

200 A 15 kV Class Grounding Elbow

GENERAL

Grounding elbows have become part of the preferred operating procedure for deadfront underground systems because they take advantage of the fault close-in characteristics of load-break terminators.

The RTE Components 15 kV Class Grounding Elbow is a tool that can be used either by itself or with a 200 A, 15 kV Class (8.3/14.4 kV) rated feedthru to visibly ground cables, transformers and switchgear. A grounding elbow at each end of a cable will isolate and ground the cable and keep bushings free from moisture and contamination during the grounding operation.

RTE Components 15 kV Class grounding elbows are designed to mate with 200 A loadbreak bushings and accessories rated 8.3/14.4 kV per ANSI/IEEE Standard 386—Separable Insulated Connector Systems. The grounding elbow is molded with high quality orange EPDM insulating rubber and features a CopperTop connector and tin plated copper probe complete with an arc follower tip. A 6-foot length of 600 volt insulated, flexible stranded copper ground cable is included.

INSTALLATION

Determine whether the circuit is deenergized. Attach the ground cable to the system ground. Use a hotstick to attach the grounding elbow to the mating apparatus. Refer to operating Instruction Sheet 5000031085 for details.

PRODUCTION TESTS

Test are conducted in accordance with RTE Components requirements.

- Physical Inspection
- Periodic Dissection
- Periodic Fluoroscopic Analysis

15 kV Voltage Rating is in accordance with ANSI/IEEE Standard 386.



Figure 1. Grounding Elbow with 6-foot length of 600 volt ground cable.

TABLE 1
Current Ratings and Characteristics

Description	Amperes
Fault Closure	10,00 A rms symmetrical at 14.4 kV after 10 switching operations for 0.17 s
Short Time	10,000 A rms symmetrical for 0.17 s 3,500 A rms symmetrical for 3.0 s

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

ORDERING INFORMATION

To order the 15 kV Class Grounding Elbow Kit, refer to Table 2.

TABLE 2
Grounding Elbow Kits

Description	Catalog Number
Grounding Elbow with 1/0 AWG (50 mm ²) cable	2604128B01M
Grounding Elbow with 2/0 AWG (70 mm ²) cable	2604128B02M

Each kit contains:

- Ground Elbow (with cable)
- Silicone Lubricant
- Operating Instruction Sheet

Special elbow kits are available with various types of connectors used in attaching cable to system ground. Contact the regional office in your location for specific kit number. The grounding elbow may also be ordered as part of a complete RTE Components Grounding Kit. (See Section 500-17).

TABLE 3
Replacement Parts

Description	Catalog Number
Replacement Probe	2637552C03
Probe Installation Tool	2602733A01

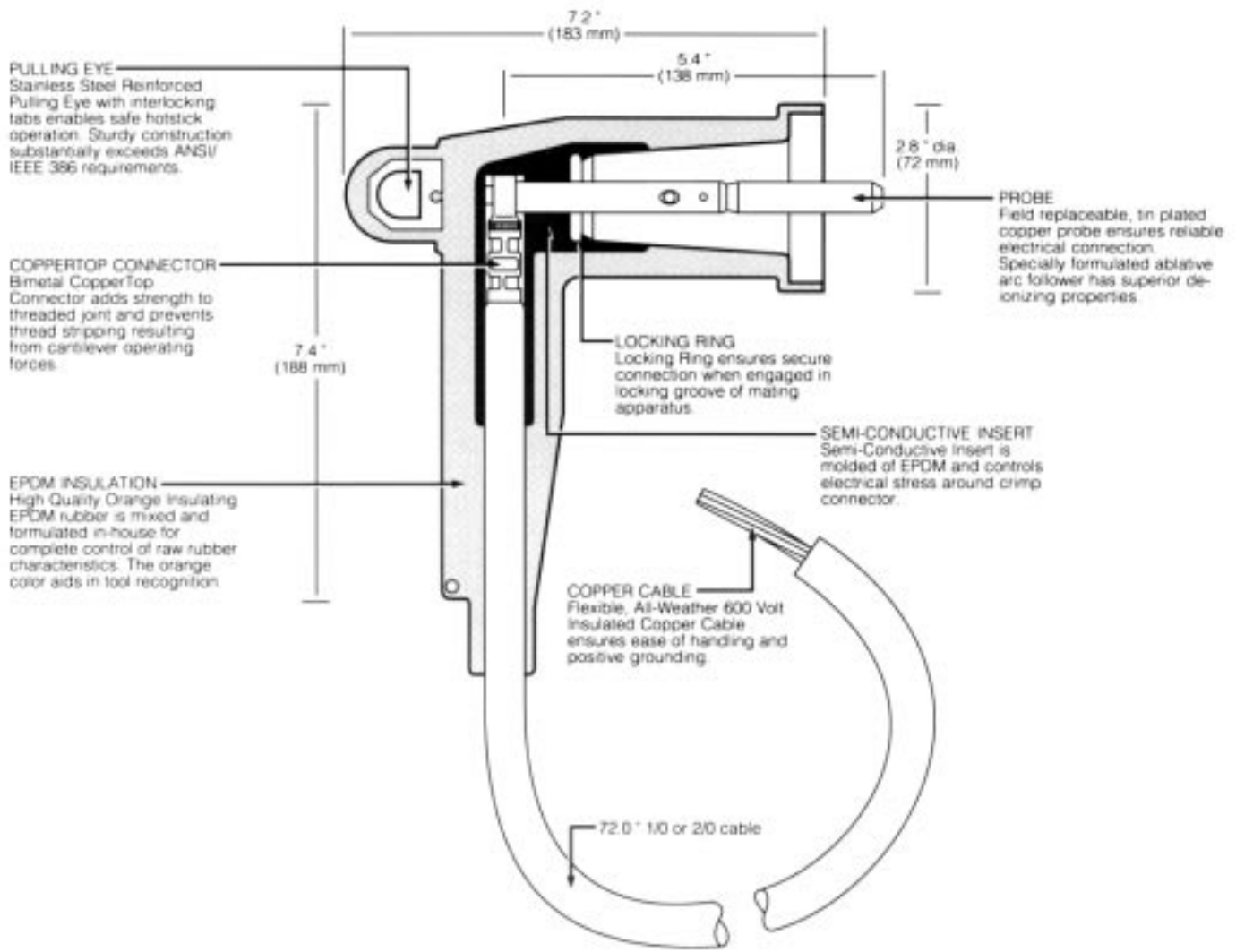


Figure 2.
Illustration shows protective insulation and dimensions.

NOTE: Dimensions given are for reference only.