# FIBERLIGN® ALUMINUM SUPPORT WITH NEOPRENE INSERTS

The **FIBERLIGN Aluminum Support (FAS)** with neoprene inserts 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 a pole with a 5/8" through bolt, double arming bolt, or with a 1-1/4" wide x 0.040" thick (32 mm x 1 mm) steel band
- Housing has been optimized to be more compact than the legacy FAS
- Base and keeper of the FAS are made from aluminum alloy
- Base has a light duty mounting hole for fiber optic service drops or secondary stringing blocks
- Hinged keeper is secured to the base with a captured galvanized steel bolt, lock washer, and washer
- Inserts are made from a soft, pliable neoprene that gently grips and cushions the cable within the housing
- Inserts are color coded to easily identify their cable diameter range
- Multiple assemblies can be stacked together for multi-cable installations
- Can be stacked with the legacy FIBERLIGN Aluminum Support
- Cable cavity of the housing is contoured and smooth to allow it to be used as a stringing traveler at the structure

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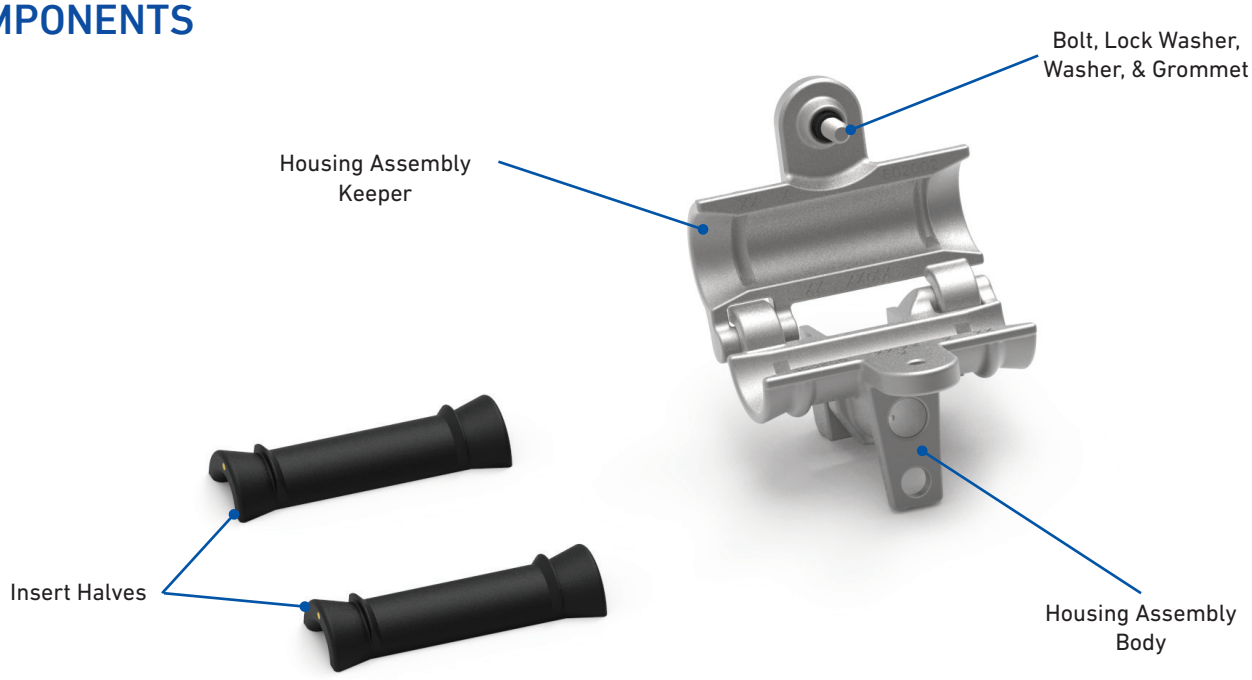
## HOLDING STRENGTHS AND LINE ANGLES

- Support 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 |
| Maximum Line Angle | 20 degrees (consult PLP for exceptions) |

## COMPONENTS




## FIBERLIGN ALUMINUM SUPPORT COMPARISON

| Characteristic | FAS | Legacy FAS |
|---|---|---|
| Insert Type | Neoprene | Urethane |
| Compatible with Both Insert Types | No | No |
| Color Coded Inserts | Yes | No |
| Minimum Acceptable Cable Diameter | 0.226" (5.7 mm) | 0.226" (5.7 mm) |
| Maximum Acceptable Cable Diameter | 1.050" (26.7 mm) | 1.425" (36.2 mm) |
| Catalog Number for Equivalent Cable Diameter Range | 4450095A ↓ 4450108A | 4450095 ↓ 4450108 |
| | Not Available* | 4450109* ↓ 4450113 |
| Overall Housing Length | 5.00" (127 mm) | 5.00" (127 mm) |
| Overall Housing Width | 4.59" (117 mm) | 4.92" (125 mm) |
| Overall Housing Height | 3.92" (100 mm) | 4.25" (108 mm) |

*Larger cable diameters not available in the FAS are able to be accommodated with the Legacy FAS.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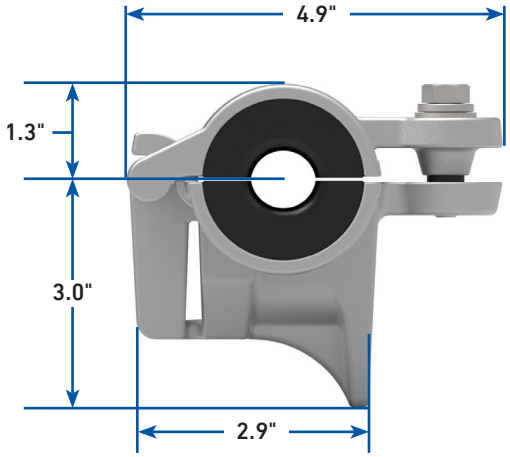
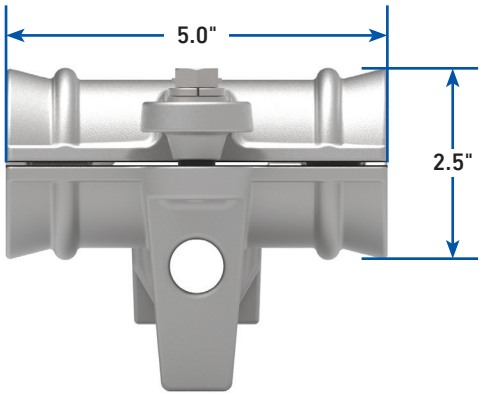
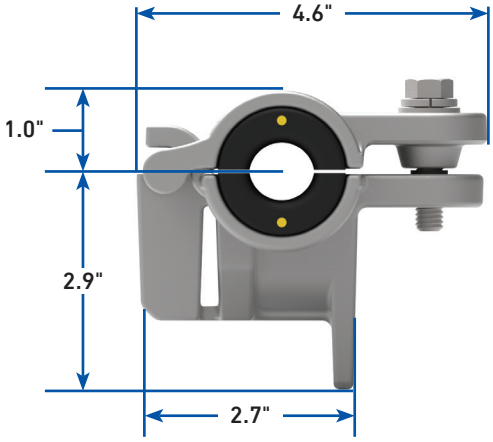
# DIMENSIONAL COMPARISON

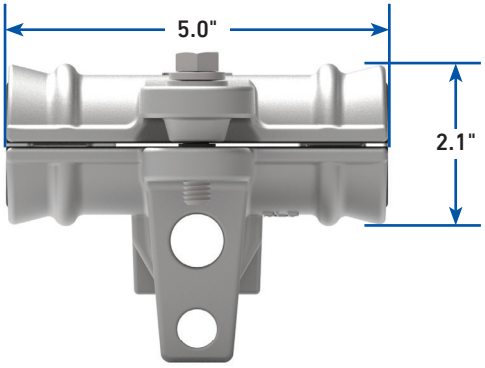
## Legacy FAS – Single Support for Urethane Inserts



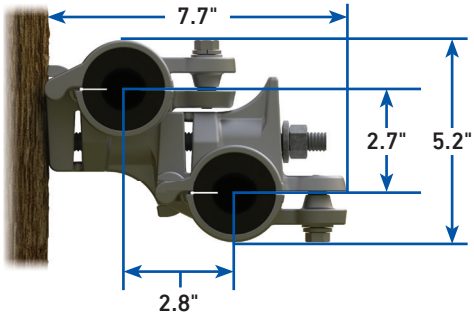




## Optimized FAS – Single Support for Neoprene Inserts

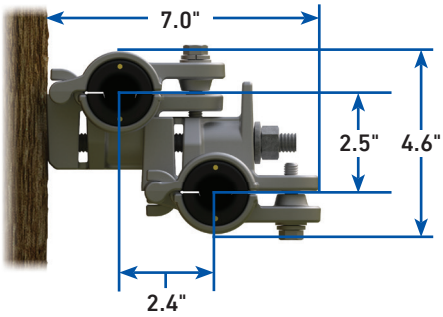


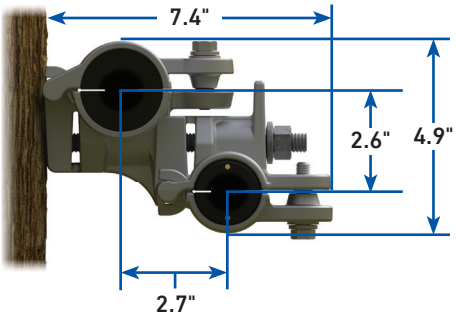

## Stacked Supports




Stacked Legacy FAS




Stacked FAS




Stacked FAS with Legacy FAS

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# MOUNTING OPTIONS

## Bolt Mount

- Attached with a 5/8"-11 through bolt or double-arming bolt
- Housing assembly accounts for approximately 3.2" (81 mm) for the Legacy FAS and 2.8" (71 mm) for the Optimized FAS of the bolt length

## Band Mount

- 1-1/4" wide (up to 0.44" thick) steel banding can be inserted through the back slot to directly attach the support to a structure
- Banding not included

FAS Bolted to Pole

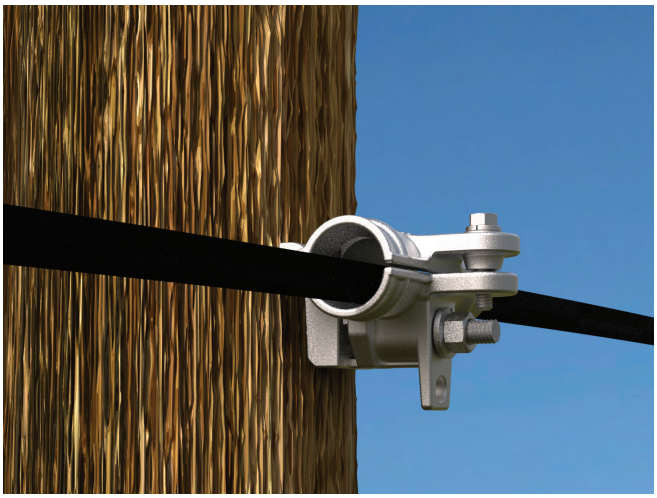
FAS Banded to Pole

# STRINGING OPERATIONS

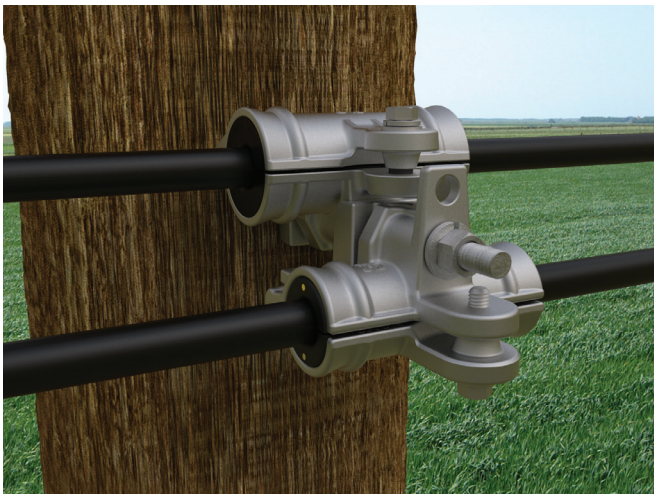
- Line angles up to 10 degrees for stringing
- With inserts removed, the open cavity will accept up to 1.2" diameter mechanical swivel with pulling-in grip
- Eliminates the need for conventional stringing travelers

# STACKING CAPABILITIES

- Allows for greater density at a single attachment location
- Adjust length of bolt by 3.2" (81 mm) (can be less for optimized FAS) for each stacked support
- Use a brace to support the bolt or banding when stacking more than two supports
- Staggered formation reduces sag interference
- Can be stacked with Legacy FAS



Stringing in Cable with FAS



Stacked FAS Assemblies (Combined FAS Designs)



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# ORDERING INSTRUCTIONS

- Select the appropriate support or insert half based on the cable diameter
- Each support 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 Support with Neoprene Inserts

| Catalog Number | Color Code | Cable Diameter Range | |
|---|---|---|---|
| | | in | mm |
| 4450095A | Red | 0.226 – 0.275 | 5.7 – 6.9 |
| 4450096A | Yellow | 0.276 – 0.325 | 7.0 – 8.2 |
| 4450097A | Pink | 0.326 – 0.375 | 8.3 – 9.4 |
| 4450098A | Gray | 0.376 – 0.425 | 9.5 – 10.7 |
| 4450099A | Black | 0.426 – 0.475 | 10.8 – 12.0 |
| 4450100A | Blue | 0.476 – 0.525 | 12.1 – 13.3 |
| 4450101A | Orange | 0.526 – 0.575 | 13.4 – 14.6 |
| 4450102A | Brown | 0.576 – 0.625 | 14.7 – 15.9 |
| 4450103A | Green | 0.626 – 0.675 | 16.0 – 17.1 |
| 4450104A | White | 0.676 – 0.750 | 17.2 – 19.1 |
| 4450105A | Red | 0.751 – 0.825 | 19.2 – 21.0 |
| 4450106A | Yellow | 0.826 – 0.900 | 21.1 – 22.9 |
| 4450107A | Pink | 0.901 – 0.975 | 23.0 – 24.8 |
| 4450108A | Gray | 0.976 – 1.050 | 24.9 – 26.7 |
| 4450003 | Housing Assembly Only | | |

## Neoprene 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 Support with Neoprene Inserts*
* Includes one complete insert
(comprised of two Insert Halves)

FIBERLIGN Aluminum Support Neoprene Insert Half

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