



PREFORMED LINE PRODUCTS
The connection you can count on.

Simple and Highly Effective
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

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.



FIBERLIGN® Cushion Clamp for OPGW

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.



Laboratory Vibration Testing of CUSHION-GRIP Suspension

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).

Patented Design

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

- Internal cushions minimizes conductor bending stresses at critical entry locations
- Compatible with standard attachment hardware
- Easy hot stick application
- Designed for EHV Applications

Features and Benefits

- No loose parts - all fasteners are captive and factory installed
- Simple labor-saving installation without the need for armor rods

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)	5/16" - 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	
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	25,000 lbs. (111 kN)
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)								
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	7.60 (183)	3.90 (99.8)	4.40 (111.8)	9.20 (234)	9.5 (4.3)	3 units	30,000 lbs. (136kN)
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 - 1110-HT).

Add CE, YC, or SE to catalog number to include Clevis Eye, Y-Clevis Eye or Socket Eye (Examples: CGS1110SE or CGS-1110HTSE).

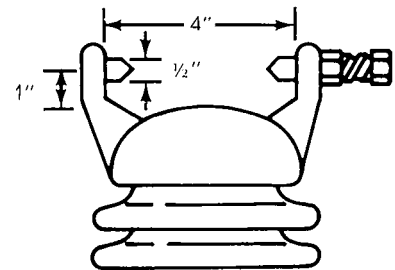
For bolt, nut & cotter pin in place of pin, add BNK to catalog number (EXAMPLES: CGS-1110-BNK, CGS-1110HTBNK)

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)	.563 (14.3)	2 to 4/0	1.45 (0.66)	3 Units
CGS-2101	.564 (14.3)	.883 (22.4)	226 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



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