

FIBERLIGN[®] FORMED WIRE DEAD-END for OPGW



- ▶ The latest OPGW dead-end option
- ▶ Structural Reinforcing Rod protection
- ▶ Tested and proven performance
- ▶ Simple, wrap on installation
- ▶ Economical Current Transfer Tab grounding feature



FIBERLIGN® Formed Wire Dead-end offers exceptional holding strength for single layer strand OPGW

Opportunity brings innovation

The development of aerial fiber optic cable has created new opportunities for the energy and communications 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.

The FIBERLIGN® Formed Wire Dead-end (FFWDE) is an example of PLP's innovative commitment to provide options for specific customer requirements.

Why the FIBERLIGN® Formed Wire Dead-end?

For single layer strand OPGW, the FIBERLIGN® Formed Wire Dead-end has better dead-end performance at lower cost in comparison to bolted dead-ends.

The FFWDE's simple, wrap-on application offers an easy-to-install alternative to bolted dead-ends.

Bonding is integrated through the Current Transfer Tab, eliminating the need to purchase separate grounding clamps. This economic advantage reduces material and handling costs.

Testing with a proven track record

The FFWDE has been tested to IEEE 1338 specifications, passing performance tests of 100 million aeolian vibration cycles and 100,000 galloping cycles.

Even with the expanded cable range design, FFWDEs successfully held 95% of rated loads with minimal optical attenuation for single layer strand OPGW cable. As a result, only nine FFWDE sizes encompass the entire product line. This can simplify storage and installation on site.

The basic design principles and benefits proven in numerous other PLP® preformed termination designs have been inherently adapted to suit the mechanical and optical elements of OPGW in the FFWDE design.



Assembly catalog numbers

Catalog Number	Diameter Range			
	Min. (in)	Max. (in)	Min. (mm)	Max. (mm)
2890001C4	0.400	0.449	10.2	11.4
2890002C4	0.450	0.504	11.5	12.8
2890003C4	0.505	0.555	12.9	14.1
2890004C4	0.556	0.610	14.2	15.5
2890005C4	0.611	0.680	15.6	17.2
2890006C4	0.681	0.755	17.3	19.1
2890007C4	0.756	0.830	19.2	21.1
2890008C4	0.831	0.925	21.2	23.5
2890009C4	0.926	1.030	23.6	26.2

Accessories

Suffix Code*	Description
E2	14" Extension Link (Catalog no. 00060132), 25,000# ultimate rating.
S2	Anchor Shackle (Catalog. no. 72905001), 25,000# ultimate rating.
G	4' long #4 (7W) Copper Ground Wire with terminal on one end. 1/2"-13x1" long galvanized steel bolt, hex nut and lock washer are included for attachment.
GA	4' long 4/0 (7W) Aluminum Ground Wire with terminal on one end. 1/2"-13x1" long galvanized steel bolt, hex nut and lock washer are included for attachment.

*Add Suffix code to assembly catalog number to receive accessory

PLP® Reliability

The FIBERLIGN® Formed Wire Dead-end is manufactured in accordance with ISO 9001 procedures to assure quality. Backed by years of field experience and laboratory testing, PLP products set standards for product performance and reliability.

For more information about the FIBERLIGN® Formed Wire Dead-end, contact PLP®.

Features

- Helically-formed wire dead-end plus Structural Reinforcing Rods (SRR).
- Structural Reinforcing Rods protect cable from excessive bending strain and compressive stresses.
- Simple, wrap-on installation
- Standard assembly includes Current Transfer Tab (CTT) and 42 k lbs. Thimble-Clevis.
- CTT provides economical grounding attachment designed to provide direct contact with OPGW. Accommodates 1/2" bolt & nut.
- CTT fault current rating from 80 to 150 kA²/sec.
- Standard designs are for Left-Hand-Lay OPGW. Contact PLP for Right-Hand-Lay applications.
- Optional Grounding Wire Assemblies and Linkage Hardware available.

PREFORMED
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