

Installation Instructions: 252LRJS Deadbreak Elbow Connectors with Jacket Seal

CONTENTS: Elbow Connector Housing, Compression Lug, Probe, Probe Wrench, Lubricant, Hold-down Bail, Installation Instructions.

The 252LRJS is designed to terminate UD cable having jacketed concentric neutral and semi-con shielding. The elbow provides a voltage test point and an operating interface for connecting to an Elastimold 25kV class (15.2kV Phase-to-Ground and 26.3kV phase-to-phase) 200 ampere deadbreak bushing or accessory device. Designed with a fold down extension on the cable entrance for sealing to the jacket of jacketed cable. When other types of UD cable are to be terminated, an appropriate Elastimold cable shield or grounding device must be used.

DANGER

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

Do not touch or move energized products in the work area.

These instructions do not attempt to provide for every possible contingency.

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

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.

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

All apparatus must be installed and operated in accordance with individual user, local and national work rules and electrical standards.

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.

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.

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

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

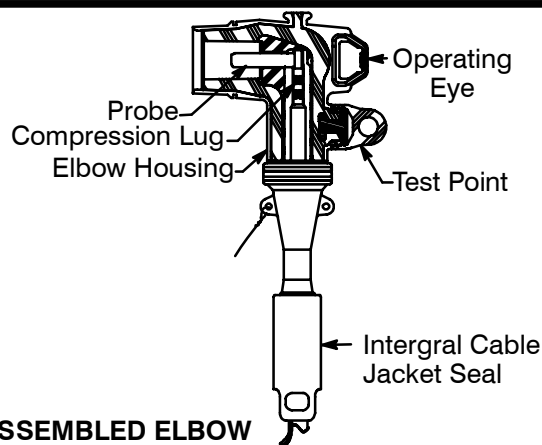
Limited Warranty:

1. T&B warrants that its products will be free from defects in materials or workmanship for a period of two (2) years, except for tools which are warranted separately (see warranty accompanying those products). Fisher Pierce® products and Elastimold® Reclosers are warranted for three years; and Joslyn™ VBT and VBU capacitor switches are warranted for four years or 40,000 operations whichever occurs first. Upon prompt notification of a warranted defect, T&B will, at its option, repair or replace the defective product.
2. In no event shall T&B be liable for any consequential, indirect or special damages, nor will T&B be liable for transportation, labor, or other charges arising out of the removal or reinstallation of its products. Liability for breach of warranty is limited to the cost of repair or replacement of the warranted product only.
3. Misuse, misapplication or modification of T&B products immediately voids all warranties.

THE WARRANTIES AND REMEDIES CONTAINED HEREIN ARE EXCLUSIVE AND ARE IN LIEU OF ALL OTHER WARRANTIES AND REMEDIES, INCLUDING BUT NOT LIMITED TO ANY IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, WHICH ARE SPECIFICALLY DISCLAIMED.

IMPORTANT

1. Unit Must be Bailed
2. Check contents of package to ensure they are complete and undamaged.
3. Check elbow housing cable entrance size and compression lug size to ensure proper fit with cable.
4. Check threads by threading probe into compression lug. If resistance is encountered prior to full assembly, check for damage and replace damaged component.
5. Read entire installation instruction before starting.
6. Have all required tools at hand and maintain cleanliness throughout the procedure.



Caution: If test point cap is not installed, lubricate cap and test point and install cap.

Thomas & Betts

A Member of the ABB Group

IS-1564

IS-252LRJS

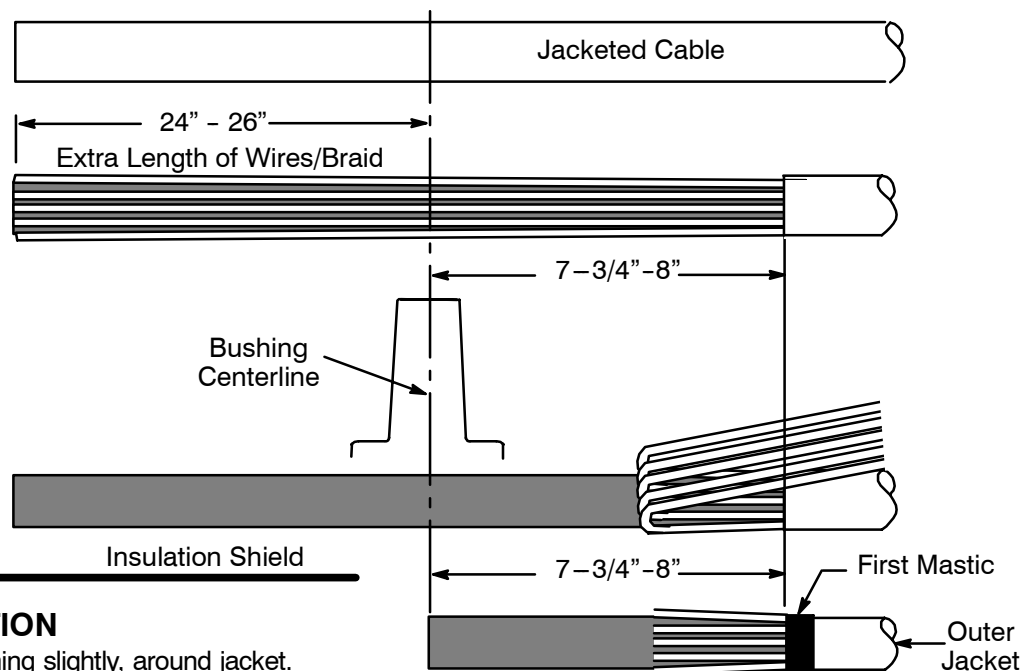
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STEP 1 CABLE TRAINING

- Train cable to ensure slack for ease of operation.
- An extra length of concentric neutral wires or grounding braid is needed to facilitate hotstick operation and connection of the neutral to the tank ground. This can be accomplished by either of two methods: 1. Tape mark the bushing centerline and pull extra cable to 24-26" beyond the bushing centerline; 2. Proceed to Step 1.D., connect the neutral wires to the tank ground with a jumper or braid.
- Unwrap the neutral wire back past the bushing centerline.
- Cut excess cable squarely at the centerline of the bushing.

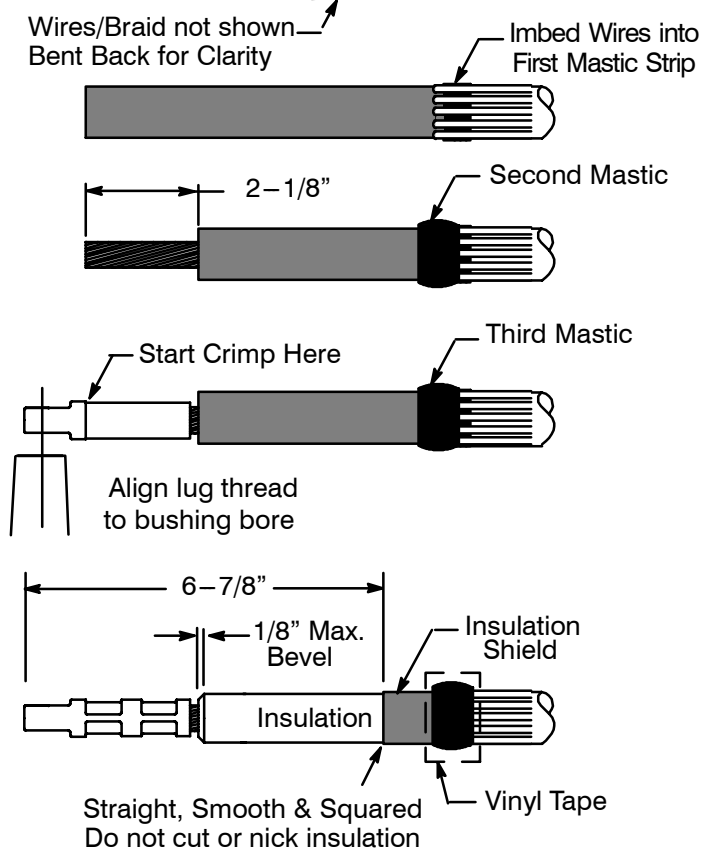


STEP 2 CABLE PREPARATION

- Wrap one strip of mastic, stretching slightly, around jacket.
- Bend all of the neutral wires straight back over the mastic and along the cable. Press the wires into the mastic.
- Wrap the second strip of mastic completely around the outer jacket, overlapping the neutral wires imbedded into the first mastic strip. Use the third strip of mastic, if needed, to build-up the outer diameter in the area of the first mastic location. Cover all mastic with vinyl tape.
- Remove insulation shield and insulation from the cable end. Cut squarely taking care not to nick conductor.
- Wire brush bare aluminum conductors and immediately install compression lug. Rotate to spread inhibitor.

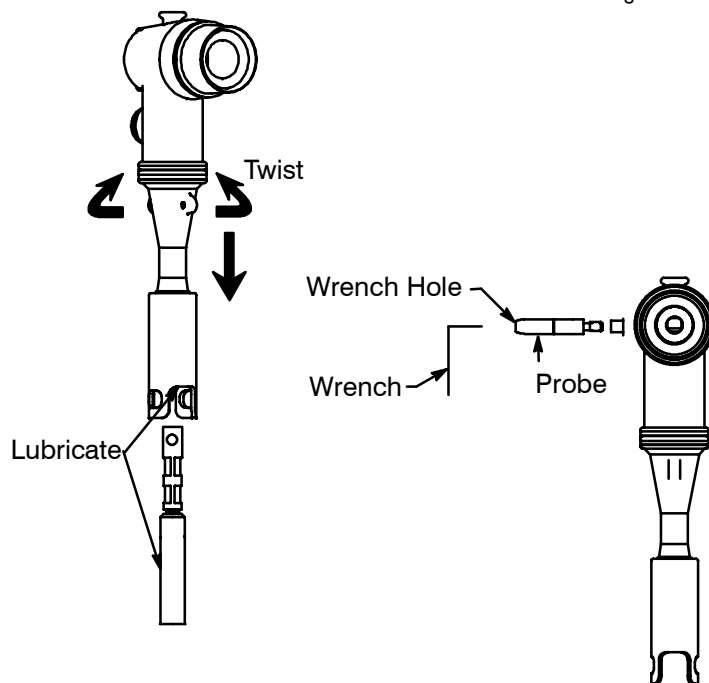
Position compression lug so the CONTACT THREADED HOLE ALIGNS WITH THE BUSHING BORE. (Refer to crimp chart packaged with compression lug for recommended crimp tool information.) Start crimp at the crimp line mark. Rotate 180° each successive crimp. Carefully wipe excessive inhibitor from the outside of the lug and cable.

- Remove insulation shield as shown. Bevel insulation end 1/8" max.
- Thoroughly clean insulation to remove all traces of conductive residue.



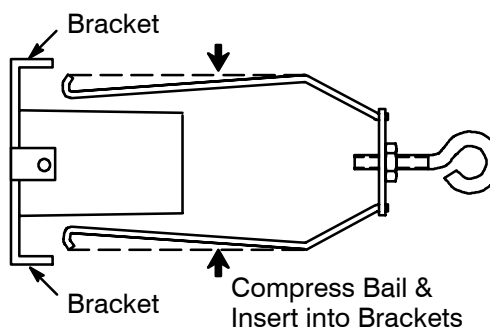
STEP 3 ELBOW ASSEMBLY

- A. Clean and lubricate the cable insulation and inside the elbow housing with the lubricant supplied. DO NOT SUBSTITUTE. Other lubricants may be harmful to this product or its mating product(s). Keep insulation clean of dirt and grime.
- B. Slide the elbow connector onto the cable with a back and forth twisting motion. Wipe off all excess silicone lubricant.
- C. Align elbow with compression lug's threaded hole.
- D. Thread probe into lug by hand, taking care not to cross-thread. Tighten with wrench until wrench bends.



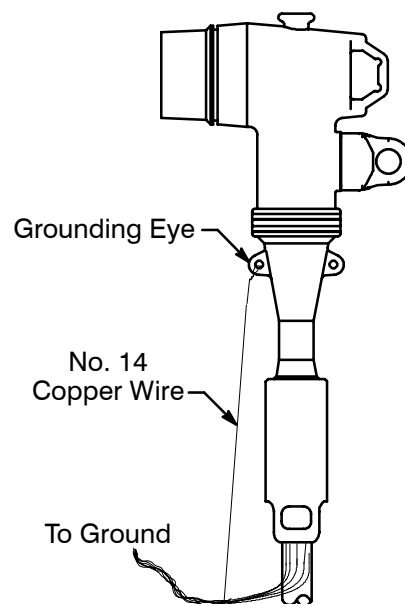
STEP 4 ASSEMBLE BAIL

Place hold-down bail in hold-down bracket.



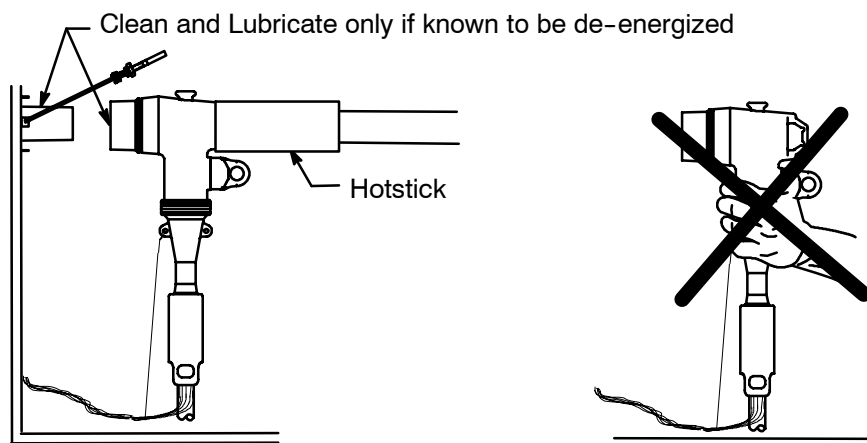
STEP 5 CONCENTRIC NEUTRAL CONNECTION

- A. Pull the hood over the concentric neutral seal area on the cable by pulling the tabs and/or rolling the seal down.
- B. Using a separate copper wire (No. 14 AWG / 2.5mm) or equivalent, insert one end through the grounding eye on the elbow. Twist tightly taking care not to damage the eye.
- C. Twist all neutral wires and connect to ground using appropriate connector. Provide adequate slack in wires for elbow operation.



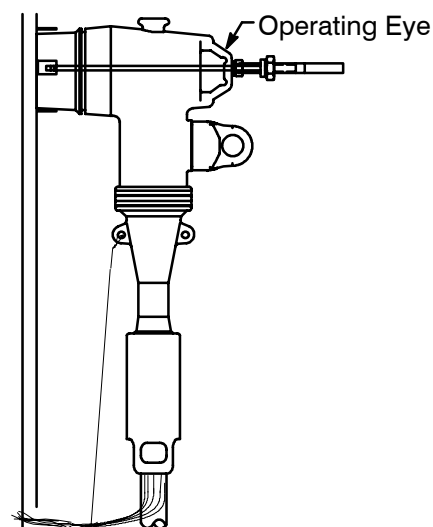
STEP 6 CONNECT ELBOW AND BUSHING PLUG

- A. Clean the receptacle portion of the elbow connector and the mating bushing and lubricate with the lubricant supplied. LUBRICATE ONLY IF THE TRANSFORMER AND ELBOW ARE KNOWN TO BE DE-ENERGIZED.
- B. Use a fully insulated hot stick to place the elbow on the bushing. **DO NOT OPERATE BY HAND. DO NOT SEPARATE IF ENERGIZED.**



STEP 7 BAIL ELBOW

- A. Pull hold-down bail up over the crown or top of elbow so that the eyebolt on the bail is directly over the operating eye.
- B. Tighten down on elbow locator by turning eyebolt in a clockwise direction. Adjust the nut on the eyebolt until it allows the eyebolt to seat securely in the locator. The nut should act as a stop to prevent the eye bolt from applying excessive force on the elbow. Once the nut is in final position, it will not have to be readjusted when removing and replacing elbow.



VOLTAGE TEST

ELASTIMOLD connectors equipped with an integral capacitance test point can be used to establish whether or not the circuit is energized. When using the test point, complete the following steps:

- 1. Remove test point cap with a hotstick. When removing cap, PEEL OFF AT AN ANGLE rather than pulling directly in line with the test point assembly.
- 2. **WARNING:** THE VOLTAGE TEST POINT IS A CAPACITANCE DEVICE, IT IS NOT DIRECTLY CONNECTED TO THE CONDUCTOR. Do not use conventional voltage measuring equipment. Follow the manufacturer's directions for the meter that is used. Test with a suitable sensing device, made for use with separable connectors manufactured with capacitive test points, to determine if cable is energized. Contamination, moisture, dirt, etc. around the test point or use of the wrong measuring equipment can provide a false "no voltage" indication on an energized elbow. To prevent serious or fatal injury treat the elbow as energized until the "no voltage" test point indication is confirmed by other means.
- 3. After voltage detection has been made, clean and lubricate the inside surface of the cap with lubricant supplied and replace it on the test point.

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