



APPLICATION PROCEDURE

FIBERLIGN® Suspension for OPGW & ADSS

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

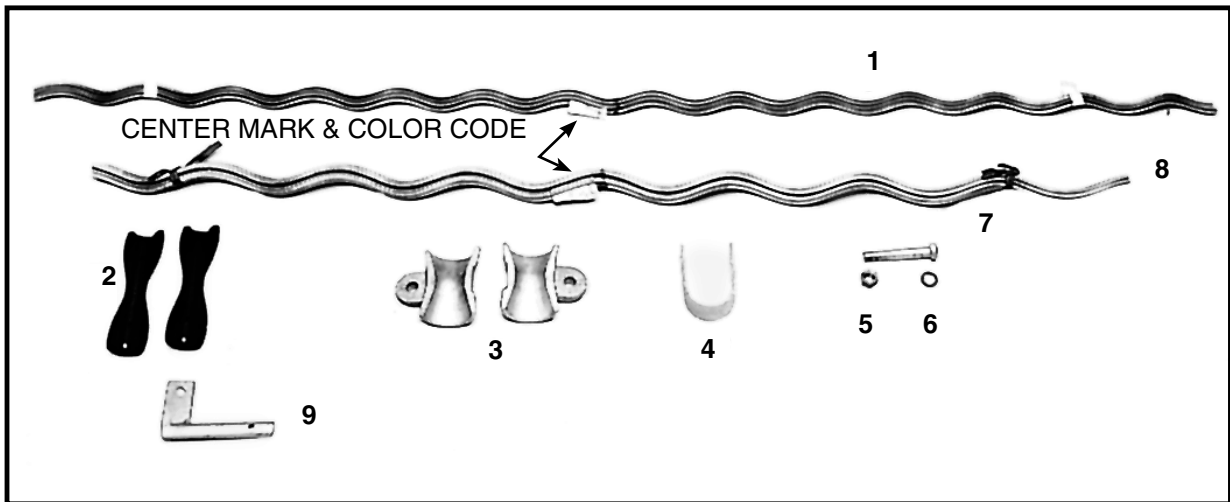


Figure 1

NOMENCLATURE

1. FIBERLIGN Suspension Structural Reinforcing Rods
2. FIBERLIGN Suspension Insert
3. FIBERLIGN Suspension Housing
4. FIBERLIGN Suspension Strap
5. FIBERLIGN Suspension Lock Nut
6. FIBERLIGN Suspension Lock Washer
7. FIBERLIGN Suspension Bolt
8. FIBERLIGN Suspension Rods
9. FIBERLIGN Current Transfer Tab (supplied for OPGW installations only)

2.00 STRUCTURAL REINFORCING ROD APPLICATION

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

- 2.02** Apply the factory-marked centerline of the first FIBERLIGN Suspension Structural Reinforcing Rod to the center of the cable. Wrap the first rod around the cable (Fig. 2).

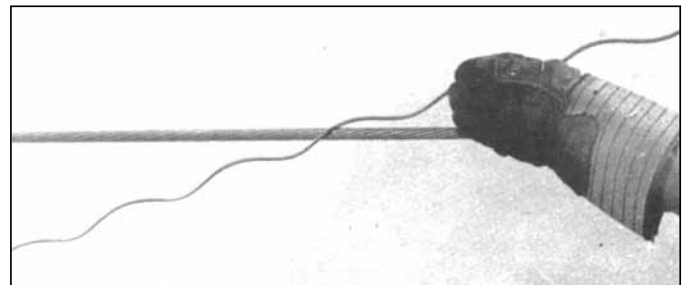


Figure 2

- NOTE:** Leave last 10-14" on both ends of the FIBERLIGN Suspension 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 make-up.

2.03 Apply all remaining reinforcing rods around the cable. 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 (Figure 3). **MAKE SURE THAT NO RODS ARE CROSSED AND THAT ALL RODS ARE EVENLY SPACED.**

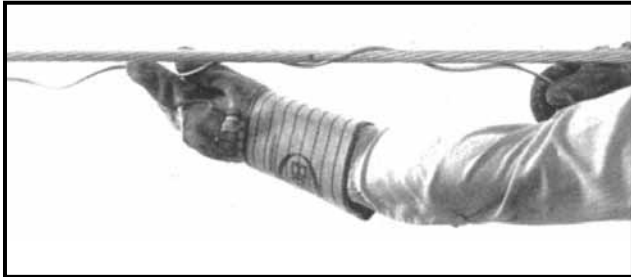


Figure 3

PLP Tip: Be sure that the alignment of all rod ends is maintained within 2". Remove and reapply any rods which exceed this limit.

2.04 To complete application, use both hands to wrap reinforcing rods simultaneously into position. Do one end bundle first, then the other end (Figure 4).

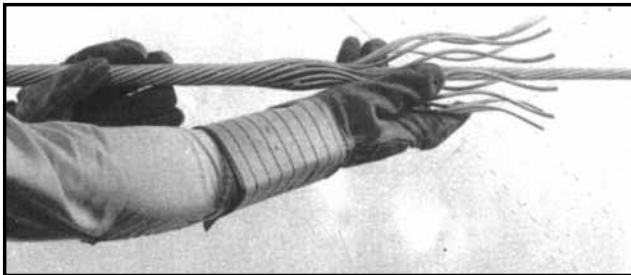


Figure 4

NOTE: FIBERLIGN® Suspension Structural Reinforcing Rods are not interchangeable with standard Armor Rods or ARMOR-GRIP® Suspension Rods. Because the sets are factory matched, do not attempt to apply more rods than supplied.

3.00: Insert current transfer tab and FIBERLIGN Suspension Rod Application

3.01 Align the centermarks of the inserts with the centerline of the applied reinforcing rods. Be sure to position inserts so that the joining faces are parallel to the ground. Tape in place with a thin layer of tape (Figure 5).

3.02 Position the Current Transfer Tab with the short leg of the tab resting lightly against the inserts. Tape in place with a thin piece of tape (Figure 5). Tab may be positioned with short legs down or in any convenient position. (For ADSS installations, omit this step and any other Current Transfer Tab instructions).

PLP Tip: For OPGW, scratch-brushing and the use of an inhibitor are recommended to maintain good electrical contact between the Current Transfer Tab and the structural reinforcing rods.

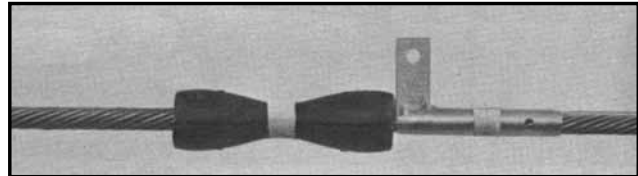


Figure 5

3.03 Center the first FIBERLIGN Suspension Rod on the insert with the color mark positioned out and wrap over the insert and the Current Transfer Tab (Fig. 5A, 5B, 6). Apply sufficient length of rod to assure stability, leaving final foot or so on each end free.

Figure 5A



5A. Proper application of one rod. The curvature of the rod follows the contour of the neoprene insert. **MAKE CERTAIN THAT THERE IS NO SPACE BETWEEN THE ROD AND INSERT.**

Figure 5B



5B. Improper application of one rod. **DO NOT WRAP ROD AROUND THE NEOPRENE INSERT AS SHOWN.**

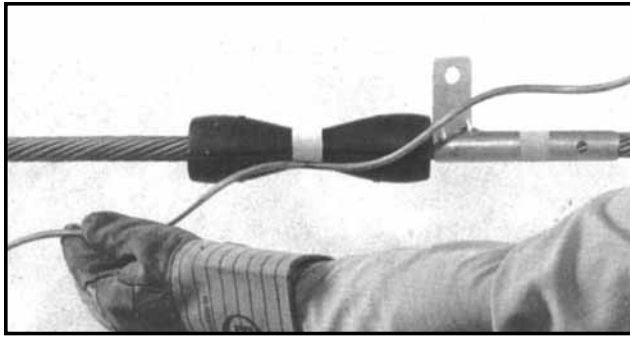


Figure 6

- 3.04** Apply second rod on opposite side of short leg of Current Transfer Tab so the tab extends through the gap between the two rods (Figure 7). Apply the rest of rods at equal intervals. **DO NOT OVERLAP, CROSS OR DISTORT RODS.**

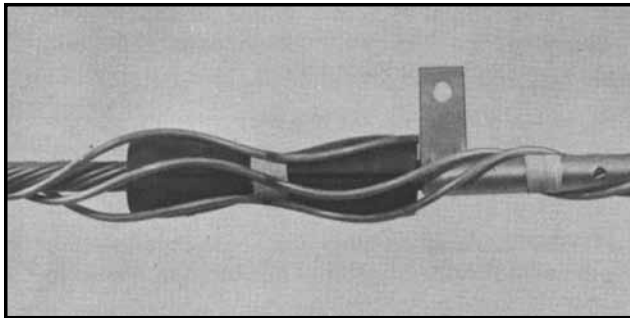


Figure 7

PLP Tip: As more rods are applied, trace the gaps between rods back to the insert to determine proper placement of subsequent rods. Apply the last rod to the largest remaining gap. Its pressure will cause all rods to space themselves uniformly around the cable.

- 3.05** Using both hands, encircle the free rod ends at one end of the application. Twist all rod ends into position simultaneously. Repeat process at other end. Check to be sure that the insert has remained perpendicular to the plumb (Figure 8).

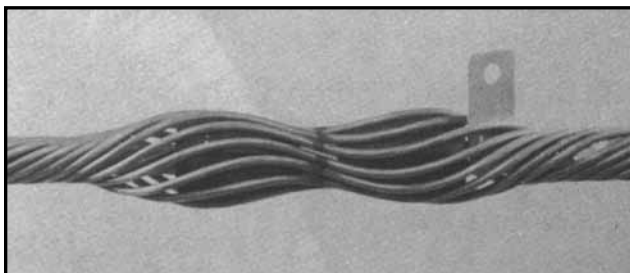


Figure 8

- 3.06** Place the FIBERLIGN Suspension Housing on both sides of the neoprene insert and rod assembly with the bolt hole facing up. Slide the FIBERLIGN Suspension Strap into position around the housing. Tap firmly into place with the heel of the hand (Figure 9).

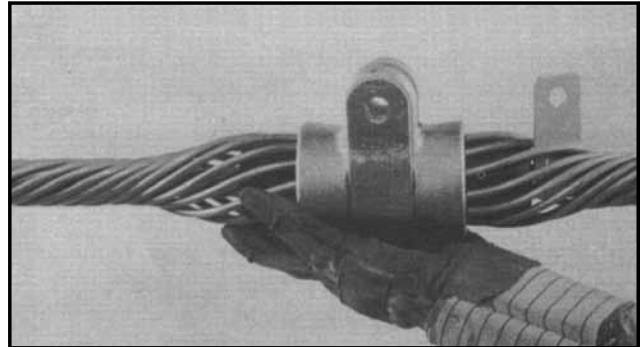


Figure 9

- 3.07** Spread the ears of the housing and tap strap into positions again. This will assure alignment so that the bolt can be easily inserted.

- 3.08** Slide the bolt into position through the strap and housing. Apply the lock washer.

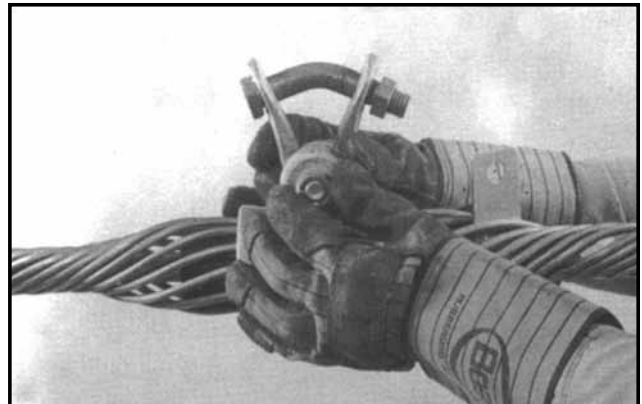


Figure 10

- 3.09** Apply the locking nut (Figure 10). Tighten until the lock washer is almost flat (Figure 11).

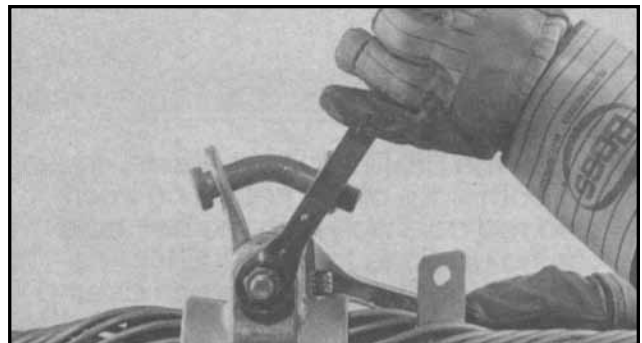


Figure 11

NOTE: Do not over tighten. Do not squeeze ears of housing against attachment fitting.

PLP Tip: Be sure that the locking tab on the nut faces the end of the bolt. The locking tab will prevent the nut from backing off during vibration.

3.10 Attach bonding strap to Current Transfer Tab using suitable bolt, nut and lock washer (Figure 12).

3.11 Check completed application (Figure 12).

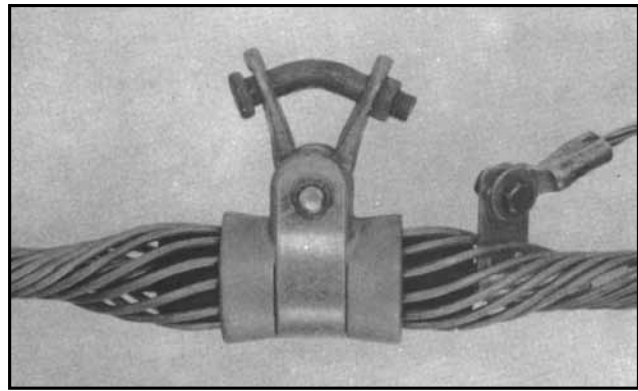


Figure 12

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.

Do not modify this product under any circumstances.

This product is intended for single (one-time) use and for the specified application. **Do not reuse or 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.

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

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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