



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

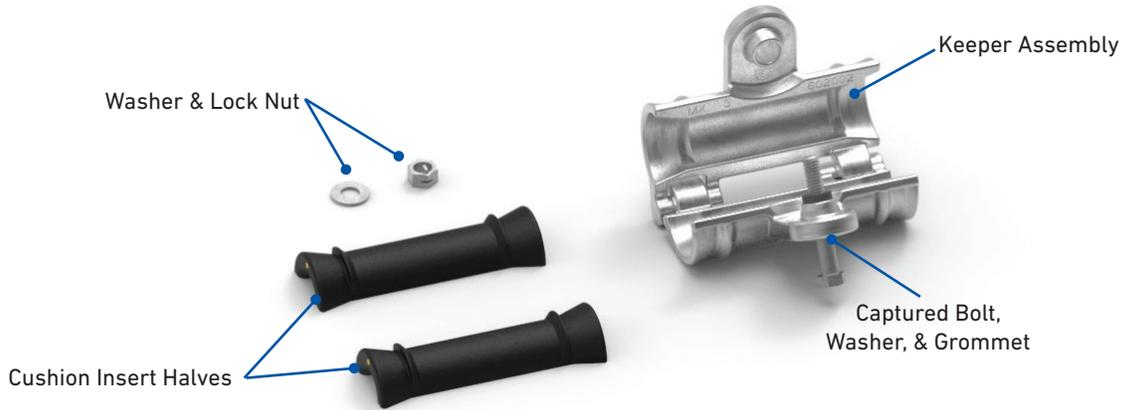
A cross reference to the Legacy FAS can be found in the Appendix

SPECIFICATIONS

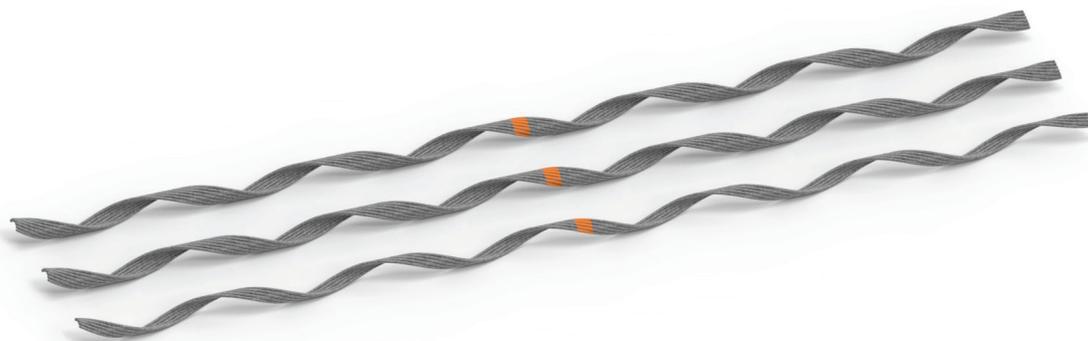
- The suspension performance depends upon the specific cable outer diameter, initial cable tension, NESC loading condition, and other factors.
- Designed for a cable system with light tensions and short spans.

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



Optional



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



Anchor Shackle & 5/8"-11 Eye Nut



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

- 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

Catalog Number		Color Code	Cable Diameter Range	
Suspension (includes insert)	Suspension with Anchor Shackle & 5/8"-11 Eye Nut		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

Catalog Number	Color Code	Cable Diameter Range	
		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

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		Insert Color Code	Cable Diameter Range		SRR Specifications						
Suspension (includes insert)	Suspension with Anchor Shackle & 5/8"-11 Eye Nut		in	mm	Rod Length		Rod Diameter		Rods per Subset	Subset	Color Code
					in	mm	in	mm			
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