

IS635 Sure Direct

Installation Instructions



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Hubbell Sure-Direct™ Deadbreak Elbow Arrester 600 A / 900 A, 35kV Class Interface 13



DESCRIPTION

Hubbell Elbow Arresters are designed to provide an effective overvoltage protection for underground distribution systems. They will mate with any 600 A / 900 A, 35 kV deadbreak bushing or accessory that contains the corresponding operating interface per IEEE Std. 386.

- 35 kV Class: 600 A / 900 A, 21.1kV L-G (Interface 13)

CONTENTS OF PACKAGE

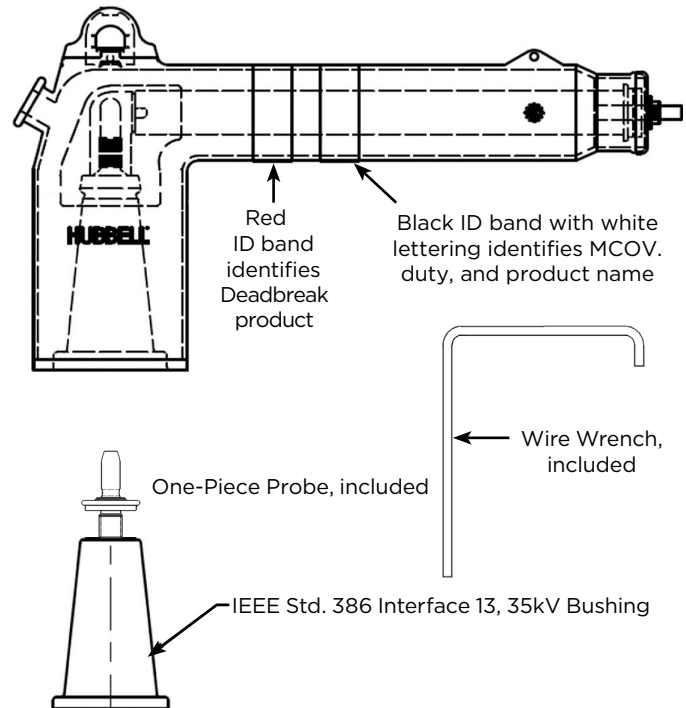
- (1) Elbow Arrester
- (1) Lubricant (DO NOT SUBSTITUTE)
- (1) Probe
- (1) Instruction Sheet
- (1) Probe Assembly Wire Wrench

NOTES:

- Read these instructions thoroughly before operating the system.
- Check contents of box to ensure that it is complete and the components are NOT damaged.
- Verify product MCOV compatibility to existing system

Important:

- **This is a deadbreak device and must only be installed and operated when the system is de-energized.**
- The elbow arrester should only be applied to systems where the steady-state power frequency voltage seen by the arrester does not exceed the published maximum continuous operating voltage (MCOV). The nominal voltage rating and the MCOV are located on each elbow arrester.
- These instructions do not supersede any safety protocols or practices in place by your company.



DANGER

The equipment covered by these instructions should be installed, operated and serviced only by competent personnel familiar with safety practices. This instruction is written for such personnel and is not intended as a substitute for adequate training and experience in safe procedures for this type of equipment.

DANGER

Do not touch or move energized product. Be sure that the arrester is rated for their intended application. Any failed or suspicious arrester should be considered energized because failed arresters on re-energized lines can maintain voltage. Failure to follow this instruction may result in damage to the products and serious or fatal injury.

These instructions do not intend to cover all details or variations in equipment nor to provide for every possible contingency to be met in connection with installation, operation or maintenance. Should further information be desired, or should particular problems arise which are not covered sufficiently for the purchaser's purposes, the matter should be referred to Hubbell Power Systems, Inc.

DEADBREAK ELBOW ARRESTER

WARNING: BUSHING MUST DE-ENERGIZED
when installing the probe, and the elbow arrester.

DE-ENERGIZED INSTALLATION ONLY

1. Adapter Assembly:

- Ensure mating interface is 35 kV 600 A / 900 A deadbreak interface before inserting probe.
- Hand thread probe into 35 kV bushing
- Using provided torque wire wrench, tighten probe onto bushing until the wrench is bent 90 degrees from its original shape.

2. Grounding:

- Attach a #14 or equivalent CU drain wire to the ground tab on the arrester.
- Connect ground lead and drain wire to system ground.
- Provide enough slack in both leads for de-energized hotstick maneuvering.

3. Lubrication:

- Remove protective cap.
- Keep interfaces clean and dry.
- Apply a thin, uniform coat of the supplied lubricant (DO NOT SUBSTITUTE as other lubricants may be harmful) to the operating interface of the arrester. See Fig. 3

Caution: Excess lubricant may prevent the elbow arrester from properly locking into place.

4. Connection:

CAUTION: DE-ENERGIZED INSTALLATION ONLY

- Fasten hotstick tool to the operating eye of the elbow arrester.
- Check all ground leads for proper connections. If a ground lead becomes disconnected, remove the arrester from the bushing with a hotstick tool before re-attaching the ground lead.
- Establish an operating position that will provide firm footing and secure grasp on the hotstick tool throughout the range of movement required for the operating sequence.
- Place elbow arrester operating interface over bushing, with the adapter assembled onto the mating part.
- Begin mating the elbow arrester then thrust the elbow arrester forward with a firm, quick motion to lock the arrester onto the 35kV deadbreak interface. See Fig. 4
- Test for proper locking by gently pulling on the hotstick to ensure a secure connection.
- Orient the elbow arrester with the grounded end pointing down.

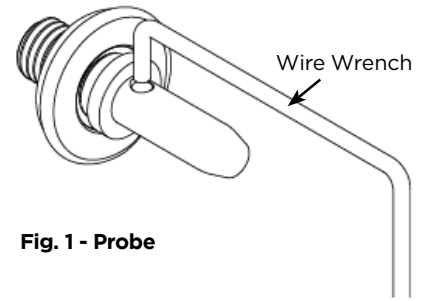


Fig. 1 - Probe

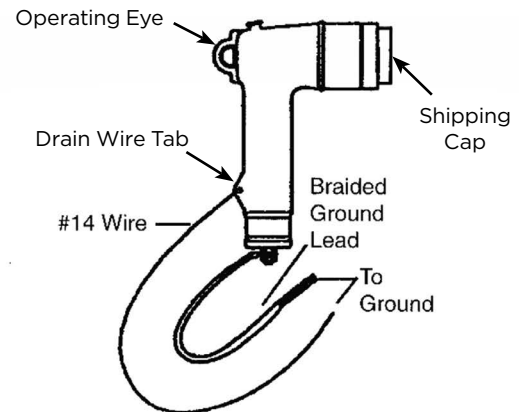


Fig. 2 - Elbow Arrester Component

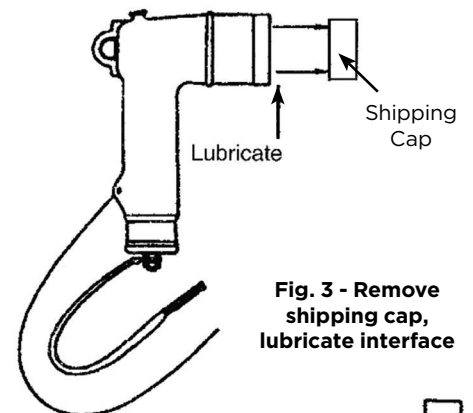


Fig. 3 - Remove shipping cap, lubricate interface

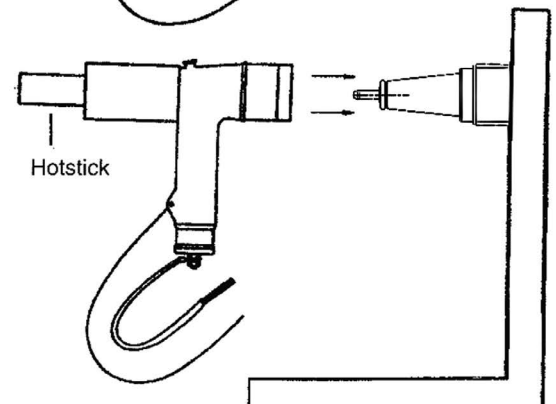


Fig. 4 - De-energized installation



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