

Installation Instructions

25LRTP

Deadbreak Elbow Reducing Tap Plug

CONTENTS: Reducing Tap Plug, Lubricant (DO NOT SUBSTITUTE), Guide Pin, Installation Instructions.

The K655LRTP elbow reducing tap plugs have voltage ratings of 25kV (15.2kV line-to-ground and 26.3kV line-to-line) designed for a 600/900 ampere stick-operable system, with a 200 ampere tap. A yellow band provides indication of full elbow seating and also provides vents for improved switching performance. This product is identified by a white band.

WARNING: The following ratings apply to this product:

600/900 Ampere Deadbreak Interface – 600 or 900 amperes load current and 25,000 amperes short circuit current for 10 cycles.

200 Ampere Loadbreak Interface – 200 amperes load current and 10,000 amperes fault-close current. For higher short circuit current: 1) this interface should only be operated de-energized; and 2) elbows used for taps or grounding must be adequately secured such as with a bail.

DANGER

All apparatus must be de-energized during installation or removal of part(s). For loadbreak products follow operating instructions. All deadbreak connectors must be de-energized before operating. All 200A deadbreak connectors must be mechanically secured with bails when connected.

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.

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

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.

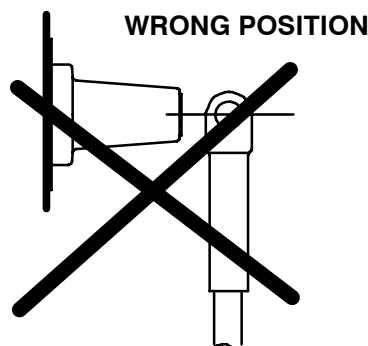
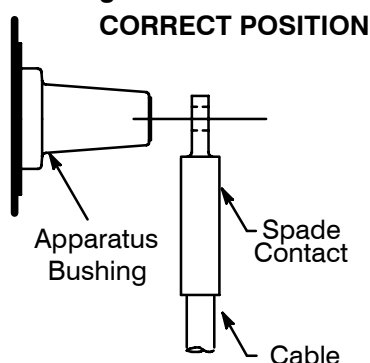
If this product is supplied with a protective shipping cover(s), remove this shipping cover(s) and replace with the appropriate HV insulated cap(s) or connector(s) before submerging or energizing the circuit.

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

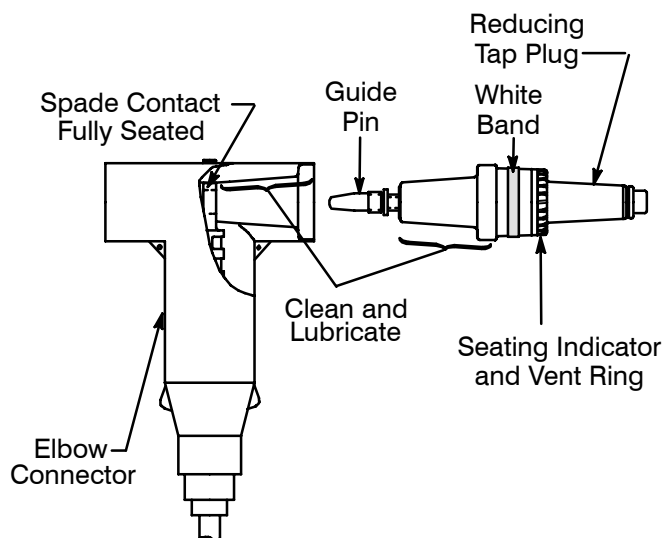
Prepare cable using spade contact (03600XXX) and install elbow as described in the 600 amp LR, elbow connector installation instructions. **Before making first crimp on spade contact, align it on the cable so that the spade lies flat on the apparatus bushing contact.**



STEP 2

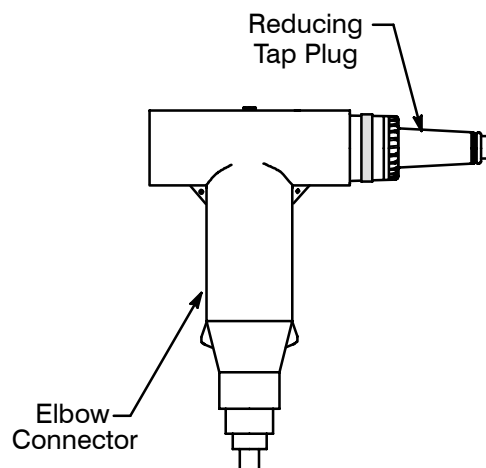
Remove the protective cap from the reducing tap plug and the elbow. Clean and lubricate the entire elbow connector interface and reducing tap plug interface as indicated with the lubricant supplied or ELASTIMOLD approved lubricant.

IMPORTANT: CHECK TO BE SURE THE SPADE CONTACT IN THE ELBOW CONNECTOR IS FULLY SEATED AGAINST THE TOP OF THE HOUSING. Insert the reducing tap plug into the elbow connector.



STEP 3

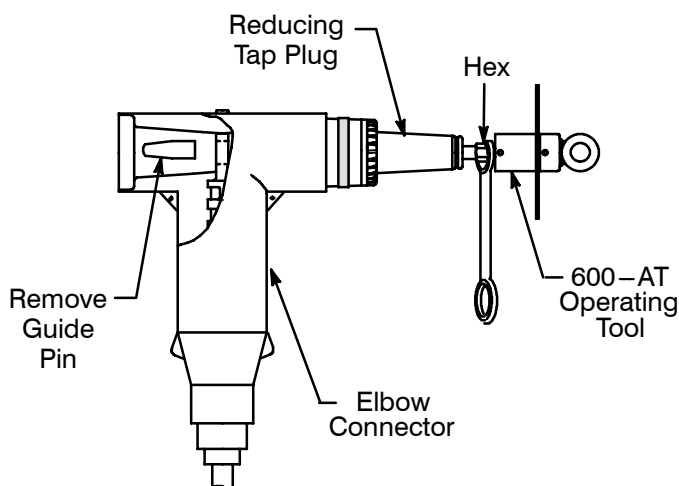
Assemble the reducing tap plug to the elbow connector in a clockwise direction. Hand tighten the reducing tap plug.



STEP 4

Slowly insert the 600-AT, operating tool, into the reducing tap plug until fully seated. Torque the reducing tap plug in a clockwise direction to the elbow connector with a suitable tool applied to the hex portion of the 600-AT, operating tool. At some point during torquing operation the guide pin will separate from the reducing tap plug. Continue torquing UNTIL THE INTERNAL SHEAR PIN BREAKS. (Note: This will require 15 to 18 complete revolutions and a torque of 35 to 50 foot-pounds.)

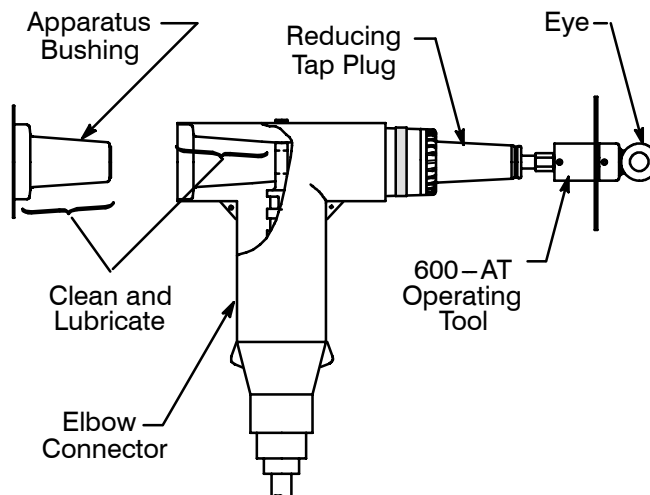
Remove guide pin and continue with assembly instructions.



STEP 5

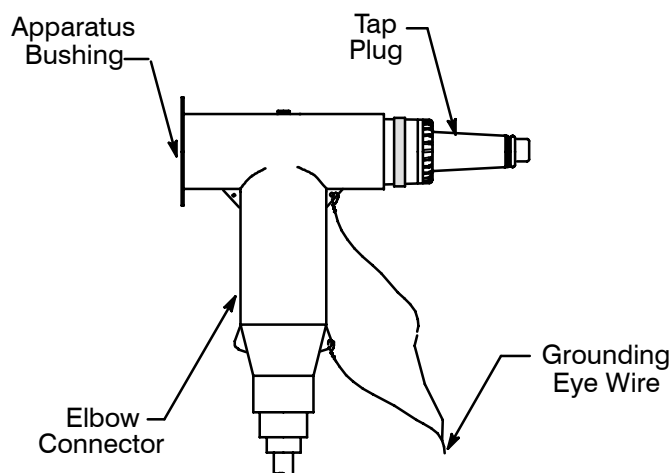
Clean and lubricate the entire apparatus bushing interface and remaining elbow connector interface with the lubricant supplied or ELASTIMOLD approved lubricant. Assemble the elbow connector on the apparatus bushing with the 600-AT by inserting a suitable rod through the eye of the tool and turning in a clockwise direction. This must be done while pushing the elbow toward the apparatus bushing. Continue to rotate the eye of the 600-AT, clockwise, until it begins to ratchet signifying the proper assembly torque has been reached. Remove 600-AT from the reducing tap plug.

WARNING: 600-AT should be periodically calibrated to insure the absolute minimum clockwise torque. A field aged 600AT torque limiter must never be less than 204 inch-pounds to insure a good 600 ampere connection.



STEP 6

Insert one end of a length of #14AWG copper wire (or equivalent) through a convenient grounding eye of the elbow, leaving sufficient length to allow movement of the elbow to the appropriate parking stand. Make a small loop and twist tightly, taking care not to damage the eye.

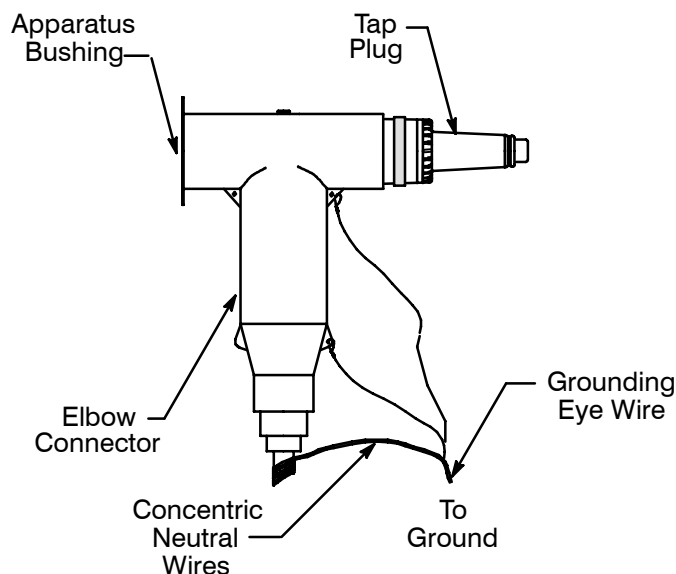


STEP 7A FOR CONCENTRIC NEUTRAL CABLE

Twist the concentric neutral wires together. Connect them and the grounding eye wire to ground using an appropriate connector.

Leave sufficient length to allow movement of the elbow to the appropriate parking stand.

For three-phase installations, all grounds from all three phases must be tied to a common ground point.

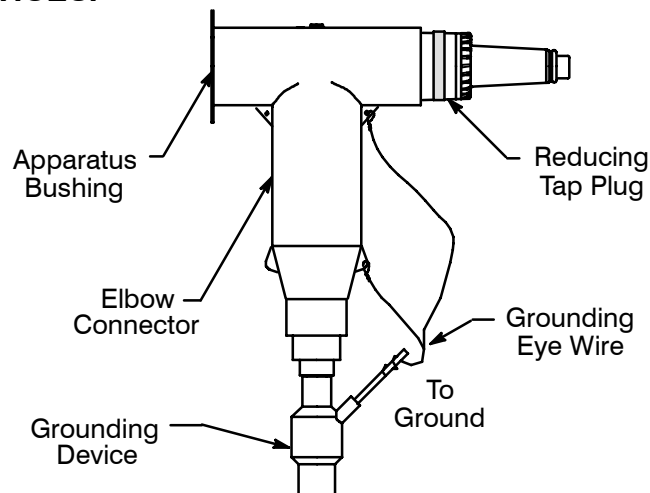


STEP 7B FOR CABLES USING GROUNDING DEVICES.

Connect both the grounding eye wire and the ground lead from the grounding device to ground using a suitable connector. Be sure the ampacity of the ground leads are equal to or larger than that of the grounding device.

Leave sufficient length to allow movement of the elbow to the appropriate parking stand.

For three-phase installations, all grounds from all three phases must be tied to a common ground.

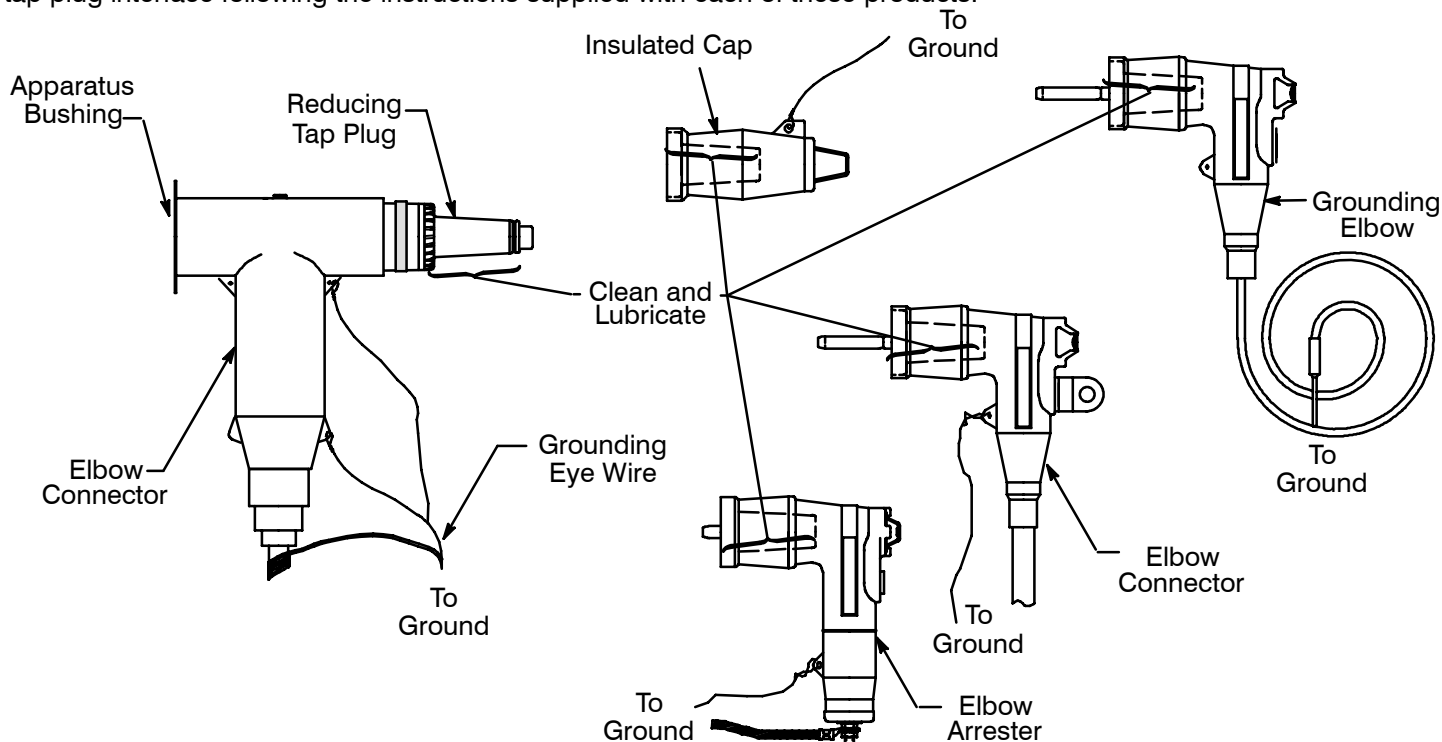


STEP 7C JACKETED, METALLIC SHIELDED CABLE WITHOUT GROUNDING DEVICE

Connect the metallic shield of the cable to ground using a jumper of equivalent ampacity to the metallic shield. Waterproof the jacket at this point to prevent moisture from entering. Connect the elbow connector grounding eye wire to ground.

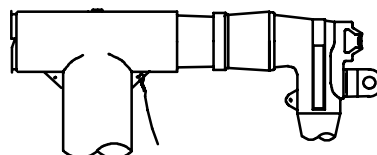
STEP 8

Clean and lubricate the entire reducing tap plug interface and either an insulating cap, elbow arrester, loadbreak elbow or grounding elbow with the lubricant supplied or ELASTIMOLD approved lubricant. Install the mating product to the reducing tap plug interface following the instructions supplied with each of these products.



STEP 9 SEATING INDICATION

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



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