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Pictorial Index

**SUSPENSION PRODUCTS**

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Specifications are subject to change without notice.
**HIBUS® Suspension for Conductors**

The HIBUS clamp is designed to reduce static and dynamic stress at the attachment point on transmission conductors without the use of armor rods or line guards. Rated for 250°C operation, the HIBUS clamp has a specially formulated bushing material for high temperature conductors. The hinged concept on the suspension configuration provides self-alignment of the housing halves. All hardware is captive except for the mounting pin.

Test results have shown that the unique bushing system significantly reduces the bending strain level produced by the effects of Aeolian vibration as compared to standard clamps using armor rods or line guards. This proven level of performance eliminates the need for any type of attachment using rods. Test reports available include corona test, high temperature profile, standard and high temperature slip, ultimate strength, and catastrophic conductor failure impact strength.

**Features**
- Suitable for all ACSR and ACSS conductors
- Self-aligning housing halves
- Stress relief bushings reduce bending strain 40%
- Aluminum clamp body with captive stainless steel mounting bolts
- Galvanized steel mounting pin with two washers and cotter pin for added security
- Optional bolt, nut, and cotter pin ("BNC" suffix) available on some sizes. Contact AFL for availability.
- Optional Live-line Attachment Tool available
- Line angles up to 30° for single unit, up to 60° for two units
- Rated for 500 kV applications
- Rated for 250°C high temperature applications (with special bushings)

**Components**
- Mounting Pin with Washers and Cotter Pin
- Hinge Point (aligns housing halves)
- Rubber Bushings for Stress Relief
- Captive Bolts
- 500 kV Shielding Radius

**Configuration**
- Amplitude Reduced Approximately 40% as Compared to a Standard Suspension Clamp
- Rubber Bushings as a Stress Relief
## HIBUS Suspension for Conductors (cont.)

### Standard Conductors—ACSR, AAC, AAAC, ACAR

High Temperature Conductors—ACSS, HS285

<table>
<thead>
<tr>
<th>AFL NO.</th>
<th>RANGE (IN)</th>
<th>RANGE (MM)</th>
<th>LENGTH (L)</th>
<th>HEIGHT (H)</th>
<th>WIDTH (W)</th>
<th>CLEVIS WIDTH (S)</th>
<th>WEIGHT (LBS)</th>
<th>VERT. LOAD RATING (LBS)</th>
<th>PIN/BOLT SIZE</th>
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<tbody>
<tr>
<td>HCS710</td>
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<td>.625&quot; x 3.25&quot;</td>
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</table>

*S* NOTE: Standard clevis pin not available for these sizes. These sizes come standard with bolt, nut, cotter pin attachment hardware.

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Specifications are subject to change without notice.
HIBUS Suspension for Conductors (cont.)

Ordering Information

**HCSHT**

HIBUS Series Conductor Suspension
HIBUS Series Conductor Suspension for high temperature applications

**1073**

Conductor Range Code

**LL**

Blank = No Live-line Attachment Point
LL = Include Live-line Attachment Point

**BNC**

Blank = Clevis Pin and Cotter Pin Attachment
BNC = Bolt, Nut, Cotter Pin Attachment
(Note: limited availability for BNC, contact AFL)

**ORDERING EXAMPLE: HCSHT1073LL**

HIBUS Series Conductor Suspension, 1.073-1.115 range, rated for 250°C high temperature application and including a Live-line Attachment Point.

Ordering Information—Accessories

<table>
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<tr>
<th>DESCRIPTION</th>
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<tbody>
<tr>
<td>Live-line Attachment Tool (order separately)</td>
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</table>

Live-line Attachment Tool (ordered separately)
HIBUS Suspension for Conductors—Hardware (cont.)

Ordering Information

<table>
<thead>
<tr>
<th>AFL NO.</th>
<th>ULTIMATE STRENGTH (LBS.)</th>
<th>APPROX. WEIGHT EACH (LBS.)</th>
<th>MATERIAL</th>
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<td>Body—Ductile Iron</td>
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<td>Bolt, Nut—Forged Steel</td>
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<td>Cotter Pin—Stainless Steel</td>
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