

Installation Instructions

1601EA4

Loadbreak Bushing Insert

CONTENTS: Loadbreak Bushing Insert, Lubricant (DO NOT SUBSTITUTE), Installation Instructions.

The 1601EA4 is designed to provide the apparatus interface for Elastimold 15kV class (8.3kV phase-to-ground and 14.4kV phase-to-phase) loadbreak connections. The red interface sleeve provides indication of full elbow seating. This product is identified by a red button attached to the grounding eye.

DANGER

All apparatus must be de-energized during installation or removal of part(s).

All apparatus must be installed and operated in accordance with individual user, local, and national work rules. These instructions do not attempt to provide for every possible contingency.

Do not touch or move energized products.

Excess distortion of the assembled product may result in its failure.

Inspect parts for damage, rating and compatibility with mating parts.

This product should be installed only by competent personnel trained in good safety practices involving high voltage electrical equipment. These instructions are not intended as a substitute for adequate training or experience in such safety practices.

Failure to follow these instructions will result in damage to the product and serious or fatal injury.

If this product is supplied with a protective shipping cover(s), remove this shipping cover(s) and replace with the appropriate HV insulated cap(s) or connector(s) before submerging or energizing the circuit.

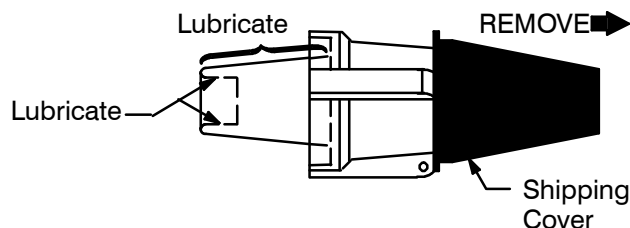
FOR MORE INFORMATION ON PARTS, INSTALLATION RATINGS AND COMPATIBILITY, CALL THE NEAREST ELASTIMOLD OFFICE.

IMPORTANT

1. Check contents of package to ensure they are complete and undamaged.
2. Check all components to ensure proper fit with cable and/or mating products.
3. Read entire installation instructions before starting.
4. Have all required tools at hand and maintain cleanliness throughout the procedure.

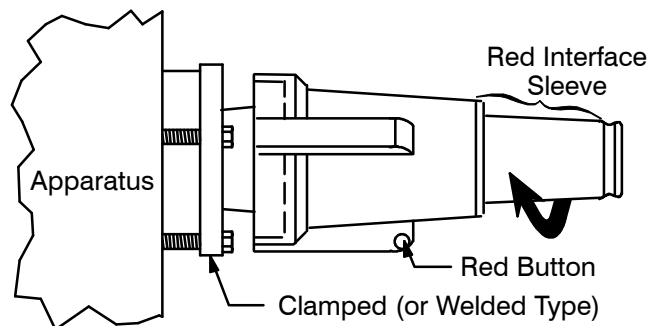
STEP 1

Inspect the apparatus bushing well to ensure it is dry and free from all contaminants. Remove the protective shipping cap from the bushing insert. Lubricate the bushing well interface area of the bushing insert with the supplied lubricant or ELASTIMOLD approved lubricants. **DO NOT SUBSTITUTE.** Other lubricants may be harmful to this product and its mating products.



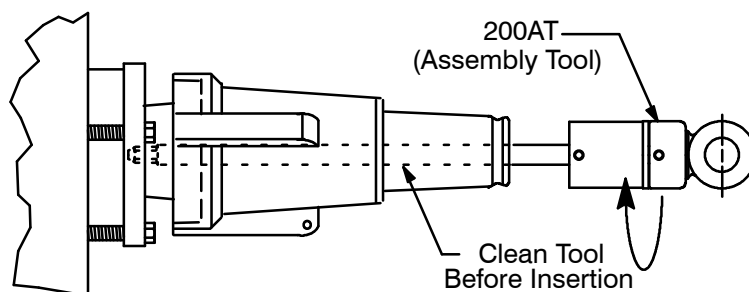
STEP 2

Place the lubricated portion of the bushing insert in the apparatus bushing well. Hand tighten the bushing insert in a clockwise direction until it bottoms.



STEP 2 ALTERNATE

Place the lubricated portion of the bushing insert in the apparatus bushing well. Insert 200AT assembly tool in bore of bushing insert until fully seated. Insert suitable rod through the eye of the tool and turn in a clockwise direction. Continue to rotate the eye of the 200AT until it begins to ratchet signifying the proper assembly torque has been reached. Remove 200AT from bushing insert.

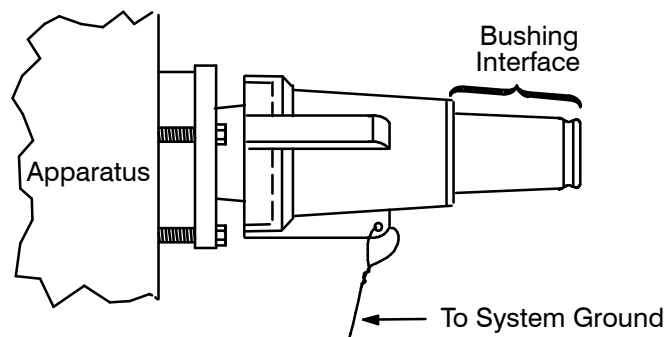


STEP 3

Push a length of copper wire (No. 14 AWG (2,5mm²) or equivalent) through one of the grounding tabs on the bushing insert. Make a small loop and twist tight, taking care not to damage the grounding tab. Connect free end of electrostatic grounding wire to the system ground using a suitable connector.

The electrostatic grounding wire should be installed in such a manner so as not to contact the bushing interface or adjacent bushing interfaces or interfere with the placement of accessories on nearby parking stands.

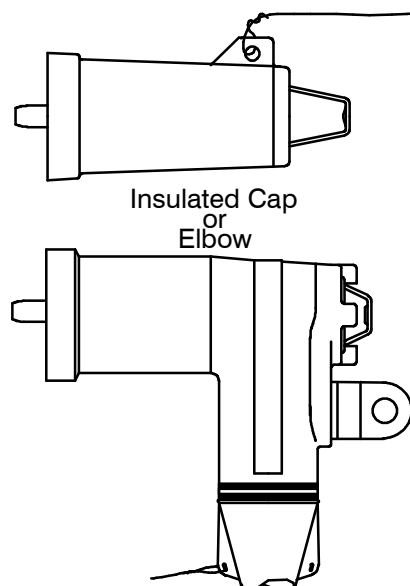
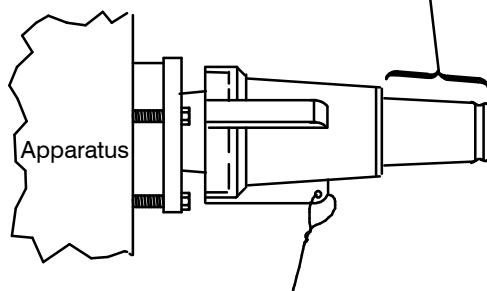
This step provides assurance that the insulation shield on the bushing insert is grounded.



STEP 4

Thoroughly wipe the bushing interface clean of any contaminants and lubricate with the supplied lubricant. Install the mating products to the bushing insert following the instructions supplied with the mating products. **If the bushing insert is not to be immediately mated with an elbow connector, insulated cap or grounding elbow connector, replace the shipping cap. Do not energize or submerge the apparatus with the shipping cap on the bushing insert.** This is a protective cap only which is not insulated or water tight and only intended to keep the bushing surfaces clean during handling and installation.

Clean Bushing Insert/Elbow Connector Interface and Lubricate Thoroughly



STEP 5 SEATING INDICATION

Complete assembly of an insulated cap or elbow is indicated by no portion of the red interface being visible when viewed from the side.

