

600 A 35 kV Class Insulated Protective Cap

DESCRIPTION

The RTE® Components 600 A, 35 kV Class Insulated Protective Cap meets the full requirements of ANSI/IEEE Standard 386—Separable Insulated Connector Systems, and provides an insulated, fully shielded submersible protection for energized 35 kV Class deadbreak interfaces. The cap is required for temporary or permanent installation on 35 kV deadbreak bushings, junctions and other accessories having interfaces that conform to ANSI/IEEE Standard 386.

The cap design includes a semi-conducting EPDM insert for stress relief and high quality peroxide cured EPDM insulation. The molded EPDM semi-conducting shield maintains ground potential on the cap's surface when the ground wire is connected to a common ground.

INSTALLATION

No special tools are required. A hot-stick tool is used to place the protective cap on a de-energized bushing. Refer to Installation Instruction Sheet 5000050606 for details.

PRODUCTION TESTS

Tests are conducted in accordance with ANSI/IEEE Standard 386.

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

Tests are conducted in accordance with RTE Components requirements. Physical Inspection Periodic Dissection Periodic Fluoroscopic Analysis



Figure 1. Standard Insulated Protective Cap with ground wire.



Figure 2. U-OP™/T-OP™ II Insulated Protective Cap with drain wire.

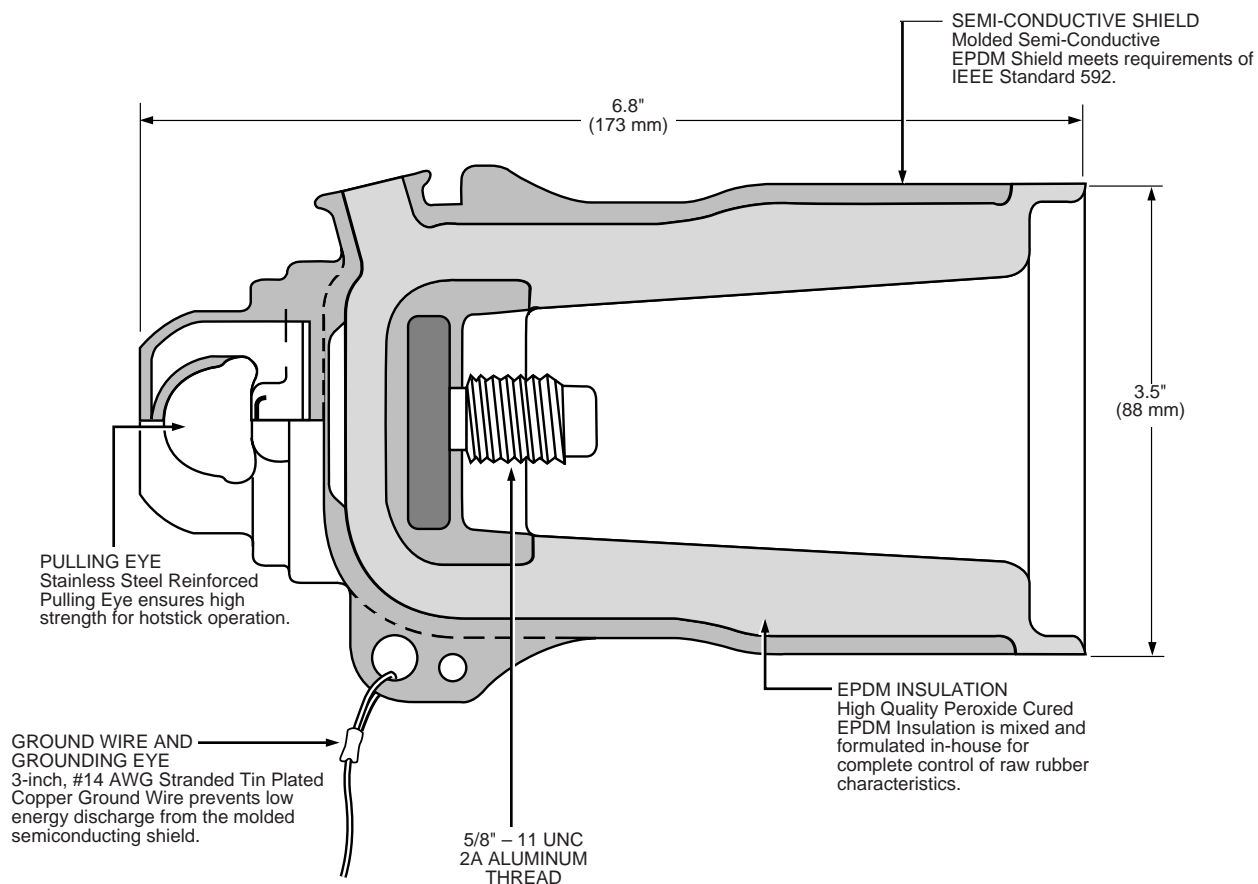


Figure 3.
Insulated Protective Cap cutaway shows design characteristics and dimensions.

NOTE: Dimensions given are for reference only.

TABLE 1
Voltage Ratings and Characteristics

Description	kV
Standard Voltage Class	35
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 ANSI/IEEE Standard 386.

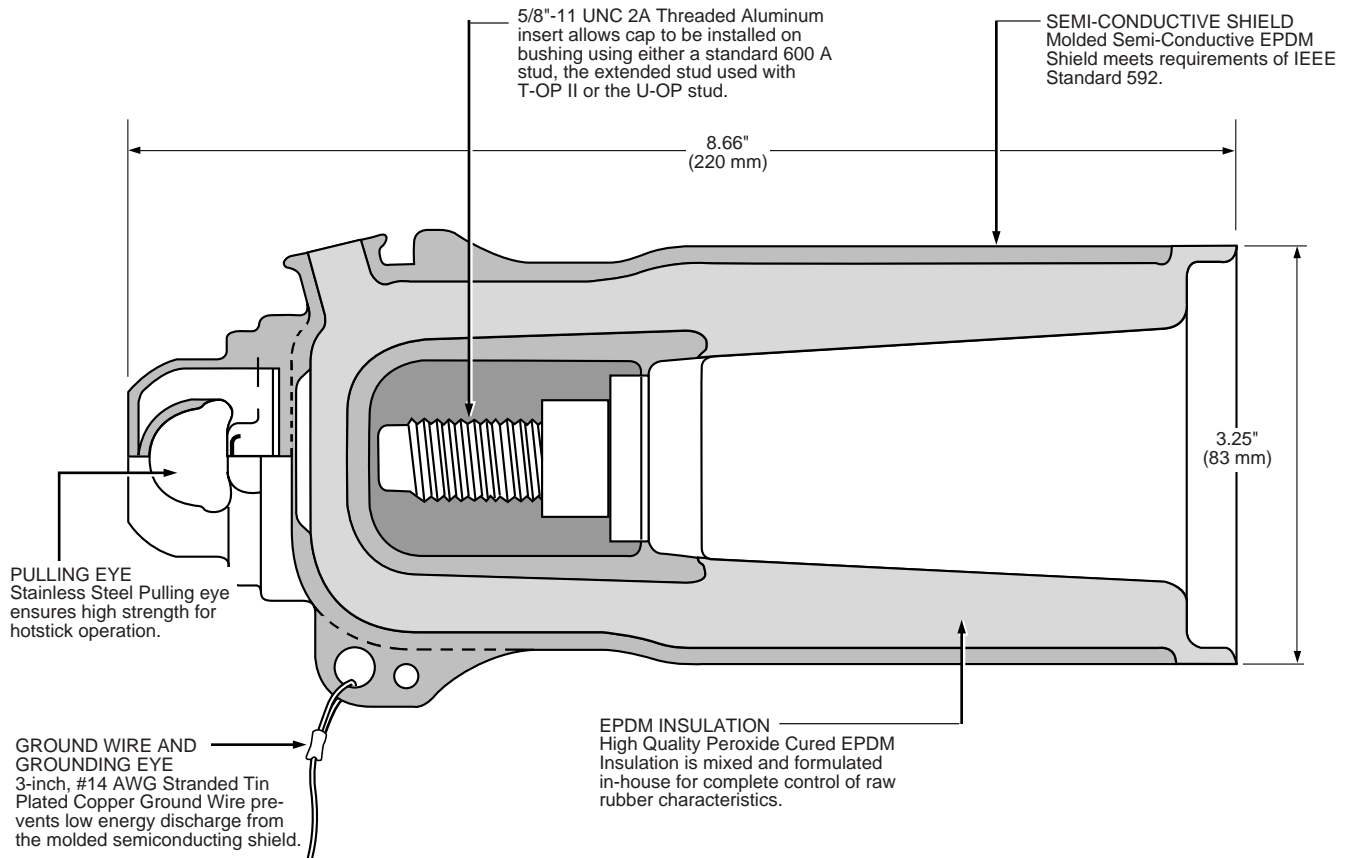


Figure 4.
U-OP/T-OP II Cap cutaway shows design characteristics and dimensions.

NOTE: Dimensions given are for reference only.

ORDERING INFORMATION

To order an RTE Components 35 kV Class Protective Cap Kit, refer to Table 2.

TABLE 2
Protective Cap Kits

Description	Catalog Number
Standard Cap with drain wire (See Figure 3) with permanent studs	DPC635
U-OP/T-OP II Cap with drain wire (See Figure 4) without stud	DPC635UT

Each kit contains

- Protective Cap
- Silicone Lubricant
- Installation Instruction Sheet

Cooper Power Systems

ISO 9001-1994



Cert. # 003945

Olean, N.Y.

©1997 Cooper Power Systems, Inc.
RTE® is a registered trademark of Cooper Industries, Inc.
T-OP™ II and U-OP™ are trademarks of Cooper Industries, Inc.

COOPER Power Systems

P.O. Box 1640
Waukesha, WI 53187
www.cooperpower.com