

Loadbreak Apparatus Connectors

200 A 25 kV Class Insulated Standoff Bushing

Electrical Apparatus

500-40

GENERAL

The Cooper Power Systems 200 A, 25 kV Insulated Standoff Bushing meets the full requirements of IEEE Std 386™ standard — Separable Insulated Connector Systems and provides a single loadbreak interface made of high quality peroxide-cured EPDM rubber. It is used to isolate and sectionalize energized cable in pad-mounted cabinets, underground vaults, and other apparatus. Temporary or permanent parking of energized 200 A, 15.2/26.3 kV loadbreak elbow connectors that conform to IEEE Std 386™ standard is simplified with use of the insulated standoff bushing.

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 bushing bracket for attachment of a drain wire to ensure deadfront construction. When mated with a comparably rated product, the insulated standoff bushing provides a fully-shielded, submersible, separable connector for energized operation.

The standard insulated standoff bushing has a stainless steel eyebolt with a brass pressure foot. The molded peroxide-cured EPDM rubber body is bolted to a stainless steel base bracket using a galvanized steel holddown ring. A completely stainless steel bracket assembly is available for extremely corrosive environments.

Cooper's latch indicator ring, located on the circumference of the bushing's collar, eliminates the guesswork of loadbreak elbow installation on the standoff bushing. The bright yellow ring provides immediate feedback to determine if the elbow is properly installed on the bushing. If the yellow ring is completely covered by the loadbreak elbow, it is fully "latched," if the ring is visible, the elbow can be installed correctly before any problems can occur.

INSTALLATION

No special tools are required. A hotstick tool is used to place the standoff bushing in the parking stand on the front plate of the apparatus. Refer to Installation Instruction Sheet S500-22-1 (5000050573) for details.



Figure 1. Standoff Bushing has molded peroxide-cured EPDM rubber body, stainless steel eyebolt with brass pressure foot, and stainless steel base bracket.

PRODUCTION TESTS

Tests conducted in accordance with IEEE Std 386™ standard:

- AC 60 Hz 1 Minute Withstand – 40 kV
- Minimum Corona Voltage Level – 19 kV

Tests conducted in accordance with Cooper Power Systems requirements:

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

TABLE 1
Voltage Ratings and Characteristics

Description	kV
Standard Voltage Class	25
Maximum Rating Phase-to-Ground	15.2
AC 60 Hz 1 Minute Withstand	40
DC 15 Minute Withstand	78
BIL and Full Wave Crest	125
Minimum Corona Voltage Level	19

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

ORDERING INFORMATION

To order the 25 kV Insulated Standoff Bushing Kit, refer to Table 2.

TABLE 2
Standoff Bushing Kit

Description	Catalog Number
Standoff Bushing with Standard Bracket	ISB225
Standoff Bushing with Stainless Steel Bracket	ISB225S

Each kit contains:

- Insulated Standoff Bushing with Bracket
- Shipping Cap (not for energized operation)
- Silicone Lubricant
- Installation Instruction Sheet

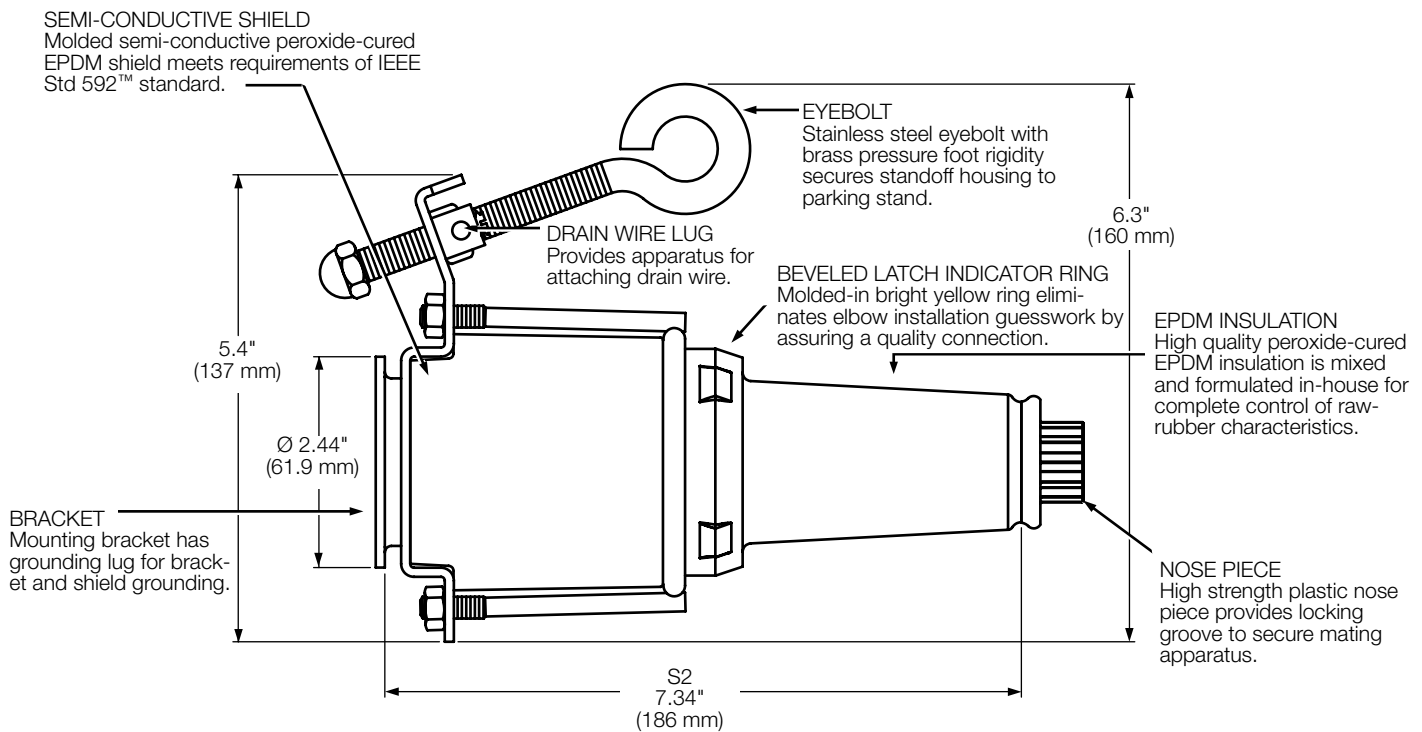


Figure 2.
Insulated Standoff Bushing profile and stacking dimensions.

Note: Dimensions given are for references only