

## 600 A 35 kV Class Standoff Bushings

Electrical Apparatus

# 600-64

### GENERAL

The RTE Components 600 A, 35 kV Insulated Standoff Bushing meets the full requirements of ANSI/IEEE 386— Separable Insulated Connector Systems, and provides a single deadbreak interface made of high quality insulating epoxy material. It is used in padmount cabinets, underground vaults and other apparatus to isolate and sectionalize an energized cable.

Temporary or permanent parking of energized 600 A 35 kV dead-break connectors that conform to ANSI/IEEE Standard 386 is simplified with the use of insulated standoff bushings.

The Insulated Standoff Bushing is designed to be installed in the parking stand mounted on a transformer or other apparatus. A grounding lug is provided on the standoff bracket for attachment of a ground wire to ensure deadfront construction. The bushing provides a fully-shielded, submersible connection for dead-break operation.

The RTE Components 600 A, 35 kV Grounded Standoff Bushing is designed to be installed in the parking stand bracket mounted on the transformer or other apparatus.

A 2/0 AWG Copper, 5-foot jacketed cable is connected to the all-aluminum bushing for attachment to system ground. The bushing provides a fully visible ground and submersible connection for temporary or permanent parking of 600 A dead-break connectors that conform to ANSI/IEEE Standard 386.

All standoff bushing brackets have a stainless steel eyebolt with a brass pressure foot. The bushing body is bolted to a stainless steel base bracket using a stainless steel bolt. Special pins ensure firm location of the bushing on the bracket.

### INSTALLATION

A hotstick tool is used to place the standoff bushing in the parking stand on the front plate of the apparatus. Special tools are required to thread de-energized 600 A connectors onto the standoff bushing.



**Figure 1.** Insulated Standoff Bushing with mounting bracket, eyebolt and grounding lug.

Refer to the appropriate connector catalog section for further clarification. Refer to Installation Instruction Sheet 5000050605 for complete installation details on the insulated standoff bushing. For installation of the grounded standoff bushing, refer to Installation Instruction Sheet 5000050541 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

**TABLE 1**  
Voltage Ratings and Characteristics

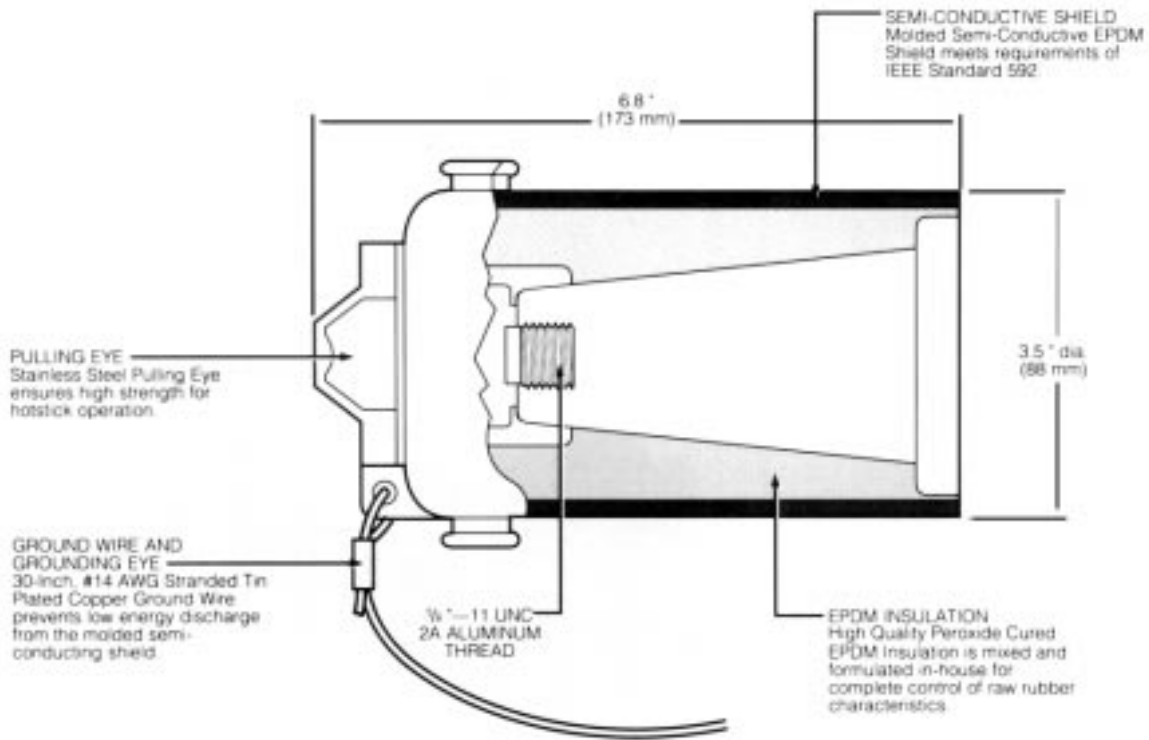
Description	kV
Standard Voltage Class	35
Maximum Rating Phase-to-Ground	21.1
ac 60 Hz 1 Minute Withstand	50
dc 15 Minute Withstand	103
BIL and Full Wave Crest	150
Minimum Corona Voltage Level	26

Voltage ratings and characteristics are in accordance with ANSI/IEEE Standard 386.

**TABLE 2**  
Current Ratings and Characteristics

Description	Amperes
Short Time	25,000 A rms symmetrical for 0.17 s

Current ratings and characteristics are in accordance with ANSI/IEEE Standard 386.



**Figure 2.**  
**Insulated Protective Cap cutaway shows design characteristics and dimensions.**

NOTE: Dimensions given are for reference only.