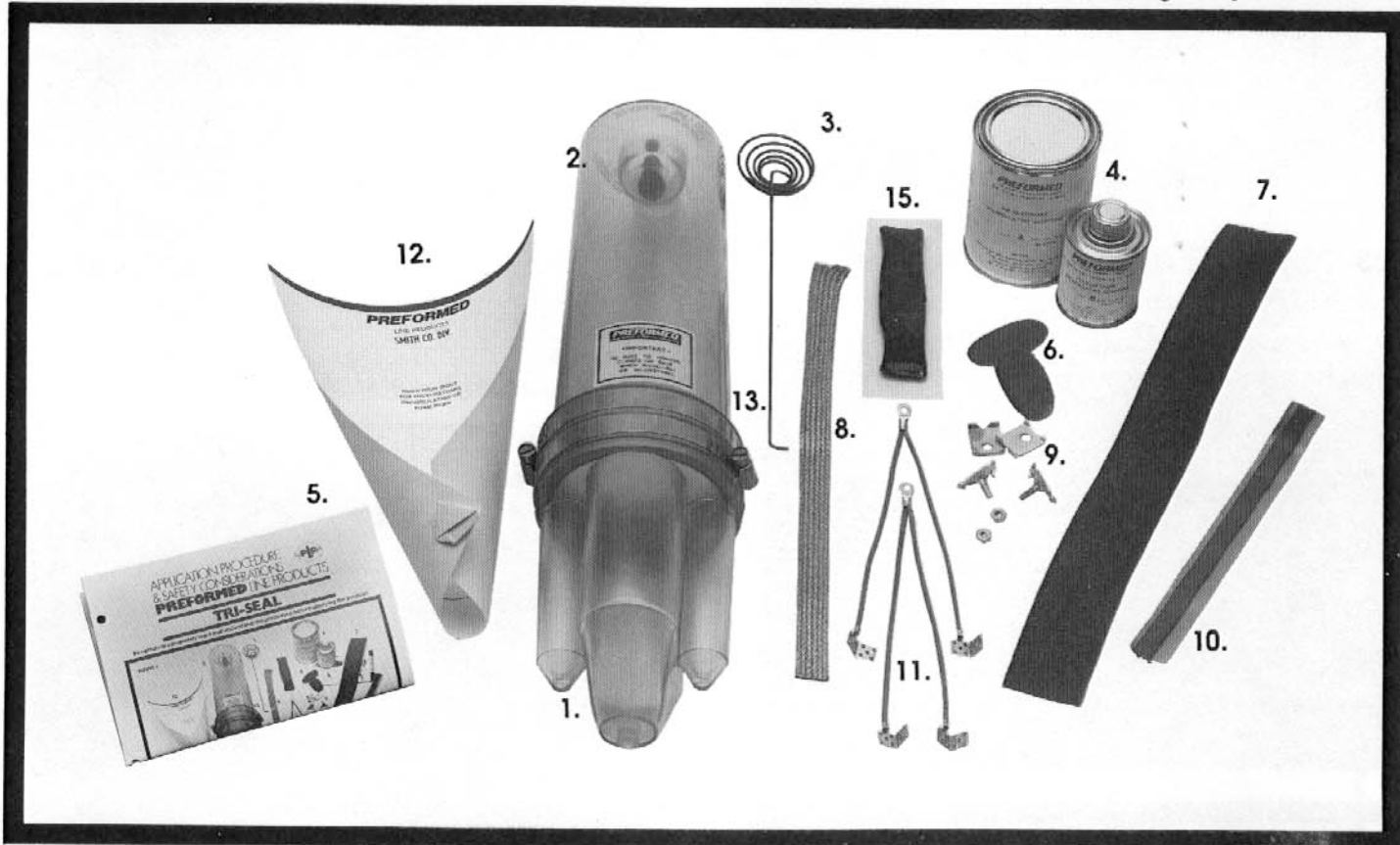


# APPLICATION PROCEDURE & SAFETY CONSIDERATIONS **PREFORMED** LINE PRODUCTS



## **TRI-SEAL**

Be certain to completely read and understand this procedure before applying the product.



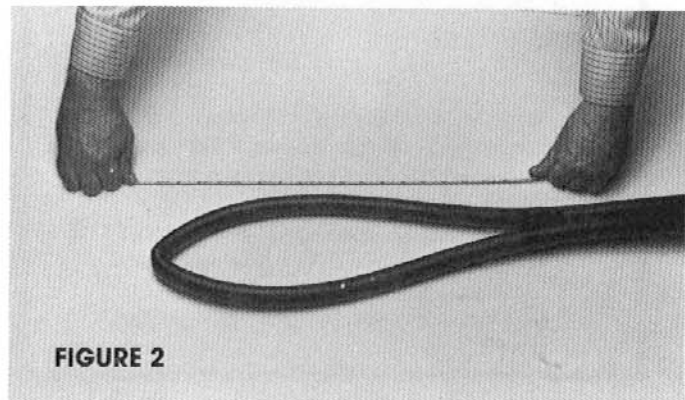
Be certain to select the proper size PREFORMED product before application.

### **NOMENCLATURE**

1. Base (two hose clamps included)
2. Clear cap
3. Resin mixer
4. Polyurethane resin
5. Application procedure
6. Pair Protectors
7. Emery cloth (for scuffing sheath)
8. Cable bonding braid
9. SURE-GRIP Shield Connectors
10. Moisture barrier sealant
11. Service wire bond connectors
12. Funnel
13. Gasket
14. Gloves (not shown)
15. Black sealing tape

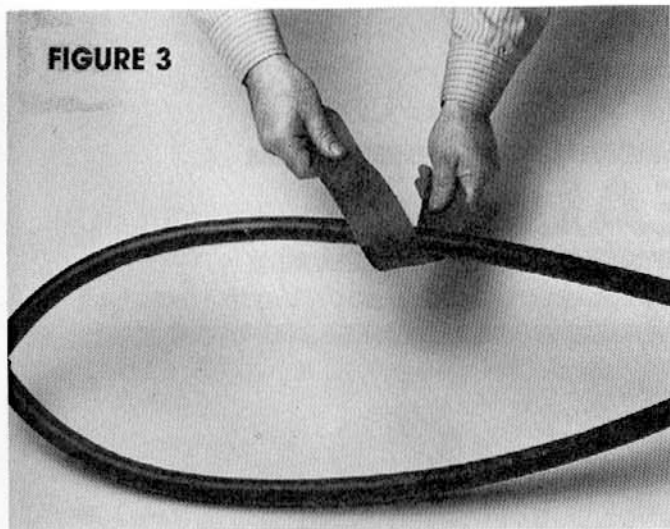
### **1.00 CABLE PREPARATION**

- 1.01 Measure and mark the cables for a 24" cable opening. The loop should be approximately 12" long. (Fig. 2) Measure and mark the drop wires for an 18" opening.



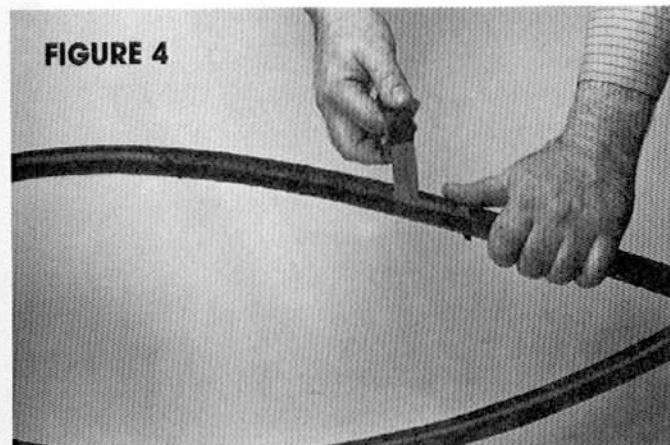
**FIGURE 2**

**1.02** Scuff 6" of the cable and the drop wire sheath below the cable opening mark. (Fig. 3)



**FIGURE 3**

**1.03** Cover the scuffed areas with vinyl tape. (Fig. 4)

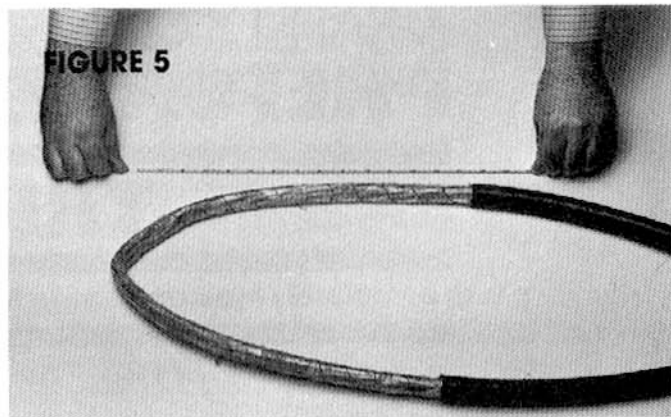


**FIGURE 4**

**PLP TIP:**

The vinyl tape is applied on the cables and drop wires to prevent any cable compound from getting on the cable sheath during the sheath opening procedure.

**1.04** Open and remove sheath from the drop wires and cables. (Fig. 5)

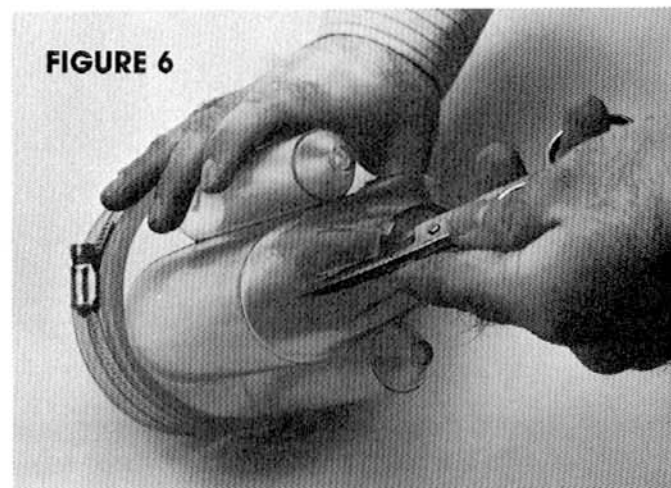


**FIGURE 5**

**1.05** Insert the pair protectors supplied with the kit, or construct a tape collar if your company practice directs.

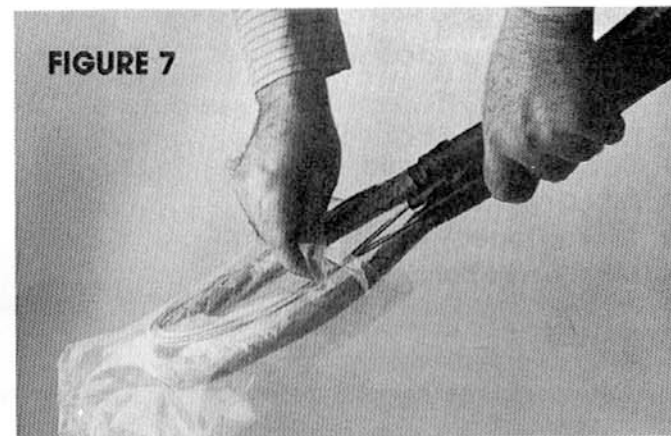
**1.06** Remove excess grease from cable pairs and drop wire pairs.

**1.07** Tab the base of the Tri-Seal as much as is necessary to insert cable bundle. (Fig. 6)



**FIGURE 6**

**1.08** Use the plastic small parts bag as a protective hood to cover all exposed pairs. (Fig. 7) Vinyl tape may be applied over the bag for ease of application.

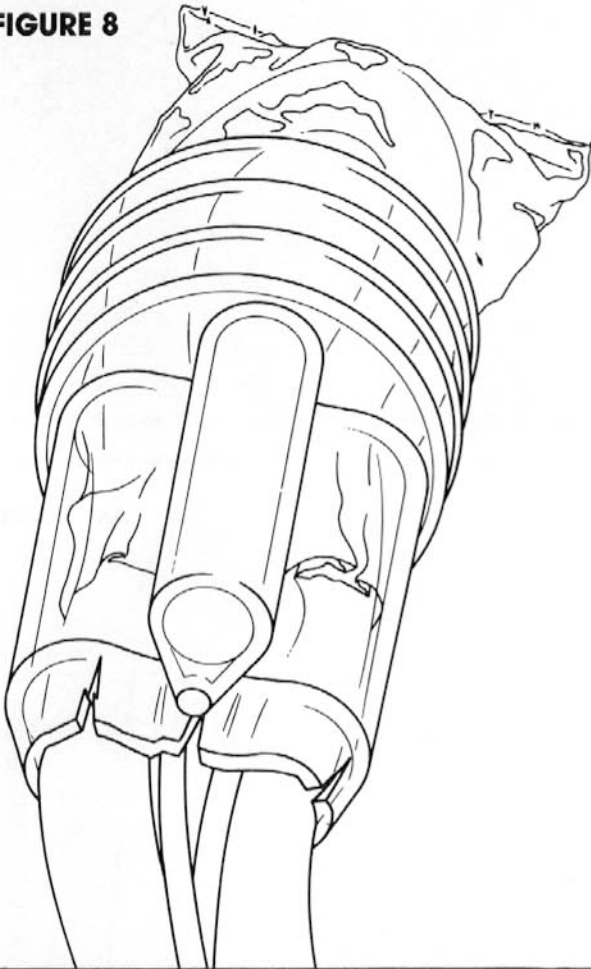


**FIGURE 7**

**PLP TIP:**

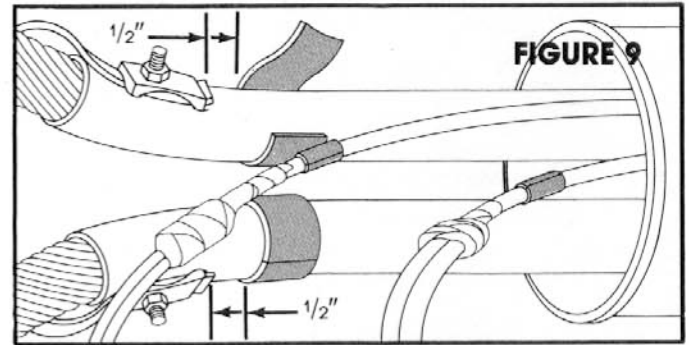
This will keep the cable compound and any other foreign matter from adhering to the inside of the Tri-Seal base when you insert the cables.

- 1.09** Run the bundle of cables through the opening that was cut into the Tri-Seal's base. (Fig. 8)

**FIGURE 8**

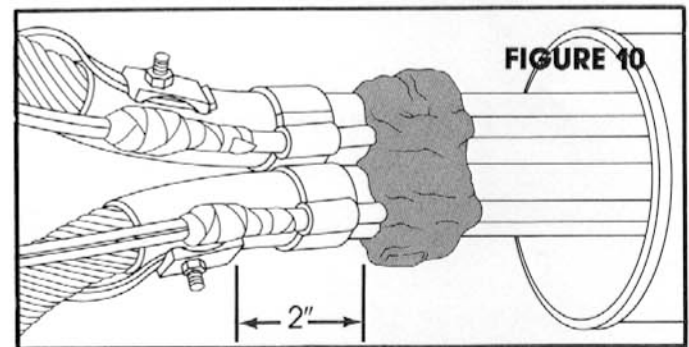
- 1.10** Remove the protective bag and apply bonding connectors as directed by your company practices.
- 1.11** Complete your splicing operation.
- 1.12** Clean hands thoroughly and remove vinyl tape from cable and drop wires. (See 1.03)

- 1.13** Apply a ring of the moisture barrier sealant supplied with the kit to each cable and drop wire 1/2" below the bonding connectors. (Fig. 9)

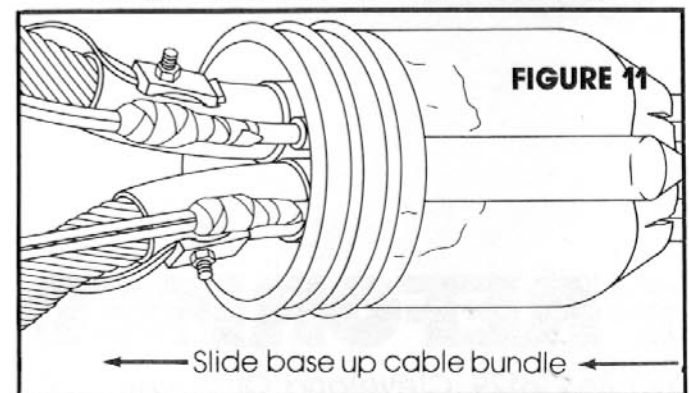
**PLP TIP:**

Proper application of the moisture barrier sealant is extremely important. It provides a moisture seal between the cable and the resin.

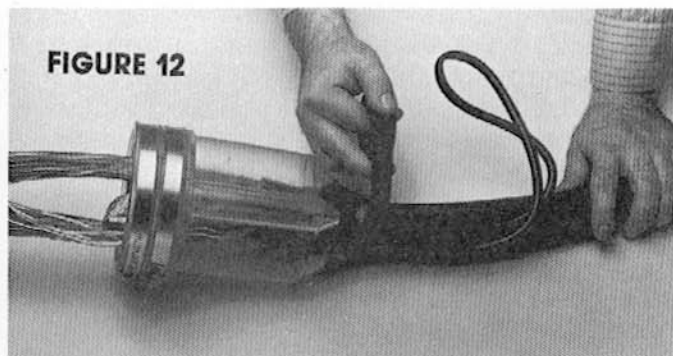
- 1.14** Construct a resin block by applying a ring of the black sealant supplied with the kit around each cable and service wire 2" below the shield bond connectors. (Fig. 10) Squeeze cables and service wires tightly so as to form a round bundle. Knead the sealant in and around each cable leg and drop wire.

**2.00 APPLICATION OF BASE AND CAP**

- 2.01** Slide the Tri-Seal's base up the cable bundle and press firmly around the sealant. (Fig. 11)



- 2.02** Apply a layer of sealant around the base. Now apply two half-lapped layers of vinyl tape over the sealant as shown. (Fig. 12) Make certain that all the tabs in the base have been covered.

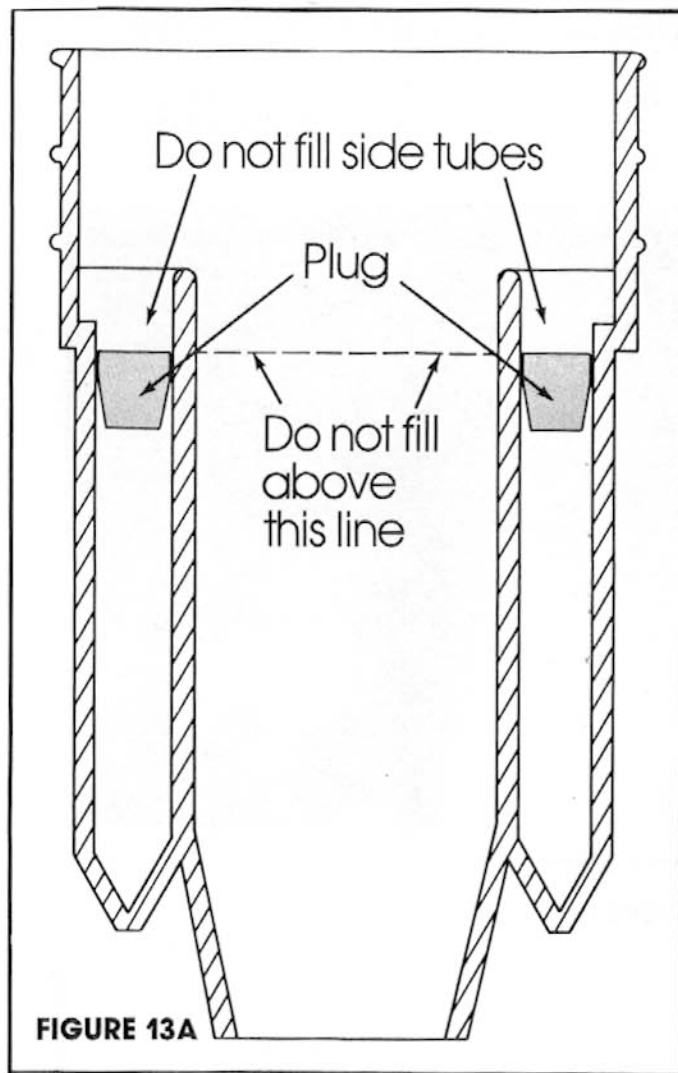


**FIGURE 12**

- 2.03** During Step 2.04 you will be mixing and pouring the resin. Separate all the cable pairs. This will assure proper encapsulation.
- 2.04** Follow the directions on the resin kit and pour the resin into the center tube of the Tri-Seal as shown. Be certain you DO NOT pour the resin into the plugged side tubes. (Fig. 13) (Fig. 13A) Using the paper funnel provided in the kit will facilitate the ease of application.



**FIGURE 13**



**FIGURE 13A**

**PLP TIP:**

The Tri-Seal must be level and firmly braced prior to pouring the resin. Do not disturb until the resin hardens. Depending upon the temperature, this should take approximately 30 to 60 minutes.

**2.05** Now place the top onto the base of the Tri-Seal and tighten the hose clamps firmly as shown. (Fig. 14) Make certain the rubber gasket is around the cap (rough side out) as shown. (Fig. 14A)

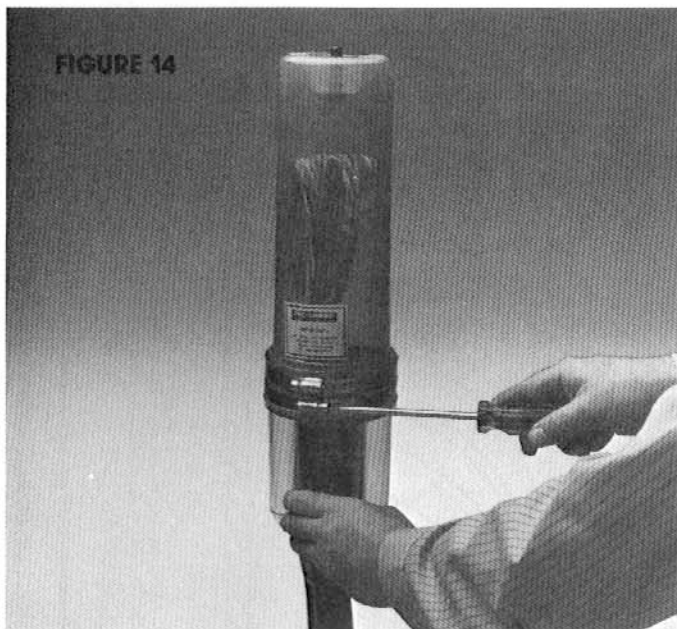


FIGURE 14

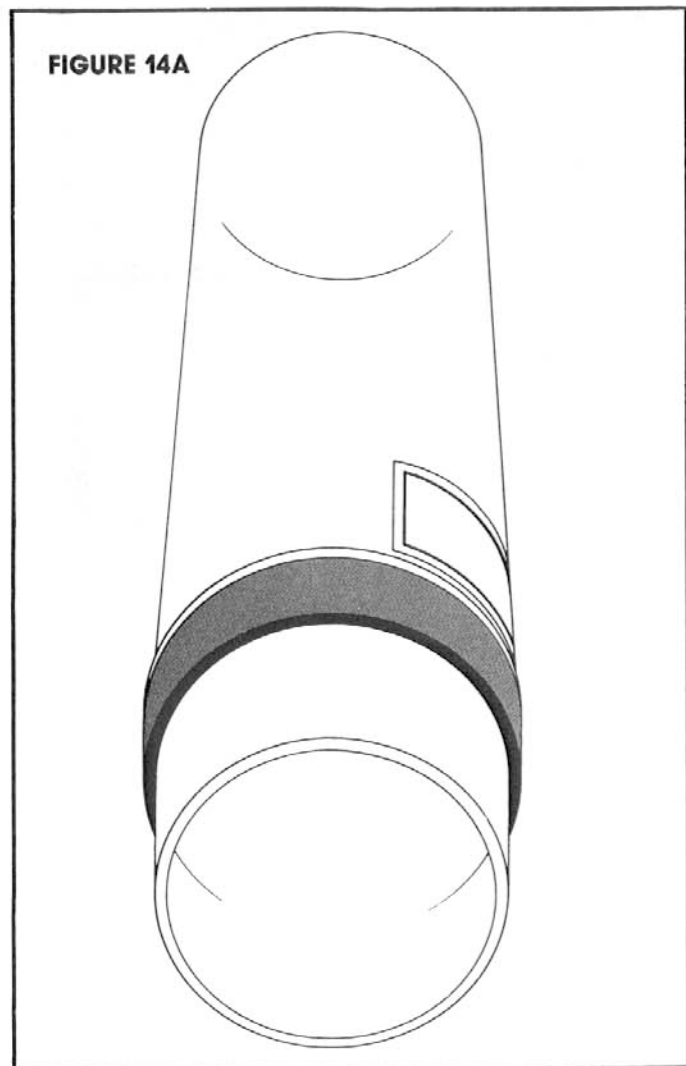


FIGURE 14A

**2.06** Flash testing – The unit that you receive may be equipped with an air valve on the top. If this unit is to be flash tested, use **NO MORE** than 3 lbs. (3 PSI) of air pressure. After flash testing, bleed pressure from the unit by depressing the valve stem. This unit is not designed to accept high internal pressure. Excess pressure could result in the cap blowing off the unit and causing personal injury. Before loosening the clamps and removing the cap, be sure to depress the valve stem to bleed any excess pressure that may have been left from the previous installations.

**2.07** This is the completed application of the PRE-FORMED Tri-Seal. (Fig. 15) The extra tubes of the Tri-Seal can accommodate extra cables and drops for any future cable construction.

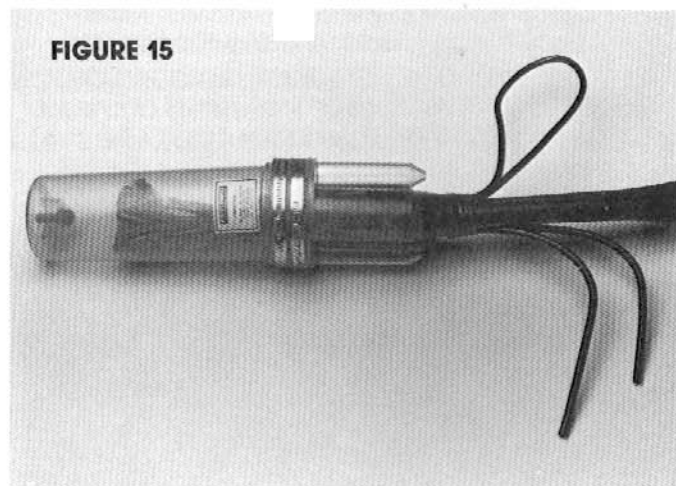


FIGURE 15

#### SAFETY CONSIDERATIONS

1. REVIEW SECTION 2.06.
2. This application procedure is not intended to supersede any construction, safety or design standards. Our recommendations are offered only to illustrate safe use of the Tri-Seal. Failure to follow these guide lines and restrictions may result in product mis-application and/or personal injury.
3. For proper performance and personal safety, be sure to select the proper Tri-Seal before installation.
4. When working in the area of energized lines, extra care should be taken to prevent accidental electrical contact.
5. This product is intended for use by trained craftsman only. This product **SHOULD NOT BE USED** by anyone who is not familiar with and trained in the use of it.



# **PREFORMED** LINE PRODUCTS

P.O. Box 91129, Cleveland, Ohio 44101 • 440.461.5200 • [www.preformed.com](http://www.preformed.com) • e-mail: [inquiries@preformed.com](mailto:inquiries@preformed.com)

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