

Installation Instructions

Formed Wire Suspension-High Temp (GSA-HT)

1.0 DESCRIPTION

- 1.01** The AFL Formed Wire Suspension-High Temp (GSA-HT) unit is an aerial support for transmission and distribution lines in high temperature applications.
- 1.02** The unit includes two halves of the suspension body, two Neoprene insert halves, a suspension strap, hex bolt, lock washer, nut and cotter pin, and a set of short and long armor rods for complete assembly. See *Figure 1*.

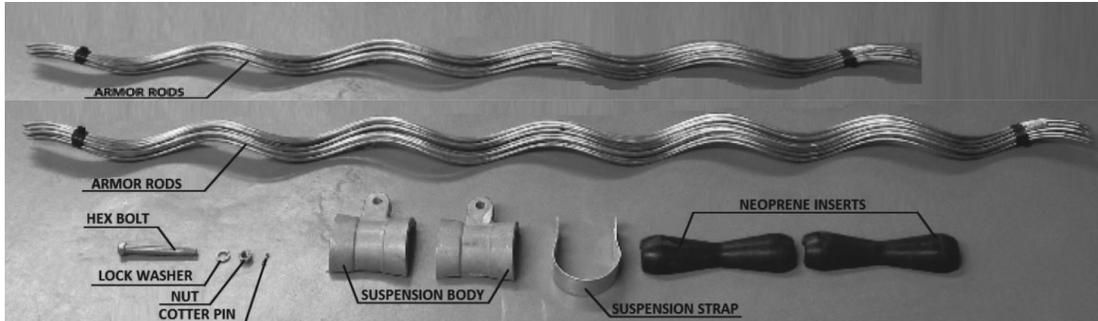


FIGURE 1: Formed Wire Suspension Components

2.0 PREPARATION OF CONDUCTOR

- 2.01** Plumb and mark the conductor at the center of the attachment point using a felt maker or lumber crayon. Do not scratch the conductor.
- 2.02** Apply the long set of armor rods directly over the conductor, centering the rod set on the center attachment point marked in Step 2.01.
- 2.03** Mark the installed long armor rod set at the center of the rods using a felt marker or lumber crayon.

3.0 APPLYING THE INSERT

- 3.01** Center the halves of the insert at the mark on the long armor rod set. Position the halves so that the flat faces are vertical as shown in *Figure 2*.
- 3.02** Once neoprene inserts are centered fasten with a thin layer of tape.

4.0 ATTACHING THE ARMOR RODS

- 4.01** Center one suspension rod on the left or right of the insert with the center marks aligned. Make sure the rod follows the contour of the insert.

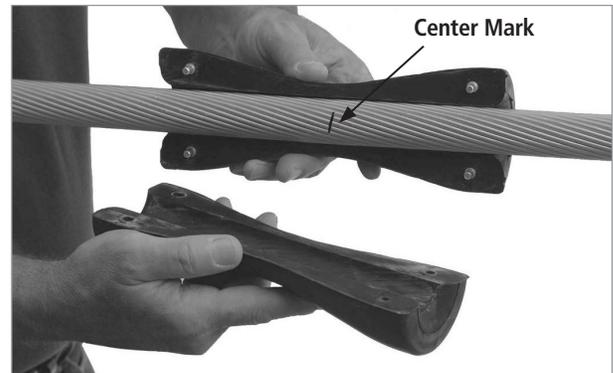


FIGURE 2: Center insert on mark

CAUTION: Improper Installation—DO NOT wrap the rod around insert as shown in *Figure 4*.

- 4.02** Apply two or three complete wraps of the suspension rod beyond each end of the insert. Over the contour of the insert, there should be no space between the rod and insert as in *Figure 3*.

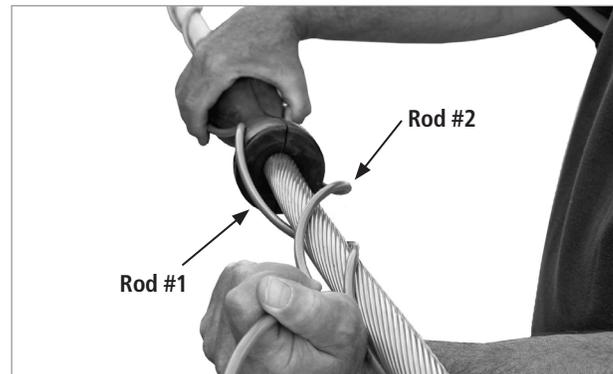


FIGURE 3: Installing the second armor rod



FIGURE 4: Incorrect—Do not wrap around insert

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- 4.03 As shown in **Figure 5**, repeat Step 4.02 such that four rods are placed around the insert at each quadrant (i.e. 3, 6, 9 and 12 o'clock).
- 4.04 Apply all the remaining rods of the suspension.

CAUTION: Make sure the rods are evenly spaced and do not overlap.



FIGURE 5: Space rods evenly at each quadrant

- 4.05 Using firm hand pressures ONLY, wrap the ends of the rods in place, as shown in **Figure 6**. Do not use a tool as it may scar or lead to damage.

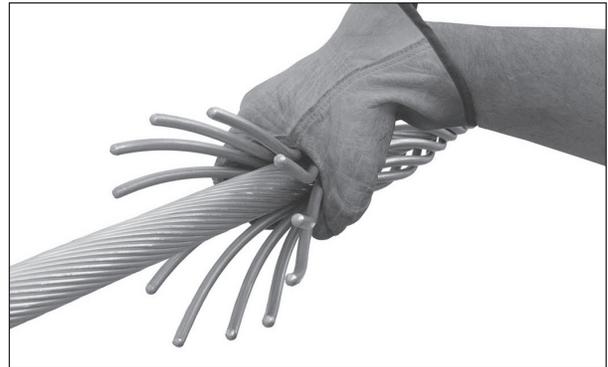


FIGURE 6: Wrapping the ends of the rods

5.0 APPLYING THE SUSPENSION BODY

- 5.01 Place the two halves of the suspension body around the "caged" insert at the assembly's center. (see **Figure 7**).
- 5.02 Place the suspension strap around the two halves from the bottom and tap into place, ensuring the holes are aligned with the bolt holes of the suspension body. (Attachment hardware purchased separately).



FIGURE 7: Place the housing around the "caged" insert

- 5.03 Apply the lock washer, bolt, nut and cotter pin to the bolt opening and tighten the bolt until the lock washer is collapsed. Final assembly shown in **Figure 8**.

CAUTION: Do not overtighten bolt.



FIGURE 8: Final assembly