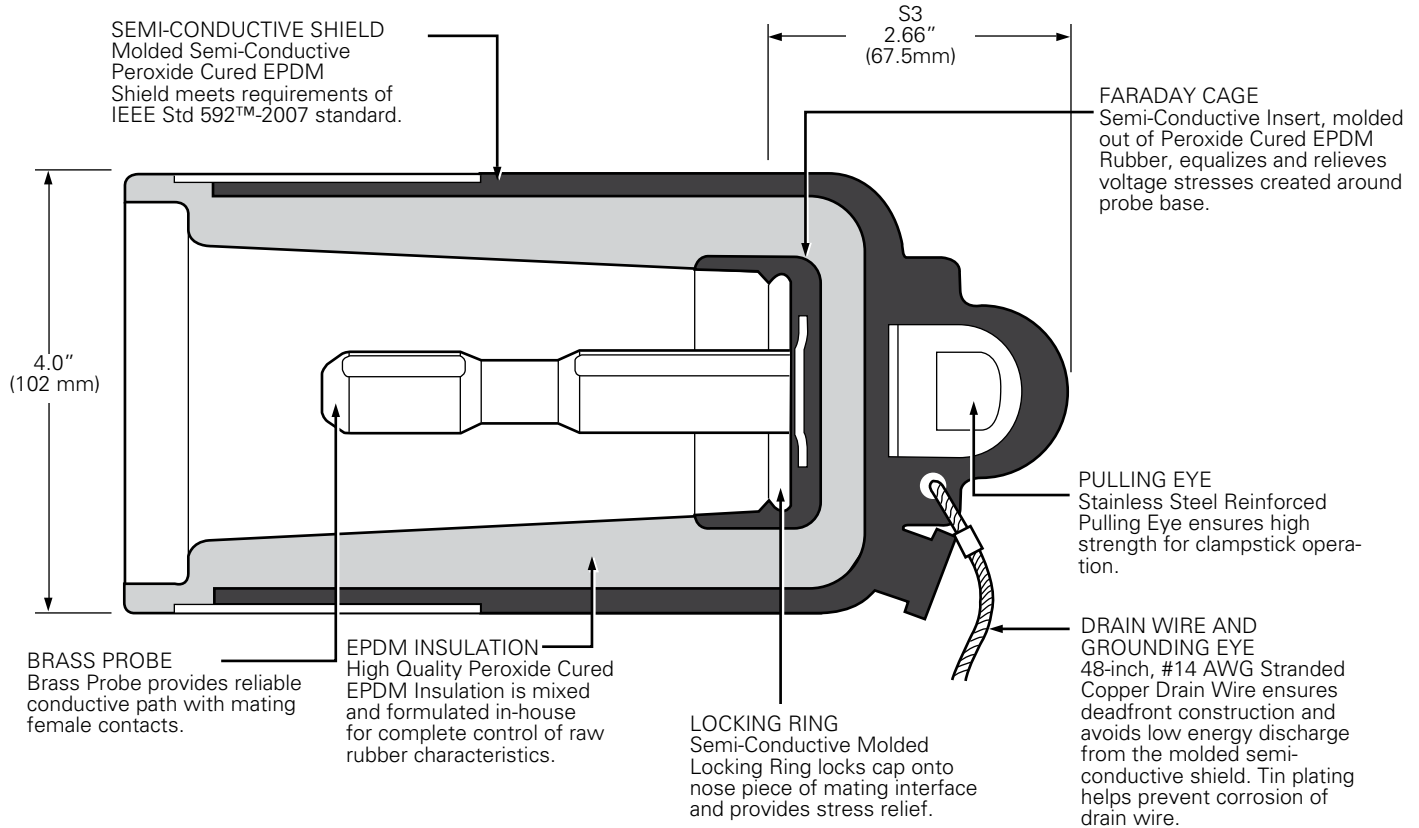


Figure 1. Cutaway drawing shows design integrity and stacking dimensions.

Note: Dimensions given are for references only

Table 1. Voltage Ratings and Characteristics

Description	kV
Standard Voltage Class	35
Maximum Rating Phase-to-Phase	36.6
Maximum Rating Phase-to-Ground	21.1
ac 60 Hz 1 Minute Withstand	50
dc 15 Minute Withstand	103
BIL and Full Wave Crest	150
Minimum Corona Voltage Level	26

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

Ordering information

To order the 35 kV Insulated Protective Cap Kit, refer to Table 2.

Table 2. Protective Cap Kit

Description	Catalog Number
Protective Cap	LPC235

For a Protective Cap Kit individually packaged in a corrugated cardboard box, insert an "X" as the last character in the part number. Example: LPC235X.

Each kit contains:

- Protective Cap with Copper Drain Wire
- Silicone Lubricant
- Installation Instruction Sheet

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For Eaton's Cooper Power Systems insulated protective cap product information call 1-877-277-4636 or visit: www.cooperpower.com.