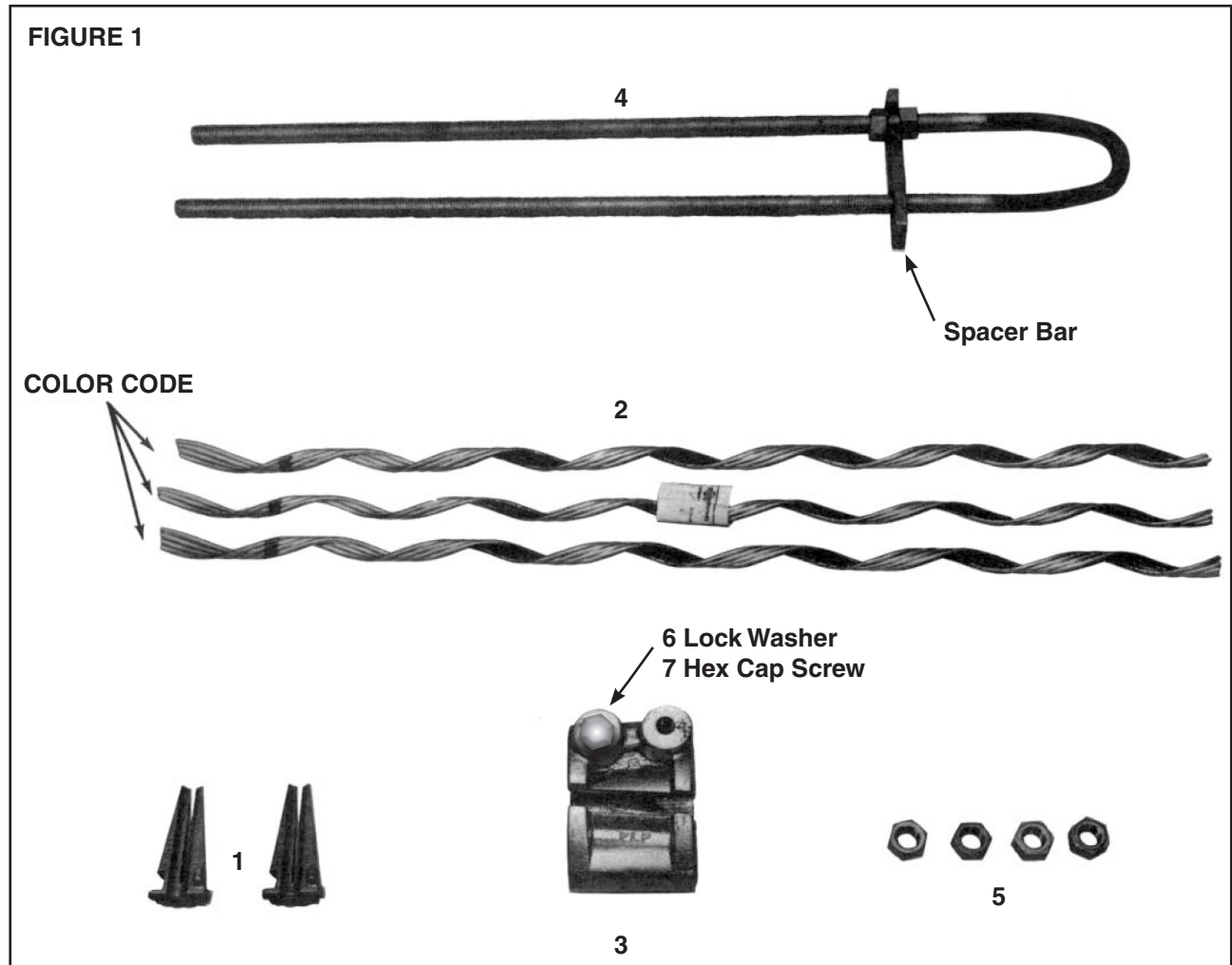




FIBERLIGN® Dead-End for Optical Ground Wire (OPGW) Cable

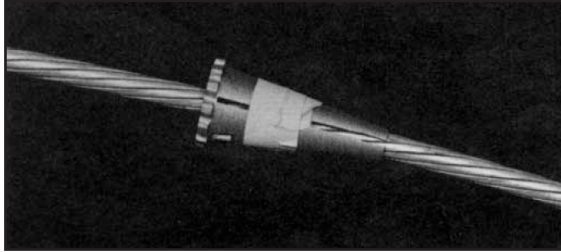
Be sure to read and completely understand this procedure before applying product.
Be sure to select the proper size PREFORMED™ product before application.



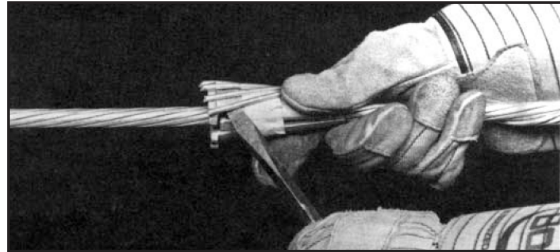
NOMENCLATURE

1. FIBERLIGN Dead-End Wedge
2. FIBERLIGN Dead-End Retaining Rods
3. FIBERLIGN Dead-End Housing (with grounding tap 3/4" depth - typically for 1/2" - 13UNC-2A galvanized steel bolt)
4. FIBERLIGN Dead-End U-bolt with Spacer Bar attached
5. FIBERLIGN Dead-End Nuts
6. Lock Washer (Catalog Number 0053111)
7. Hex Cap Screw (Catalog Number 00051981)

Step #1 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.



Step #4 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.



Step #2 Separate the FIBERLIGN Dead-end Retaining Rod subsets to facilitate handling and application.

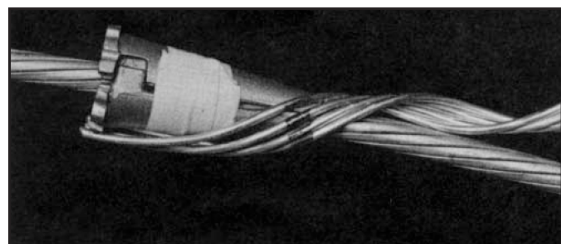
NOTE: Always check the tag on each set of retaining rods to make sure that the OPGW cable diameter falls within the size denoted on the tag. FIBERLIGN Dead-end Retaining Rods are not interchangeable with standard VARI-GRIP™ Dead-end retaining rods. Because the sets are factory matched, do not intermix rods from different sets or attempt to apply more rods than supplied.

Step #5 Wrap all retaining rods onto the OPGW, being careful not to cross or overlap rods.



Step #3 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 1/4" beyond the wedge. Be sure the lay of the retaining rods matches the lay direction of the optical ground wire.

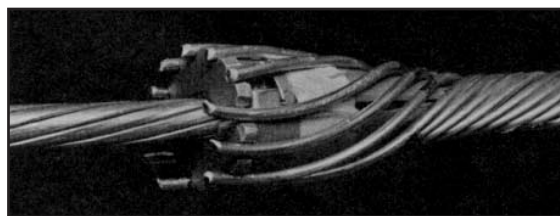
NOTE: The spaces where the two halves of the wedge meet are also considered grooves for placement of retaining rods.



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.

Step #6 Apply the rest of the retaining rods to the grooves in the wedge. Snap the rods into place and wrap with the lay of the OPGW cable.

Attempt to balance openings left in the wedge. This will assure the most even load distribution.

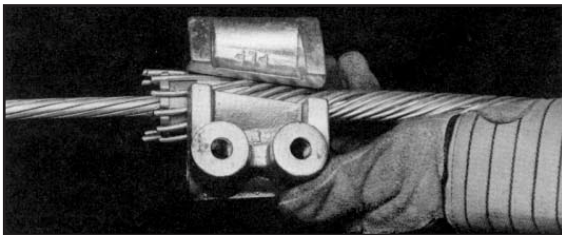


NOTE: It is alright if you have one, two, or three more grooves than rods. However, if you have more than three empty grooves, go back and check each rod for proper application.

DO NOT OVERLAP OR CROSS RODS.

Step #7 Position the cable into the slot of housing. The housing slot width will accept the bare OPGW cable just beyond retaining rod ends in the span. Position the cable into the slot of the housing and slide the housing from the span end of the retaining rods to the small end of the wedge.

Continue to slide the housing up onto the wedge until it is fully engaged and seated securely into position.

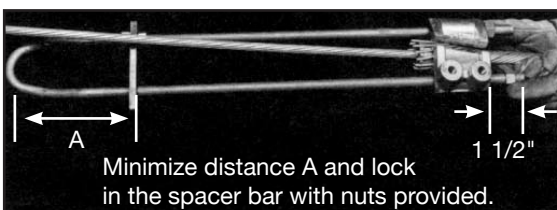


Step #8 Apply the U-bolt to the attachment hardware and then secure the spacer bar.

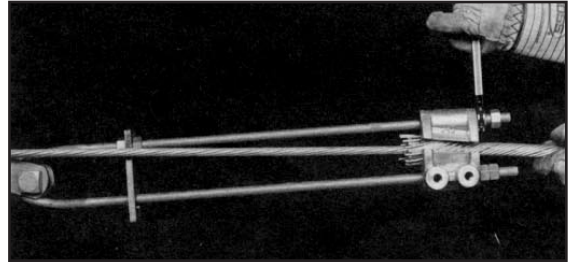
The spacer bar should be located closest to the U-bolt bend as shown in the figure below (Distance "A"). This provides adequate clearance for the OPGW Cable exiting the insert.

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 1-1/2".

Apply one nut to each end of the U-bolt.

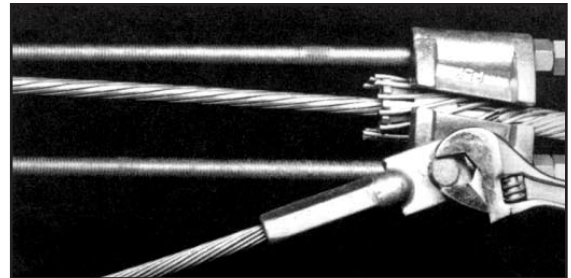


Step #9 Release the tensioning device that has held the cable to this point. Apply tension to the strand with a wrench, adjusting to the final desired tension.



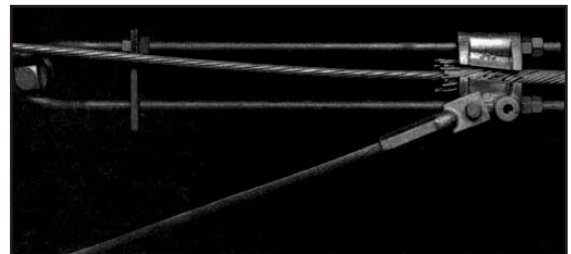
Step #10 Attach the grounding strap or lead (not supplied) and tighten.

NOTE: Grounding tap will accept a 1/2"-13UNC-2A galvanized bolt. Depth of tap 3/4".



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.

Step #11 Apply the second set of nuts to the U-bolt. Use a locking wrench to lock the nuts against each other.



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. Tightening adjustment from 1 1/2" in Step 8 up to 4" maximum can be made.

SAFETY CONSIDERATIONS

This application procedure is not intended to supersede any company construction or safety standards. This procedure is offered only to illustrate safe application for the individual.

FAILURE TO FOLLOW THESE PROCEDURES MAY RESULT IN PERSONAL INJURY OR DEATH.

This product may be removed and reinstalled during the initial installation if it is in good condition. After extended service life, it is recommended the product not be reused once removed from service.

Do not modify this product under any circumstances.

This product is intended for use by trained technicians only. **This product should not be used by anyone who is not familiar with, and not trained to use it.**

When working in the area of energized lines, extra care should be taken to prevent accidental electrical contact. Be sure to wear proper safety equipment per your company protocol.

For proper performance and personal safety, be sure to select the proper size PREFORMED™ product before application.

PREFORMED products are precision devices. To ensure proper performance, they should be stored in cartons under cover and handled carefully.



PREFORMED LINE PRODUCTS

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