



## 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

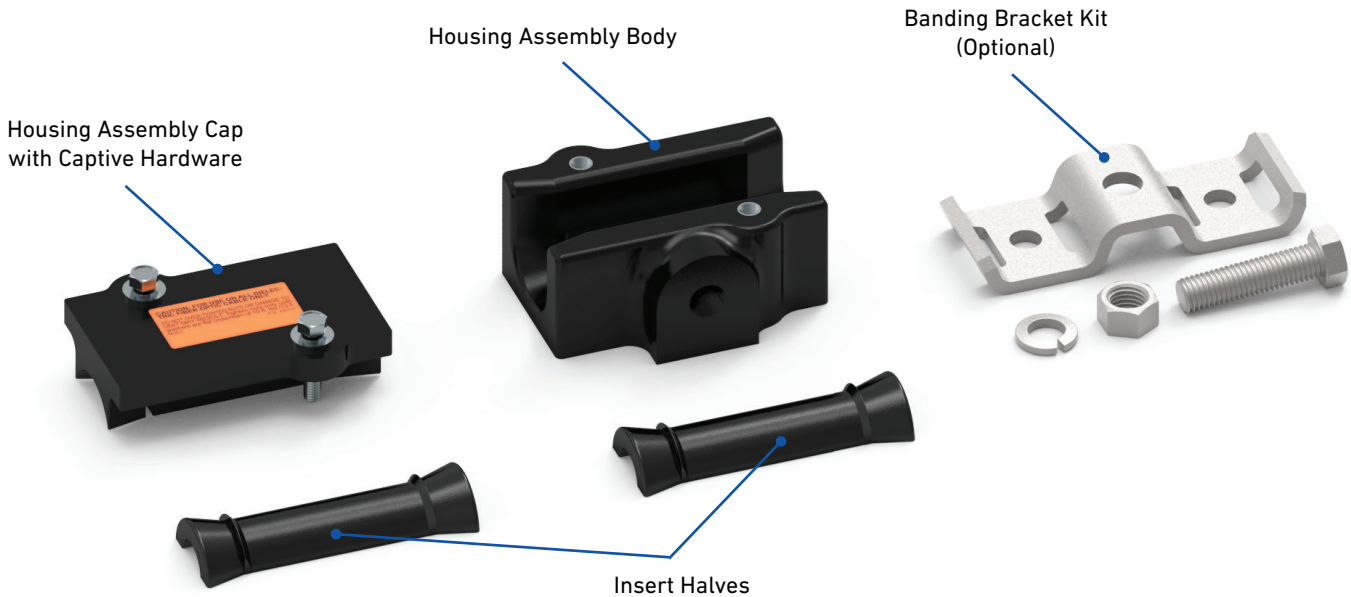
The support performance depends upon the specific cable outer diameter, initial cable tension, NESC loading condition, and other factors. The **FIBERLIGN® Dielectric Support** is designed for a cable system with light tensions and short spans. The following cable system specifications are required to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

FIBERLIGN Dielectric Support

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

<sup>1</sup> NESC Heavy  
<sup>2</sup> 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

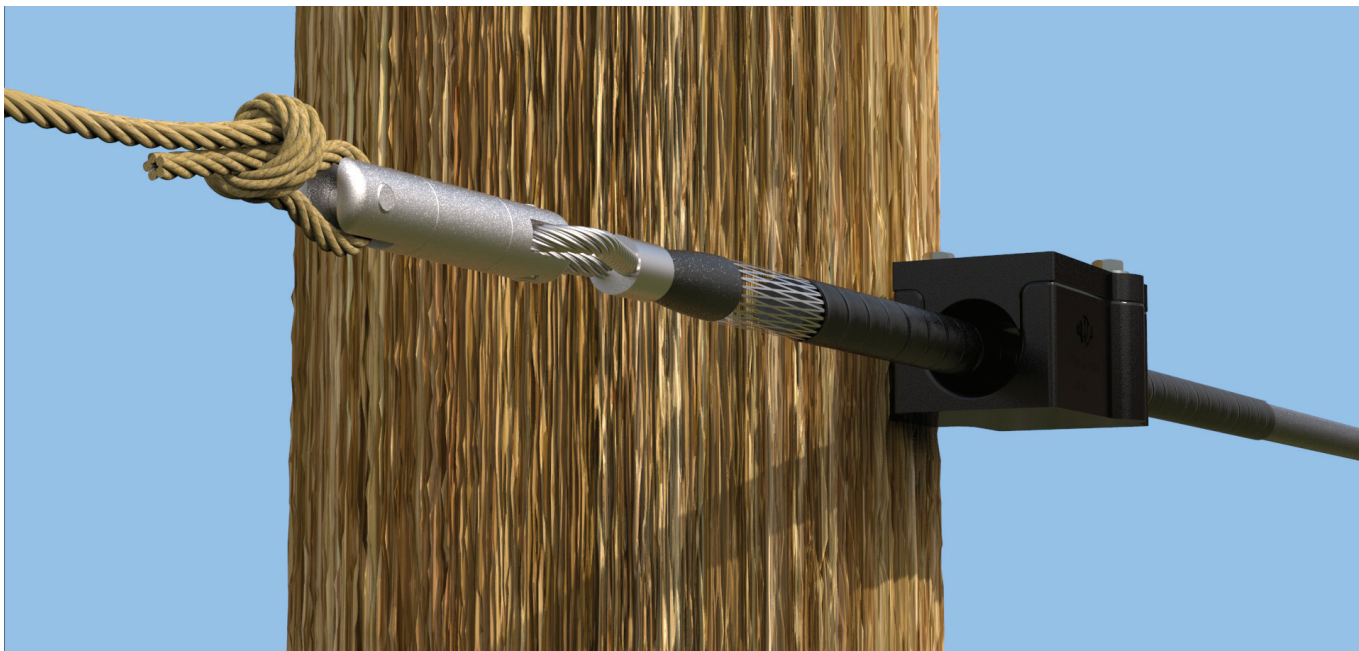
- Bracket kit required
- Accepts 1-1/4" wide high-strength banding
- Banding not included



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