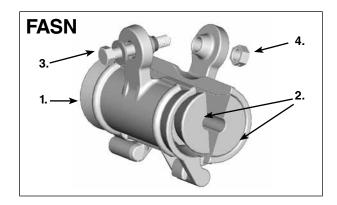
FIBERLIGN® Aluminum Suspension for ADSS



NOMENCLATURE

- 1. Keeper
- 2. Cushion Inserts (With or Without Grit)
- 3. Captured Bolt and Washer (Captured with Grommet)
- 4. Lock Nut
- **5.** Anchor Shackle with Eye-nut (Optional not shown)
- 6. Structural Reinforcing Rods (optional, not shown)

Keeper:

The aluminum alloy keepers have an interlocking hinge for simple access and cable installation. Closing the keeper captures and secures the cushion inserts and ADSS cable. The keepers join together to form a clevis for attachment to the structure via Cat. No. AS-5L anchor shackle fitting or equivalent.

Cushion Inserts:

A soft pliable dielectric material that gently grips the ADSS cable – supplied either with or without grit on the inner diameter bore. Gritted inserts are applied over optional Structural Reinforcing Rods for medium span applications. The gritted inserts have a conductive aluminum strip located near the center for higher voltage environments.

Captured Bolt, Washer, and Lock Nut:

Galvanized steel bolt and washer captured with an elastomer o-ring. The galvanized steel Lock Nut has a stiff wire locking mechanism designed to engage with the thread of the mating bolt.

Structural Reinforcing Rods (SRR)

are preformed galvanized steel rods – subsetted and gritted. They are intended to provide additional protection to the cable jacket and increase longitudinal holding abilities of the unit.

FASN is the acronym for FIBERLIGN ALUMINUM SUSPENSION.

APPLICATION

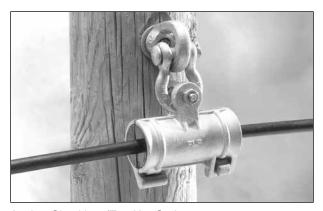
The FIBERLIGN Aluminum Suspension (FASN) is designed to gently, but firmly support All-Dielectric elf-Supporting (ADSS) cable. The FASN features the following: Interlocking Hinge, Single-bolt clamping, Short

to Medium Span Option, Low to High Voltage Environment acceptance. The addition of SRR allows the versatile FASN to go from a distribution environment to a transmission environment. Fittings and brackets are available for wood pole and concrete or metal structure applications.

Span Length Capability

- 1. For short spans without SRR:
 - <600' (183 m) maximum recommended span lengths.
- 2. For Intermediate spans with SRR:
 - <1200' (366 m) maximum recommended span lengths.

For additional cable jacket protection, longer spans and higher longitudinal holdling requirements, the dual rod layer FIBERLIGN Dielectric Suspension (found later in this section) is recommended.



Anchor Shackle w/Eye Nut Option



FASN with Rods

Vertical Load Limit

The FASN has an ultimate vertical load capability of 7000 (31 kN) pounds.

Longitudinal Cable Holding Capabilities

Without SRR, modest longitudinal holding capabilities are provided via compresson of the non-gritted inserts on the cable. Specific values are dependent upon cable brand, internal construction and diameter. Consult PLP for specifics. With SRR, substantial longitudinal holding capabilities are provided via insert compression and are enhanced by the grit on both the inserts and SRR. Contact PLP for specifics.

Rod End Treatment

In order to avoid scratching, gouging or nicking of the plastic jacket during installation, unbalanced loading, or cable motion, the ends of the SRR's are factory formed to flare away from the cable surface.

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Grounding and Corona Protection:

If positive grounding of the cable and metalic components of the FASN is desired, a grounding wire can be attached to the 3/8" captured bolt. PLP can supply a 4' (1.2m) long #4 copper or 4/0 aluminum grounding wire assembly (Cat. No. 710010016 or 710010294 respectively).

For the FASN, the SRRs have been designed to accept the ADSS-CORONA™ Coil. The ADSS CORONA Coil reduces electrical stress at the ends of the metal rods. Further catalog information about this product can be found later in this section.

Mounting

- Bolted (Wood Poles): Adding suffix code "S" provides an anchor shackle with 5/8"-11 eye nut accessory (Cat. No. 710010357) for attachment to double arm bolts. The anchor shackle (Cat. No. AS-5L) may be purchased separately to attach to eyebolts.
- Banded (Steel, Concrete Poles): Banding Bracket (Cat. No. 710010577) is offered for low tension/short span support application only. The kit includes a 5/8"-11x 2-1/2" long bolt, lockwasher, hex nut and banding bracket. The bracket is rated for 1,200# (5.3 kN) vertical load and should be used with a high strength 1-1/4" (32 mm) steel band (band purchased separately).

Line Angles

The FASN maximum recommended line angle for a single suspension unit is 30° depending on cable brand. Two units can be combined to turn larger angles up to 60°, although double dead-ending is another option for large angles. Contact PLP for details.

Torque Level

The 3/8" captured bolt should be tightened UNTIL THE LOCK WASHER IS FLAT and the clevis halves are joined flush. This will require about 10 foot-pounds (120 inch-pounds or 13.5 Newton-meters) of force. DO NOT OVER-TORQUE.

Heavy-Duty FIBERLIGN® Aluminum Suspension Kit with Structural Reinforcing Rods

With Otherstand Helmoroling Hous								
		ADSS						
Catalog Number*	Min. (mm)	Max. (mm)	Rod Length (mm)	Rod Dia. (mm)	Color Code			
4470199	0.426" (10.8)	0.475" (12.0)	30" (762)	.100" (2.5)	Green			
4470200	0.476" (12.1)	0.500" (12.7)	33" (838)	.100" (2.5)	Red			
4470201	0.501" (12.8)	0.550" (14.0)	34" (864)	.100" (2.5)	Blue			
4470202	0.551" (14.1)	0.625" (15.9)	34" (864)	.100" (2.5)	Black			
4470203	0.626" (16.0)	0.700" (17.8)	35" (889)	.100" (2.5)	Orange			
4470204	0.701" (17.9)	0.737" (18.7)	36" (914)	.119" (3)	Green			
4470205	0.738" (18.9)	0.812" (20.6)	36" (914)	.119" (3)	Pink			
4470206	0.813" (20.7)	0.887" (22.5)	37" (940)	.119" (3)	Purple			
4470207	0.888" (22.6)	0.962" (24.4)	37" (940)	.119" (3)	White			
4470208	0.963" (24.5)	1.037" (26.3)	37" (940)	.119" (3)	Yellow			
4470209	1.038" (26.4)	1.112" (28.2)	38" (965)	.119" (3)	Brown			
4470210	1.113 (28.3)	1.187" (30.1)	39" (991)	.119" (3)	Red			

*Add Suffix "S" to Catalog No. to include one #AS-5L Anchor Shackle

FIBERLIGN® Aluminum Suspension									
Without Structural Reinforcing Rods									
Catalo	ADSS Cable Range								
Complete	Inserts Only	Min.	Max.	Min.	Max.				
Assembly	(2 Required)	(in)	(in)	(mm)	(mm)				
4450195	00070241	0.226	0.275	5.7	6.9				
4450196	00070236	0.276	0.325	7	8.2				
4450197	00070237	0.326	0.375	8.3	9.4				
4450198	00070238	0.376	0.425	9.5	10.7				
4450199	00070239	0.426	0.475	10.8	12				
4450200	00070125	0.476	0.525	12.1	13.3				
4450201	00070126	0.526	0.575	13.4	14.6				
4450202	00070127	0.576	0.625	14.7	15.9				
4450203	00070128	0.626	0.675	16	17.1				
4450204	00070129	0.676	0.75	17.2	19.1				
4450205	00070130	0.751	0.825	19.2	21				
4450206	00070131	0.826	0.9	21.1	22.9				
4450207	00070132	0.901	0.975	23	24.8				
4450208	00070133	0.976	1.05	24.9	26.7				
4450209	00070134	1.051	1.25	26.8	28.6				
4450210	00070135	1.126	1.2	28.7	30.5				
4450211	00070136	1.201	1.275	30.6	32.4				
4450212	00070137	1.276	1.35	32.5	34.3				

Quantity 2 Inserts Required per Suspension

For Housing Only - Order #4450001

*Add Suffix "S" to Catalog No. to include one #AS-5L Anchor Shackle and 5/8" Eye-Nut

1.351 | 1.425 | 34.4 | 36.2

ORDERING INSTRUCTIONS

00070138

Refer to the catalog tables (with or without rods) and select the appropriate FASN for the ADSS cables outside diameter.

Add suffix code "S" to include anchor shackle with 5/8" eye-nut (Cat. No. 710010357) option.

Order Cat. No. 710010577 to receive the Limited Tension Banding Bracket – see "Mounting" paragraph earlier in this section for details.

Order Cat. No. 710010016 to receive a 4' (1.3 m) long #4 (7W) copper with terminal on one end. Order Catalog No. 710010294 to receive a 4' (1.2 m) long 4/0 (7W) aluminum conductor with terminal on one end.