

# Installation Instructions

## 10EP

### Elbow Cable Entrance Insulating Plug

**CONTENTS:** Elbow Cable Entrance Insulating Plug, Lubricant, Installation instructions.

Insulating plug can be only installed on the Elastimold 200amp Deadbreak or Loadbreak elbow. The plugged elbow serves as both an insulated cap used for terminating an exposed interface and/or an insulated cap with test point used to verify if a circuit is energized. Read the Voltage Test section before testing.

#### **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 in the work area.**

**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.

#### **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 for 90 days. 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.

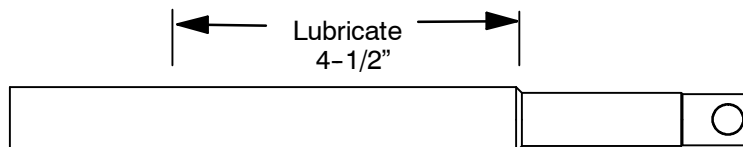
THE WARRANTIES AND REMEDIES CONTAINED HEREIN ARE EXCLUSIVE AND ARE IN LIEU OF ALL OTHER WARRANTIES AND REMEDIES, INCLUDING BUT NOT LIMITED TO ANY IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, WHICH ARE SPECIFICALLY DISCLAIMED.

#### **IMPORTANT**

1. 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.

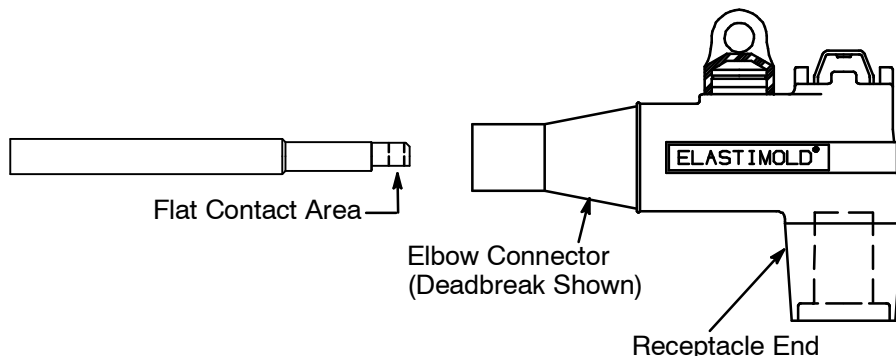
#### **STEP 1**

Lightly lubricate the surface of the insulating plug with the supplied lubricant or ELASTIMOLD® approved lubricant for a distance of approximately 4-1/2" from the second chamfered step. DO NOT SUBSTITUTE. Other lubricants may be harmful to this product or its mating product(s).



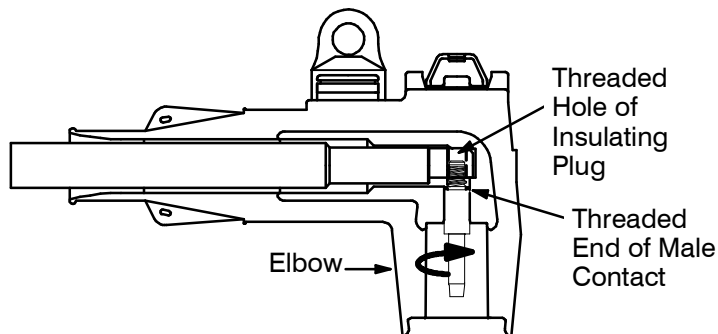
## STEP 2

Position the insulating plug so the flat contact area faces the receptacle end of the elbow connector. Now slide the 10EP into the elbow connector until it cannot advance any further. Look into the receptacle end of the elbow to determine if the threaded hole in the 10EP is properly positioned to accept the male contact. If it is not, then use pliers on the exposed end of the 10EP to turn it into position.



## STEP 3

Remove protective cap from threads of the male contact before installing. Insert the threaded end of the male contact into the threaded hold of the insulating plug located in the receptacle end of the elbow. Hand tighten this contact. *Do not tighten until the wrench bends as indicated in the elbow connector instructions.*



SNUG TIGHTEN ONLY TO AVOID STRIPPING THREADS.

## STEP 4

Lightly lubricate both bushing and elbow connector mating surfaces and complete assembly as indicated in instructions for the elbow.

*Elbows using the 10EP **must be grounded** by connecting a piece of wire equivalent to No. 14 AWG (2,5mm<sup>2</sup>) copper from the apparatus ground to the elbow grounding eye.*

## VOLTAGE TEST

The ELASTIMOLD elbow connectors are equipped with an integral capacitance test point that 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 silicone grease and replace it on the test point.