CUSHION-GRIP®
SUSPENSION & SUPPORT
CUSHION-GRIP® SUSPENSION & SUPPORT
Designed for better performance than using clamps and armor rods at lower installed cost

Field-Proven Concept
Since 1998, the cushion concept has been field proven with the FIBERLIGN® Cushion Clamp for OPGW and the CUSHION-GRIP Clamp for T-2 conductors. Both of these PLP products have had broad industry usage and acceptance.

Patented Design

Reduced Stress on Conductor Verified in Laboratory
Laboratory vibration testing has shown that the elastomer cushions in the CUSHION-GRIP Suspension and Support reduce the dynamic strain levels on the conductor by 40% to 50%, when compared to bolted suspension clamps.

The level of protection provided by the CUSHION-GRIP Suspension and Support is comparable to a bolted clamp over armor rods, but without the material and labor costs associated with the armor rods.

Simple Installation, Even With Hot Sticks
The CUSHION-GRIP Suspension has a unique design which allows the lower captive fasteners to act as a hinge. This feature creates a one-piece unit that is simply spread open and slid over the conductor. There are no loose parts to handle or to drop. The one-piece design makes installation simple, even when using hot sticks or when working from a helicopter platform.

The CUSHION-GRIP Support has a two-piece design with captive fasteners to simplify hot stick or helicopter installation.

Available for high temperature conductors, the standard CUSHION-GRIP Suspension and Support have a continuous thermal rating of 125˚ C (150˚ C two hour emergency).

The CUSHION-GRIP Suspension is also available in an HT version for continuous conductor operating temperatures up to 200˚ C (225˚ C two hour emergency).
## Specifications

**Material:**
- Body Halves - High strength aluminum alloy (base of support is galvanized iron)

**Vertical Strength**
- See chart below for suspension

**Slip Load**
- 10% - 15% of conductor rated breaking strength (RBS)

**Line Angle**
- 30° in single configuration
- 60° in double configuration

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### Features and Benefits

- No loose parts - all fasteners are captive and factory installed
- Simple labor-saving installation without the need for armor rods
- Internal cushions minimizes conductor bending stresses at critical entry locations
- Compatible with standard attachment hardware
- Easy hot stick application
- Designed for EHV Applications

### You Can Depend on PLP®

PLP products pass a series of tests conducted in our laboratory, which is one of the industry's most advanced testing centers.

Combine these capabilities with our experienced engineering and field-support staff, and you've got PLP reliability. That's why PLP has been a dependable supplier since 1947.

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### Catalog Numbers

<table>
<thead>
<tr>
<th>Catalog Number</th>
<th>Conductor Range Inches (mm)</th>
<th>Nominal Conductor Size*</th>
<th>Height Inches (mm)</th>
<th>Width Inches (mm)</th>
<th>Length Inches (mm)</th>
<th>Weight Pounds (kg)</th>
<th>Standard Carton Quantity</th>
<th>Vertical Load Limit</th>
</tr>
</thead>
<tbody>
<tr>
<td>CGS-1095</td>
<td>0.312 (7.9) - 0.608 (15.4)</td>
<td>#2 – 4/0</td>
<td>4.85 (123)</td>
<td>0.80 (9) - 1.20 (30)</td>
<td>6.5 (165)</td>
<td>2.5 (1.1 kg)</td>
<td>10 units</td>
<td>15,000 lbs. (67 kN)</td>
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<tr>
<td>CGS-1096</td>
<td>0.609 (15.5) - 0.883 (22.4)</td>
<td>266.8 – 477</td>
<td>5.30 (135)</td>
<td>3.30 (84) - 3.85 (98)</td>
<td>6.85 (169)</td>
<td>4.00 (1.8 )</td>
<td>3 units</td>
<td>25,000 lbs. (111 kN)</td>
</tr>
<tr>
<td>CGS-1097</td>
<td>0.884 (22.5) - 1.196 (30.4)</td>
<td>556.5 – 954</td>
<td>6.00 (152)</td>
<td>3.30 (84) - 3.85 (98)</td>
<td>7.55 (192)</td>
<td>5.5 (2.5)</td>
<td>3 units</td>
<td></td>
</tr>
<tr>
<td>CGS-1098</td>
<td>1.197 (30.4) - 1.545 (39.2)</td>
<td>1033.5 – 1590</td>
<td>6.25 (159)</td>
<td>3.30 (84) - 3.85 (98)</td>
<td>8.60 (218)</td>
<td>6.7 (3.0)</td>
<td>3 units</td>
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<td>CGS-1120</td>
<td>1.546 (39.2) - 1.569 (39.8)</td>
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<td>CGS-1121</td>
<td>1.570 (39.8) - 1.639 (41.6)</td>
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<td>CGS-1122</td>
<td>1.640 (41.7) - 1.707 (43.3)</td>
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<td>CGS-1123</td>
<td>1.708 (43.4) - 1.771 (45.0)</td>
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<td>CGS-1124</td>
<td>1.772 (45.0) - 1.833 (46.5)</td>
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<td>7.60 (183)</td>
<td>3.90 (99.8) - 4.40 (111.8)</td>
<td>9.20 (234)</td>
<td>9.5 (4.3)</td>
<td>3 units</td>
<td>30,000 lbs. (136kN)</td>
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<td>CGS-1125</td>
<td>1.934 (46.6) - 1.892 (48.0)</td>
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<td>CGS-1126</td>
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<td>CGS-1127</td>
<td>1.949 (49.5) - 2.001 (50.8)</td>
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</tbody>
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**Notes:**
- For high temperature (HT) version, add HT to the catalog number (Example - CGS - 1096-HT).
- Add CE, YC, or SE to catalog number to include Clevis Eye, Y-Clevis Eye or Socket Eye (Examples: CGS1096SE or CGS-1096HTSE).
- For bolt, nut & cotter pin in place of pin, add BNK to catalog number (EXAMPLES: CGS-1096-BNK, CGS-1096HTBNK)
- *Consult the Product and Conductor Selection Charts at the front of the Transmissions Catalog for details.
### CUSHION-GRIP® SUPPORT

<table>
<thead>
<tr>
<th>Catalog Number</th>
<th>Conductor Range Inches (mm)</th>
<th>Nominal Conductor Sizes*</th>
<th>Weight/Unit Pounds (Kg)</th>
<th>Standard Carton Quantity</th>
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<tbody>
<tr>
<td>CGS-2100</td>
<td>.325 (9.5) to .608 (15.4)</td>
<td>#2 to 4/0</td>
<td>1.45 (0.66)</td>
<td>3 Units</td>
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<td>CGS-2101</td>
<td>.609 (15.4) to .883 (22.4)</td>
<td>266 Kcmil to 477 Kcmil</td>
<td>2.40 (1.1)</td>
<td>3 Units</td>
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<tr>
<td>CGS-2102</td>
<td>.884 (22.4) to 1.196 (30.4)</td>
<td>556 Kcmil to 954 Kcmil</td>
<td>3.50 (1.6)</td>
<td>3 Units</td>
</tr>
<tr>
<td>CGS-2103</td>
<td>1.197 (30.4) to 1.504 (38.2)</td>
<td>954 Kcmil to 1590 Kcmil</td>
<td>5.00 (2.3)</td>
<td>3 Units</td>
</tr>
</tbody>
</table>

NOTES: For high temperature (HT) version add “HT” to the catalog number (Example: CGS-2102HT).

*Consult the Product and Conductor Selection Charts at the front of the Transmissions Catalog for details.