

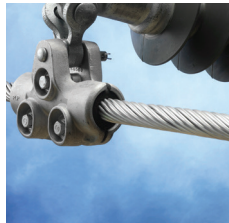


**PREFORMED** LINE PRODUCTS  
The connection you can count on.

## CUSHION-GRIP® SUSPENSION & SUPPORT



 COMMUNICATIONS    ENERGY    SPECIAL INDUSTRIES    SOLAR

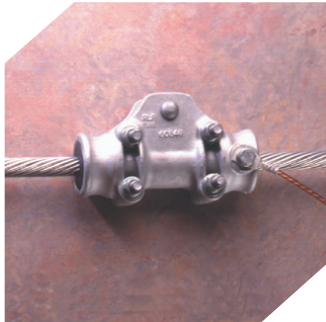


# CUSHION-GRIP® SUSPENSION & SUPPORT

Designed for better performance than using clamps and armor rods at lower installed cost



CUSHION-GRIP Suspension



FIBERLIGN® Cushion Clamp for OPGW

## 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.

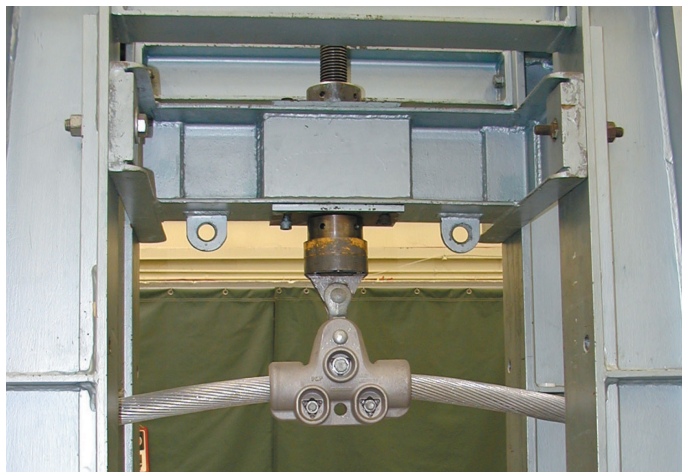
## Simple Installation, Even With Hot Sticks

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).



Laboratory Vibration Testing of CUSHION-GRIP Suspension

# CUSHION-GRIP® SUSPENSION

## Specifications

### Material:

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

### Vertical Strength

See chart below for suspension  
5,000# (22 kN) support

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

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

## 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.

Catalog Number	Conductor Range Inches (mm)		Nominal Conductor Size*	Height Inches (mm)	Width Inches (mm)		Length Inches (mm)	Weight Pounds (kg)	Standard Carton Quantity	Vertical Load Limit
	Min	Max			Min	Max				
CGS-1095	0.312 (7.9)	0.608 (15.4)	#2 – 4/0	4.85 (123)	0.80 (9)	1.20 (30)	6.5 (165)	2.5 (1.1 kg)	10 units	15,000 lbs. (67 kN)
CGS-1096	0.609 (15.5)	0.883 (22.4)	266.8 – 477	5.30 (135)	3.30 (84)	3.85 (98)	6.85 (169)	4.00 (1.8)	3 units	25,000 lbs. (111 kN)
CGS-1097	0.884 (22.5)	1.196 (30.4)	556.5 – 954	6.00 (152)	3.30 (84)	3.85 (98)	7.55 (192)	5.5 (2.5)	3 units	
CGS-1098	1.197 (30.4)	1.545 (39.2)	1033.5 – 1590	6.25 (159)	3.30 (84)	3.85 (98)	8.60 (218)	6.7 (3.0)	3 units	
CGS-1120	1.546 (39.2)	1.569 (39.8)		7.60 (183)	3.90 (99.8)	4.40 (111.8)	9.20 (234)	9.5 (4.3)	3 units	
CGS-1121	1.570 (39.8)	1.639 (41.6)	1780; 84/19							
CGS-1122	1.640 (41.7)	1.707 (43.3)								
CGS-1123	1.708 (43.4)	1.771 (45.0)	2156; 84/19 & 72/7							
CGS-1124	1.772 (45.0)	1.833 (46.5)	2312; 76/19							
CGS-1125	1.934 (46.6)	1.892 (48.0)								
CGS-1126	1.893 (48.1)	1.948 (49.5)								
CGS-1127	1.949 (49.5)	2.001 (50.8)								

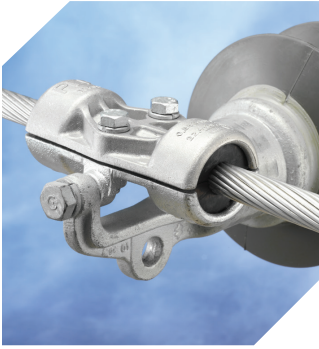
NOTES: For high temperature (HT) version, add HT to the catalog number (Example - CGS - 1096-HT).

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

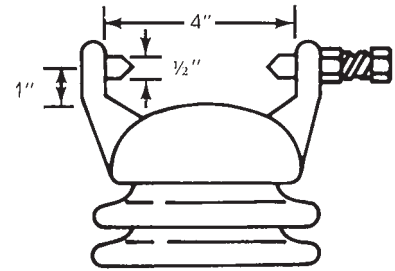


CUSHION-GRIP Support

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

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.



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LINE PRODUCTS

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