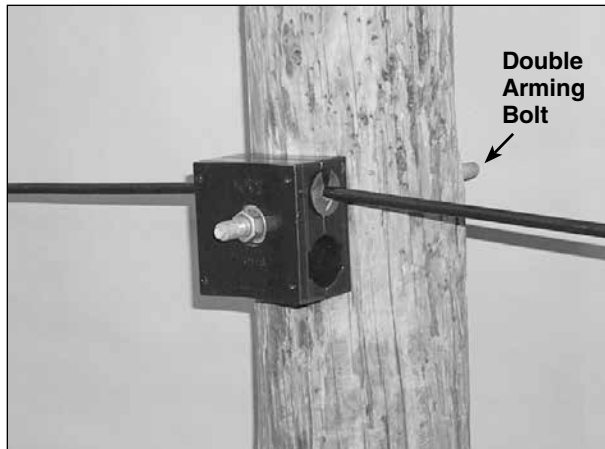
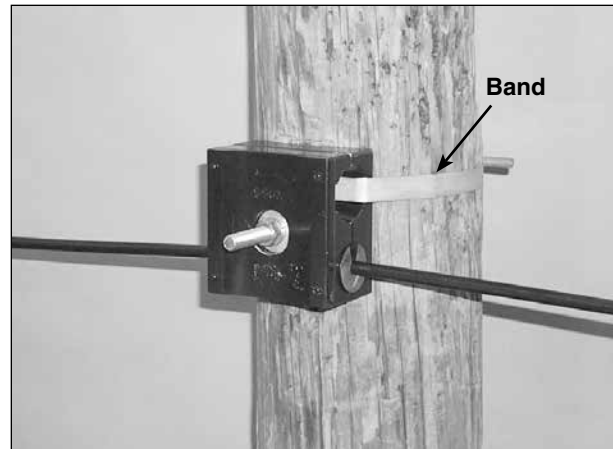


# FIBERLIGN® Lite Support for ADSS

FIBERLIGN Lite Support—Bolt Mounted



FIBERLIGN Lite Support—Band Mounted



## NOMENCLATURE

### 1. Housing Halves:

Urethane housings have molded cavities to accept cushion inserts. The small cavity accepts a small insert (Item 2a). The large cavity is designed for stringing in cable, capable of handling up to a 1-1/4" (32 mm) diameter mechanical swivel with pulling in grip. The large cavity will accept a large insert (Item 2b) for larger cables or if a dual cable application is desired.

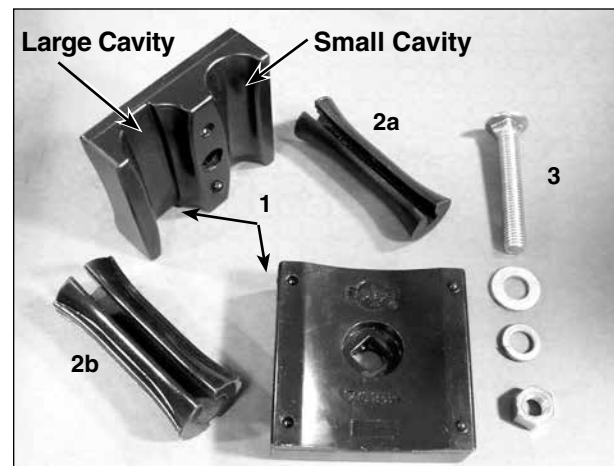
### 2. Insert:

Softer material than the housing (item 1), one piece inserts are slotted to accept the cable as well as cushion the cable under load. The cable diameter range is molded along the hinge opposite the open slot for identification. The small cavity insert (Item 2a) will accept cable sizes up to .700" (17.8 mm) diameter. The large cavity insert (Item 2b) will accept cable sizes up to 1.03" (26 mm) diameter.

### 3. Hardware Kit (optional) for Banded Mount:

A 5/8"-11 UNC by 4" long carriage bolt, 5/8" round washer, Lock Washer, and 5/8"-11 UNC nut can be provided for banding applications. (Cat. No. 4800500)

## FLS





# FIBERLIGN® Lite Support for ADSS

## APPLICATION

The FIBERLIGN Lite Support (FLS) system is designed to gently but firmly support All Dielectric Self-Supporting (ADSS) cable. It is intended for tangent support installations (see "LINE ANGLES") on lines that feature low voltages, very short spans and low mechanical loads. For products with higher capabilities see the subsequent pages under FIBERLIGN® Dielectric Support, FIBERLIGN Aluminum Support, FIBERLIGN Aluminum Suspension, with and without rods and FIBERLIGN Dielectric Suspension. The two latter products can be used in higher voltage environments where track resistant ADSS cables are required.

### Dual Insert Application:

The FLS with small and large inserts can support two cables. Existing FIBERLIGN Dielectric Support (FDS) installations (up to 300' spans) can be replaced or "retrofitted" using the FLS. This option increases capability from one to two cables within minimal pole space.

### FTTP:

Fiber to the Premises drop cables can have round, flat and Figure 8 construction. Specially designed Lite Support inserts are available to accept all of these configurations. The catalog table includes these new sizes and detailed information can be found in Section 8.

### Stacking:

Lite Support Housings are stackable to add more cables within the same pole space. This can offer a neat alternative to busy "J-Hook" clutter for FTTP drop cable distribution.

### Maximum Span Lengths – 300 feet (91 m):

The maximum recommended span length for the FLS is dependent upon the specific cable OD, initial cable tension, ice and wind loading district (NESC), and other factors. It is intended for application on short spans where vertical loading does not exceed 1000# (4.4 kN) under the extreme case.

In general, the approximate recommended maximum span length for the FLS is 300 feet (91 m) under extreme loads (NESC Heavy). Consult PLP for specific span limitations.

## STRINGING OPERATIONS

The dielectric material of the body provides a highly abrasive-resistant surface that allows the FLS housing assembly to be used as a stringing traveler at the structure. The smooth surfaces of the housing are designed with gentle contours and large radii that allow up to 10° line angles (20° in certain cases – consult PLP). This ability saves installation time and costs by eliminating the use of conventional stringing travelers.

### Material:

The housing halves are made from a high-strength, dielectric urethane material. The cushioned inserts are made from a softer, pliable dielectric material that gently grips and cushions the ADSS cable within the clamped housing. The hardware (optional) for banded applications is zinc plated.

### Mounting:

The housing halves are molded with smooth finish holes to accept a standard 5/8" thru-bolt.

### Bolt Mount:

For wood pole or bolt mounting to any structure, a thru bolt can be fed through a hole in the structure leaving 4" to 5" (102-127 mm) of the bolt exposed to accept the FLS and allow for temporary housing separation during installation. At four (4) inches (102 mm), the nut and washers can be left on the end of the bolt while manipulating the housing halves to remove the cable after stringing or accept the insert during final installation.

### Band Mount:

For concrete pole or band mounting to any structure, the housing halves have a molded groove that accepts 3/4" wide high-strength banding material. PLP provides the hardware kit (item 3 of the nomenclature) that is used to clamp the housing halves together after the unit is banded to the structure. The housings have a special recessed hole that keeps the carriage bolt from turning during assembly. To include the mounting hardware with the product add the suffix code H2 to the standard FLS catalog number. Banding material is not provided – Consult PLP for further information.

### Line Angles:

For most applications, the maximum line angle recommended is 20°; consult PLP for exceptions.

### Slip Loads:

The hourglass shape of the insert creates wedge-action holding on the cable when unbalanced loads exist. The wedge works in either direction. Holding capability is enhanced with a special knurled finish on the inserts inner diameter surface. Specific performance will depend upon the specific cable OD and design.

For stringing operations the large molded cavity will accept up to 1-1/4" diameter for pulling in hardware. If you are using cable greater than .699" (18 mm) diameter, you may have a large insert designed for the large molded cavity. If so, remove the large insert from its cavity and temporarily tighten the FLS housing halves against the pole. The small cavity insert can remain in the small cavity of the FLS during stringing.

# FIBERLIGN® Lite Support for ADSS

FIBERLIGN Lite Support – Stringing



Large Cavity Inserts for Lower Cable Ranges				
Cable Diameter Range				Large Insert Number
Min. (in)	Max. (in)	Min. (mm)	Max. (mm)	
0.25	0.28	6.3	7	00070255
0.305	0.375	7.8	9.5	00070256
0.4	0.429	10.2	10.8	00070250
0.43	0.459	10.9	11.6	00070251
0.46	0.489	11.7	12.4	00070176
0.49	0.519	12.5	13.1	00070177
0.52	0.549	13.2	13.9	00070178
0.55	0.579	14	14.7	00070179
0.58	0.609	14.8	15.4	00070180
0.61	0.639	15.5	16.2	00070181
0.64	0.669	16.3	16.9	00070182
0.67	0.699	17	17.8	00070183

For Housing Only – Order #4800000  
Large Cavity insert sizes for Lower Ranges are shown in the table for cable diameters from .250" to .699"

## ORDERING INSTRUCTIONS

Refer to the catalog table and select the proper FLS for the cable's outside diameter. To include the carriage bolt hardware kit for Cat. no. 4800500 band mount, add suffix code H2 (banding material not included), EX: #4800110H2 will include hardware.

FIBERLIGN LITE SUPPORT – Single Insert Assemblies						
Catalog Number	Cable Diameter Range				Insert Component	
	Min. (in)	Max. (in)	Min. (mm)	Max. (mm)	Part Number	Sized For
4800107	.250	.280	6.3	7.0	00070257	S M A L L  C A V I T Y
4800109	.305	.375	7.8	9.5	00070258	
4800110	.400	.429	10.2	10.8	00070216	
4800111	.430	.459	10.9	11.6	00070217	
4800112	.460	.489	11.7	12.4	00070218	
4800113	.490	.519	12.5	13.1	00070219	
4800114	.520	.549	13.2	13.9	00070220	
4800115	.550	.579	14.0	14.7	00070221	
4800116	.580	.609	14.8	15.4	00070222	
4800117	.610	.639	15.5	16.2	00070223	
4800118	.640	.669	16.3	16.9	00070224	
4800119	.670	.699	17.0	17.8	00070225	
4800120	.700	.723	17.9	18.3	00070184	
4800122	.724	.779	18.4	19.7	00070186	
4800124	.780	.834	19.8	21.1	00070188	
4800126	.835	.889	21.2	22.5	00070190	
4800128	.890	.944	22.6	23.9	00070192	
4800130	.945	.999	24.0	25.4	00070194	
4800132	1.000	1.054	25.5	26.8	00070195	

For Housing Only – Order #4800000  
DUAL INSERT APPLICATION: Catalog Numbers are available for Small & Large Insert Combinations – Contact PLP  
The maximum cable accepted in the small cavity is .699".