

# FIBERLIGN® CUSHION CLAMP for OPGW



- The latest innovation in OPGW protection
- Elastomer cushions for reduction of stresses
- Fast and easy installation
- Minimizes clamping stress - superior to bolted clamp with armor rods
- Gently protects against abrasion and wear



# PLP® softens the bite of metal clamping with the FIBERLIGN® Cushion Clamp for OPGW

## Opportunity brings innovation

The development of aerial fiber optic cable has created new opportunities for the energy and telecommunications industries. Shield wire is being replaced by Optical Ground Wire (OPGW) to provide communication and controls. Consequently, there are added demands for cable attachment hardware to prevent fiber attenuation while protecting against excessive mechanical stress and fatigue.

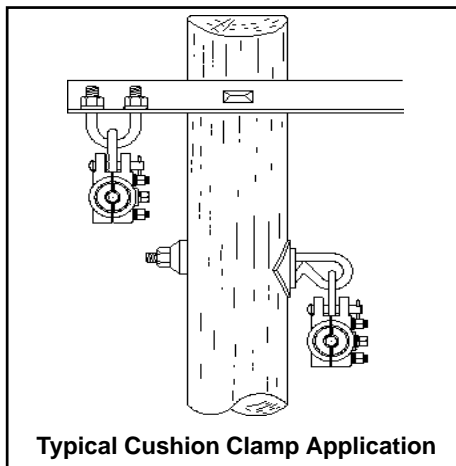
PLP® softens the bite of the metal clamp by introducing an innovative design that incorporates cushioned inserts at the edges of the clamp body.

## Why the FIBERLIGN® Cushion Clamp?

The concentrated metal to metal stresses normally present in a bolted clamp with armor rods is greatly reduced with the elastomer insert design of the Cushion Clamp. The pliable inserts are made from a resilient material that withstands harsh environments while reducing compression and bending stresses. As a result, the Cushion Clamp helps to extend OPGW system life and provides superior protection from aeolian vibration and galloping.

## Testing with a proven track record

The FIBERLIGN® Cushion Clamp has been thoroughly tested for vibration and static mechanical loading in accordance with IEEE Standard 1138. During cable motion, stress was reduced by 40-50 percent compared to bolted clamps with armor rods. In addition, initial field studies have indicated performance levels comparable to PLP's CUSHION-GRIP™ Clamp for T-2 conductor and ARMOR-GRIP® Suspension for round conductor—two proven products recognized in the industry as second to none.



## PLP® Reliability

The FIBERLIGN® Cushion Clamp is manufactured in accordance with ISO 9001 procedures to assure quality. Backed by years of field experience and laboratory studies, PLP products set standards for product performance and reliability. For more information about the FIBERLIGN® Cushion Clamp, contact PLP®.

## Assembly catalog numbers

Catalog Number		Diameter Range			
Single	Double	Min. (in)	Max. (in)	Min. (mm)	Max. (mm)
4700100	4700200	0.376	0.387	9.6	9.8
4700101	4700201	0.388	0.429	9.9	10.9
4700102	4700202	0.430	0.459	11.0	11.6
4700103	4700203	0.460	0.482	11.7	12.2
4700104	4700204	0.483	0.507	12.3	12.8
4700105	4700205	0.508	0.537	12.9	13.6
4700106	4700206	0.538	0.563	13.7	14.3
4700107	4700207	0.564	0.585	14.4	14.8
4700108	4700208	0.586	0.615	14.9	15.6
4700109	4700209	0.616	0.641	15.7	16.3
4700110	4700210	0.642	0.664	16.4	16.8
4700111	4700211	0.665	0.694	16.9	17.6
4700112	4700212	0.695	0.72	17.7	18.3
4700113	4700213	0.721	0.742	18.4	18.8
4700114	4700214	0.743	0.772	18.9	19.6
4700115	4700215	0.773	0.798	19.7	20.2
4700116	4700216	0.799	0.822	20.3	20.8
4700117	4700217	0.823	0.855	20.9	21.7
4700118	4700218	0.856	0.885	21.8	22.4
4700119	4700219	0.886	0.911	22.5	23.1
4700120	4700220	0.912	0.941	23.2	23.9
4700121	4700221	0.942	0.975	24.0	24.7
4700122	4700222	0.976	1.005	24.8	25.5
4700123	4700223	1.006	1.034	25.6	26.3

## Features

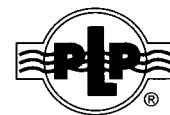
- ▶ Two piece aluminum alloy clamp with integrated grounding interface—1/2"-13 UNC x 3/4" Long Bolt and Lock Washer is supplied.
- ▶ Strain reducing elastomer inserts affixed to clamp halves in critical locations at clamp ends.
- ▶ Low stress, metal-to-metal contact achieved in center of clamp between elastomer inserts.
- ▶ Captured U-bolts for fast, easy-to-handle four nut installation.
- ▶ Structural Reinforcing Rods protect cable from excessive bending stress and compressive forces (SRR single length from 30" to 61")
- ▶ Exceptional Vertical Load Strength—20,000# single unit.
- ▶ Maximum line angles up to 30 degrees for single unit, 60 degrees for double clamp.
- ▶ Slip Load approximately 10-20% of OPGW rated strength.
- ▶ Fittings and grounding accessories available.

## Accessories

Suffix Code*	Description
G	4' long #4 (7W) Copper Ground Wire with terminal on one end. Catalog No. 710010016
GA	4' long 4/0 (7W) Aluminum Ground Wire with terminal on one end. Catalog No. 710010294
YC	One (1) Y-clevis to fit selected suspension. Single suspension applications. Catalog No. YC-5207
CE	One (1) clevis-eye to fit selected suspension. Single suspension applications. Catalog No. CE-5261
YCYP	Two (2) Y-clevises with yoke plate to fit selected suspension. Double suspension applications. Y-Clevis Cat. No. same as above, Yoke Plate Cat. No. YP-5909
CEYP	Two (2) clevis-eyes with yoke plate to fit selected suspension. Double suspension. Clevis-eye Cat. No. same as above, Yoke Plate Cat. No. YP-5909

\*Add Suffix code to assembly catalog number to receive accessory.

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LINE PRODUCTS



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