



# Industrial Insulated Protective Cap

200 A

15 kV Class

5810 Series

## Installation Instructions

### 1.0 General

The 3M™ Industrial 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 ANSI/IEEE Standard 386.



**CAUTION:** The 200 ampere insulated protective cap should be installed, operated and serviced only by personnel familiar with good safety practice in handling high-voltage electrical equipment. Be sure that the insulated protective cap is rated for the intended application before it is installed.

#### Selection Chart

Product No.	Bushing Voltage Rating
5810-PC-15	15 kV

### 2.0 Installation

#### 2.1 Grounding

- Always attach drain wire to system ground bus (Figure 1).

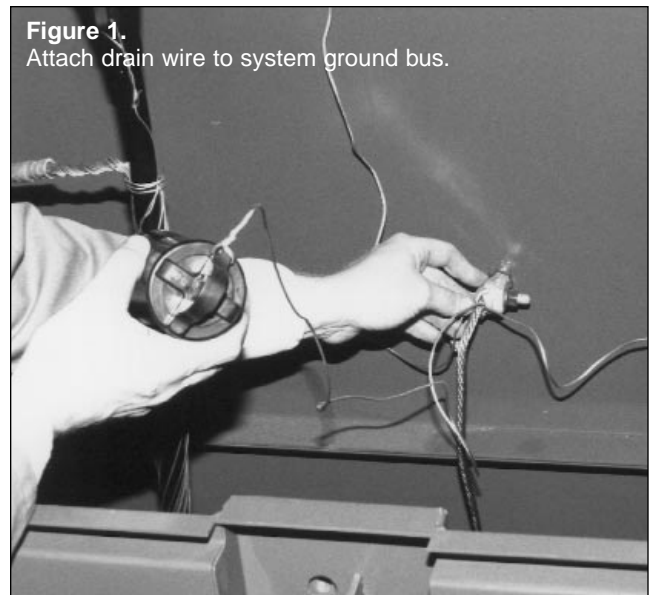
#### 2.2 Clean and Lubricate



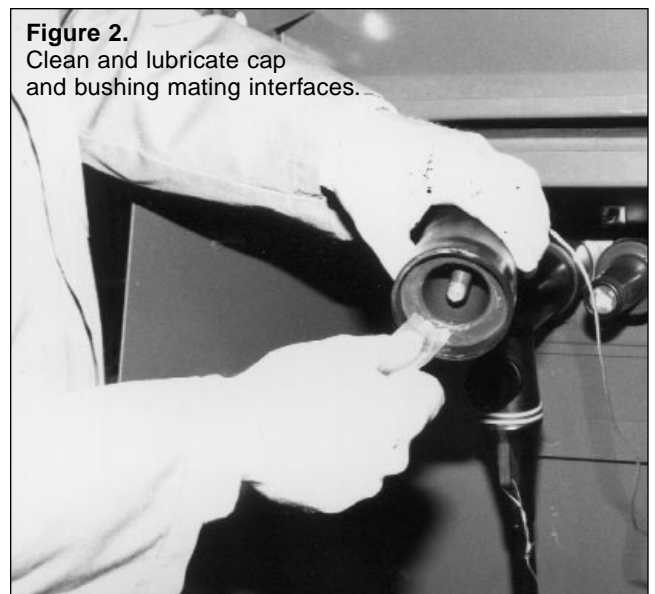
**CAUTION:** Drain wire **MUST** be attached to system ground to maintain a deadfront installation and to assure the absence of a capacitance build-up within the cap.

- Clean and lubricate interface surface of insulated protective cap. Mating loadbreak bushing must also be cleaned and lubricated (Figure 2).
- Use lubricant supplied or approved equivalent.

**Figure 1.**  
Attach drain wire to system ground bus.



**Figure 2.**  
Clean and lubricate cap and bushing mating interfaces.

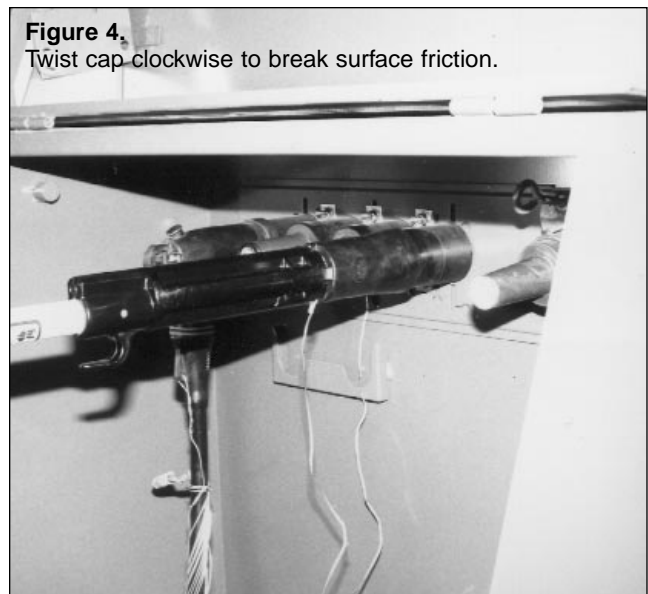
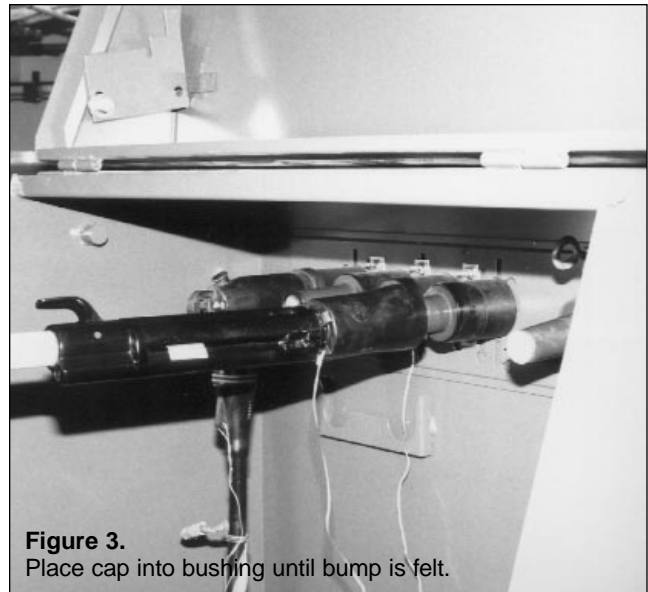


### 2.3 Install

- Grasp insulated protective cap eye with shotgun stick. Position tip of probe into end of loadbreak bushing.
- Slowly insert protective cap onto bushing until a slight bump is felt (Figure 3).
- Maintaining a firm grasp on the shotgun stick, thrust the cap the rest of the way onto the bushing.
- Be sure the cap's internal retaining ring latches when cap is installed.

### 3.0 Removal

- Grasp insulated protective cap's operating eye with a shotgun stick.
- Twist the shotgun stick clockwise to break any surface friction (Figure 4).
- Withdraw cap from bushing with a quick, even tug.



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#### IMPORTANT NOTICE

Before using this product, you must evaluate it and determine if it is suitable for your intended application. You assume all risks and liability associated with such use.

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