

# Installation Instructions

## 271FTV(1) / 274FTV(1)

### Feed-Thru/Grounding Device

**CONTENTS:** Feed-thru body complete with mounting hardware, Lubricant, Instruction Sheet.

The 271FTV(1) / 274FTV(1) is designed to interface with ELASTIMOLD 25/28kV class (16.2 phase-to-ground and 28.0kV phase-to-phase maximum) loadbreak connectors for the following functions:

- A. A junction point. B. A grounding point.

**To use the feed-thru as a junction point, follow steps 1 to 5 and 6A and 7A.**

**To use the feed-thru as a grounding point, follow steps 1 to 5 and 6B to 9B.**

A yellow band provides indication of full elbow seating and also provides vents for improved switching performance. This product is identified by a yellow ID washer attached to the eyebolt.

### DANGER

**All apparatus must be de-energized during installation or removal of part(s) except for test point caps and indicators that can be installed and operated energized.**

**After installation loadbreak products can be operated energized per operating instructions. All deadbreak connectors must be de-energized before operating.**

**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.**

**“Loadbreak connectors must be operated with a full insulated “hotstick” type live–line tool.” Consult the company’s safe work practices for the required live–line tool length.**

**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.

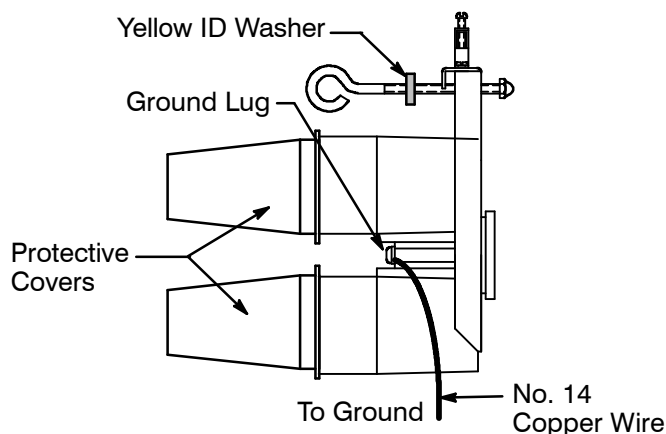
### IMPORTANT

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 GROUNDING

Insert grounding lead into the grounding lug provided on the mounting hardware and tighten lug. Ground lead should be No. 14 (2.5mm<sup>2</sup>) copper wire or equivalent. Connect the opposite end of the lead to ground, leaving enough slack to operate with a hotstick.

**CAUTION:** keep ground wire clear of operating interfaces.

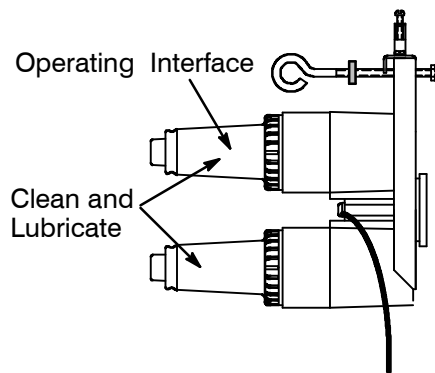


## STEP 2

1. Remove the protective covers from the bushings of the feed-thru.

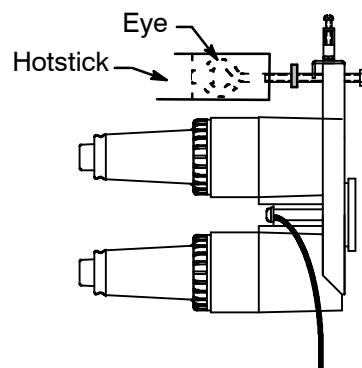
**CAUTION:** Protective covers must not be on the bushing of the feed-thru when the feed-thru is being used. When the feed-thru is not in use, the protective covers should be placed on each operating interface on the feed-thru to protect them from dirt and other contaminants.

2. Clean the bushing surfaces and lubricate them with silicone grease supplied (DO NOT SUBSTITUTE). Other lubricants may be harmful to this product and its mating product(s).



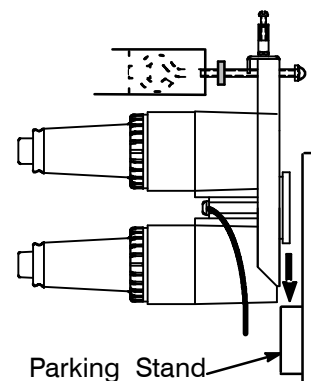
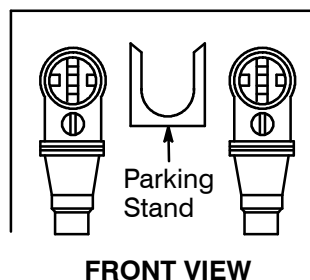
## STEP 3

Attach feed-thru eye firmly to hotstick.



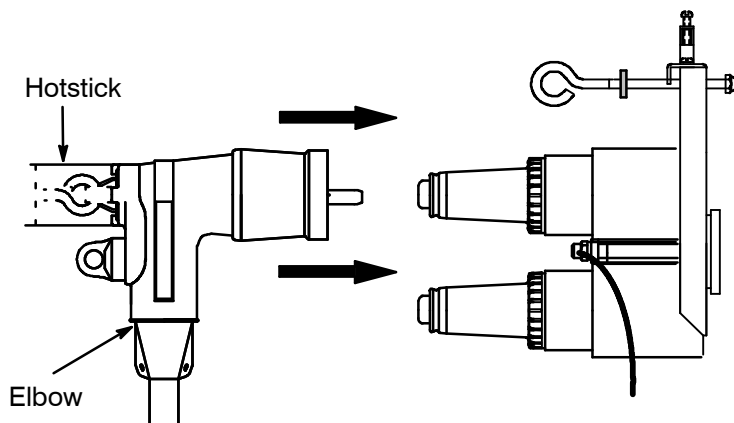
## STEP 4

Using a hotstick, slide feed-thru onto parking stand. Unlock hotstick and back off, to allow space for eyebolt to be tightened. Tighten eyebolt by rotating hotstick clockwise until snug. DO NOT OVERTIGHTEN. Release hotstick.



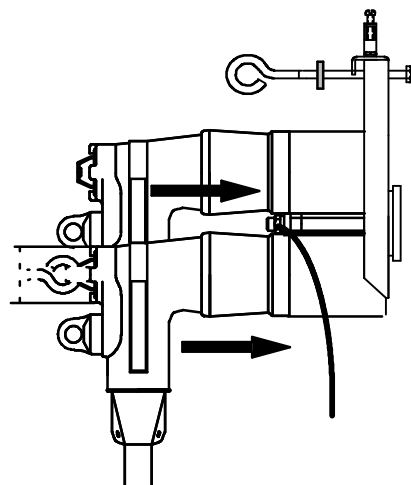
## STEP 5

Following the applicable operating instructions (IS-273/274LR) remove one loadbreak elbow from its apparatus bushing insert and place on the feed-thru.



## STEP 6A JUNCTION POINT APPLICATION

Following the applicable operating instructions (IS-273/274LR) remove the second loadbreak elbow from its apparatus bushing insert and place on the feed-thru.

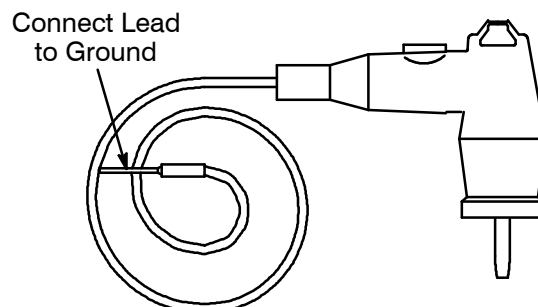


## STEP 7A

When it is desired to reconnect the elbow(s) to the apparatus bushing(s), first make certain no faults exist on the system. To return the loadbreak elbow to the apparatus bushing, reverse the operational sequence, following the applicable loadbreak-loadmake operating instructions.

## STEP 6B GROUNDING APPLICATION

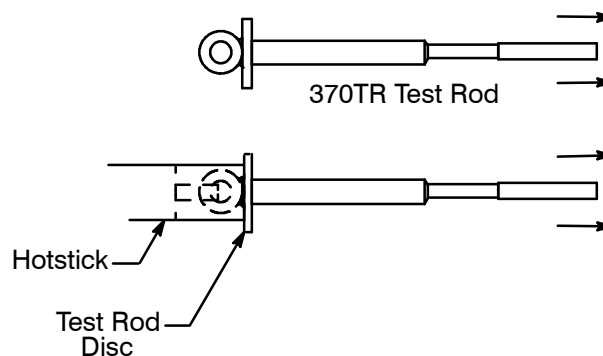
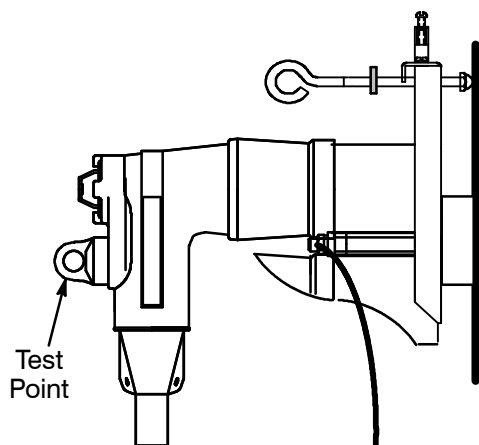
Connect lead on ELASTIMOLD 370GLR grounding elbow to ground. **IMPORTANT:** DO NOT INSERT GROUNDING ELBOW INTO FEED-THRU UNLESS CIRCUIT HAS BEEN TESTED "DEAD".



## STEP 7B

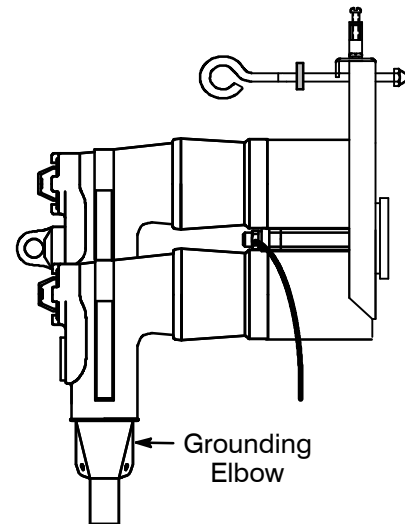
1. To test "dead" use the capacitive test point on the 274LR elbow, or:
2. Using a 370TR test rod, attach the test rod eye firmly to the hotstick. Insert the test rod into the second plug of the feed-thru. Check the test rod disc for voltage.

**DANGER:** The hotstick eye and disc of the test rod are not insulated; be careful to keep them clear from ground until tested "dead". Contact with the test rod can cause serious or fatal injury.



## STEP 8B

After the circuit has been tested “dead” remove the test rod and using the hotstick, immediately insert the grounding elbow.



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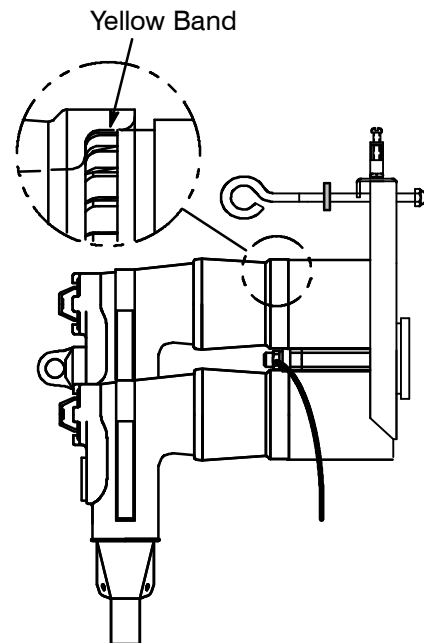
## STEP 9B

When it is desired to reconnect the elbow to the apparatus bushing, first make certain no faults exist on the system. To return the loadbreak elbow to the apparatus bushing and to remove the grounding elbow, reverse the operational sequence, following the applicable loadbreak-loadmake operating instructions.

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## STEP 10 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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