



FIBERLIGN[®] DIELECTRIC SUPPORT

The **FIBERLIGN Dielectric Support (FDS)** system is designed to gently but firmly support ADSS cable. It is intended for tangent support installations on lines that feature relatively low voltages, short spans, and modest mechanical loads.

FEATURES AND BENEFITS

- Mounts to pole with a 5/8" through bolt or a banding system with a mounting bracket
- Supports span lengths up to 600 ft (183 m) NESC Heavy for cables with diameters less than 1.0" and 300 ft (91 m) NESC Heavy for cables with diameters greater than 1.0"
- Supports line angles up to 20 degrees
- Housing is made from a high-strength dielectric urethane material
- Inserts are made from a soft, pliable dielectric material that gently grips and cushions the cable
- Highly abrasive-resistant surface of the housing allows it to be used as a stringing traveler at the structure

SPECIFICATIONS

The support performance depends upon the specific cable outer diameter, initial cable tension, NESC loading condition, and other factors. The **FIBERLIGN® Dielectric Support** is designed for a cable system with light tensions and short spans. The following cable system specifications are required to use the FIBERLIGN Dielectric Support:

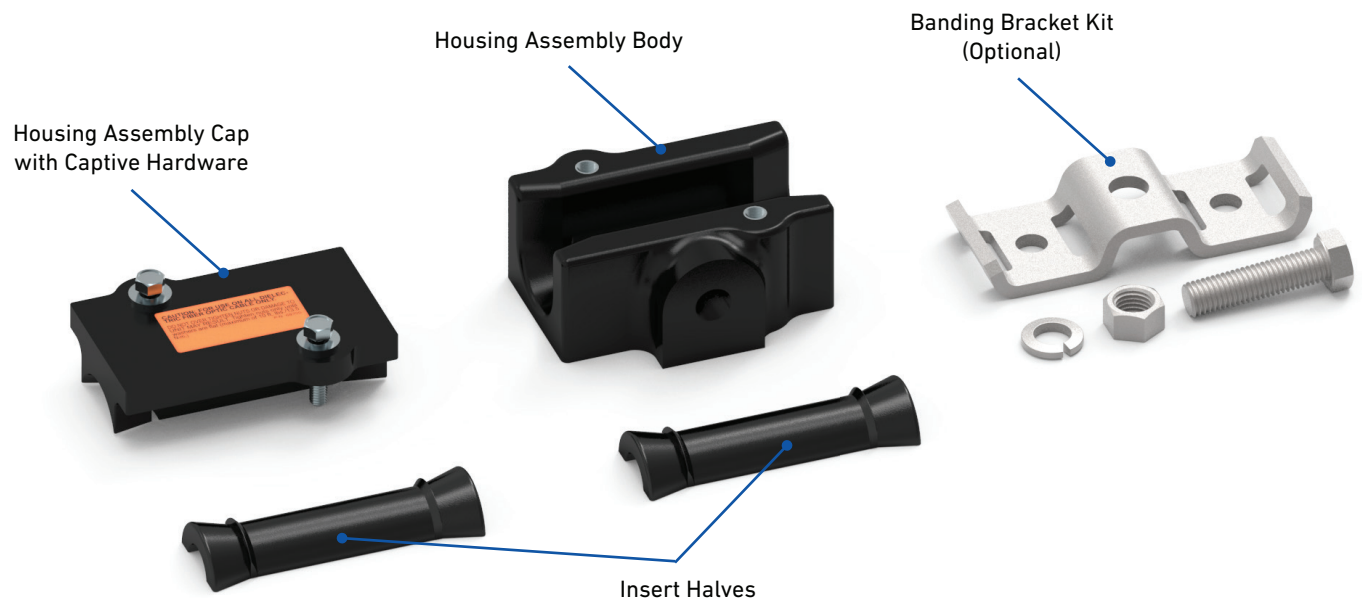
FIBERLIGN Dielectric Support

Cable System Requirements		
Maximum Span Length ¹	Maximum Line Angle for Stringing Operations ²	Maximum Line Angle for Permanent Installations ²
degrees		
<1.00" OD = 600 ft (183 m)	10	20
≥1.00" OD = 300 ft (91 m)		

¹ NESC Heavy

² Consult PLP for exceptions

COMPONENTS



Component	Description
Housing Assembly	Housing cavity is designed to accept Insert Halves and can be used for stringing in cable. Housing body has a molded-in threaded hole that will accept a 5/8"-11 UNC hot-dipped galvanized bolt.
Insert Halves	Slotted to accept cables with diameters up to 1.05" (26.7 mm). Designed to cushion the cable under loads. Molded flanges retain inserts to help avoid dropping them during installation.
Banding Bracket Kit (Optional)	Used to mount the FDS after the bracket has been banded to a structure.



MOUNTING OPTIONS

Bolt Mount

- Attached with a 5/8"-11 double-arming bolt
- Support can be mounted horizontally or vertically



Dielectric Support Bolted to Pole

Band Mount

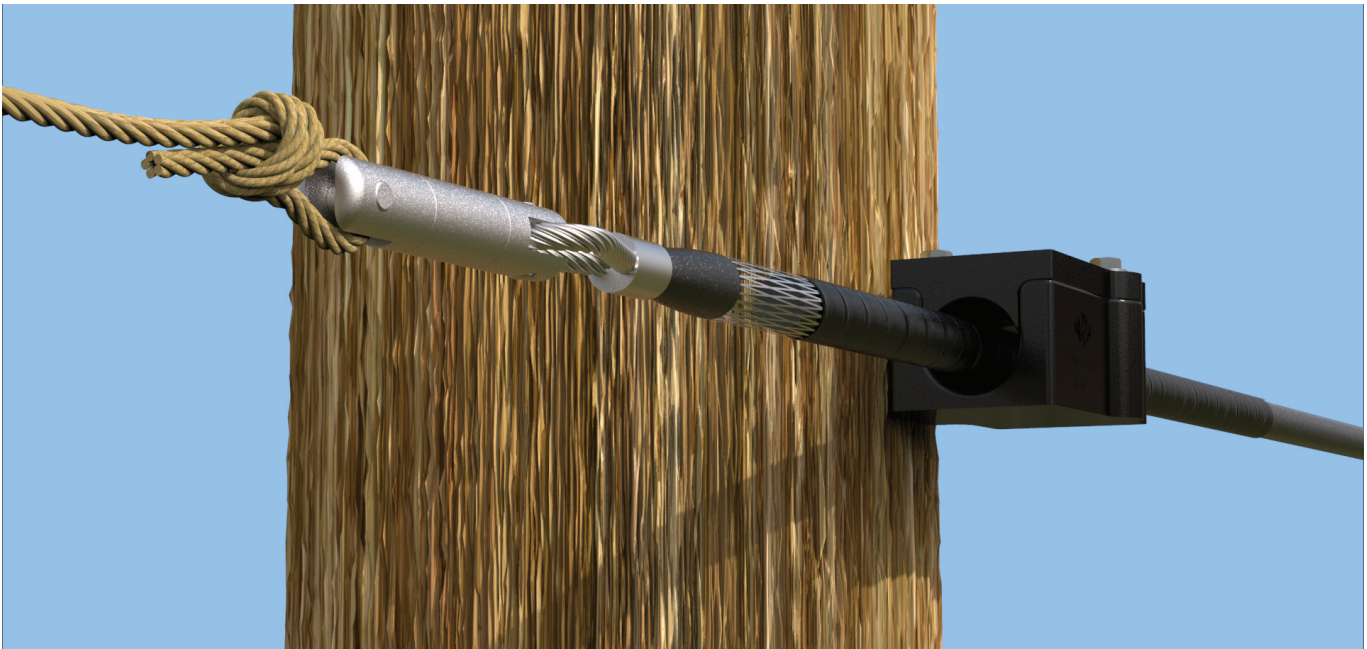
- Bracket kit required
- Accepts 1-1/4" wide high-strength banding
- Banding not included



Dielectric Support Banded to Pole

STRINGING OPERATIONS

- Housing assembly allows up to 10 degree line angles
- Eliminates the need for conventional stringing travelers



Stringing in Cable with FIBERLIGN Dielectric Supports

ORDERING INFORMATION

Select the appropriate FIBERLIGN® Dielectric Support based on the cable diameter. If the cable you are using does not fall within any of the published ranges, please contact PLP for further assistance.

FIBERLIGN Dielectric Support

- Each Dielectric Support includes one complete insert (two halves) for the stated cable range
- Additional inserts are sold as Insert Halves – see adjacent table

Catalog Number		Cable Diameter Range	
Support (includes insert)	Support with Banding Bracket Kit	in	mm
44002144	44002144B1	0.275 – 0.325	7.0 – 8.3
44000691	44000691B1	0.326 – 0.375	8.4 – 9.5
44009998	44009998B1	0.376 – 0.425	9.6 – 10.8
44009949	44009949B1	0.426 – 0.475	10.9 – 12.1
44009952	44009952B1	0.476 – 0.525	12.2 – 13.3
44009823	44009823B1	0.526 – 0.575	13.4 – 14.6
44009798	44009798B1	0.576 – 0.625	14.7 – 15.9
44009776	44009776B1	0.626 – 0.675	16.0 – 17.1
44009799	44009799B1	0.676 – 0.750	17.2 – 19.1
44009878	44009878B1	0.751 – 0.825	19.2 – 21.0
44009963	44009963B1	0.826 – 0.900	21.1 – 22.9
44002213	44002213B1	0.901 – 0.950	23.0 – 24.1
44003915	44003915B1	0.951 – 1.000	24.2 – 25.4
440010296	440010296B1	1.0001 – 1.050	25.5 – 26.6
440000000	Housing		
710010577	Banding Hardware Only		

FIBERLIGN Dielectric Support Insert Halves

- Two Insert Halves are required for each support

Catalog Number	Cable Diameter Range	
	in	mm
00070061	0.275 – 0.325	7.0 – 8.3
00070052	0.326 – 0.375	8.4 – 9.5
00070056	0.376 – 0.425	9.6 – 10.8
00070059	0.426 – 0.475	10.9 – 12.1
00070107	0.476 – 0.525	12.2 – 13.3
00070088	0.526 – 0.575	13.4 – 14.6
00070108	0.576 – 0.625	14.7 – 15.9
00070109	0.626 – 0.675	16.0 – 17.1
00070110	0.676 – 0.750	17.2 – 19.1
00070111	0.751 – 0.825	19.2 – 21.0
00070112	0.826 – 0.900	21.1 – 22.9
00070113	0.901 – 0.950	23.0 – 24.1
00070147	0.951 – 1.000	24.2 – 25.4
00070154	1.0001 – 1.050	25.5 – 26.6



FIBERLIGN Dielectric Support Kit*
* Includes one complete insert (comprised of two Insert Halves)



FIBERLIGN Dielectric Support Insert Half