

FIBERLIGN[®]



FIBERLIGN® ALUMINUM SUSPENSION

The FIBERLIGN Aluminum Suspension (FASN) is designed to gently, but firmly, suspend ADSS cable. It is intended for tangent support installations on lines that have short to medium spans and can be used in low- to high-voltage environments. Structural Reinforcing Rods (SRR) and conductive taped inserts are deployed in high voltage environments and long span applications, as required for transmission portions of the cable network.

FEATURES AND BENEFITS

- Keepers are made from aluminum alloy
- · Hinged keepers are secured together with a captured galvanized steel bolt, washer, and lock nut
- Inserts are made from a soft, pliable neoprene that gently grips and cushions the cable. Inserts are supplied with grit on the inner bore and conductive tape when they are applied on SRR.
- Inserts are color coded to easily identify their cable diameter range
- Gritted inserts for SRR applications have conductive tape wrapped around them to ensure bonding between the SRR and the housing
- SRR ends are factory formed to flare away from the cable to prevent damage to the cable during installation, unbalanced loading, or cable motion
- Can be provided with an optional anchor shackle and 5/8"-11 eye nut for bolted applications on a pole or structure
- Banding bracket and corona protection options are available separately

A cross reference to the Legacy FAS can be found in the Appendix

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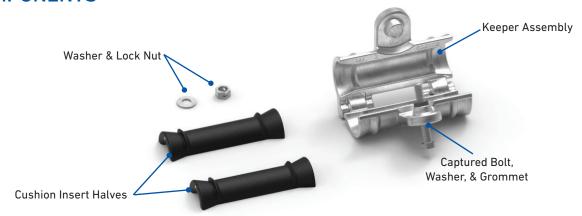


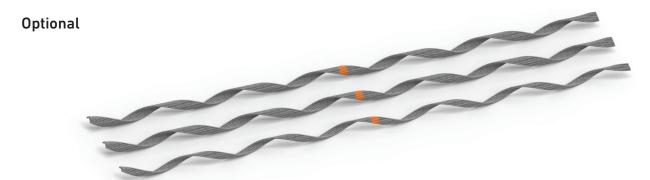
SPECIFICATIONS

- The suspension performance depends upon the specific cable outer diameter, initial cable tension, NESC loading condition, and other factors.
- Designed for a cable system with light tensions and short spans.

| Characteristic | Specification |
|-----------------------|---|
| Maximum Span Length | 600 ft (183 m) NESC Heavy for short spans without Structural Reinforcing Rods |
| | 1,200 ft (366 m) NESC Heavy for intermediate spans with Structural Reinforcing Rods |
| Maximum Vertical Load | 7,000 lb |
| Maximum Line Angle | 30 degrees |

COMPONENTS





Structural Reinforcing Rods (SRR) - Subsetted for longer spans up to 1,200 ft



Anchor Shackle & 5/8"-11 Eye Nut

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MOUNTING OPTIONS

Bolt Mount

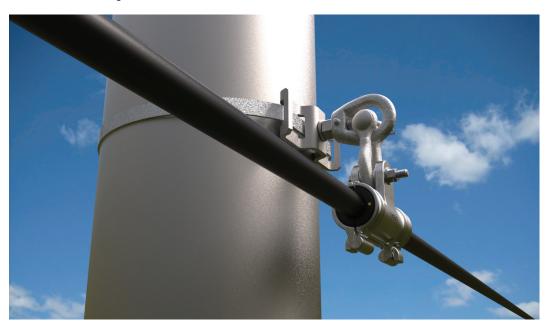
- Suspended from a 5/8"-11 double-arming bolt with an optional Anchor Shackle (Catalog Number: 710010357) and 5/8"-11 Eye Nut add-on
- For eye bolt applications, the Anchor Shackle can be ordered separately.



FASN Attached to Pole with 5/8" Double-Arming Bolt

Band Mount

- Requires the 5,000 lb Limited Tension Banding Bracket Kit (Catalog Number: 710010577)
- Banding Bracket Kit includes: 5/8"-11 x 2-1/2" long bolt, lock washer, hex nut, and banding bracket
- Use the optional Anchor Shackle and 5/8"-11 Eye Nut (Catalog Number: 710010357) to attach the suspension to the banding bracket.
- Band to the pole with 1-1/4" banding (not included)



FASN Attached to Pole with Banding Bracket Kit



SRR APPLICATIONS

- $\bullet \ \, \text{Structural reinforcing rods (SRR) provide substantial holding strength via compression. } \\$
- Holding strength is enhanced by the grip on the SRR and the inserts of the suspension itself
- Available for cable diameters ranging from 0.426" (10.8 mm) to 0.812" (20.6 mm)



FASN with SRR

CORONA PROTECTION

• The SRR for the FASN has been designed to accept the ADSS-CORONA™ Coil. The ADSS-CORONA Coil reduces electrical stress at the ends of the metal rods.



FIBERLIGN® ADSS-CORONA™ Coil Applied on SRR



ORDERING INSTRUCTIONS

- Select the appropriate suspension or insert half based on the cable diameter.
- Each suspension includes one complete insert (two halves) for the stated cable range.
- Additional inserts are sold as Insert Halves see adjacent table. Two insert halves are required for each support.

FIBERLIGN Aluminum Suspension without SRR

| Ca | talog Number | Color | Cable Diameter Range | | |
|------------------------------|---|--------|----------------------|-------------|--|
| Suspension (includes insert) | Suspension with Anchor Shackle & 5/8"-11 Eye Nut | Code | in | mm | |
| 4450195A | 4450195AS | Red | 0.226 - 0.275 | 5.7 – 6.9 | |
| 4450196A | 4450196AS | Yellow | 0.276 - 0.325 | 7.0 – 8.2 | |
| 4450197A | 4450197AS | Pink | 0.326 - 0.375 | 8.3 – 9.4 | |
| 4450198A | 4450198AS | Gray | 0.376 - 0.425 | 9.5 – 10.7 | |
| 4450199A | 4450199AS | Black | 0.426 - 0.475 | 10.8 – 12.0 | |
| 4450200A | 4450200AS | Blue | 0.476 - 0.525 | 12.1 – 13.3 | |
| 4450201A | 4450201AS | Orange | 0.526 - 0.575 | 13.4 – 14.6 | |
| 4450202A | 4450202AS | Brown | 0.576 – 0.625 | 14.7 – 15.9 | |
| 4450203A | 4450203AS | Green | 0.626 - 0.675 | 16.0 – 17.1 | |
| 4450204A | 4450204AS | White | 0.676 – 0.750 | 17.2 – 19.1 | |
| 4450205A | 4450205AS | Red | 0.751 – 0.825 | 19.2 – 21.0 | |
| 4450206A | 4450206AS | Yellow | 0.826 - 0.900 | 21.1 – 22.9 | |
| 4450207A | 4450207AS | Pink | 0.901 – 0.975 | 23.0 – 24.8 | |
| 4450208A | 4450208AS | Gray | 0.976 – 1.050 | 24.9 – 26.7 | |
| 4450004 | Housing Assembly Only | | | | |
| 710010357 | Anchor Shackle and 5/8" - 11 Eye Nut | | | | |
| AS-5L | Anchor Shackle Only | | | | |
| 710010577 | 5,000 lb Limited Tension Banding Bracket | | | | |

Cushion Insert Halves

| ousilion insert fluttes | | | | | | |
|-------------------------|--------|---------------|-------------|--|--|--|
| Catalan | Color | Cable Dian | neter Range | | | |
| Catalog Number | Code | in | mm | | | |
| 00070446 | Red | 0.226 - 0.275 | 5.7 – 6.9 | | | |
| 00070447 | Yellow | 0.276 - 0.325 | 7.0 – 8.2 | | | |
| 00070448 | Pink | 0.326 - 0.375 | 8.3 – 9.4 | | | |
| 00070449 | Gray | 0.376 - 0.425 | 9.5 – 10.7 | | | |
| 00070450 | Black | 0.426 - 0.475 | 10.8 – 12.0 | | | |
| 00070451 | Blue | 0.476 - 0.525 | 12.1 – 13.3 | | | |
| 00070452 | Orange | 0.526 - 0.575 | 13.4 – 14.6 | | | |
| 00070453 | Brown | 0.576 – 0.625 | 14.7 – 15.9 | | | |
| 00070454 | Green | 0.626 - 0.675 | 16.0 – 17.1 | | | |
| 00070455 | White | 0.676 - 0.750 | 17.2 – 19.1 | | | |
| 00070456 | Red | 0.751 – 0.825 | 19.2 – 21.0 | | | |
| 00070457 | Yellow | 0.826 - 0.900 | 21.1 – 22.9 | | | |
| 00070458 | Pink | 0.901 – 0.975 | 23.0 – 24.8 | | | |
| 00070459 | Gray | 0.976 – 1.050 | 24.9 – 26.7 | | | |

For sizes greater than 1.050", contact PLP about the Legacy FAS



FIBERLIGN Aluminum Suspension*
*Includes one complete insert
(comprised of two Insert Halves)



FIBERLIGN Aluminum Suspension Cushion Insert Half

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ORDERING INFORMATION

- Select the appropriate suspension or insert half based on the cable diameter.
- Each suspension includes one complete insert (two halves) for the stated cable range.
- Additional inserts are sold as Insert Halves see bottom table. Two insert halves are required for each suspension.
- Insert halves without grit cannot be used with FIBERLIGN Aluminum Suspensions with SRR.
- To order the housing assembly and other components separately, refer to the FIBERLIGN Aluminum Suspension without SRR table on the previous page.

FIBERLIGN Aluminum Suspension with SRR

| Catalog | Number | | Cable Diameter Range | | SRR Specifications | | | | | | |
|-------------------|----------------------------------|-----------------|----------------------|-------------|--------------------|--------|---------|-------|---------------|-----------|--------|
| Suspension | Suspension with | Insert Color | | | Rod L | _ength | Rod Dia | meter | Rods | | Color |
| (includes insert) | Anchor Shackle & 5/8"-11 Eye Nut | Code | in | mm | in | mm | in | mm | per Subset | Subset | Code |
| 4470199A | 4470199AS | Green | 0.426 - 0.475 | 10.8 – 12.0 | 30 | 762 | 0.100 | 2.5 | 14 | 5 – 5 – 4 | Green |
| 4470200A | 4470200AS | White | 0.476 - 0.500 | 12.1 – 12.7 | 33 | 838 | 0.100 | 2.5 | 15 | 5 - 5 - 5 | Red |
| 4470201A | 4470201AS | White | 0.501 - 0.550 | 12.8 – 14.0 | 34 | 864 | 0.100 | 2.5 | 16 | 6 - 5 - 5 | Blue |
| 4470202A | 4470202AS | Red | 0.551 - 0.625 | 14.1 – 15.9 | 34 | 864 | 0.100 | 2.5 | 17 | 6 - 6 - 5 | Black |
| 4470203A | 4470203AS | Yellow | 0.626 - 0.700 | 16.0 – 17.8 | 35 | 889 | 0.100 | 2.5 | 19 | 7 - 7 - 5 | Orange |
| 4470204A | 4470204AS | Pink | 0.701 – 0.737 | 17.9 – 18.6 | 36 | 914 | 0.119 | 3.0 | 18 | 6-6-6 | Green |
| 4470205A | 4470205AS | Gray | 0.738 - 0.812 | 18.7 – 20.6 | 36 | 914 | 0.119 | 3.0 | 19 | 7 - 7 - 5 | Pink |



FIBERLIGN Aluminum Suspension for Cushion Inserts with SRR*

* Includes one complete insert

(comprised of two Insert Halves)

Cushion Insert Halves with Grit & Foil Tape

| Catalog Number | Color Code | Cable Diameter Range | | | | |
|----------------|------------|----------------------|-------------|--|--|--|
| | | in | mm | | | |
| 00070454A | Green | 0.626 - 0.675 | 16.0 – 17.1 | | | |
| 00070455A | White | 0.676 - 0.750 | 17.2 – 19.1 | | | |
| 00070456A | Red | 0.751 - 0.825 | 19.2 – 21.0 | | | |
| 00070457A | Yellow | 0.826 - 0.900 | 21.1 – 22.9 | | | |
| 00070458A | Pink | 0.901 - 0.975 | 23.0 – 24.8 | | | |
| 00070459A | Gray | 0.976 – 1.050 | 24.9 – 26.7 | | | |



FIBERLIGN Aluminum Suspension Cushion Insert Half with Grit & Foil Tape

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