

APPLICATION PROCEDURE
& SAFETY CONSIDERATIONS



PREFORMED LINE PRODUCTS

**FIBERLIGN® CUSHION CLAMP
FOR OPGW**

NOVEMBER 1999

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

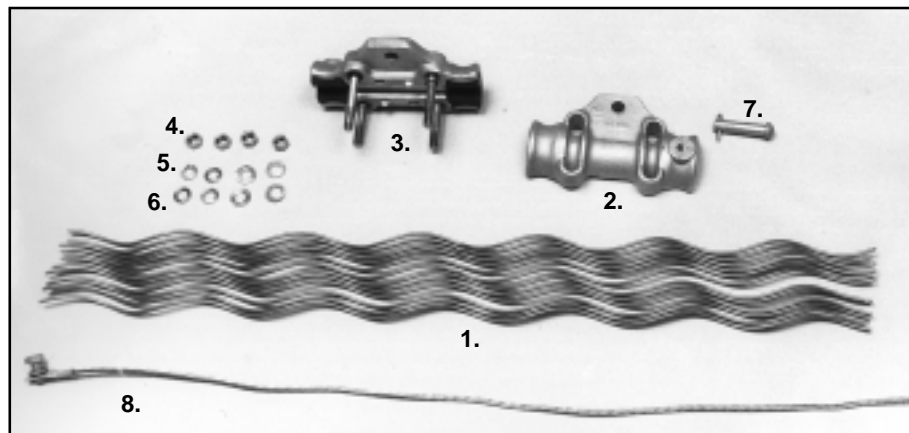


FIGURE 1 - NOMENCLATURE

1.00 NOMENCLATURE

1. Structural Reinforcing Rods
2. Cushion Clamp (keeper half)
3. Cushion Clamp (U-bolt half)
4. Hex Nuts (4)
5. Lock Washers (4)
6. Washers (4)
7. Pin and Cotter Key
8. Grounding Wire Assembly
(ordered separately; bolt and lock washer included with Cushion Clamp)

2.00 STRUCTURAL REINFORCING ROD APPLICATION

2.01 Plumb suspension and mark OPGW at the center of sheave. Use felt marking pen or lumber crayon; do not scratch OPGW. Lift the OPGW beyond the ends of the rods to allow sufficient clearance for the application.

2.02 Apply the factory-marked center line of the first Structural Reinforcing Rod to the center mark on the cable. Wrap the first rod around the cable. (Figure 2)



FIGURE 2 - APPLY AND WRAP FIRST ROD AROUND CABLE

NOTE: Leave the last 8"-12" on both ends of the Structural Reinforcing Rods loose. This will enable you to check that a rod has not shifted, or "walked," on the cable and will allow simplified final makeup.

2.03 Apply all remaining Structural Reinforcing Rods around the cable. (Figure 3) When most of the rods are applied and most gaps are closed, the remaining rods will push between rods already applied to assure a strong, armored reinforcement. **MAKE SURE THAT NO RODS ARE CROSSED AND THAT ALL RODS ARE EVENLY SPACED.**



FIGURE 3 - APPLY REMAINING STRUCTURAL REINFORCING RODS

PLP TIP: Be sure that the alignment of all rod ends is maintained within 2". It is acceptable to remove and reapply rods that exceed this limit during initial installation. **DO NOT** reapply rods after completed installation of the assembly.

2.04 To complete application of Structural Reinforcing Rods, use both hands to wrap and snap rods simultaneously into position. First, wrap one end bundle and then wrap the other end bundle. (Figure 4)



FIGURE 4 - WRAP END BUNDLE

NOTE: FIBERLIGN® Cushion Clamp Structural Reinforcing Rods are not interchangeable with standard Armor Rods, ARMOR-GRIP® Suspension Rods, or any FIBERLIGN® Suspension

Structural Reinforcing Rods. Because the sets are factory matched, do not mix rods from different sets or attempt to apply more rods than supplied.

3.00 CUSHION CLAMP APPLICATION

3.01 Align the center of the Cushion Clamp half with the U-bolts alongside the center line of the applied Structural Reinforcing Rods. (Figure 5)

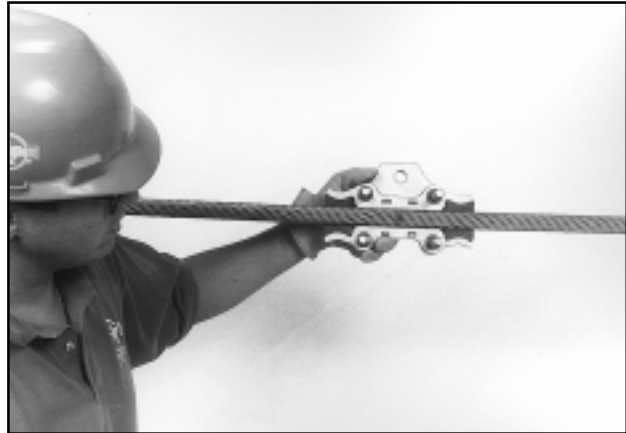


FIGURE 5 - ALIGN CUSHION CLAMP HALF WITH CENTER LINE

3.02 Install the other Cushion Clamp half into place making sure to align the captured U-bolts with the holes in the keeper. (Figure 6)

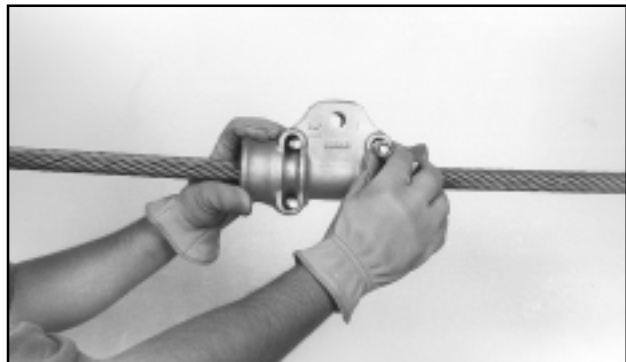


FIGURE 6 - INSTALL KEEPER HALF

3.03 Install the provided washers, lock washers and nuts onto the U-bolts. Gradually draw the Cushion Clamp halves together by tightening the nuts evenly with a torque wrench. (Figure 7) This will provide even pressure on the captured cable and equal thread engagement on each U-bolt. Tighten the nuts until 30 ft. lbs. of torque is achieved on each. The amount of exposed thread beyond each nut should be approximately the same upon final tightening.

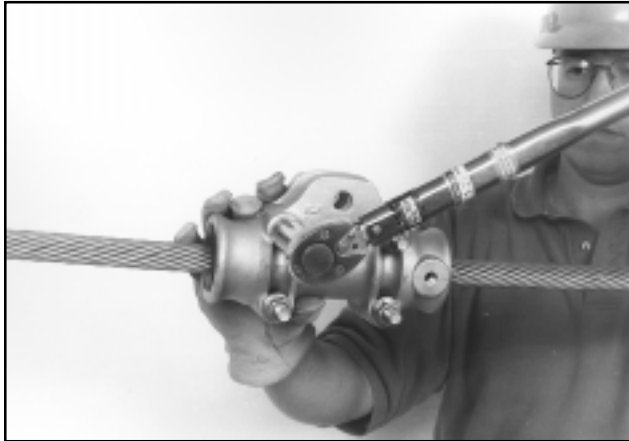


FIGURE 7 - TIGHTEN NUTS

3.04 Figure 8A shows the completed application of the FIBERLIGN® Cushion Clamp for OPGW. To install Grounding Wire Assembly (sold separately), attach to grounding boss with provided 1/2"-13 UNC x 3/4" bolt and lock washer. Tighten bolt until lock washer is flat. (Figure 8B)

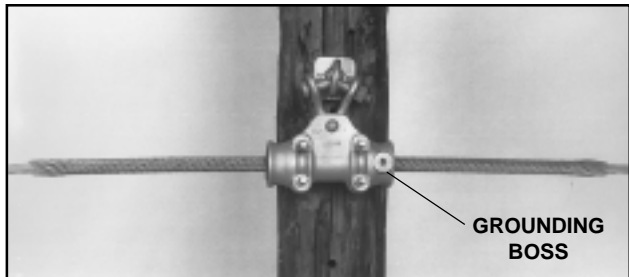


FIGURE 8A - COMPLETED APPLICATION

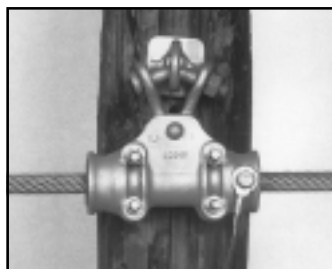


FIGURE 8B - INSTALL GROUNDING WIRE ASSEMBLY

SAFETY CONSIDERATIONS

1. 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. **CAUTION: FAILURE TO FOLLOW THESE PROCEDURES AND RESTRICTIONS MAY RESULT IN PERSONAL INJURY OR DEATH.**
2. This product is intended for a single (one-time) use and for the specified application. However, the hardware components may be reused as desired if in good condition. **CAUTION: DO NOT REUSE THE RODS OR MODIFY THIS PRODUCT UNDER ANY CIRCUMSTANCES.**
3. This product is intended for use by trained craftspeople only. This product **SHOULD NOT BE USED** by anyone who is not familiar with, and trained in the use of it.
4. When working in the area of energized lines with this product, **EXTRA CARE** should be taken to prevent accidental electrical contact.
5. For **PROPER PERFORMANCE AND PERSONAL SAFETY** be sure to select the proper size **PREFORMED™** product before application.
6. **PREFORMED** products are precision devices. To insure proper performance, they should be stored in cartons under cover and handled carefully.

PREFORMED LINE PRODUCTS 

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