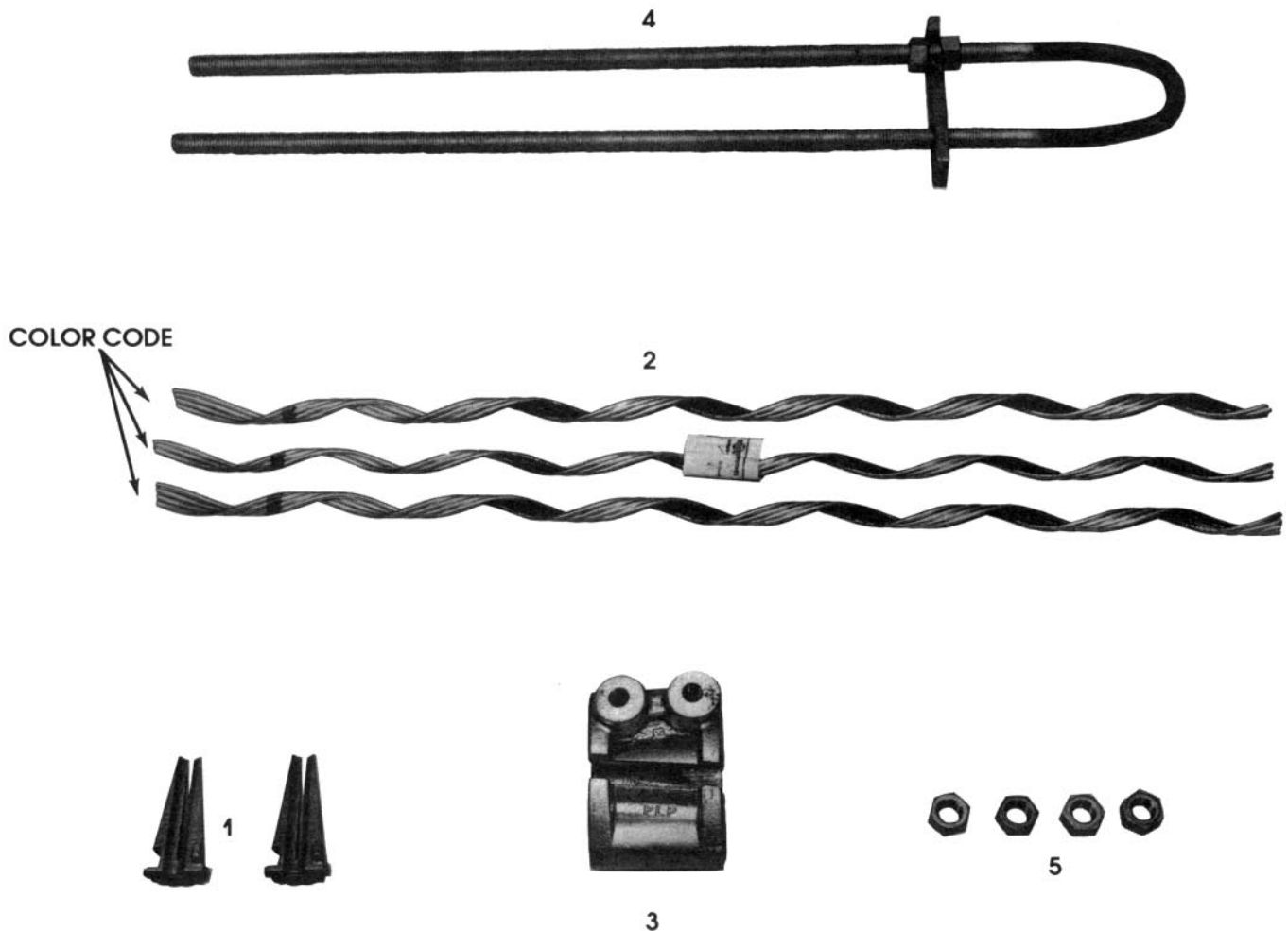


# APPLICATION PROCEDURE & SAFETY CONSIDERATIONS **PREFORMED** LINE PRODUCTS **FIBERLIGN® Dead-end**



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

FIGURE 1



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

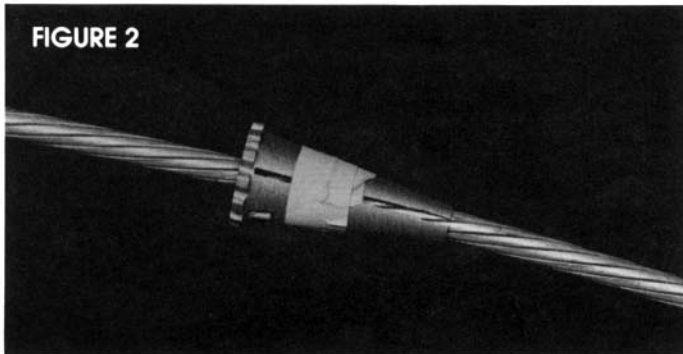
## 1.00 NOMENCLATURE

1. FIBERLIGN Dead-end Wedge
2. FIBERLIGN Dead-end Retaining Rods
3. FIBERLIGN Dead-end Housing (with grounding tap  $\frac{3}{4}$ " depth - typically

- for  $\frac{1}{2}$ "-13UNC-2A galvanized steel bolt)
4. FIBERLIGN Dead-end U-bolt with Spacer Bar attached
5. FIBERLIGN Dead-end Nuts

## 2.0 FIBERLIGN DEAD-END RETAINING ROD APPLICATION

**2.01** Position the two halves of the FIBERLIGN Dead-end Wedge around optical ground wire with the wide end of the wedge toward the dead-end structure. Using a thin layer of tape, wrap once to secure halves during installation (Fig. 2).

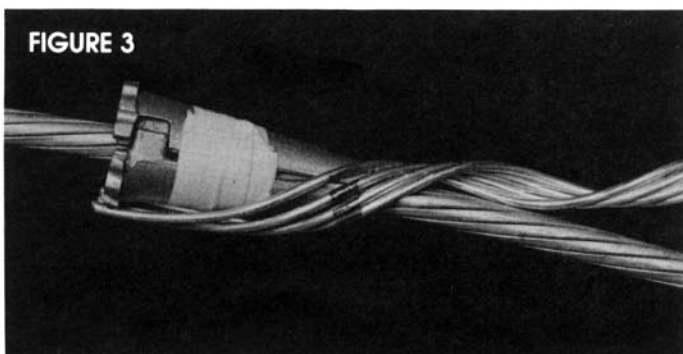


**2.02** Separate the FIBERLIGN Dead-end Retaining Rod subsets to facilitate handling and application.

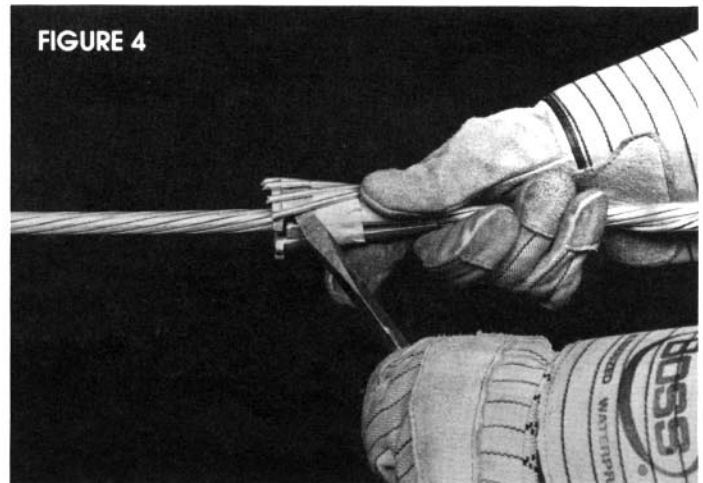
**NOTE:** Always check the tag on each set of retaining rods to be sure that the strand size matches the size denoted on the tag. FIBERLIGN Dead-end Retaining Rods are not interchangeable with standard VARI-GRIP dead-end retaining rods. Because the sets are factory matched, do not intermix rods from different sets or attempt to apply more rods than supplied.

**2.03** Apply the subset with the most rods first. Place the straight end of the rods (color coded ends) into the grooves of the wedge. Allow the retaining rods to extend about  $\frac{1}{4}$ " beyond the wedge. Be sure the lay of the retaining rods **matches** the lay direction of the optical ground wire (Fig. 3)

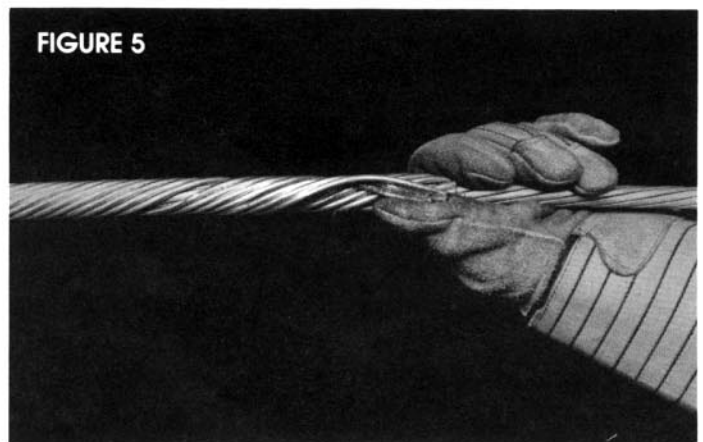
**NOTE:** The spaces where the two halves of the wedge meet are also considered grooves for placement of retaining rods.



**2.04** After the rods in the first subset are in place, snap each rod into the appropriate groove on the wedge. If working with the rods becomes difficult, use a screwdriver to split the rods and snap into place (Fig. 4).



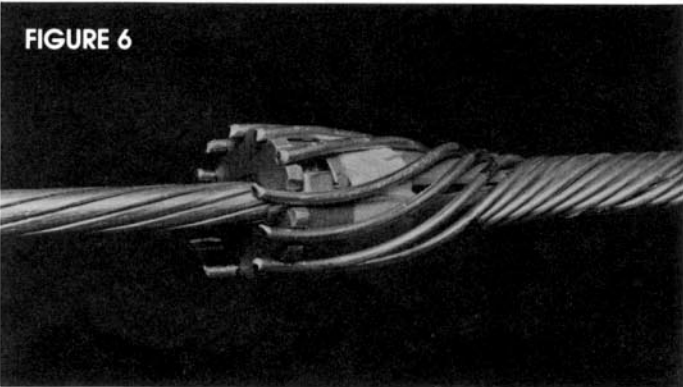
**2.05** Wrap all retaining rods onto the ground wire, being careful not to cross or overlap rods (Fig. 5)



### PLP TIP:

When applying rods in subsets, count four wedge grooves to the left, and position the farthest left rod of the subset into the groove. Position subsequent rods into the nearer grooves and apply the other subsets.

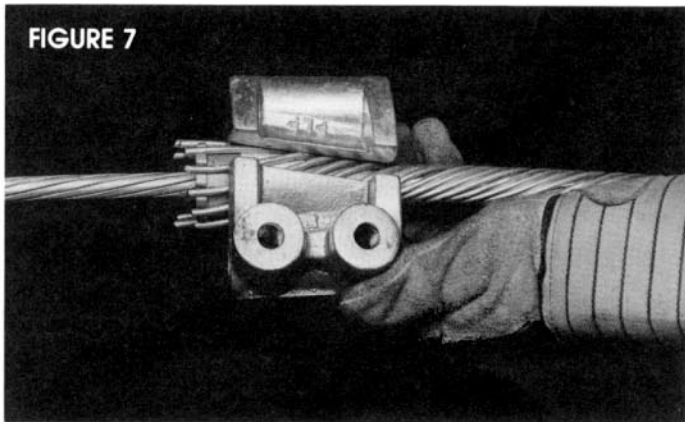
**2.06** Apply the rest of the retaining rods to the slots in the wedge. Snap the rods into place and wrap with the lay of the strand (Fig. 6). Attempt to balance openings left in the wedge. This will assure the most even load distribution.



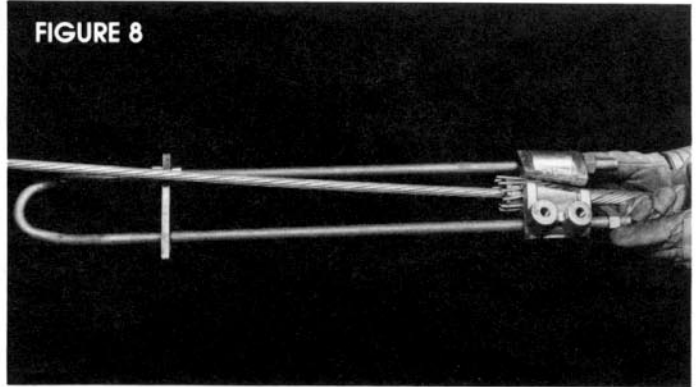
**NOTE:** It is alright if you have one, two, or three more grooves than rods. However, if you have more than three empty grooves, go back and check each rod for proper application. **DO NOT OVERLAP OR CROSS RODS.**

### **3.00 FIBERLIGN DEAD-END HOUSING AND U-BOLT APPLICATION**

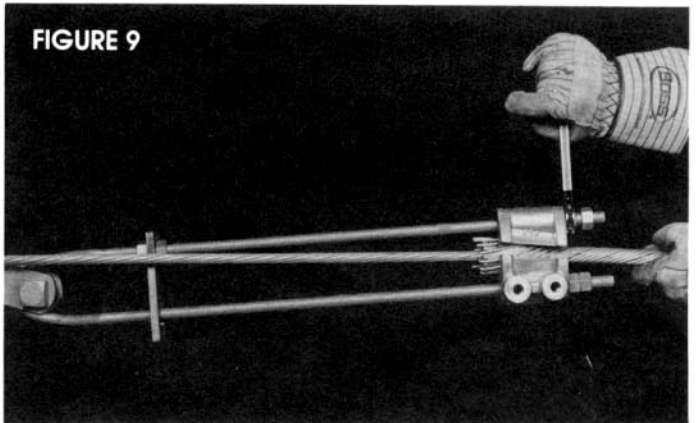
**3.01** Position the cable into the slot of the housing and slide the housing around the smaller end of the wedge and slide up onto the wedge. Pull the wedge in to seat it securely in position (Fig. 7).



**3.02** Apply the U-bolt to the attachment hardware and then secure the spacer bar. With the spacer bar in position, slide the two ends of the U-bolt through the holes in the housing from the termination end of the housing until the ends of the U-bolt extend about 1½". Apply one nut to each end of the U-bolt (Fig. 8).

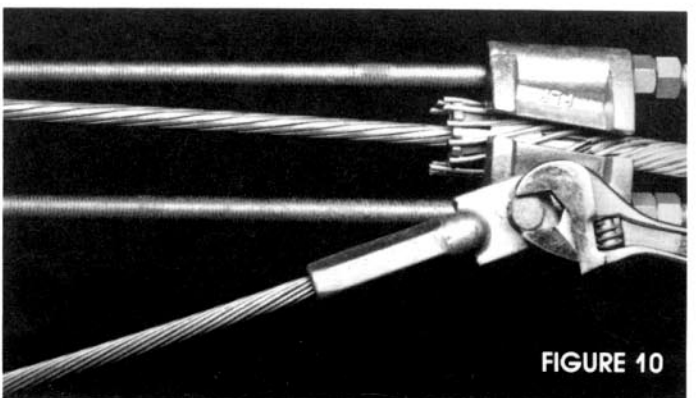


**3.03** Release the tensioning device that has held the cable to this point. Apply tension to the strand with a wrench, adjusting to the final desired tension (Fig. 9).



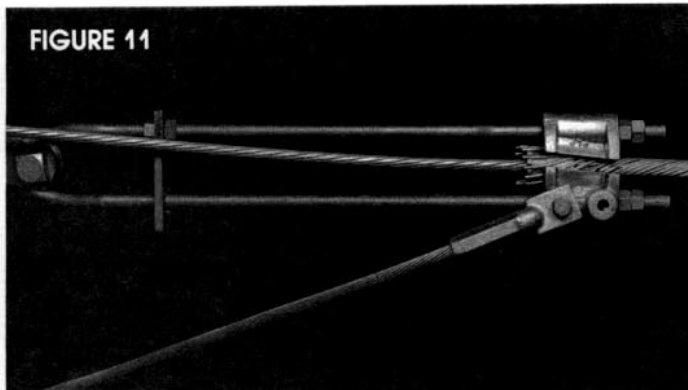
**3.04** Attach the grounding strap or lead (not supplied) and wrench it tight (Fig. 10).

**NOTE:** Grounding tap will accept a ½"-13UNC-2A galvanized bolt. Depth of tap ¾".



**NOTE:** The ground may be attached to a tower or it may be run to the ground and buried. Follow the procedure recommended by your utility for proper application.

**3.05** Apply the second set of nuts to the U-bolt. Use a locking wrench to lock the nuts against each other (Fig. 11).



**FIGURE 11**

**PLP TIP:**

If you need to re-adjust the tension later, unlock the nuts and back the outer ones off. Then slide a wrench over them and onto the first nut to adjust.

**SAFETY CONSIDERATIONS**

- 1.** This application procedure is not intended to supersede any construction, safety or design standards. PREFORMED's recommendations are offered only to illustrate safe use of the FIBERLIGN Dead-end. Failure to follow these guidelines and restrictions may result in product misapplication and/or personal injury.
- 2.** When working in the area of energized lines, take extra care to prevent accidental electrical contact.
- 3.** For proper performance and personal safety, be sure to select the proper size FIBERLIGN Dead-end before application.
- 4.** This product is intended for use by trained craftsmen only. This product **SHOULD NOT BE USED** by anyone who is not familiar with and trained in the use of it.