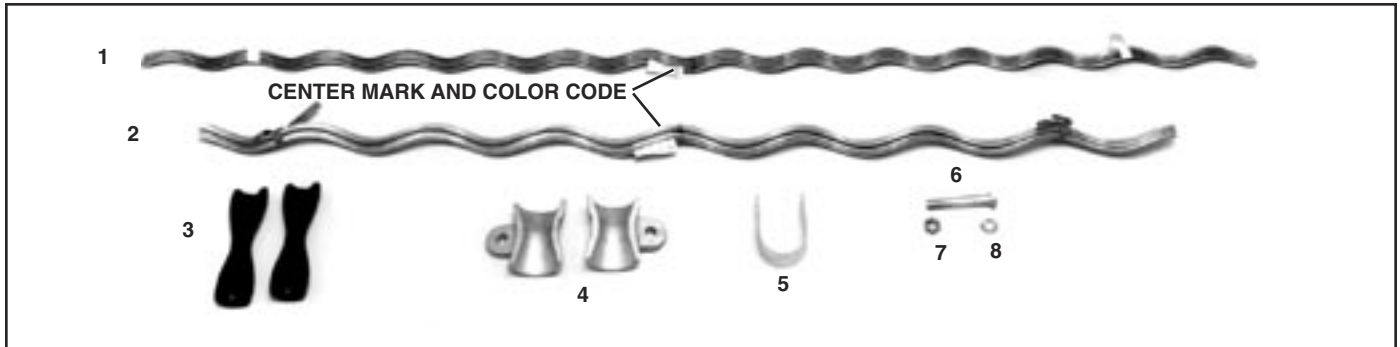




# THERMOLIGN® Suspension

For High Temperature Conductors

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



**FIGURE 1 - THERMOLIGN SUSPENSION AND ASSOCIATED HARDWARE**

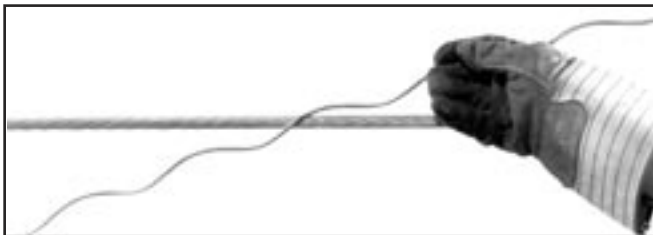
## 1.00 NOMENCLATURE

1. Inner Support Rods
2. Outer Rods
3. Insert (2 halves)
4. Housing (2 halves)
5. Strap
6. Bolt
7. Lock Nut
8. Lock Washer

## 2.00 INNER ROD APPLICATION

**2.01** Plumb suspension and mark conductor 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 Inner Rod to the center of the cable. Wrap the first rod around the cable. (Figure 2)



**FIGURE 2 - WRAP FIRST ROD AROUND CABLE**

**NOTE:** Leave last 10-14" (254-356 mm) on both ends of the Inner 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.

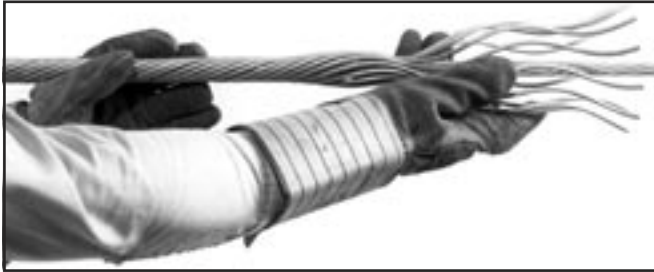
**2.03** Apply all remaining Inner Rods around the cable. When most of the rods are applied and most gaps are closed, the remaining rods will push between rods already applied to assure a strong, armored reinforcement. (Figure 3) **MAKE SURE THAT NO RODS ARE CROSSED AND THAT ALL RODS ARE EVENLY SPACED.**

**PLP TIP:** Be sure that the alignment of all rod ends is maintained with 2" (51 mm). Remove and reapply any that exceed this limit.



**FIGURE 3 - APPLY ALL REMAINING INNER RODS AROUND THE CABLE**

**2.04** To complete application, use both hands to wrap inner rods simultaneously into position. First do one end bundle, then the other end. (Figure 4)

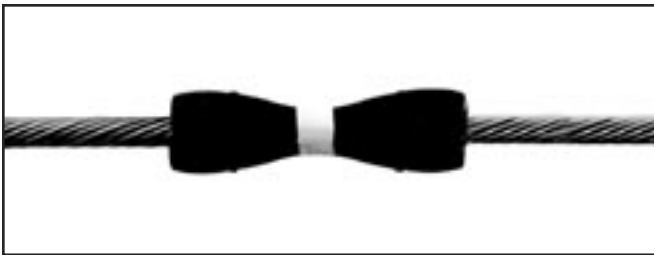


**FIGURE 4 - WRAP INNER RODS SIMULTANEOUSLY INTO POSITION**

**NOTE:** Inner Rods are not interchangeable with standard Armor Rods or ARMOR-GRIP® Suspension Rods. Because the sets are factory matched, do not intermix rods from different sets or attempt to apply more rods than supplied.

**3.00 INSERT AND OUTER ROD APPLICATION**

**3.01** Align the center marks of the inserts with the centerline of the applied Inner 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)



**FIGURE 5 - TAPE INSERTS IN PLACE PARALLEL TO THE GROUND**

**3.02** Center the first Outer Rod on the insert with the color mark positioned out and wrap on over the insert. (Figures 5A, 5B) Apply sufficient length of rod to assure stability, leaving final foot or so on each end free.

**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 5a**

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



**FIGURE 5b**

**3.03** Apply all remaining rods evenly around insert. **MAKE SURE THAT NO RODS ARE CROSSED.**

**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.

**3.04** 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 6)



**FIGURE 6 - TWIST ALL ROD ENDS INTO POSITION SIMULTANEOUSLY**

**3.05** Place the housing on both sides of the neoprene insert and rod assembly with the bolt hole facing up. Slide the strap into position around the housing. Tap firmly into place with the heel of the hand. (Figure 7)



**FIGURE 7 - PLACE HOUSING, INSERT ROD ASSEMBLY, AND SLIDE STRAP INTO POSITION**

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

**3.07** Slide the bolt into position through the strap and housing. Apply the lock washer. (Figure 8)



**FIGURE 8 - SLIDE BOLT INTO POSITION, APPLY LOCK WASHER**

**3.08** Apply the locking nut. Tighten until the lock washer is flat. (Figure 9)

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



**FIGURE 9 - APPLY LOCKING NUT AND TIGHTEN**

**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.

## **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 is intended for a 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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