

# Fiber Optic

HARDWARE



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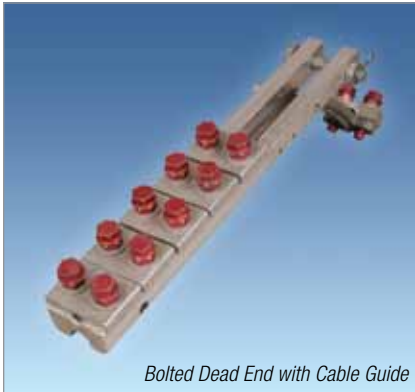
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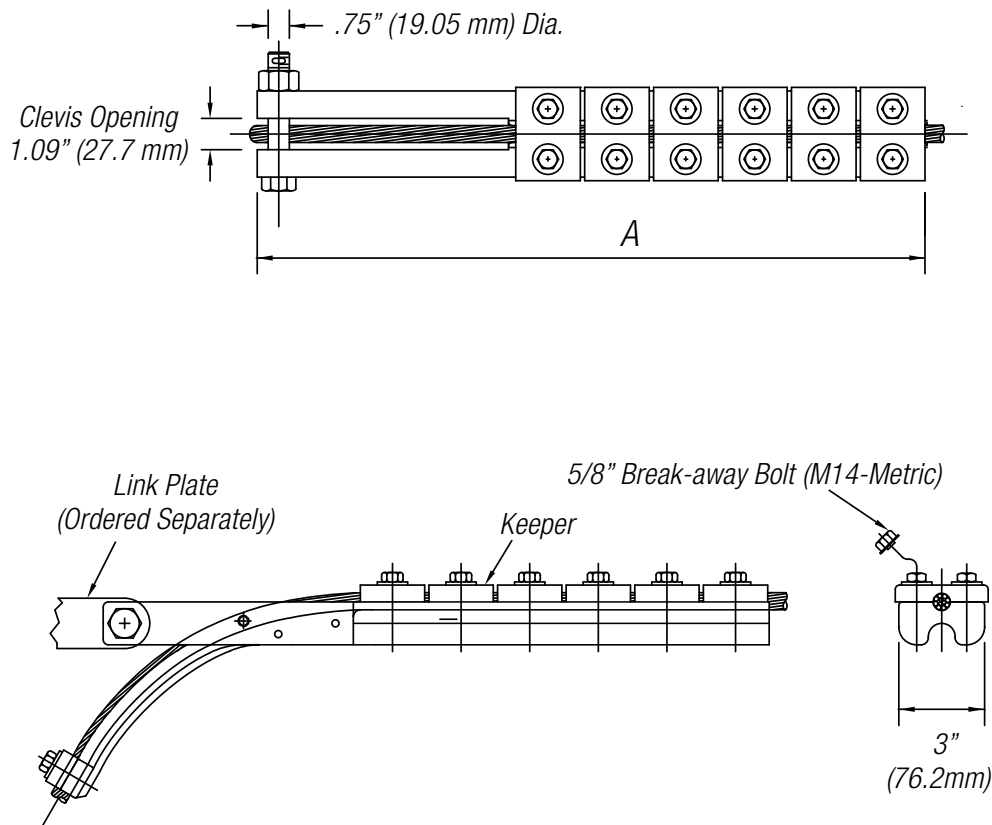


## Bolted Dead End for OPGW

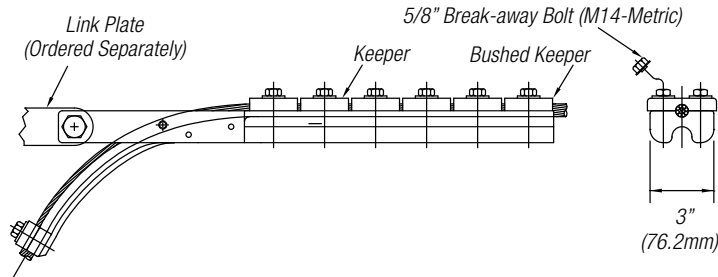
The ACA Dead End is a full tension termination for Optical Ground Wire cable. Break-away head bolts are used to apply a precise gripping force to hold the cable without affecting optical fiber performance.

### Features

- Performance: Sustained load equivalent to 95% of cable RBS
- Ultimate mechanical strength of dead end components: 40,000 lbs.
- Meets IEEE 1138 Vibration/Galloping tests
- Break-away bolts ensure proper installation torque while eliminating the need for specialized torque wrenches
- Optional Cable Guide (recommended) to train Optical Ground Wire down or around structure
- Drilled and tapped for grounding lug, eliminating additional accessories for electrical bonding
- Shorter than formed wire dead ends, allowing installation from the support structure
- Faster installation than competitive designs, reducing installation costs
- Optional link plate available for extension from structures (see next page)



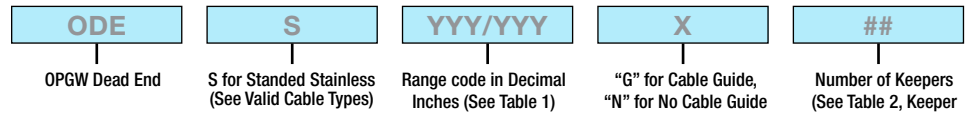
## Bolted Dead End for OPGW (Standed Stainless Steel Type Cable)



HexaCore  
ODES



MiniCore  
ODES



- NOTES:**
1. For installation instructions, see pg 101.
  2. Bushed end keeper not considered in number of keepers.
  3. Cables above 30,000 lbs RBS have to be tested.
  4. This deadend is approved only for AFL cables.

OPGW RBS	PERCENT ALUMOWELD > 33%			PERCENT ALUMOWELD LESS THAN 33%		
	NO. OF * KEEPERS	KEEPER DESIGNATION	DIMENSION "A"	NO. OF * KEEPERS	KEEPER DESIGNATION	DIMENSION "A"
14000 OR LESS	7	07	28.38	8	08	30.78
14001-17000	8	08	30.78	9	09	33.18
17001-21000	9	09	33.18	10	10	35.58
21000-26000	10	10	35.58	11	11	37.98
26001-ABOVE**	11	11	37.98	11	11	37.98

\* NUMBER OF KEEPERS DOES NOT INCLUDE THE END BUSHED KEEPER.  
\* NUMBER OF KEEPERS NOT TO EXCEED 11.  
\*\* SEE NOTE 3.

**CALCULATING CROSS SECTIONAL AREA OF ALUMOWELD (PERCENT)**

$AW\ AREA\ PERCENT = ((AW\ AREA) / (AW\ AREA + ALUMINUM\ AREA)) * 100$

IF THE AW AREA PERCENT IS LESS THAN 33%, ADD ONE KEEPER.

**AFL CABLE DESCRIPTION**

S3—109/45/673

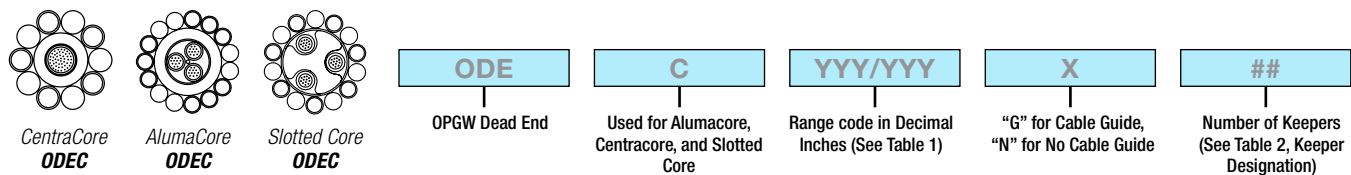
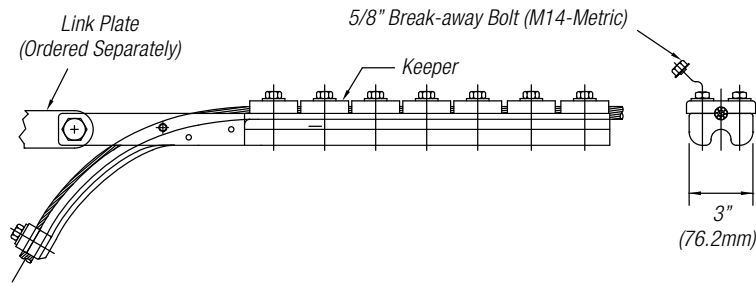
— CABLE DIA.  
— CROSS SECTIONAL AREA OF ALUMOWELD (MM2)  
— CROSS SECTIONAL AREA OF ALUMINUM (MM2)

CATALOG NUMBER	CABLE DIAMETER RANGE	
	MIN	MAX
ODES350/359GXX	0.350	0.359
ODES360/369GXX	0.360	0.369
ODES370/379GXX	0.370	0.379
ODES380/389GXX	0.380	0.389
ODES390/399GXX	0.390	0.399
ODES400/409GXX	0.400	0.409
ODES410/419GXX	0.410	0.419
ODES420/429GXX	0.420	0.429
ODES430/439GXX	0.430	0.439
ODES440/449GXX	0.440	0.449
ODES450/459GXX	0.450	0.459
ODES460/469GXX	0.460	0.469
ODES470/479GXX	0.470	0.479
ODES480/489GXX	0.480	0.489

CATALOG NUMBER	CABLE DIAMETER RANGE	
	MIN	MAX
ODES490/499GXX	0.490	0.499
ODES500/509GXX	0.500	0.509
ODES510/519GXX	0.510	0.519
ODES520/529GXX	0.520	0.529
ODES530/539GXX	0.530	0.539
ODES540/549GXX	0.540	0.549
ODES550/559GXX	0.550	0.559
ODES560/569GXX	0.560	0.569
ODES570/579GXX	0.570	0.579
ODES580/589GXX	0.580	0.589
ODES590/599GXX	0.590	0.599
ODES600/609GXX	0.600	0.609
ODES610/619GXX	0.610	0.619
ODES620/629GXX	0.620	0.629

CATALOG NUMBER	CABLE DIAMETER RANGE	
	MIN	MAX
ODES630/639GXX	0.630	0.639
ODES640/649GXX	0.640	0.649
ODES650/659GXX	0.650	0.659
ODES660/669GXX	0.660	0.669
ODES670/679GXX	0.670	0.679
ODES680/689GXX	0.680	0.689
ODES690/699GXX	0.690	0.699
ODES700/709GXX	0.700	0.709
ODES710/719GXX	0.710	0.719
ODES720/729GXX	0.720	0.729
ODES730/739GXX	0.730	0.739
ODES740/749GXX	0.740	0.749

## Bolted Dead End for OPGW (Core Tube Type Cable)



- NOTES:** 1. For installation instructions, see pg 101.  
2. This deadend is approved only for AFL cables.  
3. Cables above 30,000 lbs RBS have to be tested.

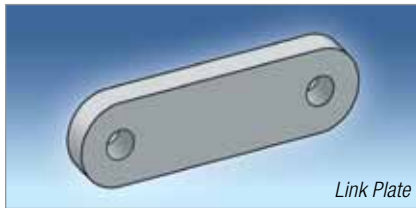
OPGW RBS	NO. OF * KEEPERS	KEEPER DESIGNATION	DIMENSION "A"
14000 OR LESS	7	07	25.98
14001 - 17000	8	08	28.38
17001 - 21000	9	09	30.78
21000 - 26000	10	10	33.18
26001 - 30000	11	11	35.58
IF > 30001*	12	12	37.98

\* SEE NOTE 3

CATALOG NUMBER	CABLE DIAMETER RANGE	
	MIN	MAX
ODEC350/359GXX	0.350	0.359
ODEC360/369GXX	0.360	0.369
ODEC370/379GXX	0.370	0.379
ODEC380/389GXX	0.380	0.389
ODEC390/399GXX	0.390	0.399
ODEC400/409GXX	0.400	0.409
ODEC410/419GXX	0.410	0.419
ODEC420/429GXX	0.420	0.429
ODEC430/439GXX	0.430	0.439
ODEC440/449GXX	0.440	0.449
ODEC450/459GXX	0.450	0.459
ODEC460/469GXX	0.460	0.469
ODEC470/479GXX	0.470	0.479
ODEC480/489GXX	0.480	0.489

CATALOG NUMBER	CABLE DIAMETER RANGE	
	MIN	MAX
ODEC490/499GXX	0.490	0.499
ODEC500/509GXX	0.500	0.509
ODEC510/519GXX	0.510	0.519
ODEC520/529GXX	0.520	0.529
ODEC530/539GXX	0.530	0.539
ODEC540/549GXX	0.540	0.549
ODEC550/559GXX	0.550	0.559
ODEC560/569GXX	0.560	0.569
ODEC570/579GXX	0.570	0.579
ODEC580/589GXX	0.580	0.589
ODEC590/599GXX	0.590	0.599
ODEC600/609GXX	0.600	0.609
ODEC610/619GXX	0.610	0.619
ODEC620/629GXX	0.620	0.629

CATALOG NUMBER	CABLE DIAMETER RANGE	
	MIN	MAX
ODEC630/639GXX	0.630	0.639
ODEC640/649GXX	0.640	0.649
ODEC650/659GXX	0.650	0.659
ODEC660/669GXX	0.660	0.669
ODEC670/679GXX	0.670	0.679
ODEC680/689GXX	0.680	0.689
ODEC690/699GXX	0.690	0.699
ODEC700/709GXX	0.700	0.709
ODEC710/719GXX	0.710	0.719
ODEC720/729GXX	0.720	0.729
ODEC730/739GXX	0.730	0.739
ODEC740/749GXX	0.740	0.749



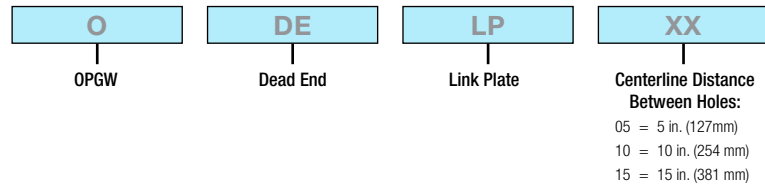
## Dead End Link Plate

The ACA Dead End Link Plate is made from galvanized steel and has an ultimate strength of 40,000 lbs. (18,140 kg).

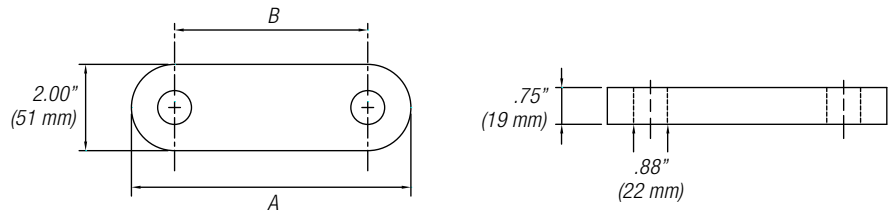
### Ordering Information

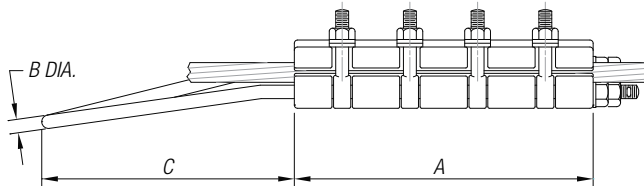
DISTANCE A	DISTANCE B	WEIGHT	PART NO.
7 inches (177mm)	5 inches (127mm)	2.42 lbs. (1.1 kg)	ODELP05
12 inches (304mm)	10 inches (254mm)	4.40 lbs. (2.0 kg)	ODELP10
17 inches (432mm)	15 inches (381mm)	6.16 lbs. (2.8 kg)	ODELP15

**Material:** Galvanized Steel; Ultimate Strength: 40,000 lbs. (18,140 kg)



### Dimensions





OPGW DIAMETER RANGE (IN.)	EYEBOLTS		DIMENSIONS						WEIGHT	
			A		B		C			
	DIA.	NO.	IN.	MM	IN.	MM	IN.	MM	LB.	KG
0 - .820	1/2"	4	11	279	.5	13	8	203	9	4.08
.821-1.000	5/8"	4	12.5	318	.62	16	8	203	16	7.26

For installation instructions, see page 106.

## Comealong for Optical Ground Wire - OCA Series

OPGW Comealongs are stringing tools designed for pulling optical ground wire up to initial sag tensions. If the required tension is greater than the rated tension of a single comealong, two or more comealongs should be used (refer to Installation Instructions). When desired sag tension is reached, the cable should be dead ended promptly and the comealong removed.

Comealongs must receive periodic maintenance. This practice should consist of a thorough cleaning with close inspection for nicked or rough cable grooves, cracked body, bent eye bolts, or damaged bail. The eye bolts should be kept clean and oiled. The cable groove should be kept clean and dry. After each six months use and at the beginning of each job, all comealongs should be subjected to a pull test equal to its rated strength. If any damage is found, the comealong should be disposed of or sent to ACA Conductor Accessories for rework and recertification.

### Features

- Highly engineered product
- Extruded aluminum body for greater strength and tolerance control
- Bails are magnafluxed for quality assurance
- Double lock nuts with cotter pins on the bail
- Peened 1/2" eye bolts prevent loss of nuts and washers
- Angled bail provides clearance between the conductor and the hoist to protect the cable from damage

### Ordering Instructions

Refer to charts on next page for part numbers.

OCA + Cable Diameter Range

**Ordering Example:** For OCA Series Comealong with a .500" to .509" cable diameter the part number is OCA500/509.

*continued on next page →*

**LOAD RATING:** Maximum tension limit is 50% of the rated strength of the OPGW or 5,000 pounds, whichever value is smaller.

**WARNING:** Comealongs are not intended for use as dead ends and are not recommended to hold conductors at sag tension limits for longer than 6 hours.

## Comealong for Optical Ground Wire - OCA Series

PART NO.	CABLE DIAMETER RANGE (INCHES)	
	MIN	MAX
OCA310/319	.310	.319
OCA320/329	.320	.329
OCA330/339	.330	.339
OCA340/349	.340	.349
OCA350/359	.350	.359
OCA360/369	.360	.369
OCA370/379	.370	.379
OCA380/389	.380	.389
OCA390/399	.390	.399
OCA400/409	.400	.409
OCA410/419	.410	.419
OCA420/429	.420	.429
OCA430/439	.430	.439
OCA440/449	.440	.449
OCA450/459	.450	.459
OCA460/469	.460	.469
OCA470/479	.470	.479
OCA480/489	.480	.489
OCA490/499	.490	.499
OCA500/509	.500	.509
OCA510/519	.510	.519
OCA520/529	.520	.529
OCA530/539	.530	.539
OCA540/549	.540	.549
OCA550/559	.550	.559
OCA560/569	.560	.569
OCA570/579	.570	.579
OCA580/589	.580	.589
OCA590/599	.590	.599
OCA600/609	.600	.609
OCA610/619	.610	.619
OCA620/629	.620	.629
OCA630/639	.630	.639
OCA640/649	.640	.649
OCA650/659	.650	.659

PART NO.	CABLE DIAMETER RANGE (INCHES)	
	MIN	MAX
OCA660/669	.660	.669
OCA670/679	.670	.679
OCA680/689	.680	.689
OCA690/699	.690	.699
OCA700/709	.700	.709
OCA710/719	.710	.719
OCA720/729	.720	.729
OCA730/739	.730	.739
OCA740/749	.740	.749
OCA750/759	.750	.759
OCA760/769	.760	.769
OCA770/779	.770	.779
OCA780/789	.780	.789
OCA790/799	.790	.799
OCA800/809	.800	.809
OCA810/819	.810	.819
OCA820/829	.820	.829
OCA830/839	.830	.839
OCA840/849	.840	.849
OCA850/859	.850	.859
OCA860/869	.860	.869
OCA870/879	.870	.879
OCA880/889	.880	.889
OCA890/899	.890	.899
OCA900/909	.900	.909
OCA910/919	.910	.919
OCA920/929	.920	.929
OCA930/939	.930	.939
OCA940/949	.940	.949
OCA950/959	.950	.959
OCA960/969	.960	.969
OCA970/979	.970	.979
OCA980/989	.980	.989
OCA990/999	.990	.999

**LOAD RATING:** Maximum tension limit is 50% of the rated strength of the OPGW or 5,000 pounds, whichever value is smaller.

**WARNING:** Comealongs are not intended for use as dead ends and are not recommended to hold conductors at sag tension limits for longer than 6 hours.



## HIBUS™ Series OPGW Suspension

The Hinged Bushing Suspension is designed to reduce the static and dynamic stress at the attachment point on all types of OPGW fiber cables without the use of protective rods. Eliminating the need for the rods was achieved by the use of a unique bushing system that allows the OPGW cable to better withstand the effects of aeolian vibration. Test results have proven its ability to provide superior protection for your fiber system. The hinged concept on the suspension configuration provides self alignment of the housing halves. All of the hardware is captive except for attachment pin.

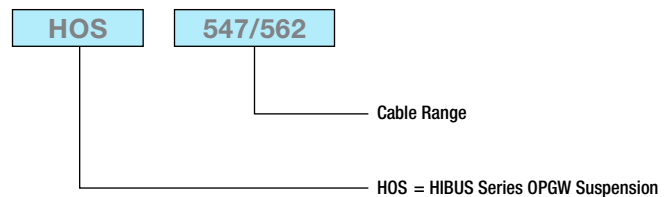
Test reports available include vibration test, slip test, ultimate strength and angle test.

Clamp rated slip load at 20% of RBS for cables with less than 25,000 lbs breaking load. Contact ACA for slip rating on cables greater than 25,000 lbs RBS.

### Features

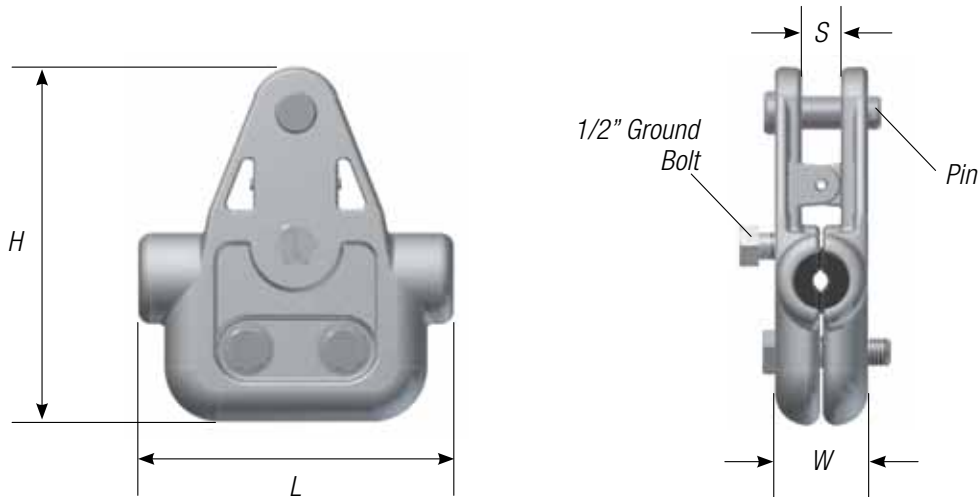
- Self-aligning housing halves
- Stress relief bushing system
- Aluminum clamp body with captive stainless steel mounting bolts
- Galvanized steel mounting pin with cotter pin
- Line angles up to 20° for single unit, up to 40° for two units using an 18" yoke plate.

### Ordering Information



**ORDERING EXAMPLE:** For a HIBUS Series OPGW Suspension with a .547"-.562" cable range, the part number is HOS547/562.

## HIBUS™ Series OPGW Suspension



ACA PART NO.	RANGE (IN)		RANGE (MM)		LENGTH (L)	HEIGHT (H)	WIDTH (W)	CLEVIS WIDTH (S)	WEIGHT (LBS)	VERT. LOAD RATING (LBS)	PIN SIZE
	MIN	MAX	MIN	MAX							
HOS335/345	0.335	0.345	8.51	8.76	6.1"	6.8"	1.75"	.75"	3.4	20,000	.625" x 2.00"
HOS346/360	0.346	0.360	8.77	9.14							
HOS361/375	0.361	0.375	9.15	9.53							
HOS376/390	0.376	0.390	9.54	9.91							
HOS391/406	0.391	0.406	9.92	10.31							
HOS407/418	0.407	0.418	10.32	10.62							
HOS419/434	0.419	0.434	10.63	11.02							
HOS435/448	0.435	0.448	11.03	11.38							
HOS449/465	0.449	0.465	11.39	11.81							
HOS466/480	0.466	0.480	11.82	12.19							
HOS481/500	0.481	0.500	12.20	12.70							
HOS501/516	0.501	0.516	12.71	13.11							
HOS517/531	0.517	0.531	13.12	13.49							
HOS532/546	0.532	0.546	13.50	13.87							
HOS547/562	0.547	0.562	13.88	14.27							
HOS563/577	0.563	0.577	14.28	14.66							
HOS578/584	0.578	0.584	14.67	14.83							
HOS585/599	0.585	0.599	14.84	15.21							
HOS600/614	0.600	0.614	15.22	15.60							
HOS615/629	0.615	0.629	15.61	15.98							
HOS630/644	0.630	0.644	15.99	16.36							
HOS645/659	0.645	0.659	16.37	16.74							
HOS660/666	0.660	0.666	16.75	16.92							
HOS667/681	0.667	0.681	16.93	17.30							
HOS682/696	0.682	0.696	17.31	17.68							
HOS697/711	0.697	0.711	17.69	18.06							
HOS712/726	0.712	0.726	18.07	18.44							
HOS727/741	0.727	0.741	18.45	18.82							
HOS742/750	0.742	0.750	18.83	19.05							



## HIBUS™ Series OPGW Trunnion

The HIBUS Trunnion is designed to reduce the static and dynamic stress at the attachment point on all types of OPGW fiber cables without the use of protective rods. Eliminating the need for the rods was achieved by the use of a unique bushing system that allows the OPGW cable to better withstand the effects of aeolian vibration. Test results have proven its ability to provide superior protection for your fiber system. All of the hardware is captive except for attachment pin.

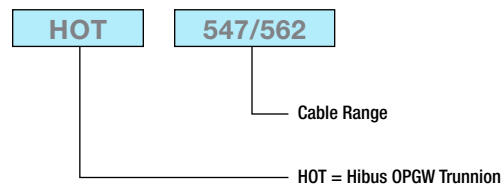
Test reports available include vibration test, slip test, ultimate strength, and angle test.

Clamp rated slip load at 20% of RBS for cables with less than 25,000 lbs breaking load. Contact ACA for slip rating on cables greater than 25,000 lbs RBS.

### Features

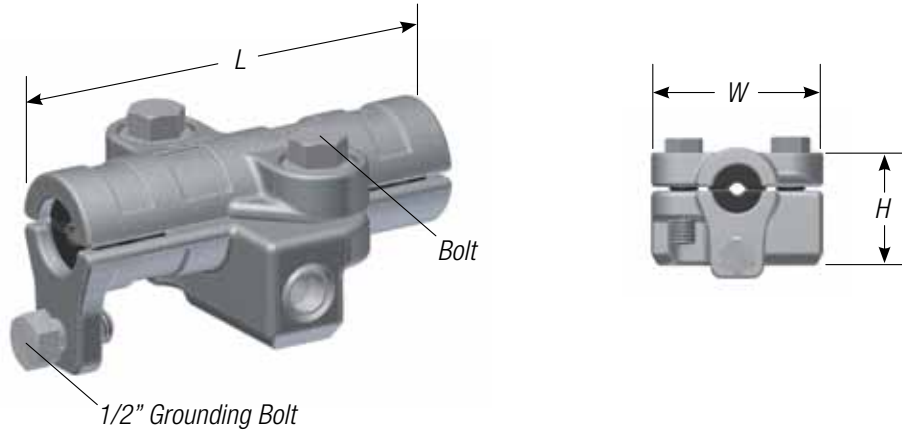
- Self-aligning housing halves
- Stress relief bushing system
- Aluminum clamp body with stainless steel captive securing bolts
- Line angles up to 20°

### Ordering Information

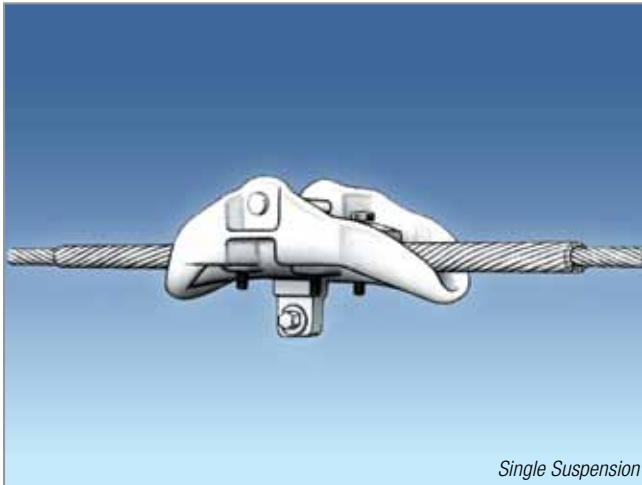


**ORDERING EXAMPLE:** For a HIBUS Series OPGW Trunnion with a .547”-.562” cable range, the part number is HOT547/562.

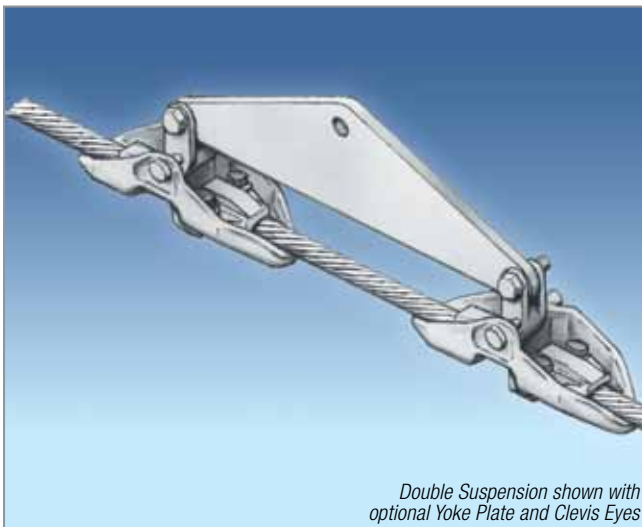
## HIBUS™ Series OPGW Trunnion



ACA PART NO.	RANGE (IN)		RANGE (MM)		LENGTH (L)	HEIGHT (H)	WIDTH (W)	WEIGHT (LBS)	VERT. LOAD RATING (LBS)
	MIN	MAX	MIN	MAX					
HOT335/345	0.335	0.345	8.51	8.76	6.1"	2.5"	3.8"	2.3	20,000
HOT346/360	0.346	0.360	8.77	9.14					
HOT361/375	0.361	0.375	9.15	9.53					
HOT376/390	0.376	0.390	9.54	9.91					
HOT391/406	0.391	0.406	9.92	10.31					
HOT407/418	0.407	0.418	10.32	10.62					
HOT419/434	0.419	0.434	10.63	11.02					
HOT435/448	0.435	0.448	11.03	11.38					
HOT449/465	0.449	0.465	11.39	11.81					
HOT466/480	0.466	0.480	11.82	12.19					
HOT481/500	0.481	0.500	12.20	12.70					
HOT501/516	0.501	0.516	12.71	13.11					
HOT517/531	0.517	0.531	13.12	13.49					
HOT532/546	0.532	0.546	13.50	13.87					
HOT547/562	0.547	0.562	13.88	14.27					
HOT563/577	0.563	0.577	14.28	14.66					
HOT578/584	0.578	0.584	14.67	14.83					
HOT585/599	0.585	0.599	14.84	15.21					
HOT600/614	0.600	0.614	15.22	15.60					
HOT615/629	0.615	0.629	15.61	15.98					
HOT630/644	0.630	0.644	15.99	16.36					
HOT645/659	0.645	0.659	16.37	16.74					
HOT660/666	0.660	0.666	16.75	16.92					
HOT667/681	0.667	0.681	16.93	17.30					
HOT682/696	0.682	0.696	17.31	17.68					
HOT697/711	0.697	0.711	17.69	18.06					
HOT712/726	0.712	0.726	18.07	18.44					
HOT727/741	0.727	0.741	18.45	18.82					
HOT742/750	0.742	0.750	18.83	19.05					



*Single Suspension*



*Double Suspension shown with optional Yoke Plate and Clevis Eyes*

## Mechanical Suspensions - Single and Double

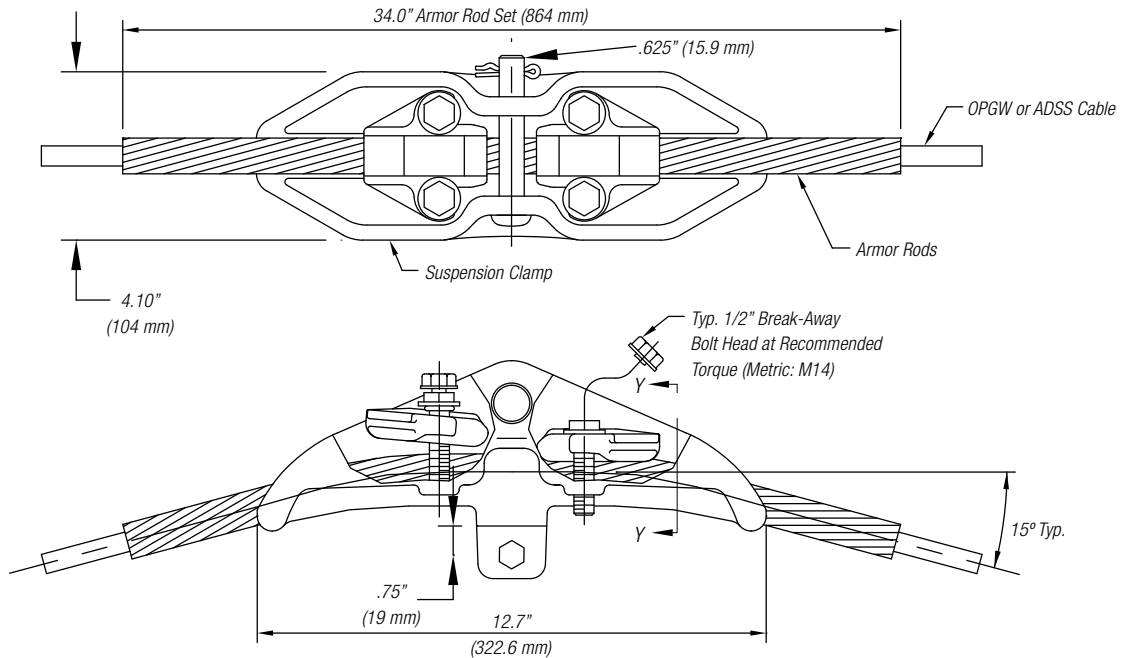
Supporting spans of Optical Ground Wire cable through a wide range of line angle changes, the unique design of the lightweight AFL Mechanical Suspension installs easily while supporting vertical, transverse, longitudinal unbalanced loads and angle pulls without damaging the cable strands or affecting optical fiber performance. Breakaway bolts ensure proper installation torque while eliminating the need for specialized torque wrenches. The assemblies are designed for fast installation to minimize costs.

### Features

- Slip strengths: Single Suspension > 1,500 lbs.  
Double Suspension > 3,000 lbs.  
(depending on cable design)
- Vertical load rating: Single Suspension = 25,000 lbs.  
Double Suspension = 50,000 lbs.
- Compact design: Single Suspension = 34" in length  
Double Suspension = 48" in length
- Meets IEEE 1138 Vibration and Galloping tests
- Ideal for helicopter installation
- Unique keeper design allows installation without removing bolts (fewer loose parts)
- Grounding lug included, eliminating additional accessories for electrical bonding
- Shorter than formed wire suspensions, allowing installation from the support structure
- Standard assembly includes suspension unit and rods

## Mechanical Suspensions - Single and Double

### Single Mechanical Suspension for OPGW



### Ordering Information - Single

Assembly includes suspension and rods. For line or elevation angle changes up to 30°.

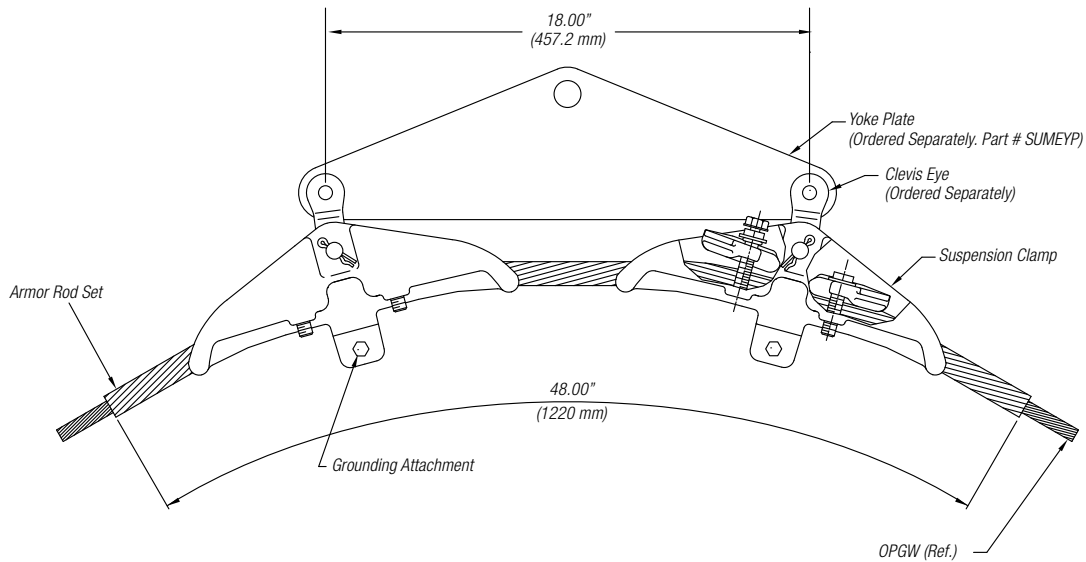
OPGW DIAMETER		EST. WEIGHT		PART NO.
INCHES	MILLIMETERS	LBS.	KG	
0.350 - 0.389	8.89 - 9.88	5.7	2.6	SUME350/389
0.390 - 0.420	9.91 - 10.67	5.7	2.6	SUME390/420
0.421 - 0.449	10.69 - 11.40	5.8	2.6	SUME421/449
0.450 - 0.475	11.43 - 12.07	5.8	2.6	SUME450/475
0.476 - 0.499	12.09 - 12.67	5.8	2.6	SUME476/499
0.500 - 0.527	12.70 - 13.39	5.8	2.6	SUME500/527
0.528 - 0.555	13.41 - 14.10	5.8	2.6	SUME528/555
0.556 - 0.584	14.12 - 14.83	6.3	2.9	SUME556/584
0.585 - 0.614	14.86 - 15.60	6.3	2.9	SUME585/614
0.615 - 0.646	15.62 - 16.41	6.3	2.9	SUME615/646
0.647 - 0.679	16.43 - 17.25	6.3	2.9	SUME647/679
0.680 - 0.714	17.27 - 18.14	6.3	2.9	SUME680/714
0.715 - 0.770	18.16 - 18.54	6.3	2.9	SUME715/770

**Ordering Example:** For .512" diameter cable, the part number is SUME500/527.

- NOTES:**
1. For metric hardware, add suffix "M" to part number.
  2. Contact ACA for OPGW cable over 0.770 inch diameter.
  3. For installation instructions, see page 101.

## Mechanical Suspensions - Single and Double

### Double Suspension for OPGW



### Ordering Information - Double

Standard unit includes suspensions and rods. For line or elevation angle changes from 31° to 60°.

OPGW DIAMETER		EST. WEIGHT		PART NO.
INCHES	MILLIMETERS	LBS.	KG	
0.350 - 0.389	8.89 - 9.88	5.7	2.6	ODSME350/389
0.390 - 0.420	9.91 - 10.67	5.7	2.6	ODSME390/420
0.421 - 0.449	10.69 - 11.40	5.8	2.6	ODSME421/449
0.450 - 0.475	11.43 - 12.07	5.8	2.6	ODSME450/475
0.476 - 0.499	12.09 - 12.67	5.8	2.6	ODSME476/499
0.500 - 0.527	12.70 - 13.39	5.8	2.6	ODSME500/527
0.528 - 0.555	13.41 - 14.10	5.8	2.6	ODSME528/555
0.556 - 0.584	14.12 - 14.83	6.3	2.9	ODSME556/584
0.585 - 0.614	14.86 - 15.60	6.3	2.9	ODSME585/614
0.615 - 0.646	15.62 - 16.41	6.3	2.9	ODSME615/646
0.647 - 0.679	16.43 - 17.25	6.3	2.9	ODSME647/679
0.680 - 0.714	17.27 - 18.14	6.3	2.9	ODSME680/714
0.715 - 0.770	18.16 - 18.54	6.3	2.9	ODSME715/770

**Ordering Example:** For .512" diameter cable, the part number is ODSME500/527.

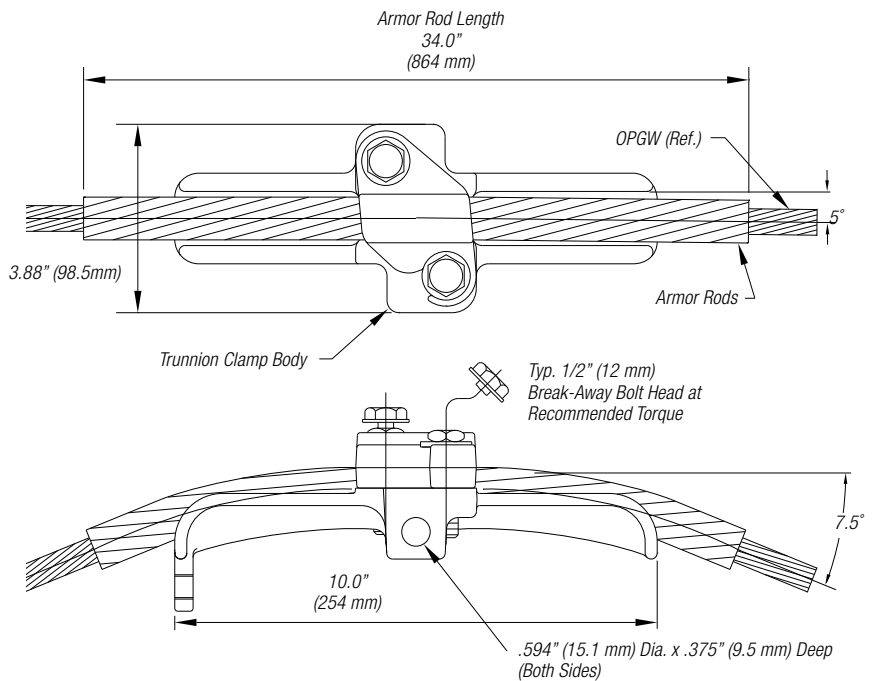
- NOTES:**
1. For metric hardware, add suffix "M" to part number.
  2. For optional yoke plate (as shown), order separately as D8537-1.
  3. Clevis eyes sold separately.
  4. Contact ACA for OPGW cable over 0.770 inch diameter.
  5. For installation instructions, see page 102.

## Trunnion for OPGW

The trunnion support clamp is used to secure the OPGW clamp to a trunnion type clamp with standard trunnion supports. Either mounted to the tower or at the end of an insulator, the clamp provides enough clamping force to maintain the designed slip load without causing any cable attenuation. For more information, contact the factory regarding the slip load capabilities of this clamp

### Features

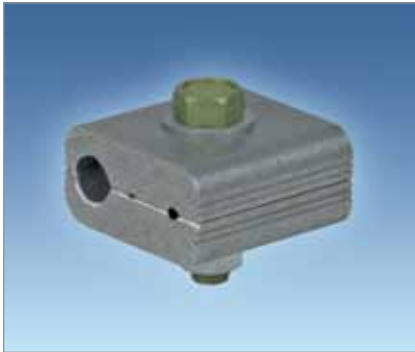
- Keeper is designed for easy installation without removal of keeper bolts. Break-away head bolts assure proper installation torque.
- Clamp assembly includes Armor Rod set.
- Weight: 3.5 lbs. (1.6 kg)



### Ordering Information

PART NO.	OPGW CABLE DIAMETER RANGE	
	INCHES	MILLIMETERS
OTR421/449	.421 - .449	10.69 - 11.40
OTR450/475	.450 - .475	11.43 - 12.07
OTR476/499	.476 - .499	12.09 - 12.67
OTR500/527	.500 - .527	12.70 - 13.39
OTR528/555	.528 - .555	13.41 - 14.10
OTR556/584	.556 - .584	14.12 - 14.83
OTR585/614	.585 - .614	14.86 - 15.60
OTR615/646	.615 - .646	15.62 - 16.41
OTR647/679	.647 - .679	16.43 - 17.25
OTR680/714	.680 - .714	17.27 - 18.14
OTR715/730	.715 - .730	18.16 - 18.54

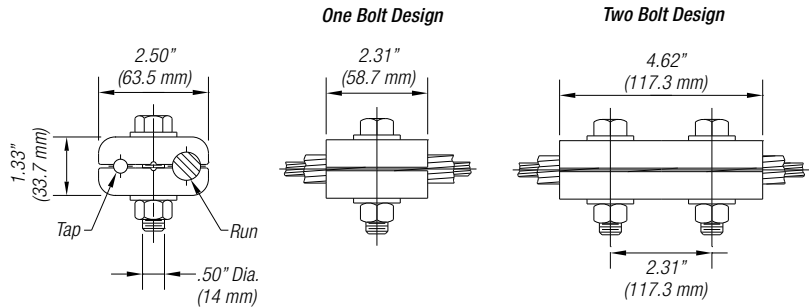
**NOTE:** For installation instructions, see page 104.



## Bonding Clamps for OPGW

The Bonding Clamp is used to ground OPGW to the tower or tower grounding wire. Specific requirements vary from one utility to another. The product is an aluminum extruded parallel groove clamp. The clamp is available with one or two bolts, depending on the application requirements.

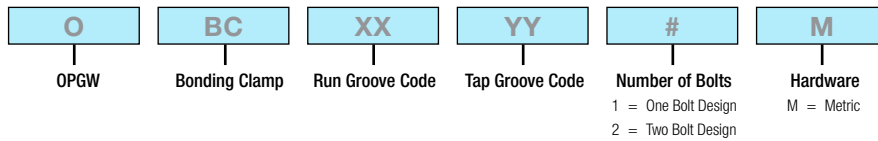
### Specifications



### Features

- Hardware is high strength aluminum
- Clamp grooves are coated with NO-OX-ID and prefilled with Alnox.
- Recommended bolt torque: 25 ft.-lbs.

### Ordering Information



GROOVE CODE	GROOVE RANGE (inches)
A1	.112" - .126"
B1	.127" - .141"
C1	.142" - .156"
D1	.157" - .171"
E1	.172" - .186"
F1	.187" - .201"
G1	.202" - .216"
H1	.217" - .231"
J1	.232" - .246"
K1	.247" - .261"
L1	.262" - .276"
M1	.277" - .291"
N1	.292" - .306"
P1	.307" - .321"
Q1	.322" - .336"
R1	.337" - .351"
S1	.352" - .366"

GROOVE CODE	GROOVE RANGE (inches)
T1	.367" - .381"
U1	.382" - .396"
V1	.397" - .411"
W1	.412" - .424"
X1	.425" - .440"
Y1	.441" - .454"
Z1	.455" - .464"
A2	.465" - .480"
B2	.481" - .495"
C2	.496" - .510"
D2	.511" - .525"
E2	.526" - .540"
F2	.541" - .555"
G2	.556" - .570"
H2	.571" - .585"
J2	.586" - .600"
K2	.601" - .615"

GROOVE CODE	GROOVE RANGE (inches)
L2	.616" - .630"
M2	.631" - .645"
N2	.646" - .660"
P2	.661" - .675"
Q2	.676" - .690"
R2	.691" - .705"
S2	.706" - .720"
T2	.721" - .735"
U2	.736" - .750"
V2	.751" - .765"
W2	.766" - .780"
X2	.781" - .795"
Y2	.796" - .810"
Z2	.811" - .825"
A3	.826" - .840"
B3	.841" - .855"

**NOTE:** For installation instructions, see page 106.



## Aluminum Bonding Wire

The Bonding Wire is used in conjunction with our HIBUS and SUME suspension clamps to provide a path to ground from the OPGW cable to the tower. Bonding Wires are available in multiple length and lug size attachment options.

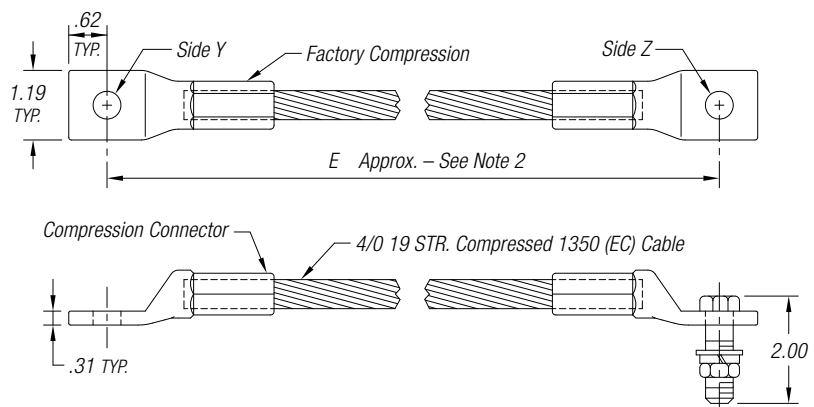
### Ordering Information

<b>BWAL</b>	<b>YY</b>	<b>H</b>	/	<b>ZZ</b>	<b>H</b>	<b>LL</b>
Aluminum Bonding Wire	Terminal Selection Code – Side Y – (Smaller End)	Hardware H = Hardware Blank = No hardware †		Terminal Selection Code – Side Z – (Larger End)	Hardware H = Hardware Blank = No hardware †	Length in Inches (See Chart) *

DIMENSION "E" (length in inches)*
24
36
40
60
68

TERMINAL		
SELECTION CODE	HARDWARE SIZE	MOUNT HOLE DIAMETER
38	3/8"†	.438
50	1/2"	.531
62	5/8"	.688
75	3/4"†	.812

- NOTES:** 1. Connectors to be pre-compressed onto cable at factory.  
 2. If assembly does not contain two hole diameter codes, one terminal is supplied, and dimension "E" references wire end.  
 3. (\*) For additional lengths not found in chart, contact ACA.  
 4. (†) Hardware available for 1/2" and 5/8" only.

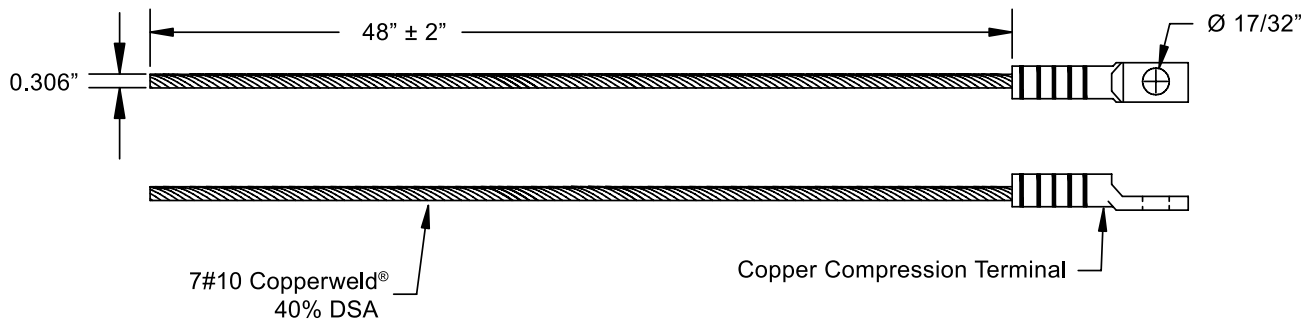


## Copperweld® Bonding Wire

The Copperweld® Bonding Wire is used in conjunction with the ACA Conductor Accessories' HIBUS, SUME suspension clamps and bolted dead ends to provide a path to ground from the OPGW cable to the tower.

### Ordering Information

<b>BWCU</b>	<b>50</b>	-	<b>48</b>
Copperweld® Bonding Wire	Terminal Selection Code For use with 1/2" bolt		Length 48" long





Guide Clamp Shown with Adaptor

## Guide Clamps for OPGW

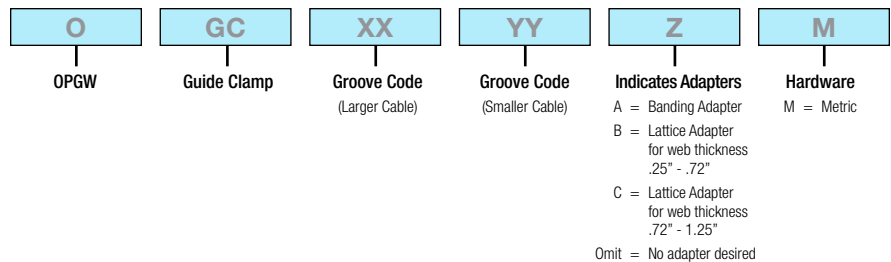
The Guide Clamp is used to guide OPGW cable down steel towers, steel poles, concrete poles and wood poles to splice locations. The Guide Clamps may be bolted to the tower or poles. Additionally, adapters are available for the steel towers and steel & concrete poles.

Guide Clamps are typically two groove clamps spaced five to eight feet apart to help maintain alignment of and support the OPGW down the towers or poles.

### Features

- Hardware is high strength aluminum
- Clamp grooves are coated with NO-OX-ID and prefilled with Alnox.
- Recommended bolt torque: 25 ft.-lbs.

### Ordering Information



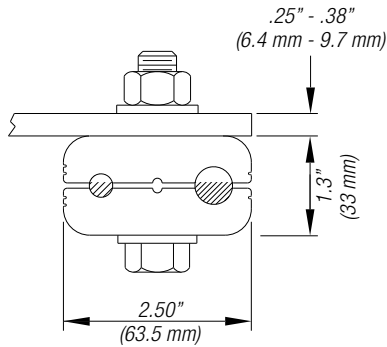
GROOVE CODE	GROOVE RANGE (inches)
A1	.112" - .126"
B1	.127" - .141"
C1	.142" - .156"
D1	.157" - .171"
E1	.172" - .186"
F1	.187" - .201"
G1	.202" - .216"
H1	.217" - .231"
J1	.232" - .246"
K1	.247" - .261"
L1	.262" - .276"
M1	.277" - .291"
N1	.292" - .306"
P1	.307" - .321"
Q1	.322" - .336"
R1	.337" - .351"
S1	.352" - .366"

GROOVE CODE	GROOVE RANGE (inches)
T1	.367" - .381"
U1	.382" - .396"
V1	.397" - .411"
W1	.412" - .424"
X1	.425" - .440"
Y1	.441" - .454"
Z1	.455" - .464"
A2	.465" - .480"
B2	.481" - .495"
C2	.496" - .510"
D2	.511" - .525"
E2	.526" - .540"
F2	.541" - .555"
G2	.556" - .570"
H2	.571" - .585"
J2	.586" - .600"
K2	.601" - .615"

GROOVE CODE	GROOVE RANGE (inches)
L2	.616" - .630"
M2	.631" - .645"
N2	.646" - .660"
P2	.661" - .675"
Q2	.676" - .690"
R2	.691" - .705"
S2	.706" - .720"
T2	.721" - .735"
U2	.736" - .750"
V2	.751" - .765"
W2	.766" - .780"
X2	.781" - .795"
Y2	.796" - .810"
Z2	.811" - .825"
A3	.826" - .840"
B3	.841" - .855"

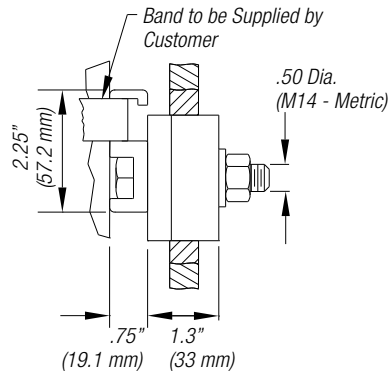
## Guide Clamps for OPGW

### Guide Clamps and Optional Guide Clamp Adapters



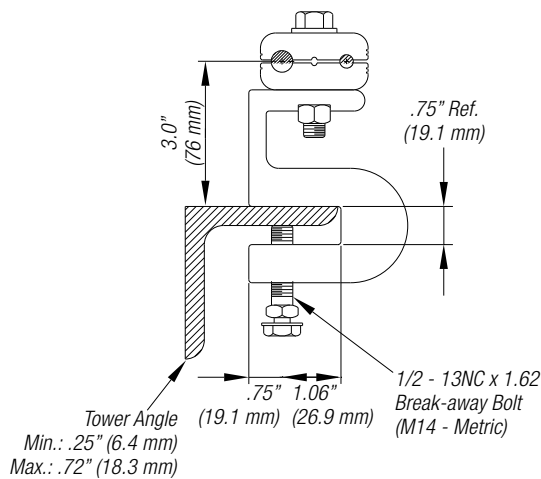
**OGXXYY**

No Adapter



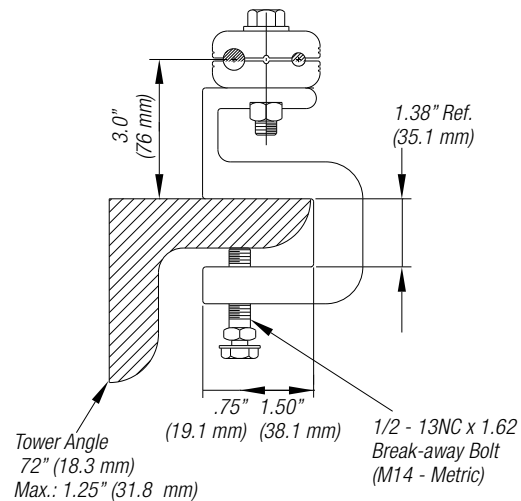
**OGXXYYA**

Type A Adapter (Banding)  
Est. Wt.: .96 lbs. (.44 kg)



**OGXXYYB**

Type B Adapter (Lattice)  
Est. Wt.: 1.98 lbs. (.90 kg)



**OGXXYYC**

Type C Adapter (Lattice)  
Est. Wt.: 2.20 lbs. (1.00 kg)



Download Clamp shown with Adapter B

## Download Clamps for OPGW and ADSS

AFL Download Clamps are used to guide Optical Ground Wire from the top of the structure to the splice box. AFL's Download Clamps install easily and provide proper spacing and hold strength without damage to the cable. From poles to towers, AFL offers a full line of OPGW Download Clamps to meet the needs of any application.

### Features

- Slip strength: >100 lbs.
- Lattice adapters provided with break-away bolts for precise torque during installation
- Steel tower guide clamps available with adapters to eliminate the need for drilling
- Banding adapters available

### Ordering Information – Download Clamp & Adapter

GROOVE CODE	OPGW DIAMETER (inches)	COLOR CODE
B4	0.350 - 0.500	Red
B5	0.501 - 0.600	Green
B6	0.601 - 0.700	Yellow
B7	0.701 - 0.800	Blue
B8	0.801 - 0.900	White
B9	0.901 - 1.000	Black
B10	1.001 - 1.100	Orange

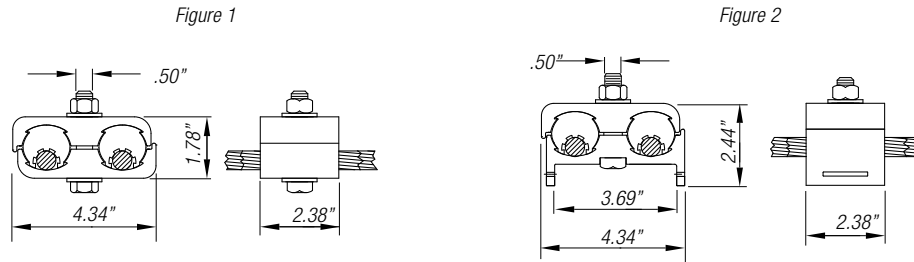
FD	OA	XX	YY	Z	M
Fiber Download	OPGW and ADSS	Groove Code (Larger Cable)	Groove Code (Smaller Cable)	Indicates Adapters A = Banding Adapter B = Lattice Adapter for web thickness .25" - .72" C = Lattice Adapter for web thickness .72" - 1.25" D = 3/8" diameter x 3" lag bolt Omit = No adapter desired	Hardware M = Metric

**Ordering Example:** For .528" dia. OPGW and .484 ADSS with pole banding (Type A), the part number is FDOA-B4B5A.

- NOTES:**
1. If metric hardware is desired, add a "M" suffix to the end.
  2. See next page for optional download clamp adapters.
  3. For installation instructions, see page 106.

## Downlead Clamps for OPGW

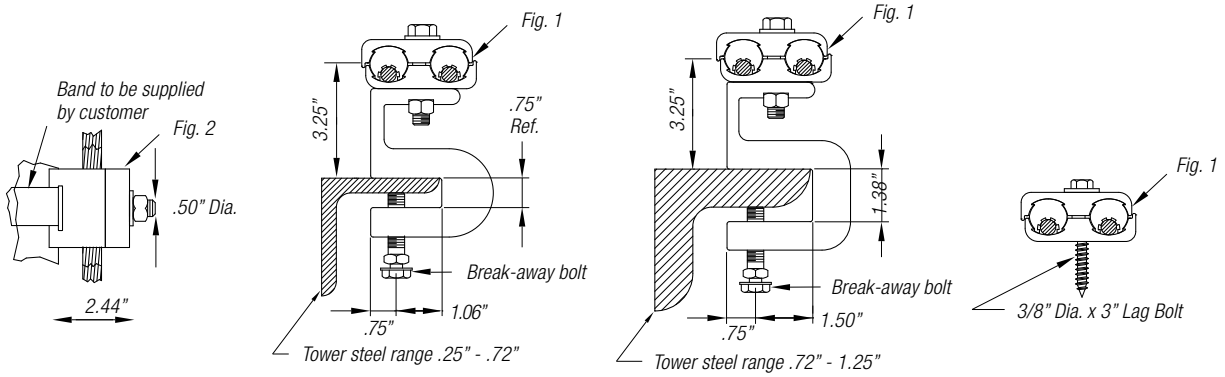
### Dimensions



**FDOA XXYY**

No Adapter

### Downlead Clamp Adapters



**FDOA XXYYA**

Type A Adapter (Banding)  
Est. Weight: .96 lbs.  
See Figure 2 above

**FDOA XXYYB**

Type B Adapter (Lattice)  
Est. Weight: 1.98 lbs.  
See Figure 1 above

**FDOA XXYYC**

Type C Adapter (Lattice)  
Est. Weight: 2.20 lbs.  
See Figure 1 above

**FDOA XXYYD**

Type D Adapter (Lattice)  
Est. Weight: .96 lbs.  
See Figure 1 above

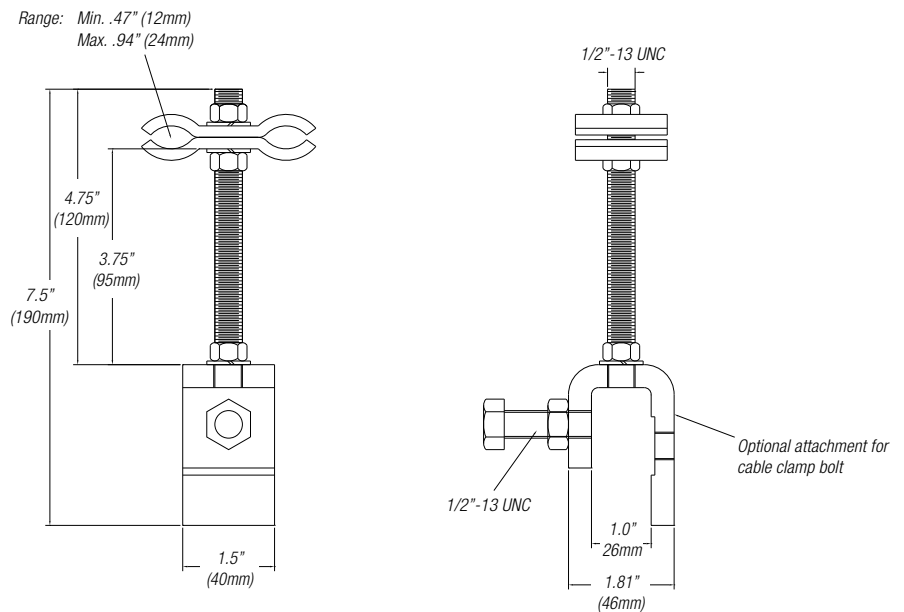


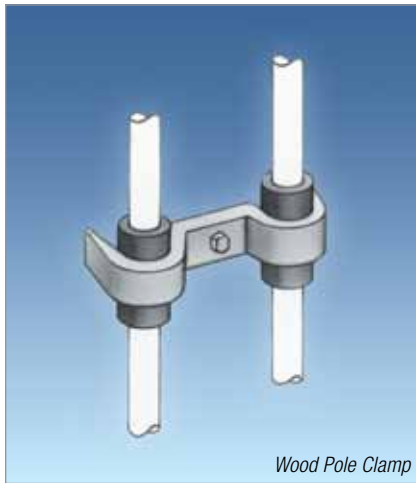
## Download Clamps for OPGW

Download clamps are used to secure the OPGW fiber optic cable as it is trained down the pole or tower. ACA's download clamp incorporates a unique design feature that allows the clamp to cover a broad cable range. This feature reduces the customer's stocking requirements when dealing with numerous cable diameters. The clamp has four attachment options that provides the versatility needed when dealing with a variety of wood or steel poles and lattice towers. Normal spacing for download clamps is six to eight feet.

### Ordering Information

PART NO.	CABLE DIAMETER RANGE	
	inches (mm)	
	MIN	MAX
ODL472/945	.472 (12)	.945 (24)





## Wood Pole Clamps for OPGW

Guide clamps are typically two groove clamps used to guide the cable to splice locations. Clamps are spaced 5 to 8 feet apart to help maintain alignment of the cable down the towers or poles. Not applicable to OGW series.

### Ordering Information – Wood Pole Clamp

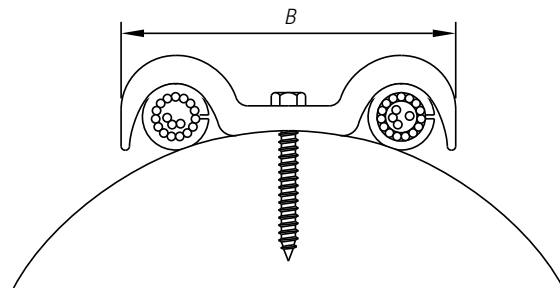
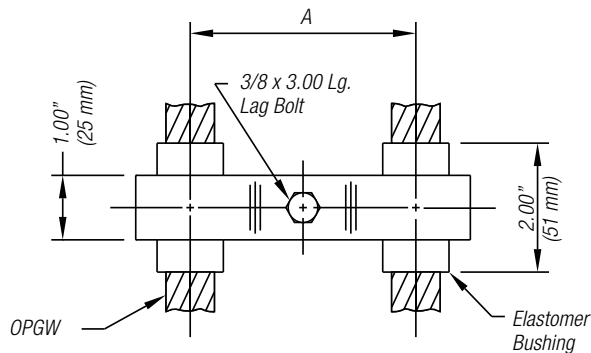
(Note: not available with metric hardware; 3/8" x 3" lag bolt included )

OPGW DIAMETER - IN. (MM)	DIMENSIONS - IN. (MM)		WEIGHT - LBS. (KG)	PART NO.
	A	B		
0.469 - 0.561 (11.9 - 14.2)	2.81 (71)	4.25 (108)	.33 (.15)	OGW469/561
0.562 - 0.655 (14.3 - 16.6)	3.50 (89)	5.19 (132)	.46 (.21)	OGW562/655
0.656 - 0.750 (16.7 - 19.1)	3.50 (89)	5.19 (132)	.46 (.21)	OGW656/750

**Ordering Example:** For AC-64/528 AlumaCore OPGW the part number is OGW469/561

### Features

- Slip strength: >100 lbs.





## Vibration Damper

Vibration Dampers work to cancel damaging fatigue caused by wind-induced vibration. Most tuned damping devices operate best near their natural frequencies. AFL vibration dampers are designed for efficient transfer and dissipation of energy over a wide spectrum of frequencies. They feature all aluminum clamp construction to match expansion/contraction of conductor and break-away bolts for easy installation and proper torque.

### Ordering Information

OPGW CABLE DIAMETER (inches)	PART NO.
0.360 - 0.460	OVD360/460
0.461 - 0.570	OVD461/570
0.571 - 0.675	OVD571/675
0.676 - 0.770	OVD676/770
0.771 - 0.870	OVD771/870
0.871 - 0.970	OVD871/970

**Ordering Example:** For AC-64/528 AlumaCore OPGW the part number is OVD461/570

- NOTES:**
1. For metric hardware, add suffix "M" to item number.
  2. Line evaluations and recommendations (including usage and placement) available upon request.
  3. Installation instructions on page 105.
  4. Vibration recommendation form on page 108.

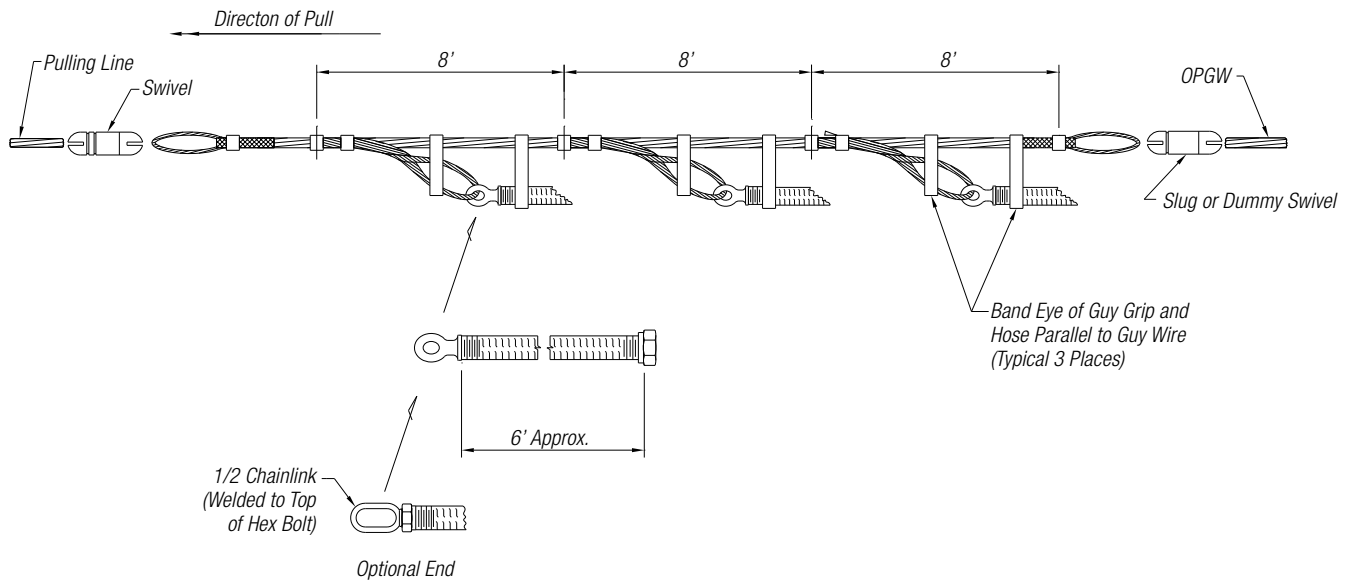
## Anti Rotational Device

The Anti-Rotational Device provides a means of stringing fiber optic cable without introducing torsion stress. This unique concept prevents the cable from twisting as it travels over the pulling blocks. Left uncontrolled, the optical cable's delicate fibers could be permanently damaged during installation.

### Ordering Information:

**PART NO.**

C8782-C





## 26 kV Isolator Kit for OPGW

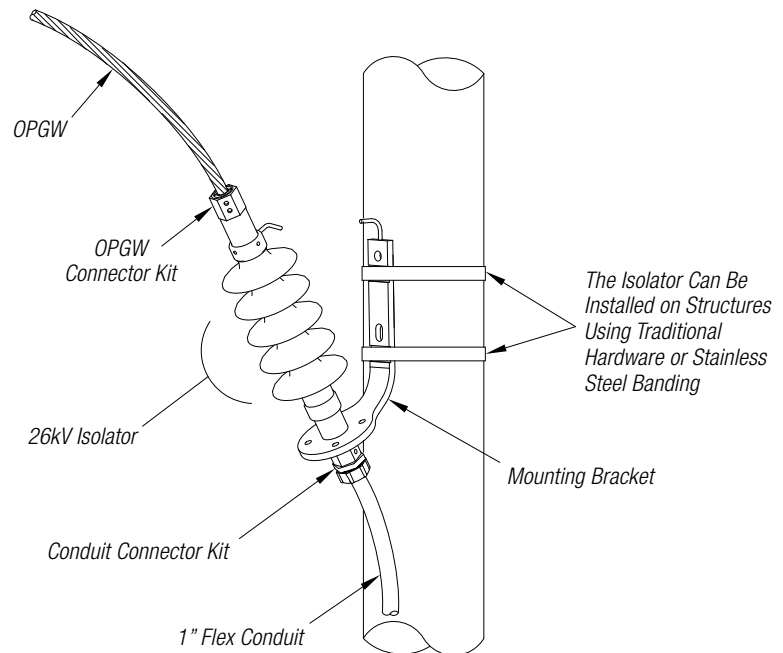
The 26 kV Isolator Kit is designed for aerial optical cable system applications in which complete electrical discontinuity is required. The isolator kit provides reliable interruption of electrical current, at voltages up to 26 k and is a critical component of optical conductor and neutral systems, as well as optical ground-wire systems in which sectionalization of transient currents is required. The isolator can be installed on structures using traditional hardware or stainless steel banding.

### Kit Includes

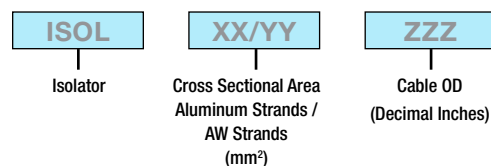
- OPGW Connector Kit
- 26kV Isolator
- Conduit Connector Kit
- Mounting Bracket

### Specifications

PARAMETER	VALUE
Max. Voltage	26 kV
Weight	5 lbs. (approx.)



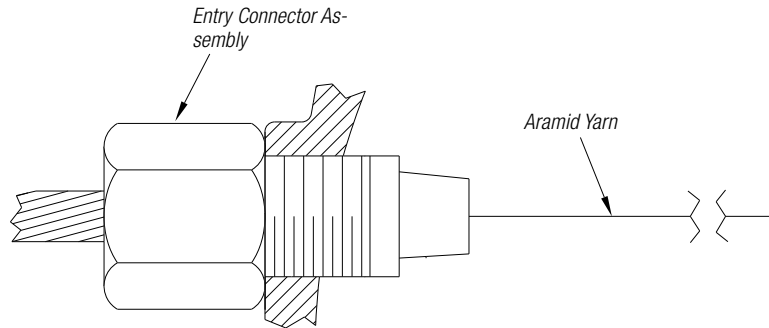
### Ordering Information



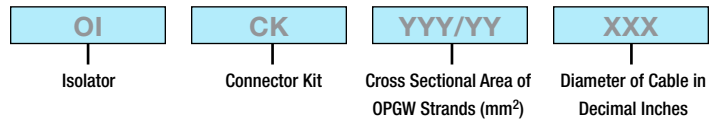
**Ordering Example:** ISOL 47/53/680



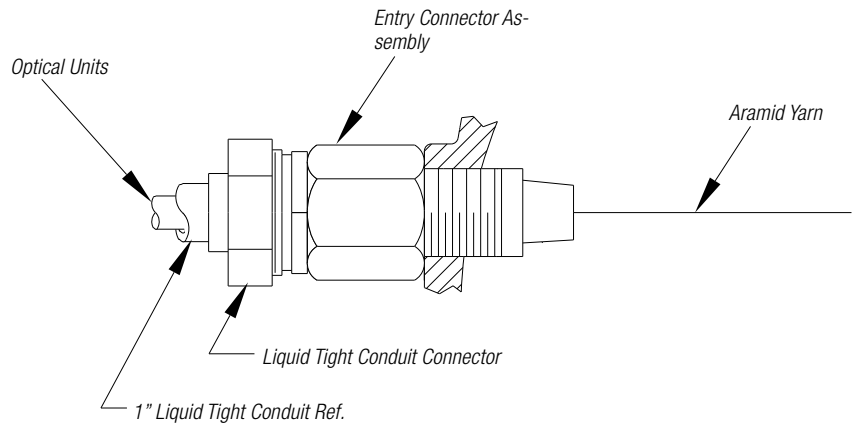
### Connector Kit for Isolator



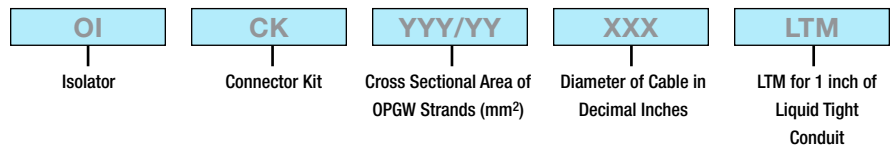
#### Ordering Information



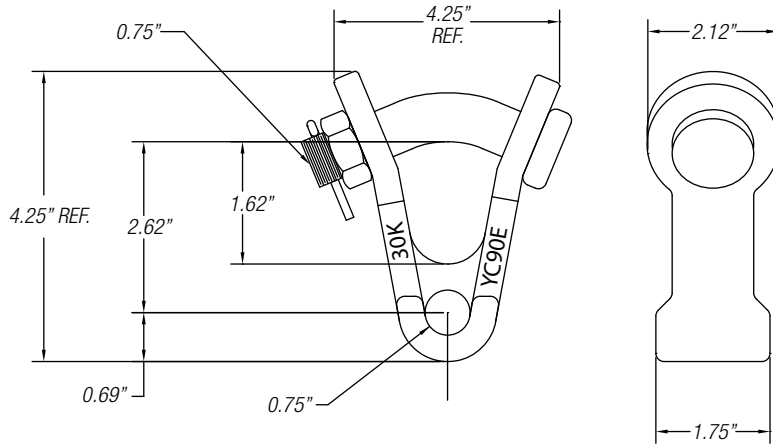
### Connector Kit for Isolator with Liquid Tight Conduit



#### Ordering Information



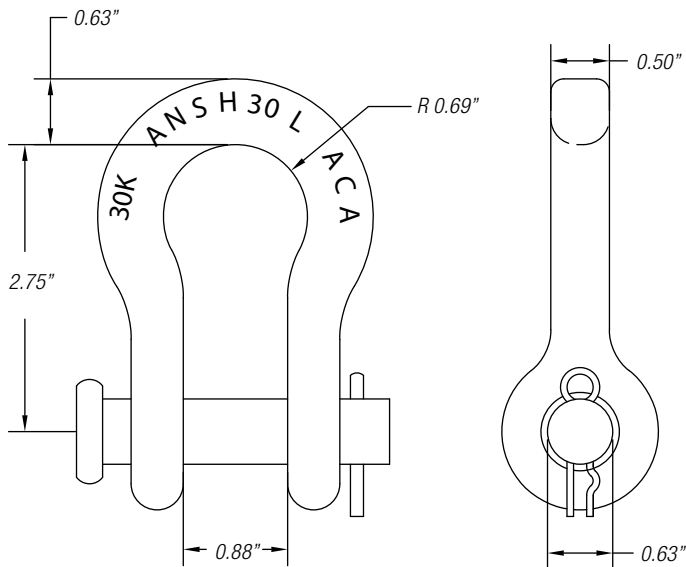
## Y Clevis Eye 90°



### Ordering Information

PART NO.	ULTIMATE STRENGTH (LBS.)	APPROX. WEIGHT EACH (LBS.)
YC90E-750-1750	30,000	2.4

## Anchor Shackle



### Ordering Information

PART NO.
ANSH30L

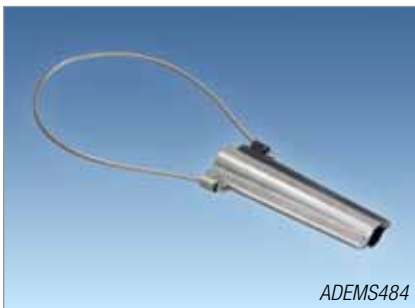


## Stainless Steel Tube Straightening Tool

The Stainless Steel Tube Straightening Tool is used to straighten the stainless steel buffer tubes on stranded stainless steel tube OPGW cables.

### Ordering Information:

<b>PART NO.</b>
SSTS



## Mini-Dead Ends

The Mini-Dead Ends are designed for fast and easy installation of your ADSS Mini-Span® cable. The Mini-Dead End is ideal in crowded distribution environments where its shorter length allows for efficient installation. This unique low-cost product is used in typical spans with 1%-2% installation sag.

### Features

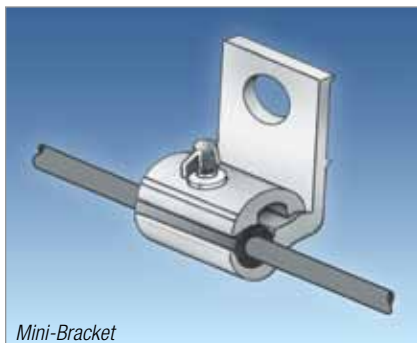
- Easy and quick installation
- No special tools or hardware required for installation
- Small, requiring less storage space

### Ordering Information

APPLICATION & DESCRIPTION	PART NO.
<b>Aerial Drop 256</b> 150 ft NESC heavy, 275 ft NESC medium, 550 ft NESC light	ADESDFW2-256
<b>Aerial Drop 307</b> 220 ft NESC heavy, 400 ft NESC medium, 675 ft NESC light	ADESDFW2-307
<b>ADSS Mini-Span 323</b> 175 ft NESC heavy, 300 ft NESC medium, 500 ft NESC light	ADELD2E-323T
<b>ADSS Mini-Span 383</b> 180 ft NESC heavy, 300 ft NESC medium, 450 ft NESC light	ADELD2E-383T
<b>ADSS Mini-Span 424</b> 275 ft NESC heavy, 450 ft NESC medium, 600 ft NESC light	ADELD2E-424005
<b>ADSS Mini-Span 484</b> 275 ft NESC heavy, 400 ft NESC medium, 525 ft NESC light	ADEMS484

NOTE: Part numbers ADEMS484, ADEW10J1-AL535, and ADEW16J1-AL693 attach to structure via common pole hardware sold separately such as thimble eye, ram's head, guy hooks, etc.

For spans greater than the span lengths above, contact Customer Service.



Mini-Bracket

## Mini-Bracket

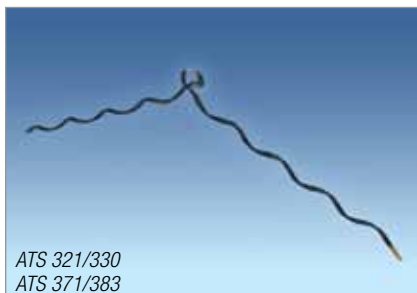
Mini Brackets are used for short and medium spans of ADSS fiber optic cable as well as Aerial Drop cables. Mini Brackets are sized to fit specific ADSS diameters. Standard Mini Brackets are employed with fitted bushings to provide a good support/groove fit and to prevent the support from damaging the cable. The bolted supports are supplied with aluminum captive bolts to simplify installation with no loose parts.

### Features

- Maximum one side angle: 8.5 degrees
- Estimated weight: 2.9 lbs. (1.3 Kg)
- Maximum rated strength: 3,000 lbs.
- Hand tighten bolt to 25 in.-lbs. (2.8 N-m)
- Slip load at 4 to 6% of RBS

### Ordering Information

DESCRIPTION	PART NO.
<b>Aerial Drop 256</b> maximum line angle = 17° (150 ft NESC heavy, 275 ft NESC medium, 550 ft NESC light)	AMBB256
<b>Aerial Drop 307</b> maximum line angle = 17° (220 ft NESC heavy, 400 ft NESC medium, 675 ft NESC light)	AMBB307
<b>ADSS Mini-Span 424</b> maximum line angle = 17° (275 ft NESC heavy, 450 ft NESC medium, 600 ft NESC light)	AMBB424
<b>ADSS Mini-Span 484</b> maximum line angle = 17° (275 ft NESC heavy, 400 ft NESC medium, 525 ft NESC light)	AMBB484-535
<b>ADSS Mini-Span 535</b> maximum line angle = 17° (350 ft NESC heavy, 550 ft NESC medium, 675 ft NESC light)	AMBB484-535



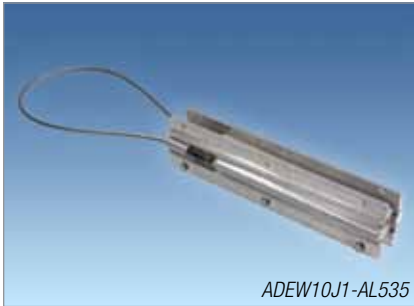
ATS 321/330  
ATS 371/383

## Mini Formed Wire Tangent Support (FTS)

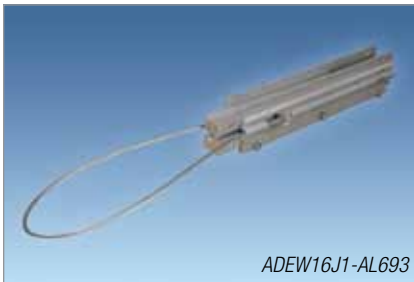
Formed Wire Tangent Supports (FTS) are used with ADSS Mini-Span® 323 and Mini-Span® 383 for short span applications. Tangent supports provide a method of attaching AFL's smallest ADSS Mini-Span® designs with excellent unbalanced load capability and bend relief support. This product is designed to connect directly to J-hooks on wood poles for an economical solution.

### Ordering Information

DESCRIPTION	PART #
<b>ADSS Mini-Span® 323</b> maximum line angle = 20° (175 ft NESC heavy, 300 ft NESC medium, 500 ft NESC light)	ATS321/330
<b>ADSS Mini-Span® 383</b> maximum line angle = 20° (180 ft NESC heavy, 300 ft NESC medium, 450 ft NESC light)	ATS371/383



ADEW10J1-AL535



ADEW16J1-AL693

## Wedge Dead End

(to be used only on Standard ADSS Cable up to 0.890" diameter, 144 fibers)

AFL Telecommunications offers wedge dead ends that ease and speed ADSS cable installation. The ADSS Wedge Dead End is ideal in crowded distribution environments because its shorter length allows for safer and efficient installation. The Wedge Dead End comes with all parts assembled. The side plates are properly aligned with spacers and self-locking hex bolts, as well as retainers. Lubricated wedges are pre-installed inside the body of the dead end.

**Caution:** The load ratings shown here are based on performance results of certain cable configurations and may not be representative of all manufacturers' ADSS cable designs. ACA Conductor Accessories strongly recommends that before using this product, you contact ACA Conductor Accessories to obtain the recommended load rating and to verify that the wedge dead end has been qualified for use with the proposed cable. ACA Conductor Accessories will perform a qualification test at no charge.

### Specifications

PARAMETER	VALUE
Wedge Length	10" or 16" depending on cable characteristics
Cable O.D.	0.512" to 0.890" (13 mm to 22.6 mm)
Hold Strength	100% of Maximum Rated Cable Load (MRCL)
Maximum Attenuation Change	0.05 dB at 100% MRCL

### Ordering Information for Minispan Deadends

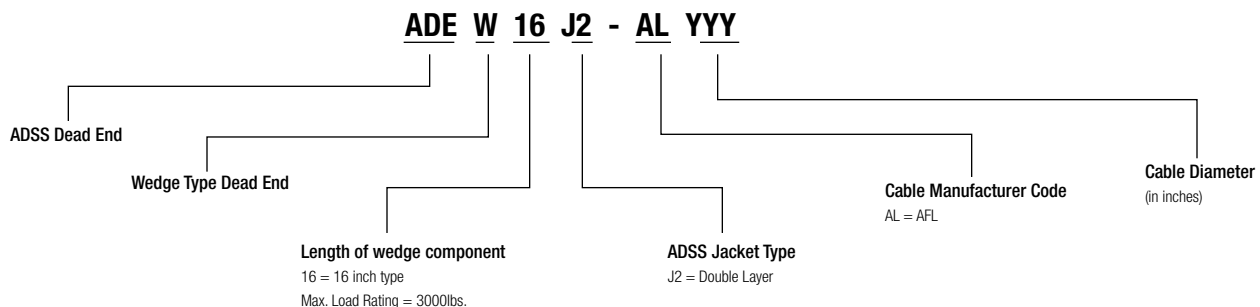
- Wedge-type design is safer than spiral wrap style dead ends
- Fewer parts, smaller and easier to store
- Attaches to structure via common pole hardware sold separately (thimble eye, ram's head, etc.)

### Features

- Easier and faster installation
- Lower total system costs
- No special tools or hardware required for installation

APPLICATION & DESCRIPTION	PART NO.
<b>ADSS Mini-Span 535</b> 500 ft NESC heavy, 700 ft NESC medium, 875 ft NESC light Maximum loading capability is 1500 lbs.	ADEW10J1-AL535
<b>ADSS Mini-Span 693</b> 500 ft NESC heavy, 600 ft NESC medium, 750 ft NESC light Maximum loading capability is 1500 lbs.	ADEW16J1-AL693

### Ordering Information for Double Jacket Cables



#### Application Notes:

1. For use with ADSS cables with polyethylene jackets only. Not for use on track resistant ADSS cable.
2. AFL Telecommunications fiber optic cable and related hardware are designed to work as a system. Dead ends may not be available for cable from other manufacturers.



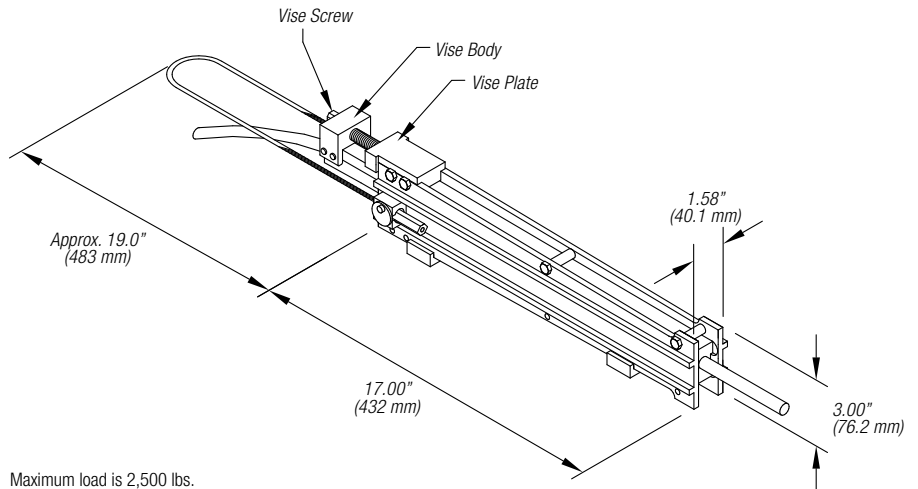
## Temporary Grip

Temporary Grips are used in stringing the ADSS during sagging and where it is necessary to make short term catch on the ADSS.

The Temporary grip for ADSS is a high strength aluminum body designed to hold 2,500 pounds or 50% of MRCL of the cable.

**Application Notes:**

1. Mechanical Grip for Use with Polyethylene Outer Jackets Only



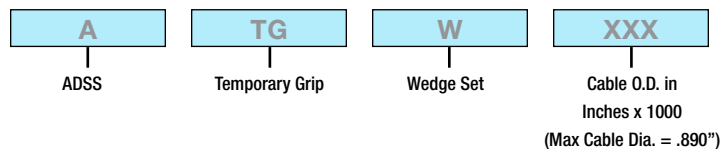
Maximum load is 2,500 lbs.

Thimble Clevis is included to attach temporary grip bail to chain hoist.

### Ordering Information

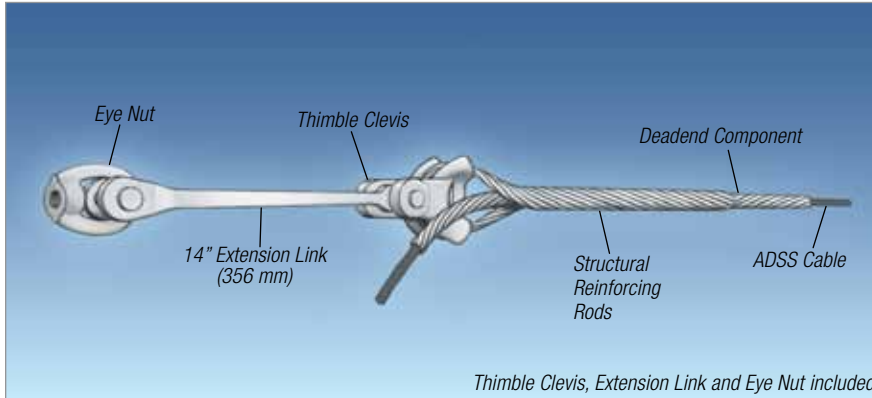


### Ordering Information for Additional Wedges



**CAUTION:** The Temporary Grip is only to be used for AFL ADSS cables with standard polyethylene jackets with a maximum O.D. of .890 or less.

## Formed Wire Dead End for ADSS Cable



### Ordering Information

#### “S” Deadends

(maximum loaded tension < 2500 lbs.)

CABLE O.D.				PART NO.
(IN)		(MM)		
0.400	0.424	10.2	10.8	ADESE400/424C
0.425	0.451	10.8	11.5	ADESE425/451C
0.452	0.481	11.5	12.2	ADESE452/481C
0.482	0.51	12.2	13.0	ADESE482/510C
0.511	0.542	13.0	13.8	ADESE511/542C
0.543	0.577	13.8	14.7	ADESE543/577C
0.578	0.613	14.7	15.6	ADESE578/613C
0.614	0.651	15.6	16.5	ADESE614/651C
0.652	0.692	16.6	17.6	ADESE652/692C
0.693	0.737	17.6	18.7	ADESE693/737C
0.738	0.784	18.7	19.9	ADESE738/784C
0.785	0.834	19.9	21.2	ADESE785/834C
0.835	0.889	21.2	22.6	ADESE835/889C
0.89	0.945	22.6	24.0	ADESE890/945C
0.946	1.007	24.0	25.6	ADESE946/1007C
1.008	1.073	25.6	27.3	ADESE1008/1073C
1.074	1.14	27.3	29.0	ADESE1074/1140C
1.141	1.212	29.0	30.8	ADESE1141/1212C
1.213	1.288	30.8	32.7	ADESE1213/1288C

#### “M” Deadends

(maximum loaded tension < 4000 lbs.)

CABLE O.D.				PART NO.
(IN)		(MM)		
0.511	0.542	13.0	13.8	ADEME511/542C
0.543	0.577	13.8	14.7	ADEME543/577C
0.578	0.613	14.7	15.6	ADEME578/613C
0.614	0.651	15.6	16.5	ADEME614/651C
0.652	0.692	16.6	17.6	ADEME652/692C
0.693	0.737	17.6	18.7	ADEME693/737C
0.738	0.784	18.7	19.9	ADEME738/784C
0.785	0.834	19.9	21.2	ADEME785/834C
0.835	0.889	21.2	22.6	ADEME835/889C
0.89	0.945	22.6	24.0	ADEME890/945C
0.946	1.007	24.0	25.6	ADEME946/1007C
1.008	1.073	25.6	27.3	ADEME1008/1073C
1.074	1.14	27.3	29.0	ADEME1074/1140C
1.141	1.212	29.0	30.8	ADEME1141/1212C
1.213	1.288	30.8	32.7	ADEME1213/1288C

#### “L” Deadends

(maximum loaded tension < 7200 lbs.)

CABLE O.D.				PART NO.
(IN)		(MM)		
0.511	0.542	13.0	13.8	ADELE511/542C
0.543	0.577	13.8	14.7	ADELE543/577C
0.578	0.613	14.7	15.6	ADELE578/613C
0.614	0.651	15.6	16.5	ADELE614/651C
0.652	0.692	16.6	17.6	ADELE652/692C
0.693	0.737	17.6	18.7	ADELE693/737C
0.738	0.784	18.7	19.9	ADELE738/784C
0.785	0.834	19.9	21.2	ADELE785/834C
0.835	0.889	21.2	22.6	ADELE835/889C
0.89	0.945	22.6	24.0	ADELE890/945C
0.946	1.007	24.0	25.6	ADELE946/1007C
1.008	1.073	25.6	27.3	ADELE1008/1073C
1.074	1.14	27.3	29.0	ADELE1074/1140C
1.141	1.212	29.0	30.8	ADELE1141/1212C
1.213	1.288	30.8	32.7	ADELE1213/1288C

#### Application Notes:

1. For use with ADSS cables with polyethylene jackets only. Not for use on track resistant ADSS cable.
2. For line or elevation angle changes greater than 30°.

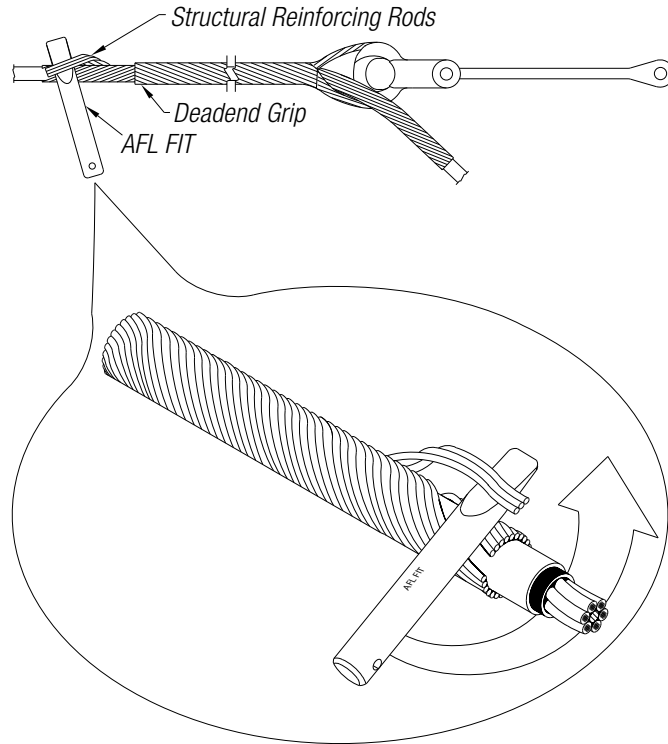


## AFL FIT (Formed Wire Installation Tool)

The nonmetallic AFL Fit Tool is used to install formed wire components without damaging the cable. Use of metal instruments to aid in the installation of formed wire components can result in cable damage.

### Ordering Information:

<b>PART NO.</b>
AFL-FIT





## Trunion Assemblies

AFL Telecommunications offers trunions with various mounting capabilities: bolted, banded, or standoff. Trunions reduce installation costs by functioning as a pull-through during installation (maximum line angle for stringing is 15° total, 7.5° per side, number of structures not to exceed 30). No block or pulley is needed provided these conditions are met.

### Features

- May be used as a pull-through by removing the bushing inserts
- High-strength aluminum
- Smaller and more compact design
- Facilitates faster installation
- Color-coded range taking inserts for easy identification
- Versatile mounting styles to fit different structure types: bolted, banded or standoff
- Banding and pole hardware supplied by customer
- Lowers the total cost of installation
- Span Length: 600 ft. - NESC Heavy  
1,200 ft. - NESC Light

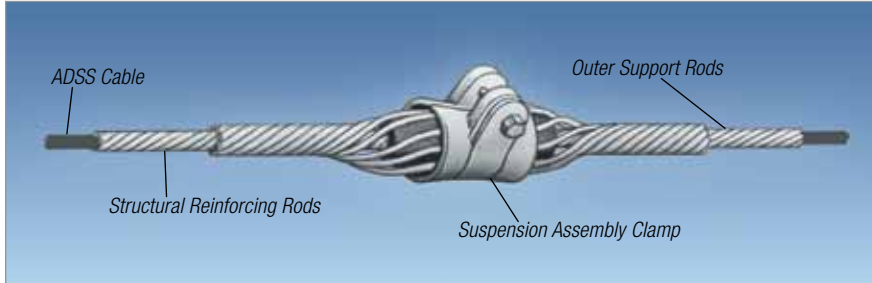
### Ordering Information

CABLE O.D. RANGE		EST. WEIGHT		BUSHING COLOR	PART NO.
INCHES	MILLIMETERS	LBS.	KG		
0.475" - 0.525"	12.07 - 13.34	2.05	.930	Blue	ATGN475/525
0.526" - 0.575"	13.36 - 14.61	2.05	.930	Orange	ATGN526/575
0.576" - 0.625"	14.63 - 15.88	2.04	.925	Brown	ATGN576/625
0.626" - 0.675"	15.90 - 17.15	2.04	.925	Green	ATGN626/675
0.676" - 0.725"	17.17 - 18.42	2.03	.921	White	ATGN676/725
0.726" - 0.775"	18.44 - 19.69	2.03	.921	Red	ATGN726/775
0.776" - 0.825"	19.71 - 20.96	2.02	.916	Purple	ATGN776/825
0.826" - 0.875"	20.98 - 22.23	2.02	.916	Yellow	ATGN826/875
0.876" - 0.925"	22.25 - 23.50	2.02	.916	Pink	ATGN876/925

#### Application Notes:

1. For use with ADSS cables with polyethylene jackets only. Not for use on track resistant ADSS cable.
2. As a stringing block:
  - Maximum line angle = 15° (7.5° per side)
  - Maximum number of structures = 30
3. For final installation:
  - Maximum line angle = 22° (11° per side)

## Formed Wire Suspension for ADSS Cable



**Application Notes:**

1. For use with ADSS cables with polyethylene jackets only. Not for use on track resistant ADSS cable.
2. For line or elevation angle changes less than 30°.

### Ordering Information

CABLE O.D. RANGE	STRUCTURAL REINFORCEMENT RODS				OUTER RODS				PART NO.
	LENGTH (INCHES)	ROD DIA. (INCHES)	RODS PER SET	COLOR CODE	LENGTH (INCHES)	ROD DIA. (INCHES)	RODS PER SET	COLOR CODE	
0.399" - 0.418"	80	.146	10	Yellow	42	.204	11	Yellow	ASU399/418
0.419" - 0.439"	80	.146	10	Black	42	.204	11	Black	ASU419/439
0.440" - 0.458"	81	.146	11	White	43	.204	11	White	ASU440/458
0.459" - 0.461"	84	.167	10	Purple	46	.250	10	Orange	ASU459/461
0.462" - 0.476"	84	.167	10	Purple	46	.250	10	Purple	ASU462/476
0.477" - 0.503"	84	.146	12	Orange	46	.250	10	Orange	ASU477/503
0.504" - 0.511"	84	.146	12	Red	46	.250	10	Purple	ASU504/511
0.512" - 0.536"	87	.167	11	Blue	49	.250	11	Blue	ASU512/536
0.537" - 0.559"	87	.167	11	Green	49	.250	11	Green	ASU537/559
0.560" - 0.565"	87	.167	11	Green	49	.250	11	Green	ASU560/565
0.566" - 0.573"	92	.182	11	Black	54	.250	12	Black	ASU566/573
0.574" - 0.598"	92	.182	11	Black	54	.250	12	White	ASU574/598
0.599" - 0.625"	92	.182	12	Brown	54	.310	12	Brown	ASU599/625
0.626" - 0.632"	102	.204	11	Red	63	.310	11	Red	ASU626/632
0.633" - 0.666"	102	.204	11	Red	63	.310	11	Blue	ASU633/666
0.667" - 0.682"	102	.204	12	Yellow	63	.310	11	Green	ASU667/682
0.683" - 0.710"	102	.204	12	Yellow	63	.310	11	Yellow	ASU683/710
0.711" - 0.728"	102	.204	12	White	63	.310	12	Black	ASU711/728
0.729" - 0.744"	102	.204	12	White	63	.310	12	White	ASU729/744
0.745" - 0.750"	102	.204	12	White	63	.310	12	White	ASU745/750
0.751" - 0.786"	102	.204	13	White	63	.310	12	Brown	ASU751/786
0.787" - 0.814"	111	.250	11	Green	72	.365	11	Green	ASU787/814
0.815" - 0.845"	111	.250	12	Yellow	72	.365	11	Yellow	ASU815/845
0.846" - 0.855"	111	.250	12	Green	72	.365	12	Blue	ASU846/855
0.856" - 0.894"	119	.250	12	Black	80	.365	12	Black	ASU856/894
0.895" - 0.907"	119	.250	12	White	80	.365	12	White	ASU895/907
0.908" - 0.916"	119	.250	13	Purple	80	.365	12	Purple	ASU908/916
0.917" - 0.929"	119	.250	13	Brown	80	.365	12	Brown	ASU917/929
0.930" - 0.942"	119	.250	13	Red	80	.365	12	Red	ASU930/942
0.943" - 0.977"	119	.250	13	Orange	80	.365	13	Orange	ASU943/977



Download Clamp shown with Adapter B

**Features**

- Slip strength: >100 lbs.
- Lattice adapters provided with break-away bolts for precise torque during installation
- Steel tower guide clamps available with adapters to eliminate the need for drilling
- Banding adapters available

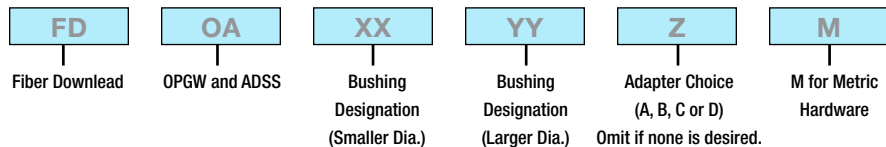
**Download Clamp for ADSS  
(with or without Unequal Diameters)**

The AFL Download Clamps are used to guide ADSS wire from the top of the structure to the splice box. Our clamps install easily and provide proper spacing and hold strength without damage to the cable. From poles to towers, we offer a full line of ADSS Download Clamps to meet the needs of any application.

**Ordering Information – Download Clamp & Adapter**

BUSHING DESIGNATION	DIAMETER (INCHES)	COLOR CODE
B4	0.350 - 0.500	red
B5	0.501 - 0.600	green
B6	0.601 - 0.700	yellow
B7	0.701 - 0.800	blue
B8	0.801 - 0.900	white
B9	0.901 - 1.000	black
B10	1.001 - 1.100	orange

ADAPTER FOR DOWNLOAD CLAMP	SUFFIX
Banding Adapter	A
Lattice Adapter (up to 0.72" tower leg thickness)	B
Lattice Adapter (up to 1.25" tower leg thickness)	C
3/8" Diameter x 3.00 Lag Bolt	D



Example: For .528" dia. OPGW and .484 ADSS with pole banding (Type A), order as FDOA-B4B5A. If metric hardware is desired, add a "M" suffix to the end.

See next page for optional download clamp adapters.

## Downlead Clamp and Optional Downlead Clamp Adapters

Figure 1

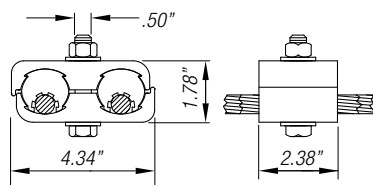
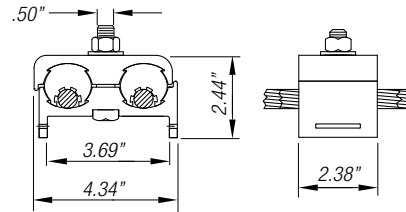


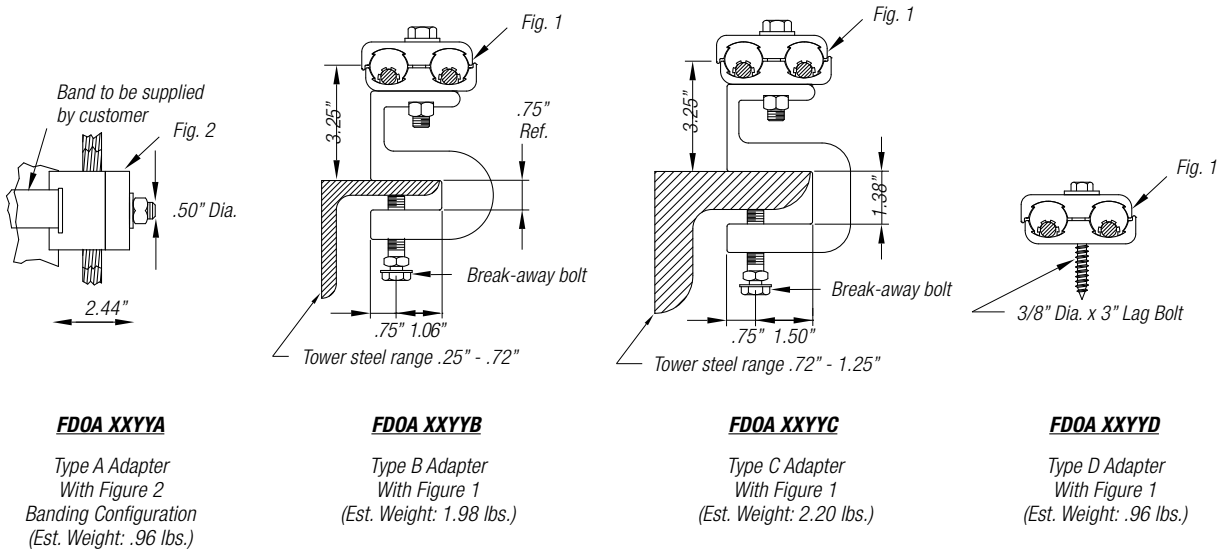
Figure 2



**FDOA XXYY**

No Adapter

Optional Adapters



**FDOA XXYYA**

Type A Adapter  
With Figure 2  
Banding Configuration  
(Est. Weight: .96 lbs.)

**FDOA XXYYB**

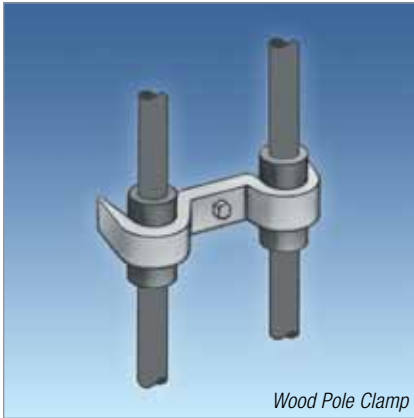
Type B Adapter  
With Figure 1  
(Est. Weight: 1.98 lbs.)

**FDOA XXYYC**

Type C Adapter  
With Figure 1  
(Est. Weight: 2.20 lbs.)

**FDOA XXYYD**

Type D Adapter  
With Figure 1  
(Est. Weight: .96 lbs.)



## Wood Pole Guide Clamp for ADSS Cable

Guide clamps are typically two groove clamps used to guide the cable to splice locations. Clamps are spaced 5 to 8 feet apart to help maintain alignment of the cable down the towers or poles. The clamps may be bolted to the tower or poles or adaptors, and can be supplied for the steel towers, steel poles and concrete poles.

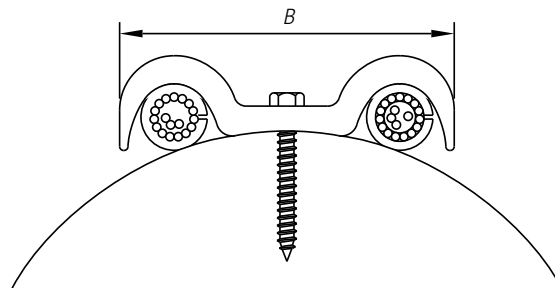
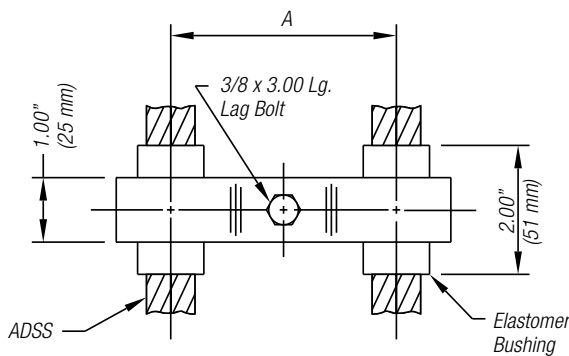
### Ordering Information – Wood Pole Clamp

(Note: not available with metric hardware; 3/8" x 3" lag bolt included )

ADSS DIAMETER - IN. (MM)	DIMENSIONS - IN. (MM)		WEIGHT - LBS. (KG)	PART NO.
	A	B		
0.182 - 0.274 (4.6 - 7.0)	2.81 (71)	4.25 (108)	.33 (.15)	AGW182/274
0.275 - 0.376 (7.0 - 9.6)	2.81 (71)	4.25 (108)	.33 (.15)	AGW275/376
0.377 - 0.468 (9.6 - 11.9)	2.81 (71)	4.25 (108)	.33 (.15)	AGW377/468
0.469 - 0.561 (11.9 - 14.2)	2.81 (71)	4.25 (108)	.33 (.15)	AGW469/561
0.562 - 0.655 (14.3 - 16.6)	3.50 (89)	5.19 (132)	.46 (.21)	AGW562/655
0.656 - 0.750 (16.7 - 19.1)	3.50 (89)	5.19 (132)	.46 (.21)	AGW656/750

Ordering Example:

For .512" diameter ADSS, the part number is AWG 469/561





## Urethane Downlead Cushion Clamps

These clamps are two groove clamps used to guide the cable to splice locations. Clamps are spaced 4 to 6 feet apart to help maintain alignment of the cable down the towers or poles. Various mounting hardware is available for wood and concrete poles and steel lattice towers.

### Ordering Information

#### Urethane Downlead Cushion Clamps

CABLE TYPE	PART #
Mini-Span® 323	ADLC300/374
Mini-Span® 383	ADLC375/468



## Spiral Vibration Damper for ADSS Cable

Spiral Vibration Dampers have a helically formed damping section sized for interplay of damper and cable to provide the action/reaction motion that opposed the natural vibration wave. A smaller gripping section gently grips the cable so that cable and fiber are not damaged or distorted and there is no optical signal loss. Spiral dampers are recommended for the ADSS cable when the combination of span length and tension indicate by vibration review that external vibration protection is required.

### Ordering Information

#### Mini-Span®, Standard ADSS Designs

CABLE O.D. RANGE (INCHES)	CABLE O.D. RANGE (MM)	PART NO.
0.250" - 0.326"	6.35 - 8.28	AVD250/326
0.327" - 0.461"	8.31 - 11.71	AVD327/461
0.462" - 0.563"	11.73 - 14.30	AVD462/563
0.564" - 0.770"	14.33 - 19.56	AVD564/770
0.771" - 0.876"	19.58 - 22.25	AVD771/876
0.877" - 1.000"	22.28 - 25.40	AVD877/1000
1.001" - 1.210"	25.43 - 30.86	AVD1000/1210



## Fiber Storage Units for ADSS Fiber Optic Cable

Fiber Storage Units (FSU) are used to conveniently store an extra length of cable along the ADSS cable run for later use. Furnished as pairs (kit contains two Fiber Storage Units and two sets of hanger brackets), these FSU's are constructed from UV stabilized PPE thermoplastic. All basic hardware for attachment to the ADSS cable is provided. ADSS cable mount support brackets meet Telcordia specifications. Epoxy coated clamping devices meet ASTM specifications A153 and B695.

The "TP" mounting bracket features an angled, tent-profile, epoxy-coated bracket for standard ADSS cable mounting.

### Features

- Small profile and side facing channel minimizes ice and leaf loading
- Constructed from UV stabilized PPE thermoplastic
- Basic hanging hardware (bolts, nuts, washers) and strand clamps all included
- Tie-wrap slots for securing cable
- Epoxy-coated strand clamps

### Specifications

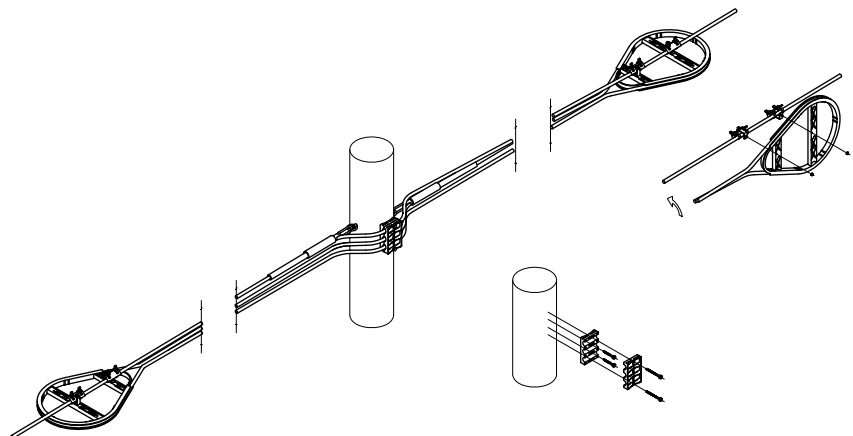
PARAMETER	FOS18-AD-401D
Nominal Channel Width - in. (cm)	1.00
Minimum Bend Diameter - in. (cm)	17.5

### Ordering Information

DESCRIPTION	FOS18-AD-401D
FOSP ADSS Kit	FA000050

*Kits contain one pair of FOSP and two sets of hanger brackets.*

### Typical Installation Diagram



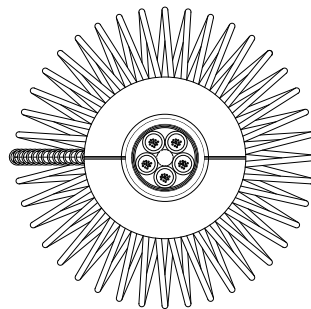


## Corona Ring for ADSS Cable

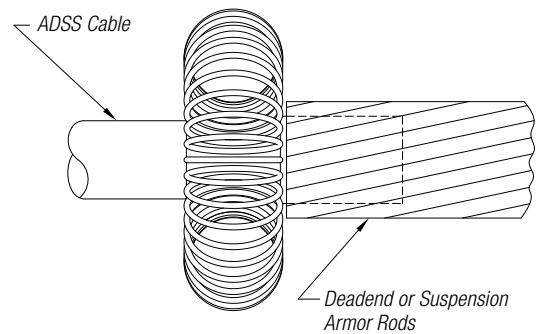
### Ordering Information

<b>A</b>	<b>CR</b>	<b>XXX</b>
ADSS CABLE	Corona Ring	Cable Diameter in Decimal Inches

Ordering Example:  
For a .685" diameter ADSS, the part number is ACR685



*Corona Ring Assembly*



Note: Corona coil clamp component should be installed under the rods of the dead end or suspension.



## Opti-Guard™ Splice Enclosure

The Opti-Guard Splice Enclosure from AFL offers an impressive spectrum of features which makes it the best selection for your splice protection needs. It's unique and flexible design was created with the "real-world" technician in mind. The Opti-Guard combines optimized system performance with unparalleled ease of use. It is resistant to water, ultraviolet rays, temperature and ballistics. Opti-Guard installs easily without messy tapes or adhesives. It provides the flexibility needed to handle the most demanding installation scenarios.

### Features

- Accommodates up to 504 single fusion splices
- Craft friendly design requires no specialized tools to install and minimizes required training
- Easy to maintain and re-enter; no re-entry kit required
- Unit is lightweight and mounts to many types of structures
- May be bolted or banded; no special adapters needed
- Specially designed non-metallic housing
- Environmentally sealed to protect fibers
- Accepts up to six individual cables
- Accommodates most cable types in most environments
- Versatile cable tie-off system resists up to 100 pounds of tension per cable

### Ordering Information

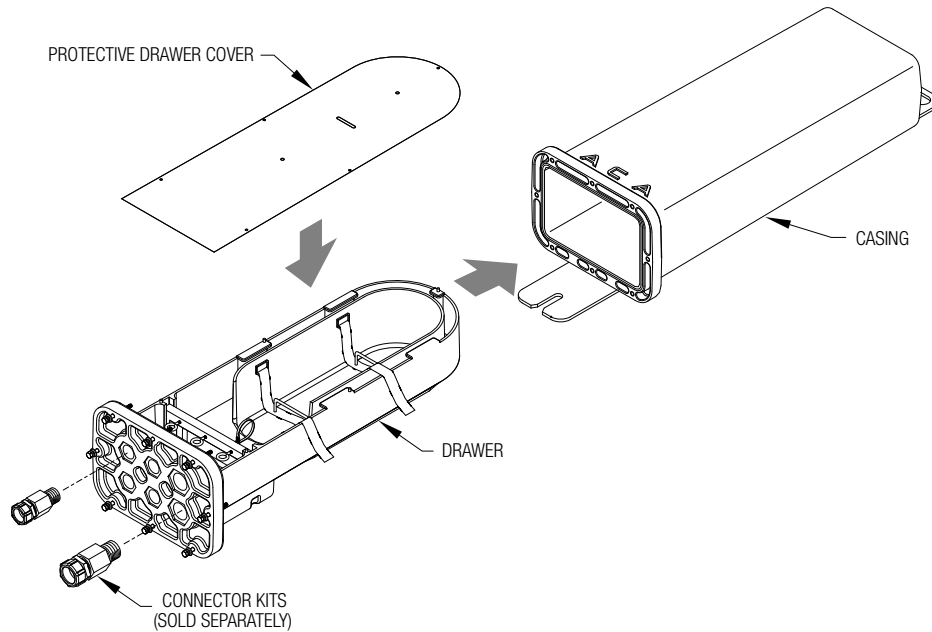
PART NO.	MODEL	DESCRIPTION
OG03	Opti-Guard Splice Enclosure	Supplied without Splice Trays or Cable Connectors. These items ordered separately
OGST01-72*	Opti-Guard Splice Tray	Capacity of up to 72 single fusion splices per tray
TAK-02	Splice Tray Adapter Kit	Required for Opti-Guard Enclosures purchased prior to April 2006 to utilize OGST01-72 Splice Tray
SPS60 SPS40	Splice Protection Sleeves	60mm, Fujikura FP3 (standard) 40mm, Fujikura FP3-40 (special applications only) <i>Sold in packs of ten (not included with splice trays)</i>
OGBG01	Opti-Guard Bullet Guard	Ballistic shield for Opti-Guard™ Splice Enclosure
OGFK01	Opti-Guard Fiber Routing Kit	Order one kit for each stainless steel tube
OCK	Connector Kit	Used for Optical Ground Wire
ACK	Connector Kit	Used for All-Dielectric Self-Supporting (ADSS) Cable
LCK	Connector Kit	Used for Loose Tube Cable
CB-44	External Coil Bracket	Used to store extra length of optical ground wire cable

NOTE: Refer to page on connector kit part number set-up.

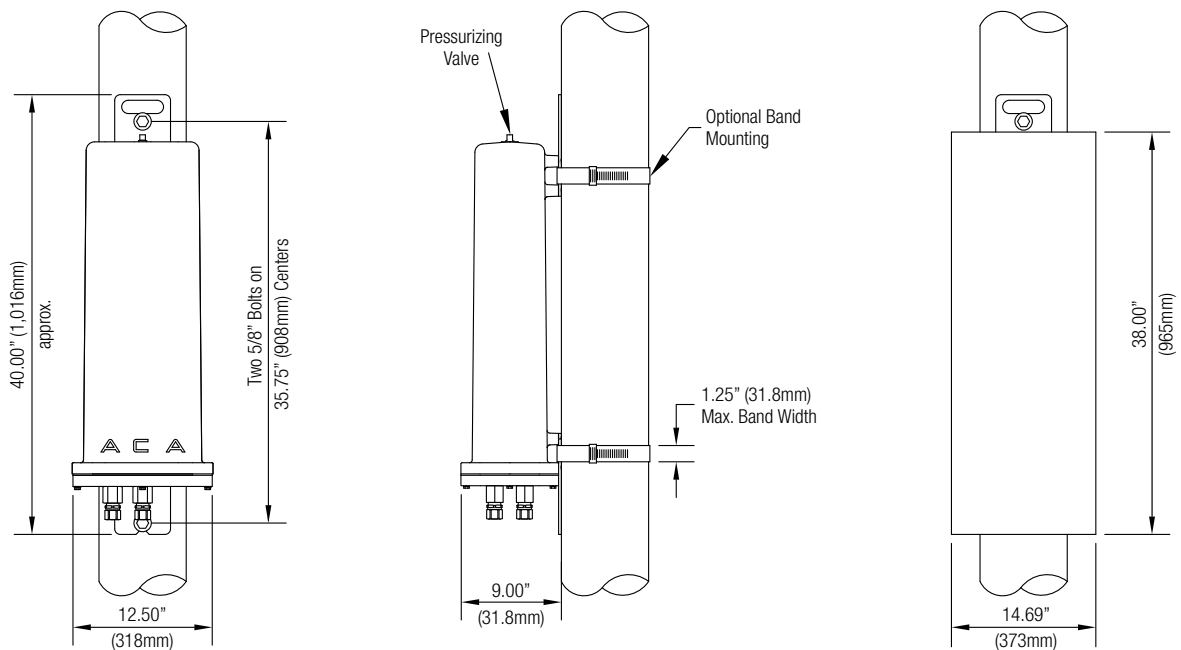
\* Requires TAK-02 Adapter Kit for Opti-Guard Splice Enclosures purchased prior to April 2006.

## Opti-Guard™ Splice Enclosure

### Exploded View



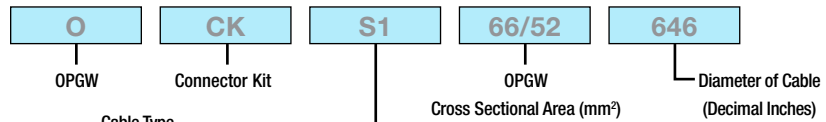
### Mounting Details and Options



## Connector Kits for Opti-Guard™ Splice Enclosures



### Connector Kit: Optical Ground Wire



For Stainless Steel Designs

S1 = From cable designation

S2 = From cable designation

S3 = From cable designation

SX = From cable designation

SC = Slotted Core

MC = MiniCore

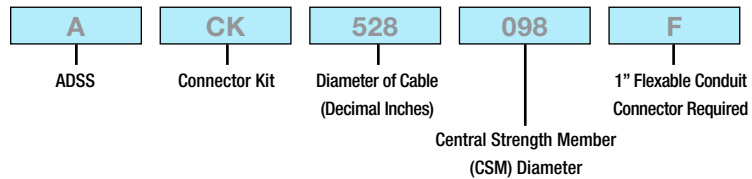
CC = CentraCore

Blank = If none of the above

Ordering Example: For 0.646" diameter S1-66/52/646, the part number is OCKS166/52646.



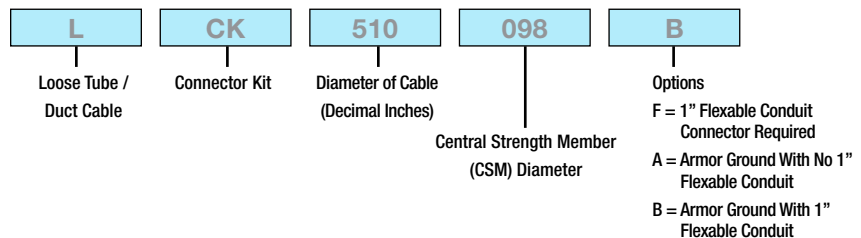
### Connector Kit: All-Dielectric Self-Supporting Fiber Optic Cable



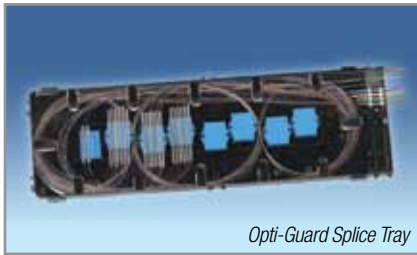
Ordering Example: For 0.528" diameter ADSS with .098" central strength member, the part number is ACK528098.



### Connector Kit: Loose Tube Fiber Optic Cable



Ordering Example: For 0.510" armored loose tube (duct) cable with 0.098" diameter central strength member, flexible conduit and armor ground connections, the part number is LCK510098B.



## Opti-Guard™ Splice Tray

The Opti-Guard Splice Tray is specifically designed to be used with the Opti-Guard Splice Enclosure.

### Features

- 72 fiber splice capacity
- Manifolds are easily removed for lower fiber counts
- Clear cover for easy fiber identification

### Ordering Information

PART NO.	MODEL
OGST01-72	Opti-Guard Splice Tray
TAK-02	Splice Tray Adapter Kit
SPS60	60mm Splice Protection Sleeve
SPS40	40mm Splice Protection Sleeve

*NOTE: Opti-Guard splice enclosures purchased prior to April 2006 require a TAK-02 Splice Tray Adapter Kit to accommodate the OGST01-72 Splice Tray.*



## Opti-Guard Bullet Guard

The Opti-Guard Bullet Guard is designed to supplement the ballistic resistance of the Opti-Guard Splice Enclosure.

### Features

- Can be retro-fitted onto existing installations without disturbing cables
- Only a standard flat-blade screwdriver required for installation

### Ordering Information

PART NO.	MODEL
OGBG01	Opti-Guard Bullet Guard



## Opti-Guard Fiber Routing Kit

The Opti-Guard Fiber Routing Kit provides all of the materials to properly route fibers from a stainless steel tube to the OGST01-72 splice tray inside the Opti-Guard splice enclosure.

### Features

- Primary transition tubing leads fiber from stainless steel tube to splice tray
- Heat Shrink tubing guides fibers as they exit the stainless steel tube
- Cable ties provided to secure tubing to the tray and the end of the stainless steel tube

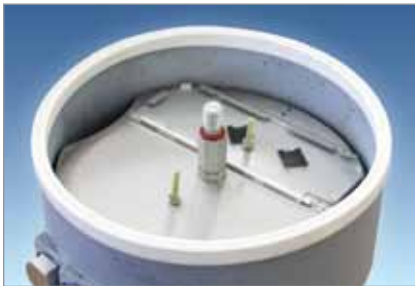
### Ordering Information

PART NO.	MODEL
OGFK01	Opti-Guard Fiber Routing Kit

*NOTE: Order one kit for each stainless steel tube.*



SB01-72 / SB01-144



SB01 with 12 splice capacity tray



SB01 with 72 splice capacity tray

## SB01 Splice Box Enclosure

ACA Conductor Accessories' splice box enclosure provides protection from all types of elements. From weather to bullets, the iron and steel construction requires no additional protective covering. Furnished with four plugged cable ports (2 aluminum and 2 plastic) for either All-Dielectric Self-Supporting (ADSS) or Optical Ground Wire (OPGW) cables, the splice enclosure can be pre-mounted to a structure before completion of the splicing phase.

With an internal capacity to store approximately 25 feet of buffer tube, the closure is more cost-effective, eliminating the need for an external coil storage bracket (with exception to stainless steel tube optical ground wire designs). The 72-fiber circular fiber tray, constructed of high impact-resistant Lexan®, enables management of up to 144 fibers. The tray's black base and clear lid enable easy accessibility.

Ideal for electric utilities and optical cable installers, the splice enclosure is versatile and cost-effective for new and existing installations.

### Features

- Up to 144-fiber splice capacity, depending on cable design
- Customizable kit with no special re-entry kits required
- Splice tray constructed of high impact-resistant Lexan®
- Manufactured of iron and steel; bullet-resistant
- Pre-mountable enabling easy re-entry and access

### Ordering Instructions – Step 1

PART NO.	DESCRIPTION
SB01	Splice Box Enclosure including one splice tray for 12 single fused fiber capacity, sealant, organizer tray for additional trays.
SB01-72	Splice Box Enclosure including one splice tray for 72 single fused fiber capacity. <b>Protection sleeves not included.</b>
SB01-144	Splice Box Enclosure including two splice trays for 72 single fused fiber capacity, a total of 144 splices. <b>Protection sleeves not included.</b>

Cable connector kits required to complete installation are sold separately. Refer to "Ordering Instructions" Steps 2 and 3 on the following pages to complete your order.

### Ordering Instructions – Step 2

CONNECTOR KIT	APPLICATION
OCK	Optical Ground Wire
ACK	All-Dielectric Self-Supporting (ADSS) Fiber Optic Cable
LCK	Loose Tube Fiber Optic Cable

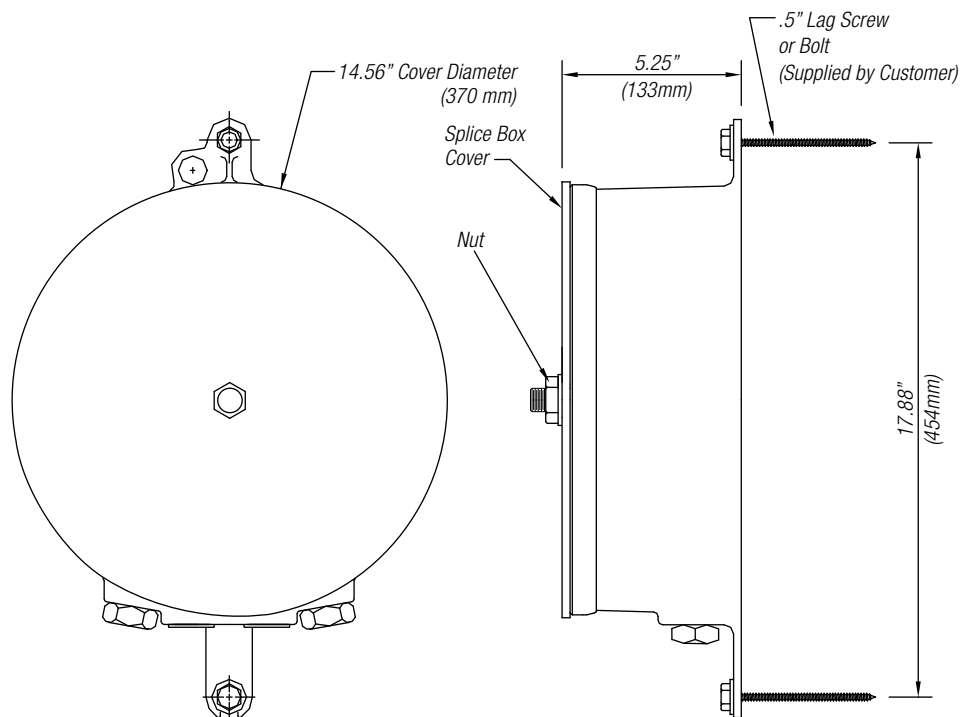
Refer to page on connector kits for part number set-up.

## SB01 Splice Box Enclosure

### Specifications

PARAMETER	VALUE
Maximum Tray Capacity (depending on tray type)	4 ST1 Trays or 2 ST72 Trays
Maximum Fiber Count (depending on tray type)	48 with ST1; 144 with (2) ST72
Weight	52 lbs. (23.57 kg)
Diameter	14.56 in. (370 mm)
Height (with cover)	5.25 in (133.35 mm)
Mounting Distance (hole to hole)	17.88 in (454.15 mm)

### Dimensions



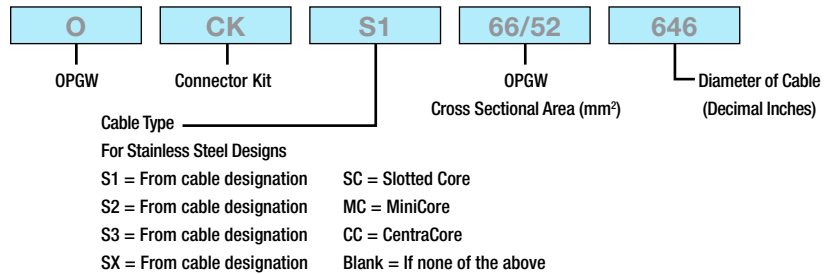
**NOTE:** Banding and steel tower adapters are available in lieu of bolts.

## SB01 Splice Box Enclosure Connector Kits



*Optical Ground Wire Connector Kit*

### Connector Kit: Optical Ground Wire

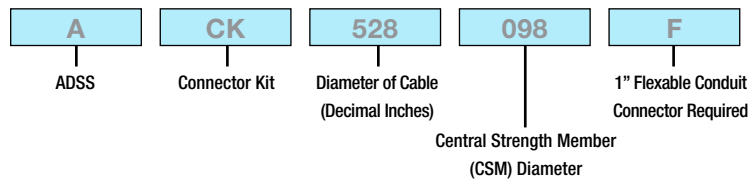


Ordering Example: For 0.646" diameter S1-66/52/646, the part number is OCKS166/52646.



*All-Dielectric Self-Supporting Connector Kit*

### Connector Kit: All-Dielectric Self-Supporting Fiber Optic Cable

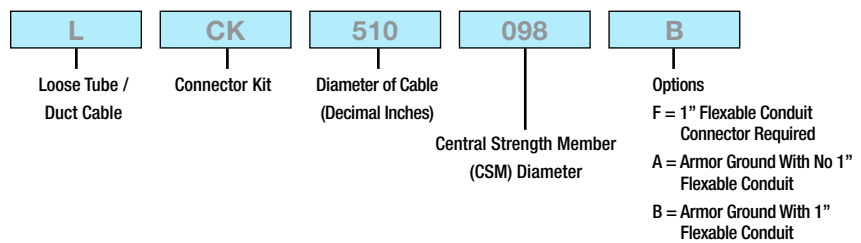


Ordering Example: For 0.528" diameter ADSS with .098" central strength member, the part number is ACK528098.



*Armored Loose Tube Connector Kit*

### Connector Kit: Loose Tube Fiber Optic Cable



Ordering Example: For 0.510" armored loose tube (duct) cable with 0.098" diameter central strength member, flexible conduit and armor ground connections, the part number is LCK510098B.

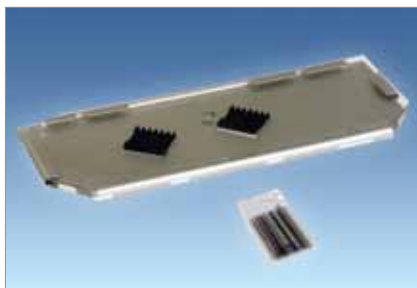
**NOTE:** Where the SB01 is used with cable manufactured by a vendor other than AFL Telecommunications, please contact the ACA Conductor Accessories Technical Support Team at 800.866.7385.

## SB01 Splice Box Enclosure

### Ordering Instruction – Step 3

The SB01 comes with accessories for 12 fiber splicing. Where more than 12 fibers will be spliced, add to your order the following accessories by part number and quantity accordingly.

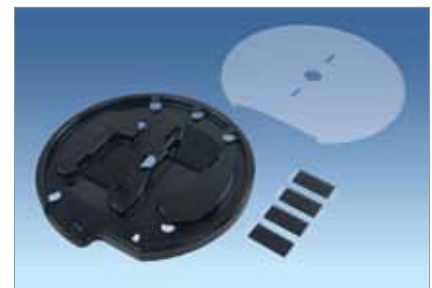
PART NO.	DESCRIPTION
ST1	<b>Splice Tray</b> 12 single fused fiber capacity, including 13 splice protection sleeves
ST72	<b>Splice Tray</b> 72 single fused fiber capacity; protection sleeves not included
TT1	<b>Transition Tray</b> To be used for stainless steel tube optical ground wire designs. Not necessary for AlumaCore optical ground wire designs. One tray holds 48 fibers. <b>Not required for ST72 tray.</b>
SB01FK	<b>Furcation Kit</b> To be used for stainless steel designs where fiber must be separated into groups. One kit required for each fiber carrying steel tube (maximum 48 fibers per tube).
CB-44	<b>External Coil Bracket</b> Used to store extra length of optical ground wire cable



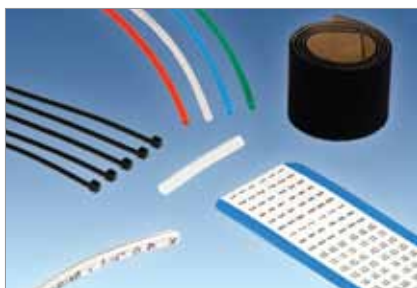
ST1 – Splice Tray



TT1 – Transition Tray



ST72 – Splice Tray



SB01FK – Furcation Kit



CB-44 External Coil Bracket



## Sealed Fiber Optic Splice Closures

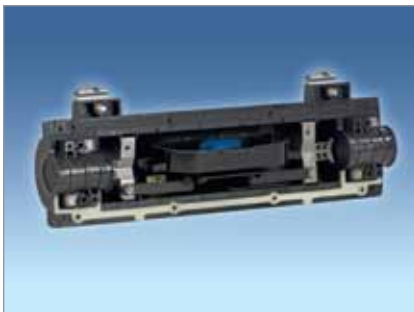
The AFL Telecommunications' family of Sealed Fiber Optic Splice Closures is designed to simplify splice management. Quality engineering reduces the installation time, training and complexity associated with fiber splicing in the field. No heat, adhesives, drills or powered equipment for installation or re-entry are required. These durable, easy to install closures will increase productivity, reduce labor expenses and last the life of your plant.

### Features

- Supports stranded loose tube, Uniflex® or ribbon fiber cables in either armored or dielectric configurations
- Installation and re-entry using common hand tools
- Fully sealed to protect fiber and splices ensuring longevity
- Fully kitted with all parts to install cables
- Designed and tested to Telcordia™ GR-771 requirements
- Rural Utilities Service (RUS) Listed

### Specifications

MODEL	LG-55-U-0	LG-150-U-0	LG-250-U-0	LG-350-U-0	350-AC	LG-350XL-U-0
Splice Capacity (Max.) - Single, Mass, Mechanical	24, n/a, n/a	48, 144, n/a	96, 288	384, 1152	144, 288	864, 2592, n/a
Number of Splice Trays (Max.) - Single, Mass, Mechanical	1, n/a, n/a	4, 3, n/a	4, 2, 3	12, 8, 8	4, 3	9, 9, n/a
Cable Entrance Configuration	In-line / Butt	Butt	Butt	Butt	Butt	Butt
Cable Ports	2	5	5	5	2 (Express Grommets) 3 (4-Drop Grommets)	5 (7 using dual port grommet Express sides)
Cable Sizes (Max. O.D.)	2 @ 0.60" (splice) 2 @ 0.77" (ground / bond)	5 @ 0.70"	5 @ 0.70"	3 @ 0.80" 2 @ 1.00"	2 @ 1.0" 12 @ 0.312" Flat or 0.250" Round	3 @ 1.25" 2 @ 1.35"
Testing						
- Cable Retention (100 lbs)	Passed	Passed	Passed	Passed	Passed	Passed
- Water Resistance (waterhead)	20 ft.	20 ft.	20 ft.	20 ft.	20 ft.	20 ft.
- Impact Resistance (0-40 °C)	Passed	Passed	Passed	Passed	Passed	Passed
- Chemical Resistance	Passed	Passed	Passed	Passed	Passed	Passed
- Cable Flexing	Passed	Passed	Passed	Passed	Passed	Passed
Dimensions - (L x D) in. (cm)	14.00 x 4.00 (35.60 x 10.16)	18.25 x 8.75 (46.36 x 22.23)	19.00 x 8.75 (48.26 x 22.23)	28.00 x 10.00 (71.12 x 25.40)	20 x 10	31.00 x 12.00 (78.74 x 30.48)
Weight - lbs. (kg)	3.0 (1.36)	10.5 (4.76)	11.5 (5.23)	14 (6.35)	13 (5.89)	25 (11.34)



## LG-55 Sealed Fiber Optic Splice Closure

Designed with versatility in mind, the LG-55 sealed closure from AFL Telecommunications offers a variety of solutions including repair and distribution splicing, grounding for Fiber-in-the-Loop applications, and for use as an isolation gap with armored cables. This closure accepts stranded loose tube, Uniflex® or ribbon fiber cables in either armored or dielectric configurations and can be utilized in a butt or in-line configuration.

The LG-55 closure incorporates a unique cable clamp design sealing the cable, allowing both of the cover halves to be removed without disturbing the contents. In addition, AFL Telecommunications' Peel & Seal Grommet System™ is incorporated to ensure a tight fit on various cable diameters, fully sealing the closure and protecting the fiber while eliminating cumbersome tape and washers – making installation fast and easy.

### Features

- Accommodates cables to 0.77" O.D. for splicing and grounding / bonding
- Incorporates the Peel & Seal Grommet System, fully sealing the closure
- Includes removable, integral central splicing module and individual cable retention clamps
- Optional 24 single fiber splice tray available

### Specifications

PARAMETER	VALUE
Splice Capacity (Max.) – Single, Mass, Mechanical	24, n/a, n/a
Number of Splice Trays (Max.) – Single, Mass, Mechanical	1, n/a, n/a
Cable Entrance Configuration	In-line / Butt
Cable Ports	2 (3 using dual cable entry port kit)
Cable Sizes (Max. O.D.)	2 @ 0.60" (for in-line splice configuration) 2 @ 0.77" (for in-line ground / bond configuration) 2 @ 0.45" (for butt splice configuration)
Dimensions – (L x D) in. (cm)	14 x 4 (34.30 x 10.16)
Weight – lbs. (kg)	3.0 (1.36)

### Ordering Information

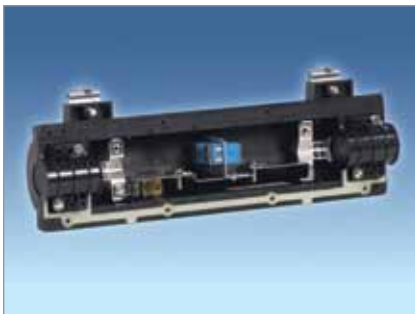
DESCRIPTION	MODEL #	PART #
LG-55 Sealed Fiber Optic Splice Closure – 24 fusion splice capable and includes (2) cable kits for sealing / retention, (2) Cable Grounding Kits, (1) Dual Cable Entry Port Kit and a grounding terminal. Splice tray not included.	LG-55-U-0	FC000034-PS
LG-55 Splice Tray – Stores 24 single fusion splices and includes base, cover, (3) eight-position splice holders and tie-wraps. Maximum of (1) tray in the LG-55.	LL-2425	FC000053
Dual Cable Entry Port Kit – Allows two cables to enter closure from each cable port.	Dual Cable Entry Port Kit	FC000062
Cable Grounding Kit – Includes harness and hose clamp (one kit required per cable entry)	CGH-1	FC000003
Cable Grounding Harness Kit – Includes (4) 8" long ground harnesses constructed of #6 AWG conductor.	CGH-4	FC000024



## LG-55-SC Sealed Fiber Optic Splice Closure

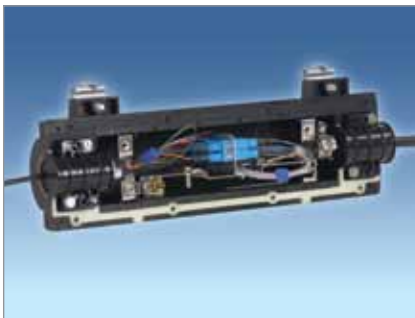
AFL Telecommunications' LG-55-SC sealed closure retains all the features of the LG-55, but includes a unique patching system that utilizes pre-terminated SC fiber assemblies or field installable connectors such as the FAST™ SC.

An innovative solution that can be used to facilitate a link between traffic control cabinets and entrance cables, the LG-55-SC closure allows for rapid restoration and minimal damage to a fiber optic cable should an impact disable the cabinet. A breakable tie wrap secures the pre-connectorized cable to one side of the closure (traffic control cabinet), while the main entrance cable is secured with a more rugged cable clamp, allowing the system to separate during a damaging impact.



### Features

- Durable cover assembly that provides protection for all internal components and acts as an interface / anchor to the cable clamps
- Unique cable clamp seal to anchor the cable to the cover assembly
- Movable sheath retention bracket keeps cable bends at a minimum
- Accommodates up to four SC/UPC connectors
- Utilizes AFL Telecommunications' Peel & Seal Grommet System™, ensuring a tight fit on various cable diameters while eliminating cumbersome tape and washers



### Specifications

PARAMETER	VALUE
Maximum Cable Diameter	0.65"
Minimum Cable Diameter	0.30"
Maximum Cable Entry	2 ports (one each end)
Overall Dimensions	14" Length x 4" Diameter

### Ordering Information

MODEL #	PART #
LG-55-SC	FC000481-PS



## LG-150 Sealed Fiber Optic Splice Closure

The LG-150 is a sealed dome closure designed for small count fiber splicing ( $\leq 48$  single or 144 mass) in a butt configuration. Utilized in aerial or underground environments where a sealed closure is required, the LG-150 is ideal for express or ring applications and requires no tools for re-entry.

### Features

- Supports stranded loose tube, Uniflex® or ribbon fiber cables in either armored or dielectric configurations
- Installation and re-entry using common hand tools
- Fully sealed to protect fiber and splices ensuring longevity
- Fully kitted with all parts to install five cables
- Designed and tested to Telcordia™ GR-771 requirements
- Rural Utilities Service (RUS) Listed

### Specifications

PARAMETER	VALUE
Splice Capacity (Max.) – Single, Mass, Mechanical	48, 144, n/a
Number of Splice Trays (Max.) – Single, Mass, Mechanical	4, 3, n/a
Cable Entrance Configuration	Butt
Cable Ports	5
Cable Sizes (Max. O.D. - Min. O.D.)	5 (0.70" - 0.30")
Dimensions – (L x D) in. (cm)	18.25 x 8.75 (46.36 x 22.23)
Weight – lbs. (kg)	10.5 (4.76)

### Ordering Information

DESCRIPTION	MODEL #	PART #
LG-150 Sealed Fiber Optic Splice Closure – 36 Single or 144 mass fusion capable, includes (5) cable kits for sealing / retention and a grounding terminal. Cable Grounding Kits, hanger brackets and splice trays not included.	LG-150-U-0	FC000001-PS
LL-2450 Splice Tray – Stores (12) single fusion splices, includes base, cover, (2) six position single splice holders and tie-wraps. Maximum of (3) splice trays in the LG-150.	LL-2450	91957-00
LL-4850 Splice Tray – Stores (8) mass fusion splices, includes base, cover, (2) four position ribbon splice holders and tie-wraps. Maximum of (3) splice trays in the LG-150.	LL-4850	91958-00
LL-1248 Splice Tray – Stores (12) single fusion splices or (4) mass fusion splices, includes base, cover, (2) six position single splice holders, (1) four position ribbon splice holder and tie-wraps. Maximum of (3) splice trays in the LG-150.	LL-1248	911221-00-00
Cable Grounding Kit – Includes harness and hose clamp. One kit needed per cable entry. For use with LG-150/250/350.	CGH-1	FC000003
Cable Grounding Kit (pack of 5) – Includes harness and hose clamp. For use with LG-150/250/350.	CGH-5	FC000040
O-Ring Replacement Kit – For use with LG-150/250.	O-Ring Replacement	FC000004
Universal Aerial Offset Strand Hanger Kit – For use with LG-150/250/350.	Universal Hanger	FC000006
Extended Offset Strand Hanger Kit – For use with LG-150/250/350.	Extended Offset Hanger	FC000209
1X6 Cable Splitter Kit	Splitter	FC000070
Pole or Wall Mount Bracket – For use with LG-150/250/350.	PWK	FC000592
OPGW Cable Bracket Kit	OPGW Bracket	FC000685



## LG-250 Sealed Fiber Optic Splice Closure

The LG-250 is a sealed dome closure designed for medium count fiber splicing (< 96 single or 288 mass) in a butt configuration. Utilized in aerial or underground environments where a sealed closure is required, the LG-250 is ideal for express or ring applications and requires no tools for re-entry.

### Features

- Supports stranded loose tube, Uniflex® or ribbon fiber cables in either armored or dielectric configurations
- Installation and re-entry using common hand tools
- Fully sealed to protect fiber and splices ensuring longevity
- Fully kitted with all parts to install five cables
- Designed and tested to Telcordia™ GR-771 requirements
- Rural Utilities Service (RUS) Listed

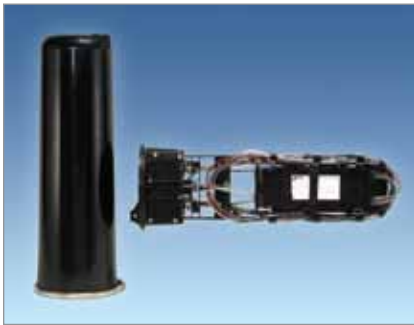
### Specifications

PARAMETER	VALUE
Splice Capacity (Max.) – Single, Mass, Mechanical	96, 288, 36
Number of Splice Trays (Max.) – Single, Mass, Mechanical	4, 2, 3
Cable Entrance Configuration	Butt
Cable Ports	5
Cable Sizes (Max. O.D. - Min. O.D.)	5 (0.70" - 0.30")
Dimensions – (L x D) in. (cm)	19 x 8.75 (48.26 x 22.23)
Weight – lbs. (kg)	11.5 (5.23)

### Ordering Information

DESCRIPTION	MODEL #	PART #
LG-250 Sealed Fiber Optic Splice Closure – 96 Single or 144 mass fusion capable, includes (5) cable kits for sealing / retention and a grounding terminal. Cable Grounding Kits, hanger brackets and splice trays not included.	LG-250-U-0	FC000002-PS
LL-2400 Splice Tray – Stores (24) single fusion splices, includes base, cover, (1) twenty-four position single splice holder and tie-wraps. Maximum of (4) trays in the LG-250.	LL-2400	91710-06
LL-2448 Splice Tray – Stores (24) single fusion or (4) mass fusion splices, includes base, cover, (1) twenty-four position single splice holder, (1) four position ribbon splice holder and tie-wraps. Maximum of (3) trays in the LG-250.	LL-2448	911289-00-02
LL-4848 Splice Tray – Stores (12) mass fusion splices, includes base, cover, (1) twelve position ribbon splice holder and tie-wraps. Maximum of (1) tray in the LG-250.	LL-4848	911437-00-02
Single Fusion Splice Tray for 48 Single Fused Fiber	LL-2448-48S	FA000045
OPL-W Cable Bracket Kit	OPGW Bracket	FC000683
Cable Grounding Kit – Includes harness and hose clamp. One kit needed per cable entry. For use with LG-150/250/350.	CGH-1	FC000003
Cable Grounding Kit (pack of 5) – Includes harness and hose clamp. For use with LG-150/250/350.	CGH-5	FC000040
O-Ring Replacement Kit – For use with LG-150/250.	O-Ring Replacement	FC000004
Universal Aerial Offset Strand Hanger Kit – For use with LG-150/250/350.	Universal Hanger	FC000006
Extended Offset Strand Hanger Kit – For use with LG-150/250/350.	Extended Offset Hanger	FC000209
1X6 Cable Splitter Kit	Splitter	FC000070
Pole or Wall Mount Bracket – For use with LG-150/250/350.	PWK	FC000592
LG-200 Slack Basket for storing excess ribbon slack	LG-200-SL-BSKT	911575-00-00
Terminal Adapter – For use with LG-250.	LLAS-200-12SC	FC000068

\* NOTE: When using LL-2448-48S capacity increases to 144 SF splicer.



## LG-350 Sealed Fiber Optic Splice Closure

The LG-350 is a sealed dome closure designed for large count fiber splicing ( $\leq 384$  single or 1152 mass) in a butt configuration. Utilized in aerial or underground environments where a sealed closure is required, the LG-350 is ideal for express, ring or long haul applications and requires no tools for re-entry.

### Features

- Supports stranded loose tube, Uniflex® or ribbon fiber cables in either armored or dielectric configurations
- Installation and re-entry using common hand tools
- Fully sealed to protect fiber and splices ensuring longevity
- Fully kitted with all parts to install five cables (up to 7 cables using dual port washers)
- Designed and tested to Telcordia™ GR-771 requirements
- Rural Utilities Service (RUS) Listed

### Specifications

PARAMETER	VALUE
Splice Capacity (Max.) – Single, Mass, Mechanical	384, 1152, 108
Number of Splice Trays (Max.) – Single, Mass, Mechanical	12, 8, 8
Cable Entrance Configuration	Butt
Cable Ports / Cable Sizes (Max. O.D. - Min. O.D.)	5 / 7 (using dual cable configuration for Express ports) 2 Express (1.00" - 0.40") 3 Drop (0.80" - 0.30")
Dimensions – (L x D) in. (cm) / Weight - lbs. (kg)	28.0" x 10.0" (71.12 x 25.40) / 14 (6.35)

### Ordering Information

DESCRIPTION	MODEL #	PART #
LG-350 Sealed Fiber Optic Splice Closure – 384 single fusion or 1152 mass fusion capable, includes (5) cable kits for sealing / retention (single and dual cable configurations for express ports) and a grounding terminal. Cable Grounding Kits, hanger brackets and splice trays not included.	LG-350-U-0	FC000009-PS
LL-2400 Splice Tray – Stores (24) single fusion splices, includes base, cover, (1) twenty-four position single splice holder and tie-wraps. Maximum of (12) trays in the LG-350.	LL-2400	91710-06
LL-2448 Splice Tray – Stores (24) single fusion or (4) mass fusion splices, includes base, cover, (1) twenty-four position single splice holder, (1) four position ribbon splice holder and tie-wraps. Maximum of (8) trays in the LG-350.	LL-2448	911289-00-02
LL-4848 Splice Tray – Stores (12) mass fusion splices, includes base, cover, (1) twelve position ribbon splice holder and tie-wraps. Maximum of (6) trays in the LG-350.	LL-4848	911437-00-02
LL-4896 Splice Tray – Stores (96) single fusion splices or (24) mass fusion splices, includes base, cover, (16) six position single splice holders, (6) four position ribbon splice holders and tie-wraps. Maximum of (4) trays using single fusion or (5) trays using mass fusion in the LG-350.	LL-4896	911676-00-02
Cable Grounding Kit – Includes harness and hose clamp. One kit needed per cable entry. For use with LG-150/250/350.	CGH-1	FC000003
Cable Grounding Kit (pack of 5) – Includes harness and hose clamp. For use with LG-150/250/350.	CGH-5	FC000040
O-Ring Replacement Kit – For use with LG-350.	O-Ring LG-300	FC000015
Universal Aerial Offset Strand Hanger Kit – For use with LG-150/250/350.	Universal Hanger	FC000006
Extended Offset Strand Hanger Kit – For use with LG-150/250/350.	Extended Offset Hanger	FC000209
1X6 Cable Splitter Kit	Splitter	FC000070
Pole or Wall Mount Bracket – For use with LG-150/250/350.	PWK	FC000592
Terminal Adapter – For use with LG-350.	LLAS-300-48SC	FC000646
Flat Drop Grommet Kit – For use with standard flat drop cable and round cable up to 0.256" O.D.	Flat Drop Grommet Kit	FC000422
OPGW Cable Bracket Kit	OPGW Bracket	FC000683
LL-2448-48S Splice Tray – Stores (24) single fusion splices. May be installed in the LG-250, LG-350, LG-350-XL, LG-410, LG-500, LG-600 Splice Closures, the LL-400B and LL-400S Distribution Enclosures and the LL-2400 Pedestal.	LL-2448-48S	FA000045
LL-7060 Splice Tray – Stores (60) single fusion splices in an easy-to-use, deep splice tray. For use with the LG-350 and LG-350XL Closures.	LL-7060	FA000042
LL-7144 Splice Tray – Stores (288) mass fusion splices in an easy-to-use, deep splice tray. For use with the LG-350 and LG-350XL Closures.	LL-7144	FA000043
LL-7644 Universal Splice Tray – Stores (60) single fusion splices or (288) mass fusion splices or a combination of both in an easy-to-use, deep splice tray. For use with the LG-350 and LG-350XL Closures.	LL-7644	FA000044



## LG-350XL Sealed Fiber Optic Splice Closure

The LG-350XL is a sealed dome closure designed for large count fiber splicing (up to 864 single or 2592 mass) in a butt configuration. Utilized in aerial or underground environments where a sealed closure is required, the LG-350XL requires no tools for re-entry.

### Specifications

PARAMETER	VALUE					
Splice Capacity (Max.) – Single, Mass, Mechanical	864, 2592, n/a					
Number of Splice Trays (Max.) – Single, Mass, Mechanical	9, 9, n/a					
Cable Entrance Configuration	Butt					
Cable Ports / Cable Sizes (Max. O.D.)	5 ports / 7 with Dual Express Grommet					
	<table border="1"> <tr> <td><b>Express Port</b></td> <td><b>Drop Port</b></td> </tr> <tr> <td>Single 1.18" - 0.40"</td> <td>Single 1.08" - 0.30"</td> </tr> <tr> <td>Double 0.56" - 0.44"</td> <td></td> </tr> </table>	<b>Express Port</b>	<b>Drop Port</b>	Single 1.18" - 0.40"	Single 1.08" - 0.30"	Double 0.56" - 0.44"
<b>Express Port</b>	<b>Drop Port</b>					
Single 1.18" - 0.40"	Single 1.08" - 0.30"					
Double 0.56" - 0.44"						
Dimensions - (L x D) in. (cm) / Weight - lbs. (kg)	31.0" x 12.0 (78.74 x 30.48) / 25 lbs. (11.3 kg)					

### Features

- Can accommodate up to 10 cables
- Supports stranded loose tube, Uniflex® or ribbon fiber cables in either armored or dielectric configurations
- Flanged O-ring and T-bolt V-band for increased protection at 20' waterhead
- Oversized basket allows multiple configurations of slack storage
- Holds Pirelli™ 1152 fiber count cable at a diameter of 1.35"

### Ordering Information

DESCRIPTION	MODEL #	PART #
LG-350XL Sealed Fiber Optic Splice Closure – 864 single fusion or 2592 mass fusion capable, includes (5) cable kits for sealing / retention (single and dual cable configurations) and a grounding terminal. Cable Grounding Kits, hanger brackets and splice trays not included	LG-300XL-U-0	FC000010-PS
LL-4896 Splice Tray – Stores (96) single fusion splices or (24) 288 mass fusion splices, includes base, cover, (16) six position single splice holders, (6) four position ribbon splice holders and tie-wraps. Maximum of (9) trays in the LG-350XL	LL-4896	911676-00-02
Cable Grounding Kit – Includes harness and hose clamp. One kit needed per cable entry. For use with LG-350XL	Single Cable Bonding Kit - 300XL	FC000011
Cable Grounding Kit (pack of 5) – Includes harness and hose clamp. For use with LG-350XL	Cable Bonding Kit - 300XL	FC000041
O-Ring Replacement Kit – For use with LG-300XL	O Ring - 300XL	FC000016
Universal Hanger Bracket – For use with LG-300XL	XL Hanger Bracket	912215-00-00
1X6 Cable Splitter Kit	Splitter	FC000070
LG360XL Oval Axis Express Grommet	Dual Axis Exp	FC000664
LL-2400 Splice Tray – Stores (24) single fusion splices, includes base, cover, (1) twenty-four position single splice holder and tie-wraps. Maximum of (12) trays in the LG-350.	LL-2400	91710-06
LL-2448 Splice Tray – Stores (24) single fusion or (4) mass fusion splices, includes base, cover, (1) twenty-four position single splice holder, (1) four position ribbon splice holder and tie-wraps. Maximum of (8) trays in the LG-350.	LL-2448	911289-00-02
LL-4800 Splice Tray – Stores (4) mass fusion splices, includes base, cover, (1) four position ribbon splice holder and tie-wraps. Maximum of (10) trays in the LG-300XL.	LL-4800	91711-07
LL-4848 Splice Tray – Stores (12) mass fusion splices, includes base, cover, (1) twelve position ribbon splice holder and tie-wraps. Maximum of (6) trays in the LG-350.	LL-4848	911437-00-02
LL-4896 Splice Tray – Stores (96) single fusion splices or (288) mass fusion splices, includes base, cover, (16) six position single splice holders, (6) four position ribbon splice holders and tie-wraps. Maximum of (4) trays using single fusion or (5) trays using mass fusion in the LG-350.	LL-4896	911676-00-02
LL-2448-48S Splice Tray – Stores (24) single fusion splices. May be installed in the LG-250, LG-350, LG-350-XL, LG-410, LG-500, LG-600 Splice Closures, the LL-400B and LL-400S Distribution Enclosures and the LL-2400 Pedestal.	LL-2448-48S	FA000045
LL-7060 Splice Tray – Stores (60) single fusion splices in an easy-to-use, deep splice tray. For use with the LG-350 and LG-350XL Closures.	LL-7060	FA000042
LL-7144 Splice Tray – Stores (288) mass fusion splices in an easy-to-use, deep splice tray. For use with the LG-350 and LG-350XL Closures.	LL-7144	FA000043
LL-7644 Universal Splice Tray – Stores (60) single fusion splices or (288) mass fusion splices or a combination of both in an easy-to-use, deep splice tray. For use with the LG-350 and LG-350XL Closures.	LL-7644	FA000044



Expandable to Support Various Cable Diameters



Ease of Installation (no tapes, washers, or glue)



Multiple Layers of Sealing Protection

## Peel and Seal Grommet Systems™ for Sealed Fiber Optic Closures

AFL Telecommunications in conjunction with Mar-Don Corporation has developed a new cable sealing grommet technology for the AFL Sealed Fiber Optic Closures called “Peel and Seal”. This improved sealing technology utilizes MULTICENTRIC® Grommets that do away with time consuming tasks such as installing washers and messy sealing tapes for cable entry. MULTICENTRIC® Grommets are designed to accept a wide range of cable diameters, eliminating the need to stock a variety of diameter-specific grommet kits.

Conversion kits for the standard LG100, LG200, and LG300 closures allow this exciting new grommet technology to be used without changing out the existing closure.

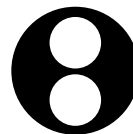
New closure models, LG-150, LG-250, and LG-350 are equipped from the factory with the “Peel and Seal” grommet system.

### Features

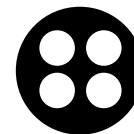
- All Peel and Seal Grommet Systems support loose tube, core tube, dielectric and armored cable designs
- Installation and re-entry using common hand tools
- Accepts a wide range of cable diameters
- Fast and easy to install
- Fits existing AFL sealed closures
- Fully sealed to protect fiber and splices ensuring longevity
- Full conversion kits and dual cable entry port kits
- Designed and tested to Telcordia™ GR-771 & RUS 515 closure requirements



Single



Dual



Quad

### Ordering information

#### SEALED CLOSURE FULL CONVERSION KITS (SINGLE AXIS CABLE ENTRY)

PART #	DESCRIPTION
FC000322	Grommet Kit for LG100 or LG200. (Single cable axis) Cable Diameter Range 0.25" min. to 0.65" max Kit includes sealing grommets, cable retention grommets, band mic and lubricant for five ports
FC000333	Grommet Kit for LG300. (Single cable axis) Express Cable Port Diameter Range 0.38" min. to 1.00" max Drop Cable Port Diameter Range 0.25" min. to 0.83" max Kit includes sealing grommets, cable retention grommets, band mic and lubricant for five ports
FC000001-PS	LG-150 Sealed Closure with new Peel & Seal Grommet Kit
FC000002-PS	LG-250 Sealed Closure with new Peel & Seal Grommet Kit
FC000009-PS	LG-350 Sealed Closure with new Peel & Seal Grommet Kit
FC000421	LG-350 Express Side Quad Grommet Kit
FC000337	LG-350 Express Side Dual Grommet Kit
FC000422	4 Port Drop Grommet (LG-350 / LG-350-AC)
FC000655	3 Port Drop Grommet (LG-150/250)

MULTICENTRIC® is a registered trademark of the Mar-Don Corporation.



## Aerial Weathertight Fiber Optic Splice Closures

The AFL Telecommunications' family of Aerial Weathertight Splice Closures is designed to provide a cost-effective solution for your aerial splicing needs. Quality engineering reduces the installation time, training and complexity associated with fiber splicing in the field. The closures have all been designed to be installed without the need for special tools, heat, adhesives, drills, or any powered equipment. Durable and easy to install, these closures will improve productivity, reduce labor expenses and last the life of the plant.

### Features

- Individual, patented, self-sizing cable grommets and strength member tie downs provide for cable additions without disturbing those previously installed
- Unique tongue-in-groove closure seal and back-to-back grommet design provides for a weathertight and insect seal
- Closures are re-enterable without the need for any re-entry kits, special tools or sealants
- Designed and tested to Telcordia™ GR-771 aerial weathertight closure requirements
- Rural Utilities Service (RUS) Listed

### Specifications

PARAMETER	LG-410-U-0	LG-420-U-0	LG-500-U-0	LG-600-U-0
Splice Capacity (Max.) - Single, Mass	72, 288	12, 48	72, 288	288, 1152
Splice Tray Capacity - Single, Mass	3, 2	n/a, n/a	3, 2	12, 8
Cable Ports	4-8	4-6	4-8	6-12 (6 per end)
Cable Entrance	In-line, Butt	In-line (taut sheath)	In-line, Butt	In-line, Butt
Cable Sizes (O.D.)	4 @ 0.3-0.77" Up to 8 with Dual Grommet Kits 4 @ 0.3-0.65" 4 @ 0.3-0.5"	4 @ 0.3-0.77" Up to 6 with Dual Grommet Kits 2 @ 0.3-0.77" 2 @ 0.3-0.65" 2 @ 0.3-0.5"	4 @ 0.3-0.77" Up to 8 with Dual Grommet Kits 4 @ 0.3-0.65" 4 @ 0.3-0.5"	6 @ 0.4-0.87" Up to 12 with Dual Grommet Kits 6 @ 0.4-0.87" 6 @ 0.5"
CLOSURE TEST <sup>1,2</sup>				
Cable Retention (100 lbs.)	Passed	Passed	Passed	Passed
Impact Resistance (0-40 °C)	Passed	Passed	Passed	Passed
Chemical Resistance	Passed	Passed	Passed	Passed
Cable Flexing	Passed	Passed	Passed	Passed
Dust (Weather Tightness)	Passed	Passed	Passed	Passed
Driving Rain	Passed	Passed	Passed	Passed
Rodent Test	Passed	Passed	Passed	Passed
Dimensions (L x W x D) in. (cm)	36.00 x 8.00 x 4.00 (91.44 x 20.32 x 10.16)	36.00 x 8.00 x 4.00 (91.44 x 20.32 x 10.16)	27.00 x 8.25 x 4.00 (68.58 x 20.96 x 10.16)	27.00 x 11.25 x 7.50 (68.58 x 28.58 x 19.05)
Weight lbs. (kg)	8.5 (3.86)	8.5 (3.86)	6.4 (2.90)	18 (8.16)

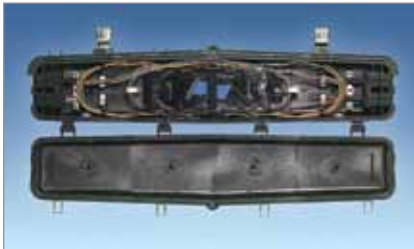
Note 1: Tested to Telcordia™ GR-771-Core and Aerial Strand requirements

Note 2: Not all Telcordia™ tests are listed due to space constraints; All closures are designed and tested to appropriate aerial test requirements



## LG-410 Aerial Weathertight Fiber Optic Splice Closure

The AFL LG-410 Aerial Weathertight Fiber Optic Splice Closure is designed for small to medium count fiber splicing (< 72 single or 288 mass) in aerial applications and provides additional fiber bundle storage with its extended length design.



### Specifications

PARAMETER	VALUE
Splice Capacity (Max.) - Single, Mass	72, 288
Number of Splice Trays (Max.) - Single, Mass	3, 2
Cable Entrance Configuration	In-line, Butt
Cable Ports	4-8
Cable Sizes (Max. O.D. – Min. O.D.)	4 @ 0.3-0.77" Up to 8 with Dual Grommet Kits 4 @ 0.3-0.65" 4 @ 0.3-0.5"
Dimensions - (L x D) in. (cm)	36.00 x 8.00 x 4.00 (91.44 x 20.32 x 10.16)
Weight - lbs. (kg)	8.5 (3.86)

### Features

- Four individual, self-sizing grommeted cable ports (expandable to eight cable entrances)
- Splice trays available for single, mass or mechanical splicing
- Patented tongue-in-groove cover seal system
- Cable retention clamps provide pullout rating required by Telcordia™
- Engineered thermoplastic to meet Telcordia™ aerial and UV resistance requirements
- Rural Utilities Service (RUS) Listed

### Ordering Information

DESCRIPTION	MODEL #	PART #
Aerial Weathertight Universal Fiber Optic Splice Closure, up to 72 Single fusion splices, 4 cable ports expandable to 8. Equipped w/ 4 self sealing ports, (2) grounding terminals and standard length aerial hangars. Does not include splice trays or cable grounding kits.	LG-410-U-0	FC000022
Single Fusion Splice Tray - Stores 24 Single fused fibers (maximum of 3 trays in LG-410)	LL-2400	91710-06
Universal Splice Tray - Stores 24 Single fusion or 4 Mass fusion sleeves/48 Fibers (maximum of 2 trays in LG-410)	LL-2448	911289-00-02
Mass Fusion Splice Tray - Stores 4 Mass fusion sleeves/48 fibers (maximum of 2 trays in LG-410)	LL-4800	91711-07
Single Fusion Splice Tray Stores 48 Single Fused Fibers	LL-2448-48S	FA000045
Cable Grounding Harness - Includes; (4) Harness 8" #6 AWG	CGH-4	FC000024
Dual Grommet Cable Expansion Kit - Includes (2) LG-400 Dual Grommets and Cable Hardware	LG-400-DCEK	911386-00-01
Dual Grommet Replacement Kit - Includes; (10) Dual Grommets for the LG-400 Series Closures	LG-400-Dual-Kit	911495-00-00
Grommet Replacement Kit, Kit - Includes; (10) Standard (single port) Grommets for the LG-400 Series Closures	LG-400-S	911496-00-00
Closure Extension Kit - Used to join multiple closures for extended sheath openings required to repair cable sheath and damaged fibers	LG-400/LG-500	911499-00-00
Extended Aerial Hangar Kit	LG-400/LG-500	911497-00-00
Adjustable Aerial Hanger Bracket Kit	LG-400/LG-500/ LG-600	FC000572



## LG-420 Aerial Weathertight Fiber Optic Splice Closure

The AFL LG-420 Aerial Weathertight Fiber Optic Splice Closure is designed to allow for Taut Sheath (no slack) splicing in aerial applications such as repairing cable sheath and fibers or providing mid-span access.

### Specifications

PARAMETER	VALUE
Splice Capacity (Max.) - Single, Mass	12, 48
Number of Splice Trays (Max.) - Single, Mass	n/a, n/a
Cable Entrance Configuration	In-line (taut sheath)
Cable Ports	4-8
Cable Sizes (Max. O.D. – Min. O.D.)	4 @ 0.3-0.77" Up to 6 with Dual Grommet Kits 2 @ 0.3-0.77" 2 @ 0.3-0.65" 2 @ 0.3-0.5"
Dimensions - (L x D) in. (cm)	36.00 x 8.00 x 4.00 (91.44 x 20.32 x 10.16)
Weight - lbs. (kg)	8.5 (3.86)

### Features

- Four individual, self-sizing grommeted cable ports (expandable to six cable entrances)
- Taut Sheath splice module accommodates up to twelve fusion or mechanical splices and supports storage of up to twelve optical connector adapters
- Patented tongue-in-groove cover seal system
- Cable retention clamps provide pullout rating required by Telcordia™
- Engineered thermoplastic to meet Telcordia™ aerial and UV resistance requirements
- Protective channel allowing taut fibers or bundles to pass through the closure
- Rural Utilities Service (RUS) Listed

### Ordering Information

DESCRIPTION	MODEL #	PART #
Aerial Weathertight Universal Taut Sheath Splice Closure - Includes; (2) 6 fiber single fusion splice organizers, (2) Blank 6 adapter bulkeads (SC style), (2) grounding terminals and 4 individual self sealing ports. Expandable to 8 cable ports. Does not include cable grounding kits.	LG-420-U-0	FC000023
Cable Grounding Harness - Includes; (4) Harness 8" #6 AWG	CGH-4	FC000024
Dual Grommet Cable Expansion Kit - Includes (2) LG-400 Dual Grommets and Cable Hardware	LG-400-DCEK	911386-00-01
Dual Grommet Kit - Includes; LG-400 Series Closures	LG-400-Dual-Kit	911495-00-00
Grommet Replacement Kit, Kit - Includes; (10) Standard (single port) Grommets for the LG-400 Series Closures	LG-400-S	911496-00-00
Closure Extension Kit - Used to join multiple closures for extended sheath openings required to repair cable sheath and damaged fibers	LG-400/LG-500	911499-00-00
Extended Aerial Hangar Kit	LG-400/LG-500	911497-00-00
Adjustable Aerial Hangar Bracket Kit	LG-400/LG-500/ LG-600	FC000572



## LG-500 Aerial Weathertight Fiber Optic Splice Closure

The AFL LG-500 Aerial Weathertight Fiber Optic Splice Closure is designed for small to medium count fiber splicing ( $\leq 72$  single or 288 mass) in aerial applications. Compact in design for congested aerial construction.

### Specifications

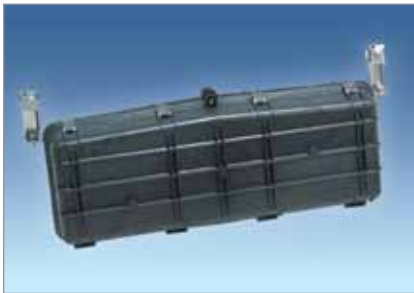
PARAMETER	VALUE
Splice Capacity (Max.) - Single, Mass	144, 288
Number of Splice Trays (Max.) - Single, Mass	3, 2
Cable Entrance Configuration	In-line, Butt
Cable Ports	4-8
Cable Sizes (Max. O.D. – Min. O.D.)	4 @ 0.3-0.77" Up to 8 with Dual Grommet Kits 4 @ 0.3-0.65" 4 @ 0.3-0.5"
Dimensions - (L x D) in. (cm)	27.00 x 8.25 x 4.00 (65.58 x 20.96 x 10.16)
Weight - lbs. (kg)	6.4 (2.90)

### Features

- Four individual, self-sizing grommeted cable ports
- Splice trays available for single, mass or mechanical splicing
- Patented tongue-in-groove cover seal system
- Cable retention clamps provide pullout rating required by Telcordia™
- Engineered thermoplastic to meet Telcordia™ aerial and UV resistance requirements
- Rural Utilities Service (RUS) Listed

### Ordering Information

DESCRIPTION	MODEL #	PART #
Aerial Weathertight Universal Compact Splice Closure - includes; (4) cable retention kits, (2) grounding terminals, (4) self sealing ports and standard aerial hangars. Does not include splice trays or cable grounding kits.	LG-500-U-0	FC000026
Single Fusion Splice Tray - Stores 24 single fused fibers (maximum of 3 trays in LG-500)	LL-2400	91710-06
Universal Splice Tray - Stores 24 Single Fusion or 4 Mass fusion sleeves/48 fibers (maximum of 2 trays in LG-500)	LL-2448	911289-00-02
Mass Fusion Splice Tray - Stores 4 Mass fusion sleeves/48 fibers (maximum of 2 trays in LG-500)	LL-4800	91711-07
Mass Fusion Splice Tray - Stores 12 Mass fusion sleeves/144 fibers (maximum of 2 trays in LG-500)	LL-4848	911437-00-02
Single Fusion Splice Tray - Stores 48 Single Fused Fibers	LL-2448-48S	FA000045
Cable Grounding Harness - Includes; (4) Harness 8" #6 AWG	CGH-4	FC000024
Dual Grommet Kit - Includes; (2) small grommets and hardware)	Dual Grommet Kit	911386-00-01
Closure Extension Kit - Used to join multiple closures for extended sheath openings required to repair cable sheath and damaged fibers	LG-400/LG-500	911499-00-00
Extended Aerial Hangar Kit	LG-400/LG-500	911497-00-00
LG-500 6-Port Drop Cable Kit	6-Port Drop Kit	FC000535
Adjustable Aerial Hangar Kit Brachet Kit	LG-400/LG-500/ LG-600	FC000572



## LG-600 Aerial Weathertight Fiber Optic Splice Closure

The AFL LG-600 Aerial Weathertight Fiber Optic Splice Closure is designed for high count fiber splicing ( $\leq 288$  single or 1152 mass) in aerial applications where a cost-effective high cable entry closure is desired.

### Specifications

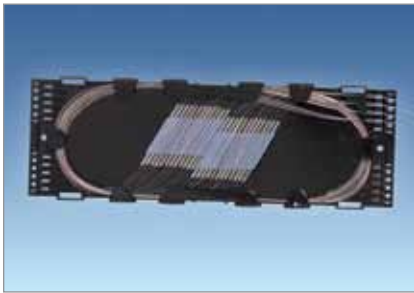
PARAMETER	VALUE
Splice Capacity (Max.) - Single, Mass	288, 1152
Number of Splice Trays (Max.) - Single, Mass	12, 8
Cable Entrance Configuration	In-line, Butt
Cable Ports	4-8
Cable Sizes (Max. O.D. – Min. O.D.)	6 @ 0.4-0.87" Up to 12 with Dual Grommet Kits 6 @ 0.4-0.87" 6 @ 0.5"
Dimensions - (L x D) in. (cm)	27.00 x 11.25 x 7.50 (68.58 x 28.58 x 19.05)
Weight - lbs. (kg)	18 (8.16)

### Ordering Information

DESCRIPTION	MODEL #	PART #
Aerial Weathertight Universal High Capacity Splice Closure - Includes; (4) cable retention kits, (2) grounding terminals, (6) self sealing ports and standard length aerial hangars. Does not include splice trays or cable grounding kits.	LG-600-U-0	FC000029
Single Fusion Splice Tray - Stores 24 Single fused fibers (maximum of 12 trays in LG-600)	LL-2400	91710-06
Universal Splice Tray - Stores 24 Single Fusion or 4 Mass fusion sleeves/48 fibers (maximum of 8 trays in LG-600)	LL-2448	911289-00-02
Mass Fusion Splice Tray - Stores 4 Mass fusion Sleeves/48 fibers) (maximum of 8 trays in LG-600)	LL-4800	91711-07
Mass Fusion Splice Tray - Stores 12 Mass fusion sleeves /144 fibers (maximum of 6 trays in LG-300)	LL-4848	911437-00-02
Single Fusion Splice Tray to Accommodate 48 Splices	LL-2448-48S	FA000045
Cable Grounding Harness - Includes; (4) Harness 8" #6 AWG	CGH-4	FC000024
Dual Grommet Expansion Kit - Includes; (2) Dual Grommets, (1) CSM retention clamp, cable retention clamp and cable spacer	LG-600-DCEK	911406-00-00
Multi-drop Cable Entry Kit - Allows six cable entries 0.23-0.48"	MDG-600	FC000352
Grommet Replacement Kit - Includes; (10) LG-600 Grommets	LG-600-S-Kit	91918-00
Extended Offset Aerial Hangar Kit	LG-600	91990-00
Adjustable Aerial Hangar Bracket Kit	LG-400/LG-500/LG-600	FC000572

### Features

- Six individual, self-sizing grommeted cable ports (expandable to twelve cable entrances)
- Splice trays available for single, mass or mechanical splicing
- Patented tongue-in-groove cover seal system
- Integrated grounding clamp through aerial hangars
- Cable retention clamps provide pullout rating required by Telcordia™
- Engineered thermoplastic to meet Telcordia™ aerial and UV resistance requirements
- Rural Utilities Service (RUS) Listed



## LightLink™ Fiber Optic Splice Trays

AFL's series of Fiber Optic Splice Trays offers a variety of unique and flexible splice and storage possibilities. They are available in industry standard configurations (single, mass).

### Features

- In-line or butt splice capability (see model descriptions)
- Pre-formed radiuses maintain bend requirements
- Interlocking base and cover provides tray stability without the use of a bolt
- Extended finger guides easily store and route loose fiber or ribbon

### Ordering Information – Splice Trays for Sealed Fiber Optic Splice Closures

PART #	MODEL #	DESCRIPTION	LG-55-U	LG-150-U	LG-250-U	LG-350-U	LG-350-AC	LG-350XL-U
FC000053	LL-2425	For LG-55 only - Stores 24 single fused fibers, base, cover, (3) eight position splice holders, tie-wraps	(1 tray max.) 24 Single	N/A	N/A	N/A	N/A	N/A
91957-00	LL-2450	Stores 12 single fused fibers, base, cover, (2) six position splice holders, tie-wraps.	N/A	(3 trays max.) 36 Single	N/A	N/A	N/A	N/A
91958-00	LL4850	Stores 8 mass fusion sleeves, base, deep cover, (2) four position ribbon sleeve holders, tie-wraps.	N/A	(3 trays max.) 144 Mass	N/A	N/A	N/A	N/A
911221-00-00	LL-1248	Stores 12 single fused fibers or 4 mass fusion sleeves (48 fibers), base, cover, sleeve holders, tie-wraps.	N/A	(3 trays max.) 36 Single or 48 Mass	N/A	N/A	N/A	N/A
91710-06	LL-2400	Stores 24 single fused fibers, base, cover, (1) twenty-four position sleeve holder, base, cover, tie-wraps.	N/A	N/A	(4 trays max.) 96 Single	(12 trays max.) 288 Single	N/A	(16 trays max.) 384 Single
FA000037	LL-4808L-R	Stores 36 single fused fibers or 12 mass fusion sleeves (144 Fibers), sleeve holders, base, cover, tie-wraps.	N/A	N/A	N/A	N/A	(4 trays max.) 144 Single (3 trays max.) 432 Mass	N/A
911289-00-02	LL-2448	Stores 24 single fused fibers or 4 mass fusion sleeves (48 Fibers), base, deep cover, tie-wraps).	N/A	N/A	(3 trays max.) 72 Single or 144 Mass	(8 trays max.) 192 Singl or 384 Mass	N/A	(10 trays max.) 240 Single or 480 Mass
FA000045	LL-2448-48S	High density. Stores 48 single fused fibers, base, cover, (2) twenty-four position sleeve holders, tie-wraps.	N/A	N/A	(2 trays max.) 96 Single	(6 trays max.) 288 Single	N/A	(18 trays max.) 864 Single
911437-00-02	LL-4848	Stores 12 mass fusion sleeves (144 fibers), base, deep cover, (1) 12 position sleeve holder, tie-wraps.	N/A	N/A	(2 trays max.) 288 Mass*	(8 trays max.) 1152 Mass	N/A	(10 trays max.) 1440 Mass
911676-00-02	LL-4896	High Density. Stores 96 single fused fibers or 24 mass fusion sleeves (288 Fibers), base, cover, (16) six position sleeve holders, (6) four position mass sleeve holders, tie-wraps.	N/A	N/A	N/A	(4 trays max.) 384 Single or 576 Mass** (5 trays max.) 480 Single 720 Mass***	N/A	(9 trays max.) 864 Single or 2592 Mass**
FA000042	LL-7060	Stores 60 single fused fibers, base, cover, (10) splice holders, tie-wraps.	N/A	N/A	N/A	(5 trays max.) 288 Single	N/A	(15 trays max.) 864 Single
FA000043	LL-7144	Stores 12 mass fusion sleeves (144 fibers), base, cover, mass splice holders, tie-wraps.	N/A	N/A	N/A	(2 trays max.) 288 Mass	N/A	(9 trays max.) 1296 Mass
FA000044	LL-7644	Stores 60 single fused fibers or 12 mass fusion sleeves (144 fibers) or in combination, base, cover, splice holders, tie-wraps.	N/A	N/A	N/A	(5 trays max.) 288 Single (2 trays max.) 288 Mass	N/A	(15 trays max.) 864 Single (9 trays max.) 1296 Mass

NOTES: \* Recommended no more than two trays in the LG-250 due to unique ribbon to ribbon application.  
 \*\* This tray designed for LG-350 and LG-350XL only. The LG-350 requires special tray support bracket (either 911975 Standard or 911974 High Capacity)  
 \*\*\* Five trays can be installed in the LG-350 but it requires a 911974 High Capacity Support Bracket to allow for stacking all trays and not interfering with the dome.

## LightLink™ Fiber Optic Splice Trays

### Ordering information – Splice Trays for Aerial Weathertight Fiber Optic Splice Closures

PART #	MODEL #	DESCRIPTION	LG-410-U	LG-420-U	LG-500-U	LG-600-U
91710-06	LL-2400	Single Fusion Splice Tray - Stores 24 single fused fibers, base, cover, (1) twenty-four position fusion splice holder, tie-wraps.	(3 trays max.) 72 Single	N/A	(3 trays max.) 72 Single	(12 trays max.) 288 Single
911289-00-02	LL-2448	Universal Splice Tray - Stores 24 single fused fibers or 4 mass fusion sleeves (48 fibers), base, deep cover, tie-wraps.	(2 trays max.) 48 Single or 96 Mass	N/A	(2 trays max.) 48 Single or 96 Mass	(8 trays max.) 192 Single or 384 Mass
911437-00-02	LL-4848	Mass Fusion Splice Tray - Stores 12 mass fusion sleeves (144 fibers) Base, deep cover, (1) 12 position mass sleeve holder, tie-wraps.	(2 trays max.) 288 Mass	N/A	(2 trays max.) 288 Mass	(8 trays max.) 1152 Mass

### Ordering Information – Splice Tray for Splicing Cabinets and Shelves

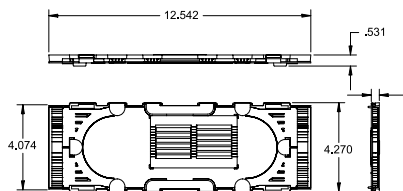
DESCRIPTION	MODEL #	PART #
Telescoping Splice Tray - Stores up to 48 single fusion sleeves or 12 mass fusion sleeves (144 fibers). For use in the following products; LL-300, LL-288/576, LL-720/1440, OTSS-SYS1, OSS-SYS2 and OSS-SYS1.	STF-48	911442-00-00

### Ordering Information – Splice Tray Accessories

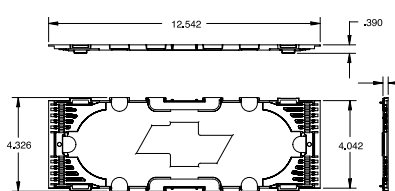
DESCRIPTION	MODEL #	PART #
40mm Fiber Protection Fusion Splice Sleeves, Telcordia™ compliant (50 pcs. per bag)	FP-03(40)	S000206
60mm Fiber Protection Fusion Splice Sleeves, Telcordia™ compliant (50 pcs. per bag)	FP-03	S000065
Core Tube Cable Fiber Router for routing fiber up to 8 directions. For all central core tube sizes.	1X8-CTR	911167-02
Loose Tube or Ribbon Router for routing fiber up to 6 directions. For all Loose Tube and up to 12 fiber Ribbon.	1X6-LRR	912085-00-00

### Dimensions

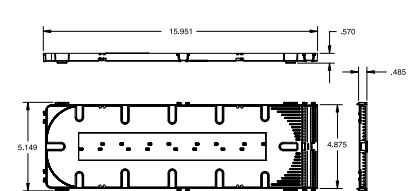
LL-2448 and LL-4848 Splice Trays



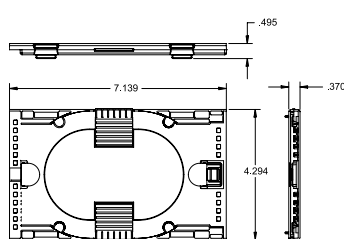
LL-2400 Splice Tray



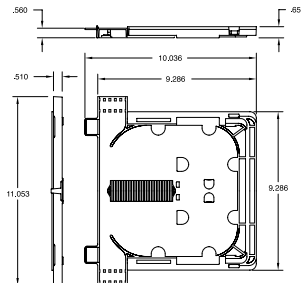
LL-4896 Splice Tray



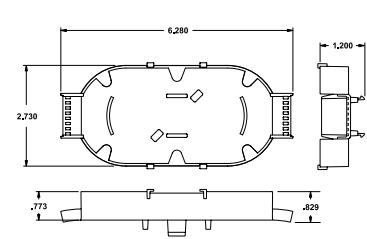
LL-1248, LL-2450 and LL-4850 Splice Trays



OEE Splice Tray



LL-2425 Splice Tray



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## LightLink™ Fiber Optic Splice Trays

### LL-2425

Splice Tray for use in the LG-55 Sealed Closure. Stores 24 single fusion sleeves.



### LL-2450

Splice Tray for use in the LG-150 Sealed Closure. Stores 12 single fusion sleeves.



### LL-4850

Splice Tray for use in the LG-150 Sealed Closure. Stores 8 mass fusion sleeves (96 fibers).



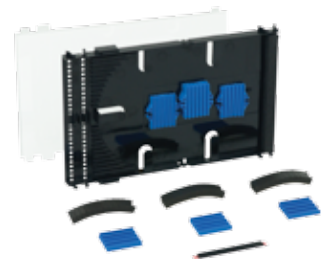
### LL-1248

Universal Splice Tray for use in the LG-150 Sealed Closure. Stores 12 single fusion sleeves or 4 mass fusion sleeves (48 fibers).



### LL-4808L-R

Universal Splice Tray for use in the LG-350-AC and LL-500-DS. Stores 36 single fusion sleeves or 12 mass fusion sleeves (144).



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## LightLink™ Fiber Optic Splice Trays

### LL-2400

Splice Tray for storage of 24 single fusion sleeves.



### LL-2448

Splice Tray for storage of 24 single fusion sleeves or 4 mass fusion sleeves (48 fibers).



### LL-2448-48S

Splice Tray for storage of 48 single fusion sleeves.



### LL-4848

Splice Tray for storage of 12 mass fusion sleeves (144 fibers).



### LL-4896

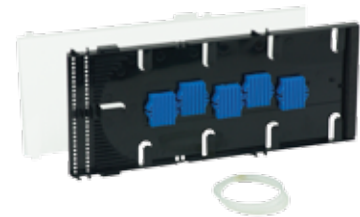
Splice Tray for storage of 96 single fusion sleeves or up to 24 mass fusion sleeves (288 fibers).



## LightLink™ Fiber Optic Splice Trays

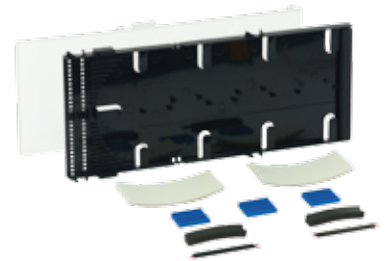
### LL-7060

Splice Tray for use in the LG-350 and LG-350XL Sealed Closures. Extra deep tray stores up to 60 single fusion sleeves.



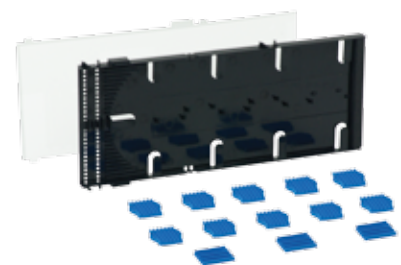
### LL-7144

Splice Tray for use in the LG-350 and LG-350XL Sealed Closures. Extra deep tray stores up to 12 mass fusion sleeves (144 fibers).



### LL-7644

Splice Tray for use in the LG-350 and LG-350XL Sealed Closures. Extra deep tray stores up to 60 single fusion sleeves or 12 mass fusion sleeves (144 fibers) or in combination.



### OEE Telescoping Splice Tray

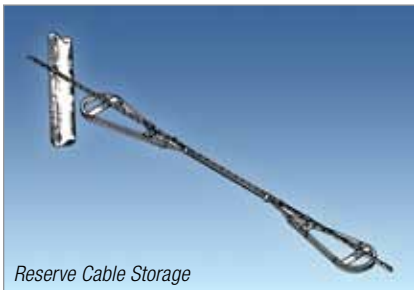
OEE telescoping splice tray stores up to 48 single fusion sleeves or 12 mass fusion sleeves (144 fibers). Used in the following products: OEE-288/576, OEE-720/1440, Patch and Splice Panels





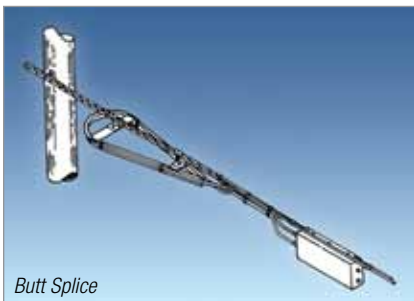
## Fiber Storage Units

AFL Fiber Storage Units (FSU) are used to conveniently and safely store an extra length of cable along the support strand for later use. Furnished as pairs (kit contains two Fiber Storage Units and two sets of hanger brackets), these FSU's are constructed from either aluminum with a baked acrylic enamel finish or dielectric polypropylene with a UV inhibitor. All basic hardware for attachment to the support strand is provided. Strand mount support brackets meet Telcordia® specifications. Galvanized strand clamping devices accommodate 1/4" to 7/16" strand and meet ASTM specifications A153 and B695.



### Features

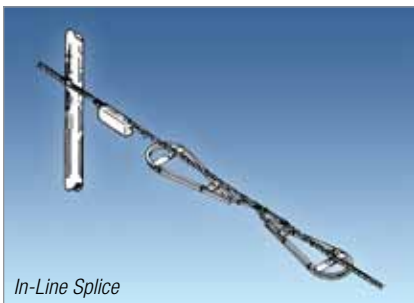
- Small profile and side facing channel minimizes ice and leaf loading
- Metal versions feature an all aluminum construction with welded cross members and baked acrylic enamel paint finish with chromate pre-finish per MIL-6-5541-B
- Plastic versions feature thermoplastic polypropylene resin with carbon black UV inhibitor
- Basic hanging hardware (bolts, nuts, washers) and strand clamps all included
- Tie-wrap slots for securing cable from sliding
- Galvanized strand clamps accommodate 1/4" to 7/16" strand



### Specifications

PARAMETER	FSU-10	FSU-12	FSU-16	FSU-18	FSU-20
Nom. Channel Width in. (cm)	0.63 (1.60)	0.92 (2.34)	1.12 (2.84)	1.75 (4.45)	1.75 (4.45)
Min. Bend Diameter in. (cm)	10 (25.4)	12 (30.48)	16 (40.64)	18 (45.72)	20 (50.80)

PARAMETER	FOSP-12-TMK	FOSP-17-TMK
Nom. Channel Width in. (cm)	0.63 (1.59)	0.95 (2.41)
Min. Bend Diameter in. (cm)	12.13 (30.80)	17.5 (44.45)



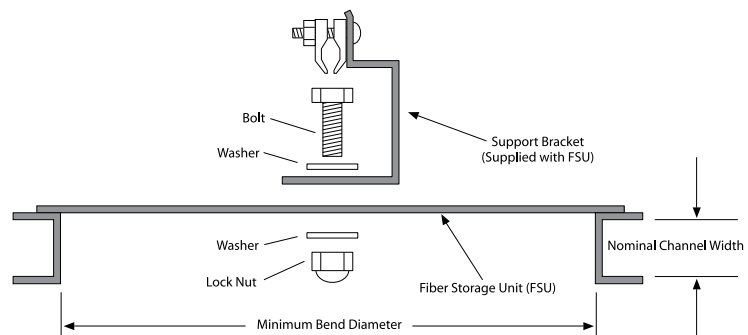
### Ordering Information

DESCRIPTION	FSU-10	FSU-12	FSU-16	FSU-18	FSU-20
FSU Kit	911107-00	911108-00	911109-00	911110-00	911944-00-00

DESCRIPTION	FOSP-12-TMK	FOSP-17-TMK
FOSP Kit (Dielectric)	FA000004	FA000002

Kits contain one pair of either FSU or FOSP and four mount brackets.

### Hardware Diagram





## Sheath Stripper

The Fiber Optic Sheath Stripper is designed to longitudinally score the tight structure fiber units within certain AFL OPGW designs. A simple pull of the Sheath Stripper along the fiber unit ensures correct score depth allowing for easy removal of the overall unit sheath and access to the enclosed fibers. The reusable unit is easy to maintain and adjust. The kit includes the sheath stripper, replacement blades, adjustment tool, instructions and fiber unit samples for practice and blade adjustments.

### Ordering Information

SHEATH SIZE (MM)	UNIT FIBER COUNT	PART NO.
2.0	6 - 8	SSA2.0
2.5	10 - 12	SSA2.5

Note: For AlumaCore OPGW with a 12 fiber optical unit, order part number SSA2.5.



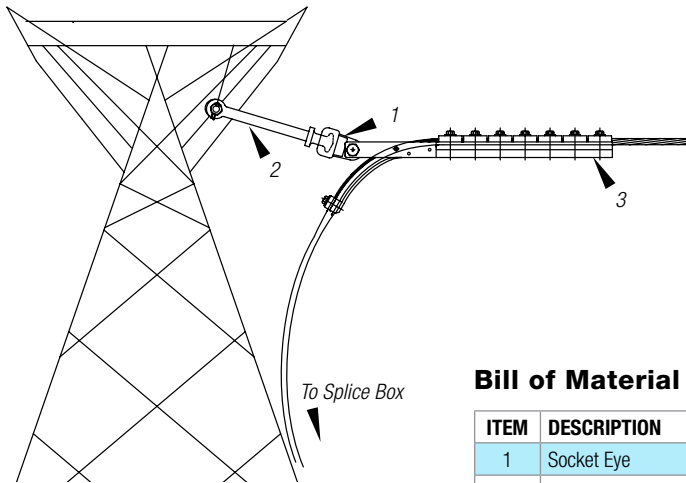
## Stainless Steel Tube Cutter

AFL Telecommunications offers a Stainless Steel Tube cutter that is used to access the fiber in our stainless steel tubes. The compact design and hardened steel blades make this a durable, easy to use tool.

### Ordering Information

DESCRIPTION	PART NO.
Stainless Steel Tube Cutter	SSCUTTER

## OPGW Single Dead End Lattice Tower Configuration Assemblies

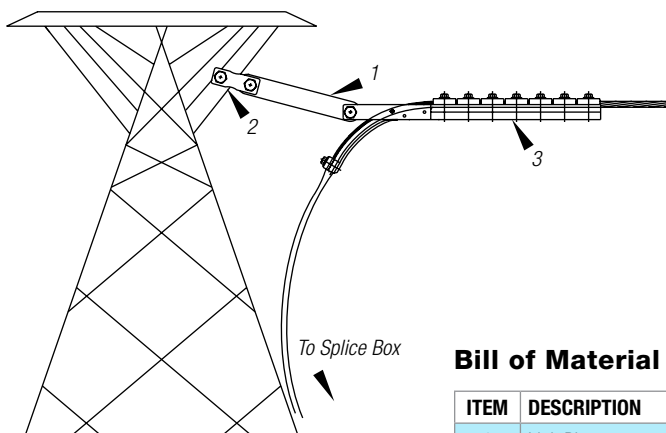


### Part Number

**OLTDE1** - **DNOXXXX**  
 Assembly Code      Cable Spec. Number

### Bill of Material

ITEM	DESCRIPTION	MATERIAL	CAT. OR DWG. #	REQ'D	REMARKS
1	Socket Eye	Galvanized Steel	SE-BDE	1	
2	Y-Clevis Ball Hot Link	Galvanized Steel	YCBHL	1	Pin Dia. = 0.75" (19mm)
3	Bolted Dead End (Included)	Aluminum	Determined by AFL	1	



### Part Number

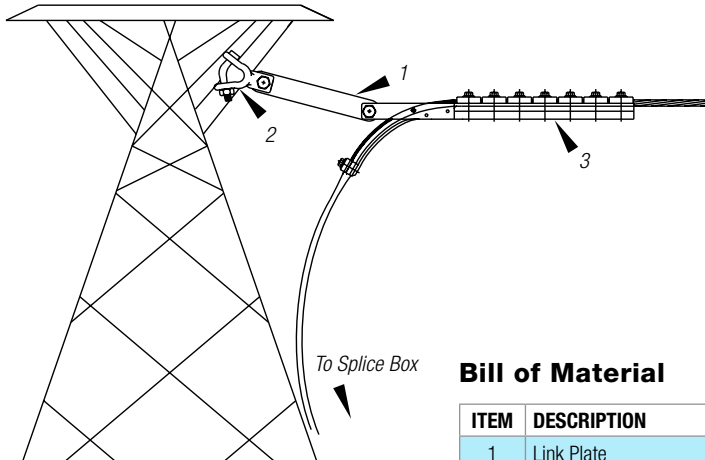
**OLTDE2** - **DNOXXXX**  
 Assembly Code      Cable Spec. Number

### Bill of Material

ITEM	DESCRIPTION	MATERIAL	CAT. OR DWG. #	REQ'D	REMARKS
1	Link Plate	Aluminum	ODELP10	1	
2	Y-Clevis Clevis	Galvanized Steel	YCC	1	Pin Dia. = 0.75" (19mm)
3	Bolted Dead End (Included)	Aluminum	Determined by AFL	1	

Accessories enlarged for clarity

## OPGW Single Dead End Lattice Tower Configuration Assemblies



### Part Number

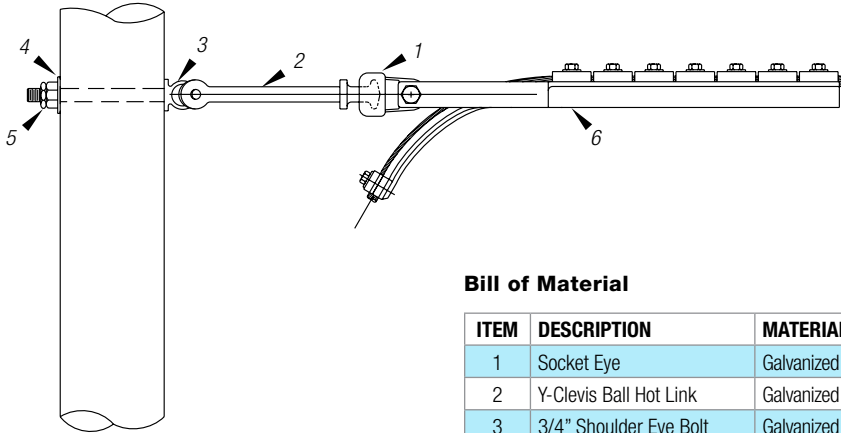
**OLTDE3** - **DNOXXXX**  
 Assembly Code      Cable Spec. Number

### Bill of Material

ITEM	DESCRIPTION	MATERIAL	CAT. OR DWG. #	REQ'D	REMARKS
1	Link Plate	Aluminum	ODELP10	1	
2	Y-Clevis Clevis 90	Galvanized Steel	YCC-90	1	Pin Dia. = 0.75" (19mm)
3	Bolted Dead End (Included)	Aluminum	Determined by AFL	1	

Accessories enlarged for clarity

## OPGW Single Dead End Wood Pole/ H-Frame Configuration Assemblies

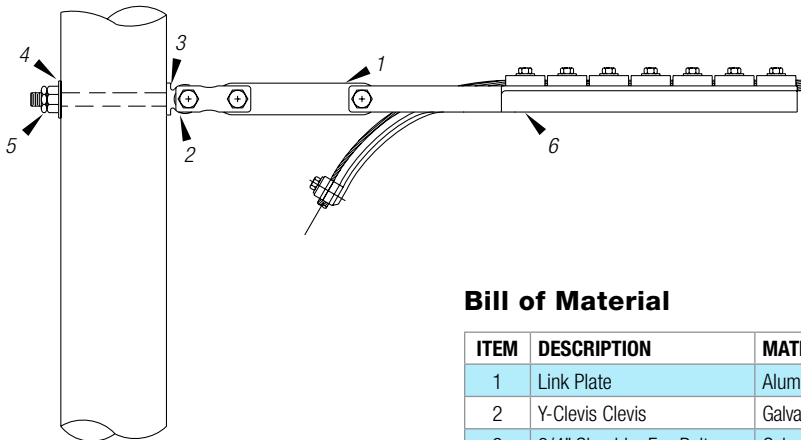


**Part Number**

**OWPDE1** - **DNOXXXX**  
 Assembly Code      Cable Spec. Number

**Bill of Material**

ITEM	DESCRIPTION	MATERIAL	CAT. OR DWG. #	REQ'D	REMARKS
1	Socket Eye	Galvanized Steel	SE-BDE	1	
2	Y-Clevis Ball Hot Link	Galvanized Steel	YCBHL	1	Pin Dia. = 0.75" (19mm)
3	3/4" Shoulder Eye Bolt	Galvanized Steel	SEB-3/4-14	1	Length = 14"
4	3/4" Washer Nut	Galvanized Steel	WN-3/4	1	
5	3/4" MF Lock Nut	Galvanized Steel	LN-3/4	1	
6	Bolted Deadend (Included)	Aluminum	Determined by AFL	1	



**Part Number**

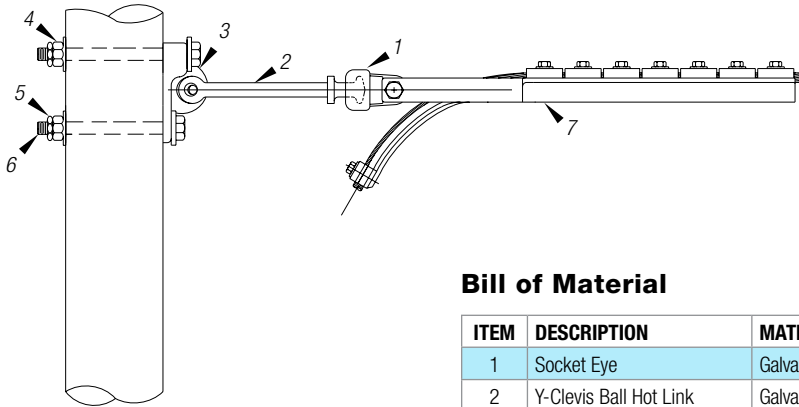
**OWPDE2** - **DNOXXXX**  
 Assembly Code      Cable Spec. Number

**Bill of Material**

ITEM	DESCRIPTION	MATERIAL	CAT. OR DWG. #	REQ'D	REMARKS
1	Link Plate	Aluminum	ODELP10	1	
2	Y-Clevis Clevis	Galvanized Steel	YCC	1	Pin Dia. = 0.75" (19mm)
3	3/4" Shoulder Eye Bolt	Galvanized Steel	SEB-3/4-14	1	Length = 14"
4	3/4" Washer Nut	Galvanized Steel	WN-3/4	1	
5	3/4" MF Lock Nut	Galvanized Steel	LN-3/4	1	
6	Bolted Deadend (Included)	Aluminum	Determined by AFL	1	

Accessories enlarged for clarity

## OPGW Single Dead End Wood Pole/ H-Frame Configuration Assemblies

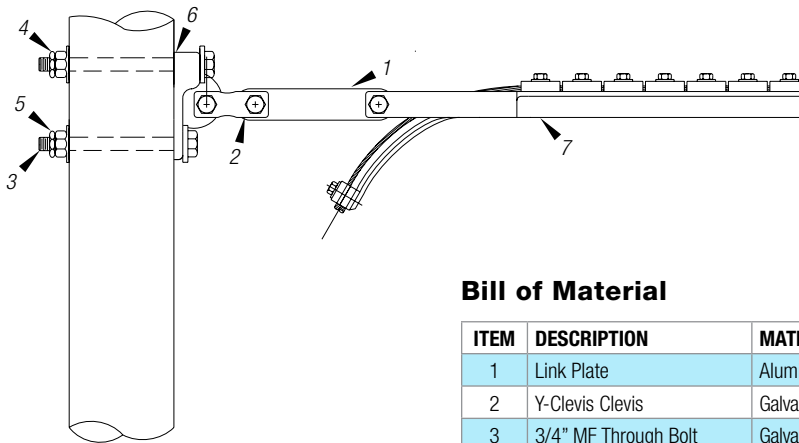


### Part Number

**OWPDE3** - **DNOXXXX**  
 Assembly Code      Cable Spec. Number

### Bill of Material

ITEM	DESCRIPTION	MATERIAL	CAT. OR DWG. #	REQ'D	REMARKS
1	Socket Eye	Galvanized Steel	SE-BDE	1	
2	Y-Clevis Ball Hot Link	Galvanized Steel	YCBHL	1	Pin Dia. = 0.75" (19mm)
3	Eye Plate	Galvanized Steel	EP1	1	
4	3/4" Washer Nut	Galvanized Steel	WN-3/4	2	
5	3/4" MF Lock Nut	Galvanized Steel	LN-3/4	2	
6	3/4" MF Through Bolt	Galvanized Steel	TB-3/4-14	2	Length = 14"
7	Bolted Deadend (Included)	Aluminum	Determined by AFL	1	



### Part Number

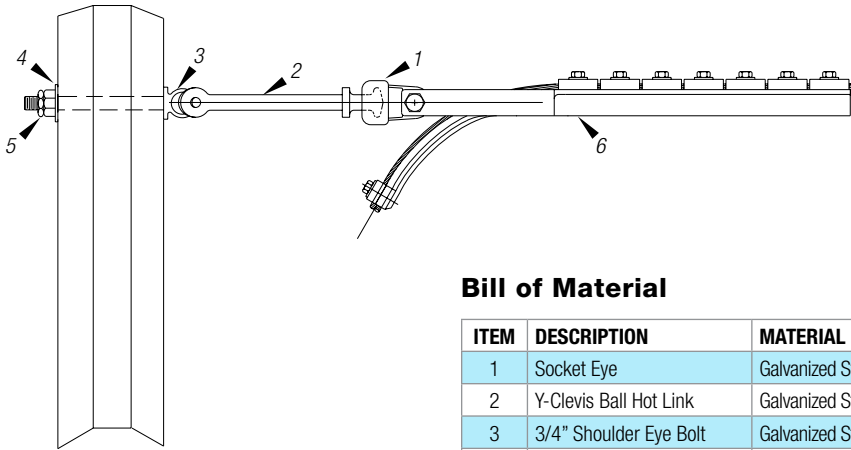
**OWPDE4** - **DNOXXXX**  
 Assembly Code      Cable Spec. Number

### Bill of Material

ITEM	DESCRIPTION	MATERIAL	CAT. OR DWG. #	REQ'D	REMARKS
1	Link Plate	Aluminum	ODELP10	1	
2	Y-Clevis Clevis	Galvanized Steel	YCC	1	Pin Dia. = 0.75" (19mm)
3	3/4" MF Through Bolt	Galvanized Steel	TB-3/4-14	2	Length = 14"
4	3/4" Washer Nut	Galvanized Steel	WN-3/4	2	
5	3/4" MF Lock Nut	Galvanized Steel	LN-3/4	2	
6	Eye Plate	Galvanized Steel	EP1	1	
7	Bolted Deadend (Included)	Aluminum	Determined by AFL	1	

Accessories enlarged for clarity

## OPGW Single Dead End Steel Pole/ Drilled Configuration Assemblies

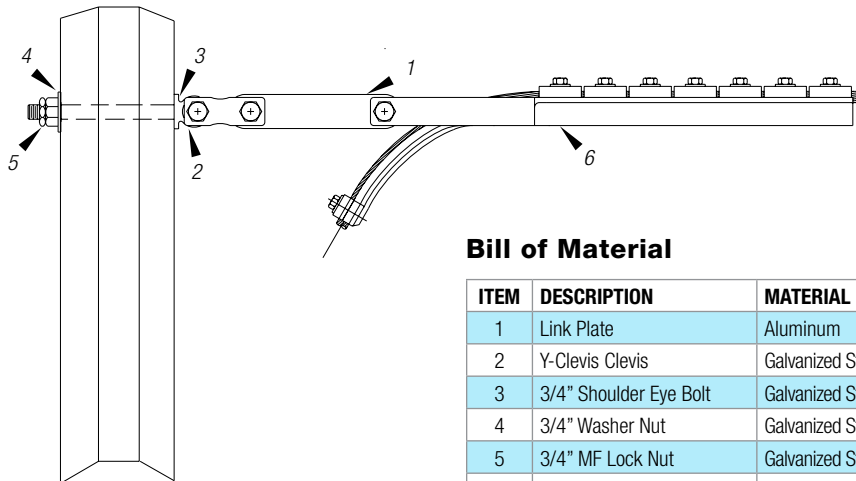


### Part Number

**OSPDE1** - **DNOXXXX**  
Assembly Code - Cable Spec. Number

### Bill of Material

ITEM	DESCRIPTION	MATERIAL	CAT. OR DWG. #	REQ'D	REMARKS
1	Socket Eye	Galvanized Steel	SE-BDE	1	
2	Y-Clevis Ball Hot Link	Galvanized Steel	YCBHL	1	Pin Dia. = 0.75" (19mm)
3	3/4" Shoulder Eye Bolt	Galvanized Steel	SEB-3/4-14	1	Length = 14"
4	3/4" Washer Nut	Galvanized Steel	WN-3/4	1	
5	3/4" MF Lock Nut	Galvanized Steel	LN-3/4	1	
6	Bolted Deadend (Included)	Aluminum	Determined by AFL	1	



### Part Number

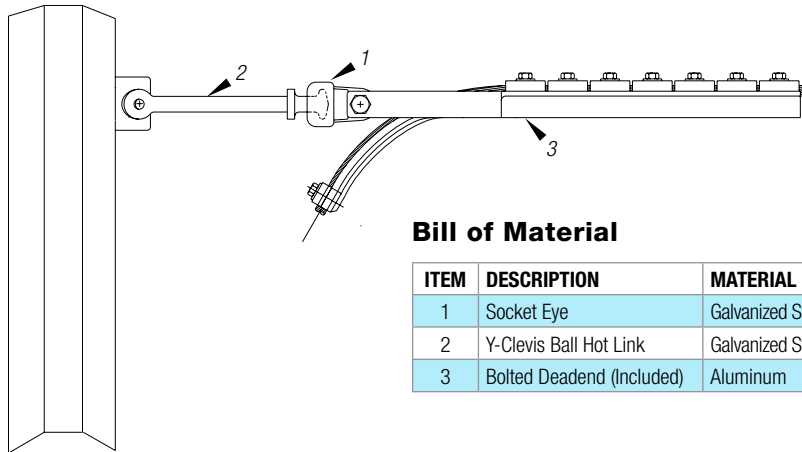
**OSPDE2** - **DNOXXXX**  
Assembly Code - Cable Spec. Number

### Bill of Material

ITEM	DESCRIPTION	MATERIAL	CAT. OR DWG. #	REQ'D	REMARKS
1	Link Plate	Aluminum	ODELP10	1	
2	Y-Clevis Clevis	Galvanized Steel	YCC	1	Pin Dia. = 0.75" (19mm)
3	3/4" Shoulder Eye Bolt	Galvanized Steel	SEB-3/4-14	1	Length = 14"
4	3/4" Washer Nut	Galvanized Steel	WN-3/4	1	
5	3/4" MF Lock Nut	Galvanized Steel	LN-3/4	1	
6	Bolted Deadend (Included)	Aluminum	Determined by AFL	1	

Accessories enlarged for clarity

## OPGW Single Dead End Steel Pole/ Vang Configuration Assemblies

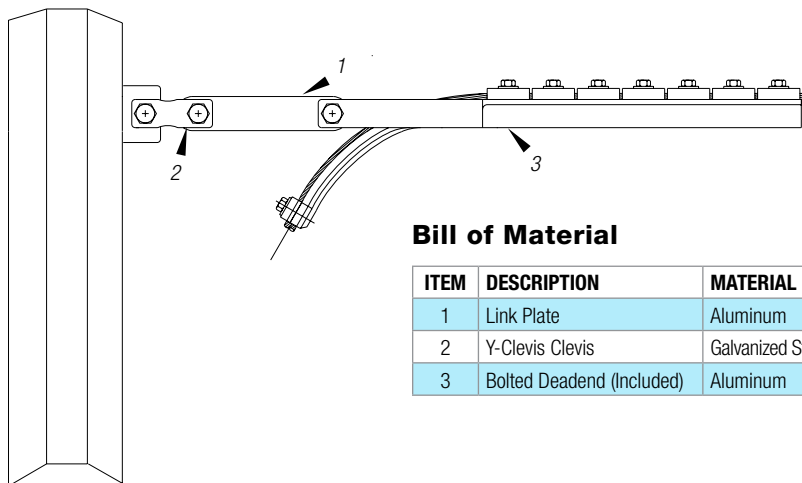


### Part Number

**OSPDE3** - **DNOXXXX**  
 Assembly Code      Cable Spec. Number

### Bill of Material

ITEM	DESCRIPTION	MATERIAL	CAT. OR DWG. #	REQ'D	REMARKS
1	Socket Eye	Galvanized Steel	SE-BDE	1	
2	Y-Clevis Ball Hot Link	Galvanized Steel	YCBHL	1	Pin Dia. = 0.75" (19mm)
3	Bolted Deadend (Included)	Aluminum	Determined by AFL	1	



### Part Number

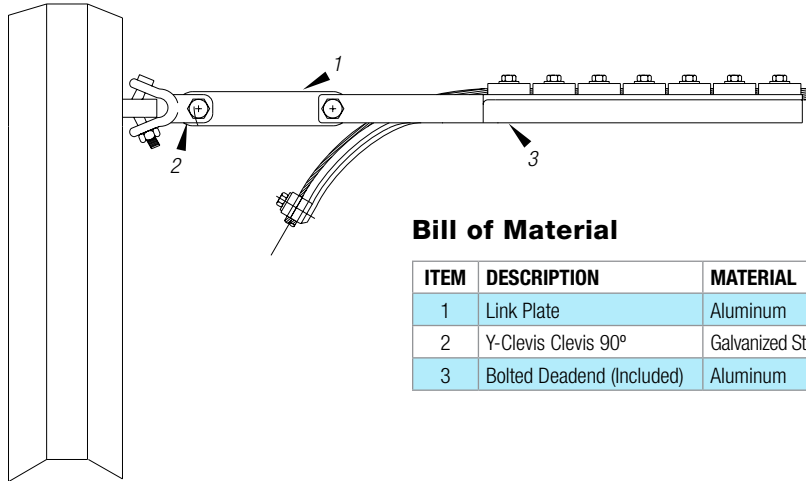
**OSPDE4** - **DNOXXXX**  
 Assembly Code      Cable Spec. Number

### Bill of Material

ITEM	DESCRIPTION	MATERIAL	CAT. OR DWG. #	REQ'D	REMARKS
1	Link Plate	Aluminum	ODEL P10	1	
2	Y-Clevis Clevis	Galvanized Steel	YCC	1	Pin Dia. = 0.75" (19mm)
3	Bolted Deadend (Included)	Aluminum	Determined by AFL	1	

Accessories enlarged for clarity

## OPGW Single Dead End Steel Pole/ Vang Configuration Assemblies



**Part Number**

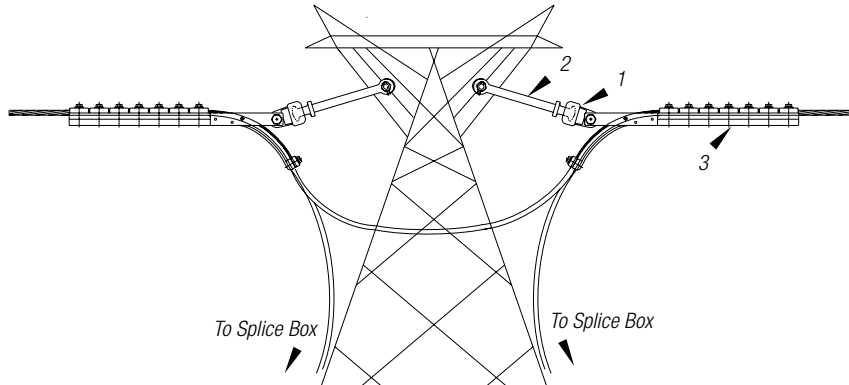
**OSPDE5** - **DNOXXXX**  
 Assembly Code      Cable Spec. Number

**Bill of Material**

ITEM	DESCRIPTION	MATERIAL	CAT. OR DWG. #	REQ'D	REMARKS
1	Link Plate	Aluminum	ODELP10	1	
2	Y-Clevis Clevis 90°	Galvanized Steel	YCC-90	1	Pin Dia. = 0.75" (19mm)
3	Bolted Deadend (Included)	Aluminum	Determined by AFL	1	

Accessories enlarged for clarity

## OPGW Double Dead End Lattice Tower Configuration Assemblies

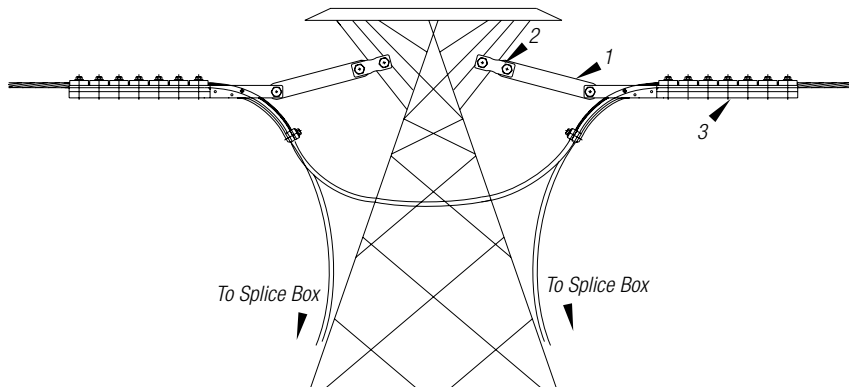


### Part Number

**OLTDD1** - **DNOXXXX**  
 Assembly Code      Cable Spec. Number

### Bill of Material

ITEM	DESCRIPTION	MATERIAL	CAT. OR DWG. #	REQ'D	REMARKS
1	Socket Eye	Galvanized Steel	SE-BDE	2	
2	Y-Clevis Ball Hot Link	Galvanized Steel	YCBHL	2	Pin Dia. = 0.75" (19mm)
3	Bolted Dead End (Included)	Aluminum	Determined by AFL	2	



### Part Number

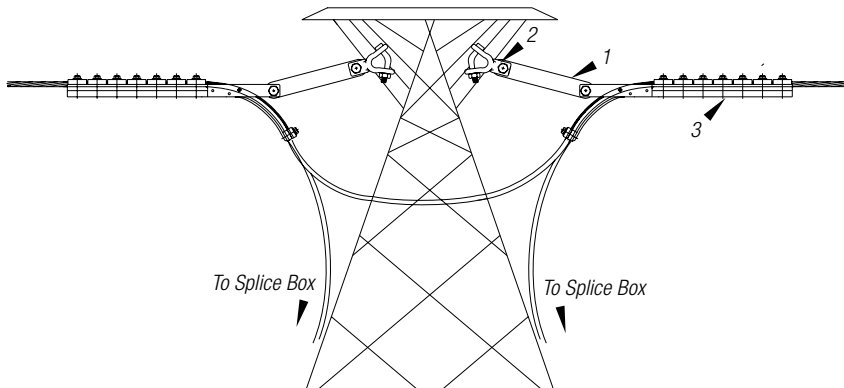
**OLTDD2** - **DNOXXXX**  
 Assembly Code      Cable Spec. Number

### Bill of Material

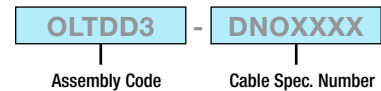
ITEM	DESCRIPTION	MATERIAL	CAT. OR DWG. #	REQ'D	REMARKS
1	Link Plate	Aluminum	ODEL10	2	
2	Y-Clevis Clevis	Galvanized Steel	YCC	2	Pin Dia. = 0.75" (19mm)
3	Bolted Dead End (Included)	Aluminum	Determined by AFL	2	

Accessories enlarged for clarity

## OPGW Double Dead End Lattice Tower Configuration Assemblies



### Part Number

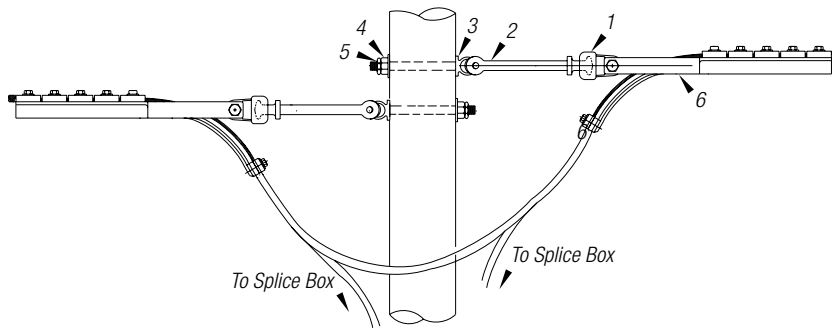


### Bill of Material

ITEM	DESCRIPTION	MATERIAL	CAT. OR DWG. #	REQ'D	REMARKS
1	Link Plate	Aluminum	ODEL10	2	
2	Y-Clevis Clevis 90	Galvanized Steel	YCC-90	2	Pin Dia. = 0.75" (19mm)
3	Bolted Dead End (Included)	Aluminum	Determined by AFL	2	

Accessories enlarged for clarity

## OPGW Double Dead End Wood Pole/ H-Frame Configuration Assemblies

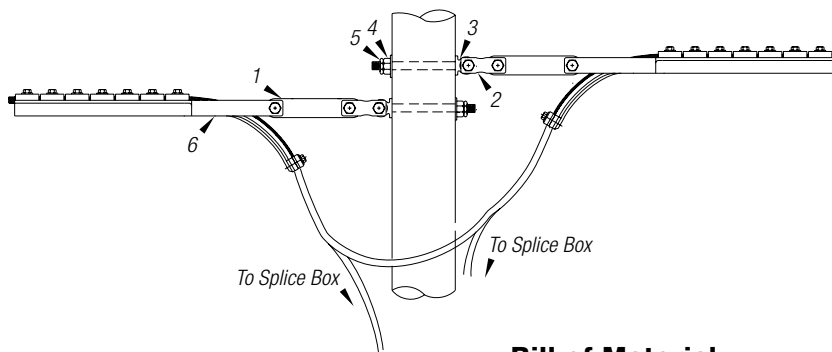


### Part Number

**OWPDD1** - **DNOXXXX**  
 Assembly Code      Cable Spec. Number

### Bill of Material

ITEM	DESCRIPTION	MATERIAL	CAT. OR DWG. #	REQ'D	REMARKS
1	Socket Eye	Galvanized Steel	SE-BDE	2	
2	Y-Clevis Ball Hot Link	Galvanized Steel	YCBHL	2	Pin Dia. = 0.75" (19mm)
3	3/4" Shoulder Eye Bolt	Galvanized Steel	SEB-3/4-14	2	Length = 14"
4	3/4" Washer Nut	Galvanized Steel	WN-3/4	2	
5	3/4" MF Lock Nut	Galvanized Steel	LN-3/4	2	
6	Bolted Deadend (Included)	Aluminum	Determined by AFL	2	



### Part Number

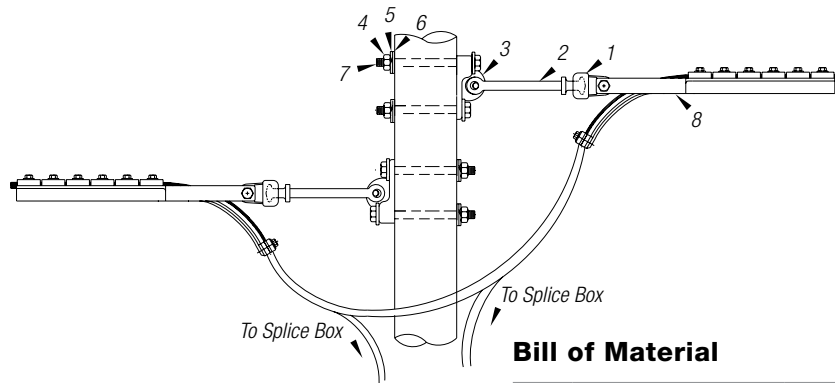
**OWPDD2** - **DNOXXXX**  
 Assembly Code      Cable Spec. Number

### Bill of Material

ITEM	DESCRIPTION	MATERIAL	CAT. OR DWG. #	REQ'D	REMARKS
1	Link Plate	Aluminum	ODELP10	2	
2	Y-Clevis Clevis	Galvanized Steel	YCC	2	Pin Dia. = 0.75" (19mm)
3	3/4" Shoulder Eye Bolt	Galvanized Steel	SEB-3/4-14	2	
4	3/4" Washer Nut	Galvanized Steel	WN-3/4	2	
5	3/4" MF Lock Nut	Galvanized Steel	LN-3/4	2	
6	Bolted Deadend (Included)	Aluminum	Determined by AFL	2	

Accessories enlarged for clarity

## OPGW Double Dead End Wood Pole/ H-Frame Configuration Assemblies

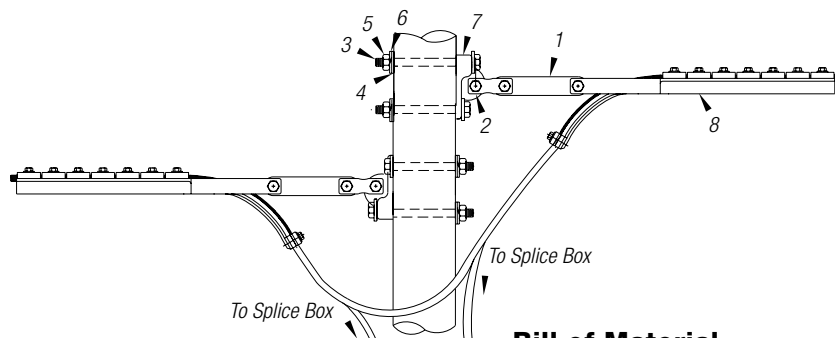


**Part Number**

**OWPDD3** - **DNOXXXX**  
 Assembly Code      Cable Spec. Number

**Bill of Material**

ITEM	DESCRIPTION	MATERIAL	CAT. OR DWG. #	REQ'D	REMARKS
1	Socket Eye	Galvanized Steel	SE-BDE	2	
2	Y-Clevis Ball Hot Link	Galvanized Steel	YCBHL	2	Pin Dia. = 0.75" (19mm)
3	Eye Plate	Galvanized Steel	EP1	2	
4	3/4" Lock Washer Nut	Galvanized Steel	LW-3/4	4	
5	3/4" Nut	Galvanized Steel	HN-3/4	4	
6	3/4" Flat Washer	Galvanized Steel	FW -3/4	4	
7	3/4" Through Bolt	Galvanized Steel	TB-3/4-14	4	Length = 14"
8	Bolted Deadend (Included)	Aluminum	Determined by AFL	2	



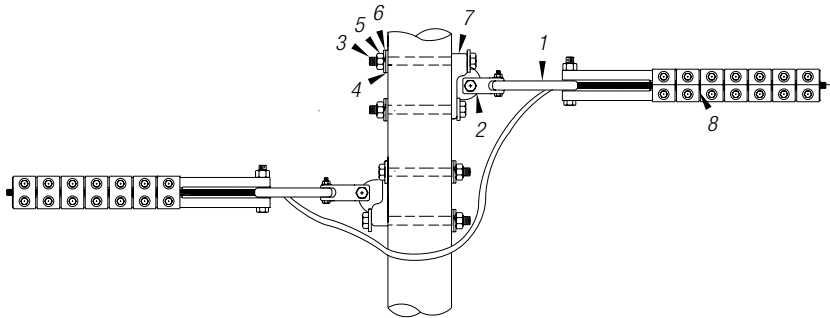
**Part Number**

**OWPDD4** - **DNOXXXX**  
 Assembly Code      Cable Spec. Number

**Bill of Material**

ITEM	DESCRIPTION	MATERIAL	CAT. OR DWG. #	REQ'D	REMARKS
1	Link Plate	Aluminum	ODEL P10	2	
2	Y-Clevis Clevis	Galvanized Steel	YCC	2	Pin Dia. = 0.75" (19mm)
3	3/4" Through Bolt	Galvanized Steel	TB-3/4-14	4	Length = 14"
4	3/4" Flat Washer	Galvanized Steel	FN-3/4	4	
5	3/4" Nut	Galvanized Steel	HN-3/4	4	
6	3/4" Lock Washer	Galvanized Steel	LW-3/4	4	
7	Eye Plate	Galvanized Steel	EP1	2	
8	Bolted Deadend (Included)	Aluminum	Determined by AFL	2	

## OPGW Double Dead End Wood Pole/ H-Frame Configuration Assemblies



### Part Number

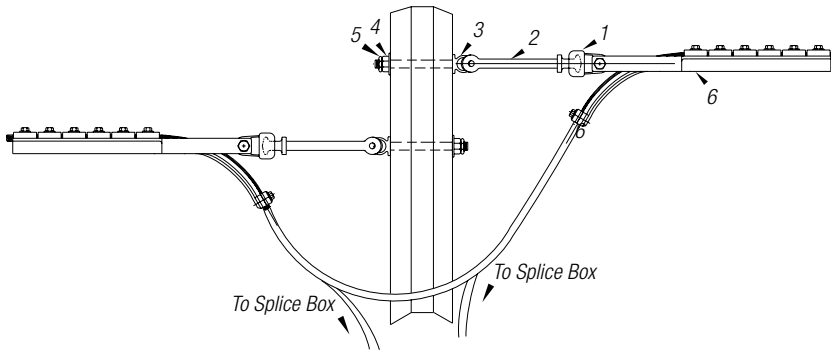
**OWPDD5** - **DNOXXXX**  
 Assembly Code      Cable Spec. Number

### Bill of Material

ITEM	DESCRIPTION	MATERIAL	CAT. OR DWG. #	REQ'D	REMARKS
1	Link Plate	Aluminum	ODELP10	2	
2	Y-Clevis Clevis 90°	Galvanized Steel	YCC-90	2	Pin Dia. = 0.75" (19mm)
3	3/4" Through Bolt	Galvanized Steel	TB-3/4-14	4	Length = 14"
4	3/4" Flat Washer	Galvanized Steel	FN-3/4	4	
5	3/4" Nut	Galvanized Steel	HN-3/4	4	
6	3/4" Lock Washer	Galvanized Steel	LW-3/4	4	
7	Eye Plate	Galvanized Steel	EP1	2	
8	Bolted Deadend (Included)	Aluminum	Determined by AFL	2	

Accessories enlarged for clarity

## OPGW Double Dead End Steel Pole/ Drilled Configuration Assemblies

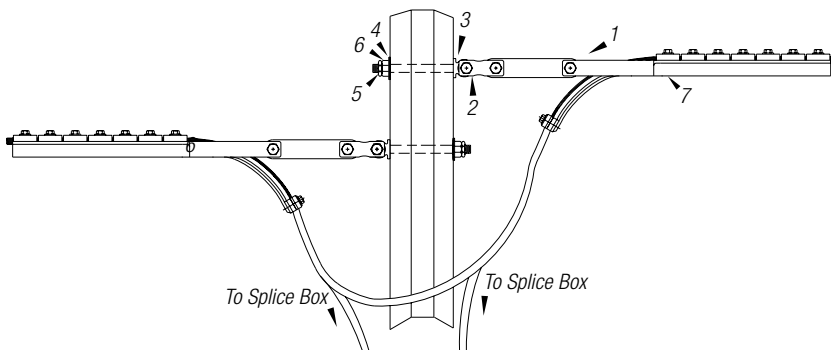


### Part Number

**OSPDD1** - **DNOXXXX**  
Assembly Code      Cable Spec. Number

### Bill of Material

ITEM	DESCRIPTION	MATERIAL	CAT. OR DWG. #	REQ'D	REMARKS
1	Socket Eye	Galvanized Steel	SE-BDE	2	
2	Y-Clevis Ball Hot Link	Galvanized Steel	YCBHL	2	Pin Dia. = 0.75" (19mm)
3	3/4" Shoulder Eye Bolt	Galvanized Steel	SEB-3/4-14	2	
4	3/4" Washer Nut	Galvanized Steel	WN-3/4	2	
5	3/4" MF Lock Nut	Galvanized Steel	LN-3/4	2	
6	Bolted Deadend (Included)	Aluminum	Determined by AFL	2	



### Part Number

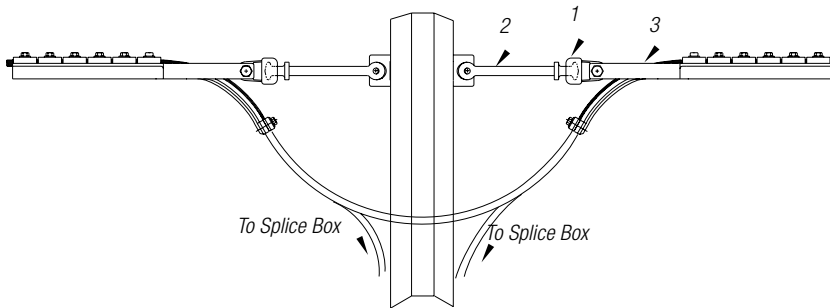
**OSPDD2** - **DNOXXXX**  
Assembly Code      Cable Spec. Number

### Bill of Material

ITEM	DESCRIPTION	MATERIAL	CAT. OR DWG. #	REQ'D	REMARKS
1	Link Plate	Aluminum	ODEL10	2	
2	Y-Clevis Clevis	Galvanized Steel	YCC	2	Pin Dia. = 0.75" (19mm)
3	3/4" Shoulder Eye Bolt	Galvanized Steel	SEB-3/4-14	2	
4	3/4" Washer Nut	Galvanized Steel	WN-3/4	2	
5	3/4" MF Lock Nut	Galvanized Steel	LN-3/4	2	
6	Bolted Deadend (Included)	Aluminum	Determined by AFL	2	

Accessories enlarged for clarity

## OPGW Double Dead End Steel Pole/ Vang Configuration Assemblies

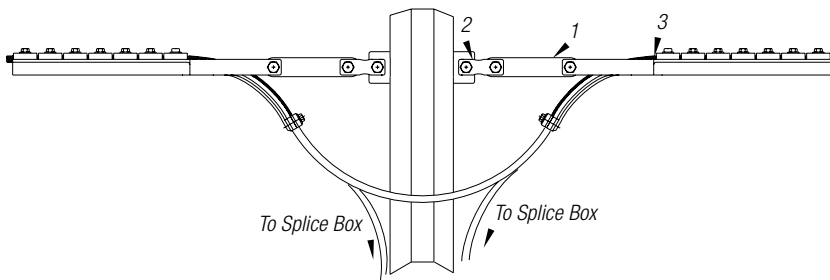


### Part Number

**OSPDD3** - **DNOXXXX**  
 Assembly Code      Cable Spec. Number

### Bill of Material

ITEM	DESCRIPTION	MATERIAL	CAT. OR DWG. #	REQ'D	REMARKS
1	Socket Eye	Galvanized Steel	SE-BDE	2	
2	Y-Clevis Ball Hot Link	Galvanized Steel	YCBHL	2	Pin Dia. = 0.75" (19mm)
3	Bolted Deadend (Included)	Aluminum	Determined by AFL	2	



### Part Number

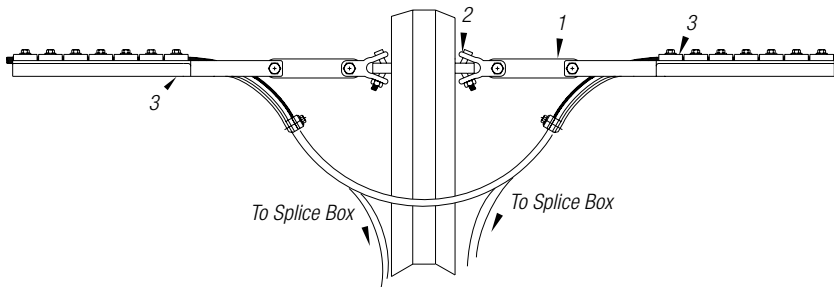
**OSPDD4** - **DNOXXXX**  
 Assembly Code      Cable Spec. Number

### Bill of Material

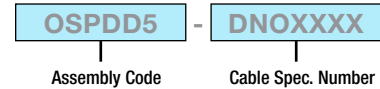
ITEM	DESCRIPTION	MATERIAL	CAT. OR DWG. #	REQ'D	REMARKS
1	Link Plate	Aluminum	ODELP10	2	
2	Y-Clevis Clevis	Galvanized Steel	YCC	2	Pin Dia. = 0.75" (19mm)
3	Bolted Deadend (Included)	Aluminum	Determined by AFL	2	

Accessories enlarged for clarity

## OPGW Double Dead End Steel Pole/ Vang Configuration Assemblies



### Part Number

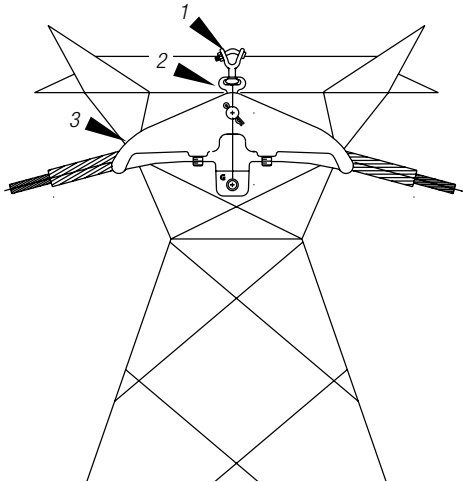


### Bill of Material

ITEM	DESCRIPTION	MATERIAL	CAT. OR DWG. #	REQ'D	REMARKS
1	Link Plate	Aluminum	ODELP10	2	
2	Y-Clevis Clevis 90°	Galvanized Steel	YCC-90	2	Pin Dia. = 0.75" (19mm)
3	Bolted Deadend (Included)	Aluminum	Determined by AFL	2	

Accessories enlarged for clarity

## OPGW Single Suspension Lattice Tower Configuration Assemblies

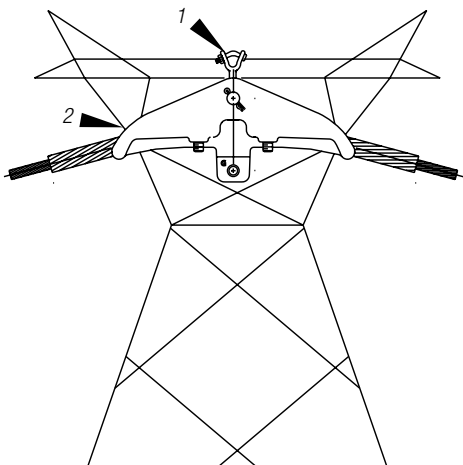


### Part Number

**OLTSP1** - **XXX/XXX**  
 Assembly Code                      SUME Range Code

### Bill of Material

ITEM	DESCRIPTION	MATERIAL	CAT. OR DWG. #	REQ'D	REMARKS
1	Y-Clevis Ball	Galvanized Steel	YCBS	1	Pin Dia. = 0.75" (19mm)
2	Socket Eye	Galvanized Steel	SE-SC	1	
3	Suspension Clamp Assembly (Included)	Aluminum	SUME XXX/XXX	1	



### Part Number

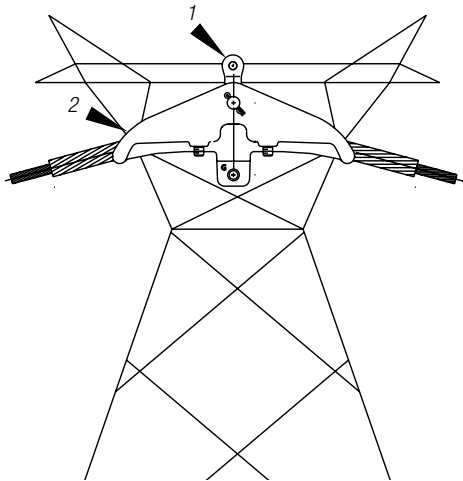
**OLTSP2** - **XXX/XXX**  
 Assembly Code                      SUME Range Code

### Bill of Material

ITEM	DESCRIPTION	MATERIAL	CAT. OR DWG. #	REQ'D	REMARKS
1	Y-Clevis Eye 90°	Galvanized Steel	YCE-90-SC	1	Pin Dia. = 0.75" (19mm)
2	Suspension Clamp Assembly (Included)	Aluminum	SUME XXX/XXX	1	

Accessories enlarged for clarity

## OPGW Single Suspension Lattice Tower Configuration Assemblies



### Part Number

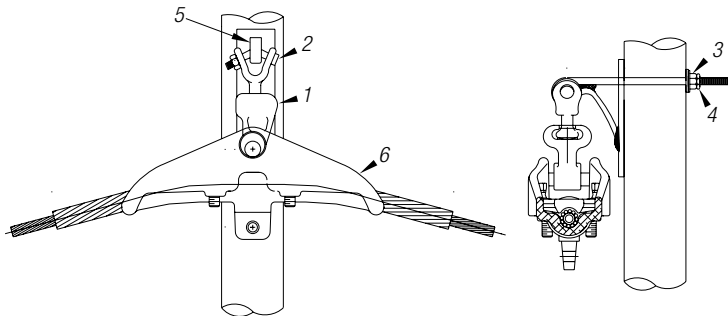
**OLTSP3** - **XXX/XXX**  
 Assembly Code                      SUME Range Code

### Bill of Material

ITEM	DESCRIPTION	MATERIAL	CAT. OR DWG. #	REQ'D	REMARKS
1	Y-Clevis Eye	Galvanized Steel	YCE-SC	1	Pin Dia. = 0.75" (19mm)
2	Suspension Clamp Assembly (Included)	Aluminum	SUME XXX/XXX	1	

Accessories enlarged for clarity

## OPGW Single Suspension Wood Pole/ H-Frame Configuration Assemblies

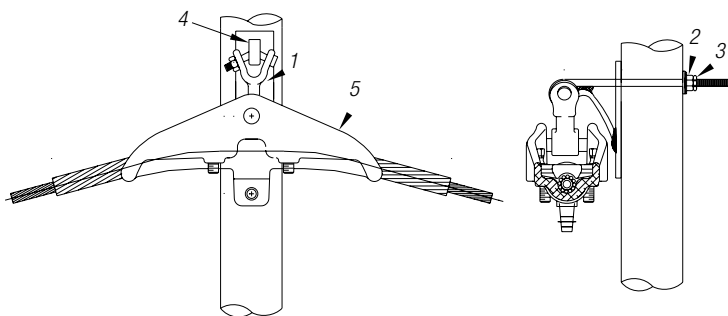


### Part Number

**OWPSP1** - **XXX/XXX**  
 Assembly Code                      SUME Range Code

### Bill of Material

ITEM	DESCRIPTION	MATERIAL	CAT. / DWG. #	REQ'D	REMARKS
1	Socket Eye	Galvanized Steel	SE-SC	1	
2	Y-Clevis Ball	Galvanized Steel	YCBS	1	Pin Dia. = 0.75" (19mm)
3	3/4" Washer Nut	Galvanized Steel	WN-3/4	1	
4	3/4" MF Lock Nut	Galvanized Steel	LN-3/4	1	
5	Shield Wire Support Bracket	Galvanized Steel	SFOSB-WP-14	1	14" Bolt
6	Suspension Clamp Assembly (incl.)	Aluminum	SUME XXX/XXX	1	



### Part Number

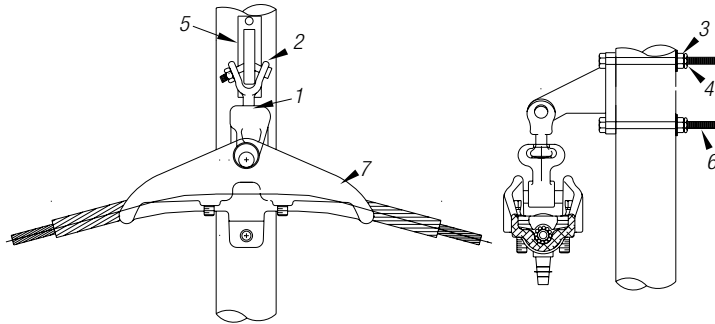
**OWPSP2** - **XXX/XXX**  
 Assembly Code                      SUME Range Code

### Bill of Material

ITEM	DESCRIPTION	MATERIAL	CAT. / DWG. #	REQ'D	REMARKS
1	Y-Clevis Eye 90°	Galvanized Steel	YCE-90-SC	1	Pin Dia. = 0.75" (19mm)
2	3/4" Washer Nut	Galvanized Steel	WN-3/4	1	
3	3/4" MF Lock Nut	Galvanized Steel	LN-3/4	1	
4	Shield Wire Support Bracket	Galvanized Steel	SFOSB-WP-14	1	14" Bolt
5	Susp. Damp Assembly (incl.)	Aluminum	SUME XXX/XXX	1	

Accessories enlarged for clarity

## OPGW Single Suspension Wood Pole/ H-Frame Configuration Assemblies

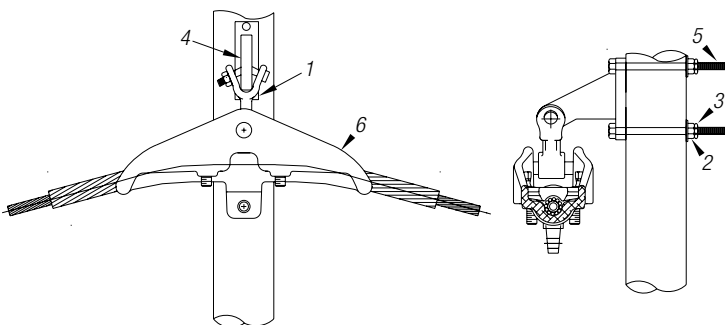


### Part Number

<b>OWPSP3</b>	-	<b>XXX/XXX</b>
Assembly Code		SUME Range Code

### Bill of Material

ITEM	DESCRIPTION	MATERIAL	CAT. / DWG. #	REQ'D	REMARKS
1	Socket Eye	Galvanized Steel	SE-SC	1	
2	Y-Clevis Ball	Galvanized Steel	YCBS	1	Pin Dia. = 0.75" (19mm)
3	3/4" Washer Nut	Galvanized Steel	WN-3/4	2	
4	3/4" MF Lock Nut	Galvanized Steel	LN-3/4	2	
5	H.D. Shield Wire Support	Galvanized Steel	HDFOSB	1	
6	3/4" Through Bolt	Galvanized Steel	TB-3/4-14	2	Length = 14"
7	Suspension Clamp Assembly (incl.)	Aluminum	SUME XXX/XXX	1	



### Part Number

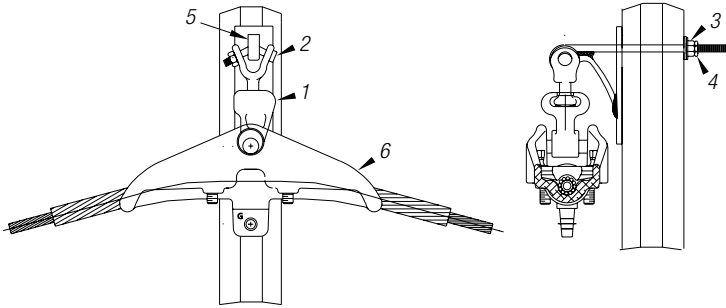
<b>OWPSP4</b>	-	<b>XXX/XXX</b>
Assembly Code		SUME Range Code

### Bill of Material

ITEM	DESCRIPTION	MATERIAL	CAT. / DWG. #	REQ'D	REMARKS
1	Y-Clevis Eye 90°	Galvanized Steel	YCE-90-SC	1	Pin Dia. = 0.75" (19mm)
2	3/4" Washer Nut	Galvanized Steel	WN-3/4	2	
3	3/4" MF Lock Nut	Galvanized Steel	LN-3/4	2	
4	H.D. Shield Wire Support	Galvanized Steel	HDFOSB	1	
5	3/4" Through Bolt	Galvanized Steel	TB-3/4-14	2	Length = 14"
6	Suspension Clamp Assembly (incl.)	Aluminum	SUME XXX/XXX	1	

Accessories enlarged for clarity

## OPGW Single Suspension Steel Pole/ Drilled Configuration Assembly

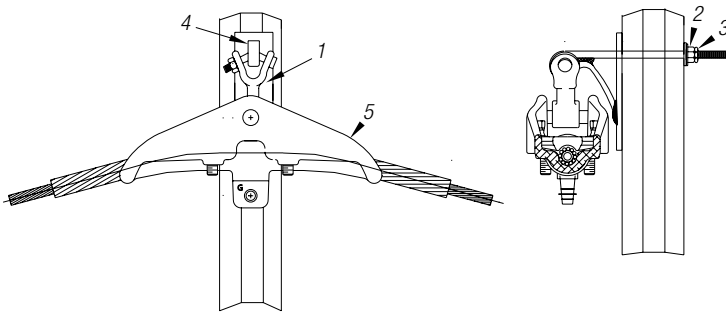


### Part Number

**OSPSP1** - **XXX/XXX**  
 Assembly Code                      SUME Range Code

### Bill of Material

ITEM	DESCRIPTION	MATERIAL	CAT. OR DWG. #	REQ'D	REMARKS
1	Socket Eye	Galvanized Steel	SE-SC	1	
2	Y-Clevis Ball	Galvanized Steel	YCBS	1	Pin Dia. = 0.75" (19mm)
3	3/4" Washer Nut	Galvanized Steel	WN-3/4	1	
4	3/4" MF Lock Nut	Galvanized Steel	LN-3/4	1	
5	Shield Wire Support Bracket	Galvanized Steel	SFOSB-SP-14	1	14" Bolt
6	Suspension Clamp Assembly (Included)	Aluminum	SUME XXX/XXX	1	



### Part Number

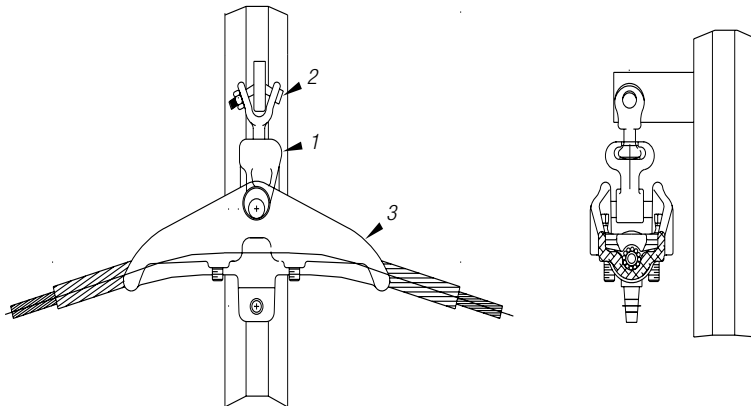
**OSPSP2** - **XXX/XXX**  
 Assembly Code                      SUME Range Code

### Bill of Material

ITEM	DESCRIPTION	MATERIAL	CAT. OR DWG. #	REQ'D	REMARKS
1	Y-Clevis Eye 90°	Galvanized Steel	YCE-90-SC	1	Pin Dia. = 0.75" (19mm)
2	3/4" Washer Nut	Galvanized Steel	WN-3/4	1	
3	3/4" MF Lock Nut	Galvanized Steel	LN-3/4	1	
4	Shield Wire Support Bracket	Galvanized Steel	SFOSB-SP-14	1	14" Bolt
5	Suspension Clamp Assembly (Included)	Aluminum	SUME XXX/XXX	1	

Accessories enlarged for clarity

## OPGW Single Suspension Steel Pole/ Vang Configuration Assemblies

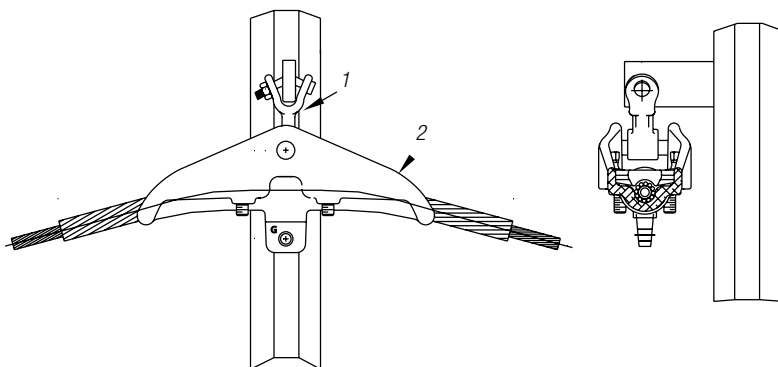


### Part Number

**OSPSP3** - **XXX/XXX**  
 Assembly Code                      SUME Range Code

### Bill of Material

ITEM	DESCRIPTION	MATERIAL	CAT. OR DWG. #	REQ'D	REMARKS
1	Socket Eye	Galvanized Steel	SE-SC	1	
2	Y-Clevis Ball	Galvanized Steel	YCBS	1	Pin Dia. = 0.75" (19mm)
3	Suspension Clamp Assembly (Included)	Aluminum	SUME XXX/XXX	1	



### Part Number

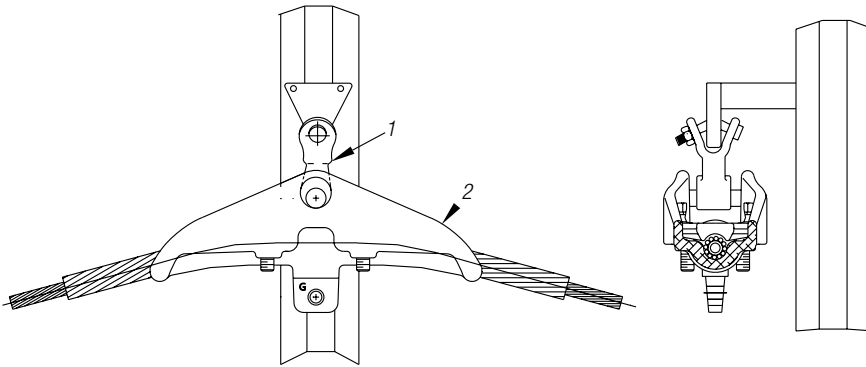
**OSPSP4** - **XXX/XXX**  
 Assembly Code                      SUME Range Code

### Bill of Material

ITEM	DESCRIPTION	MATERIAL	CAT. OR DWG. #	REQ'D	REMARKS
1	Y-Clevis Eye 90°	Galvanized Steel	YCE-90-SC	1	Pin Dia. = 0.75" (19mm)
2	Suspension Clamp Assembly (Included)	Aluminum	SUME XXX/XXX	1	

Accessories enlarged for clarity

## OPGW Single Suspension Steel Pole/ Vang Configuration Assemblies

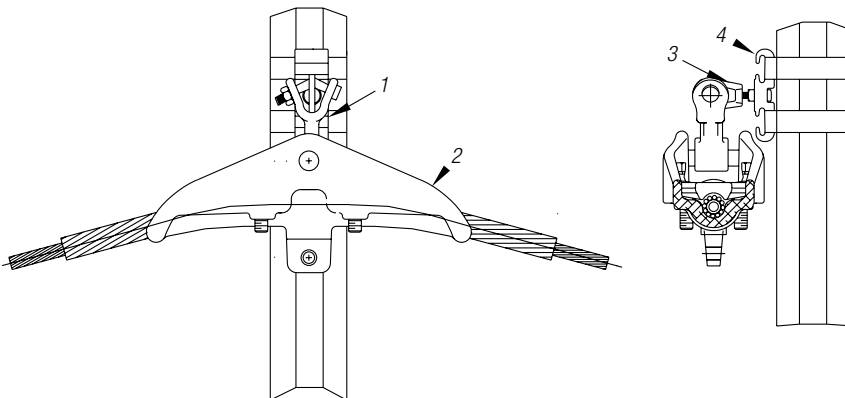


### Part Number

**OSPSP5** - **XXX/XXX**  
 Assembly Code                      SUME Range Code

### Bill of Material

ITEM	DESCRIPTION	MATERIAL	CAT. OR DWG. #	REQ'D	REMARKS
1	Y-Clevis Eye	Galvanized Steel	YCE-SC	1	Pin Dia. = 0.75"(19mm)
2	Suspension Clamp Assembly (Included)	Aluminum	SUME XXX/XXX	1	



### Part Number

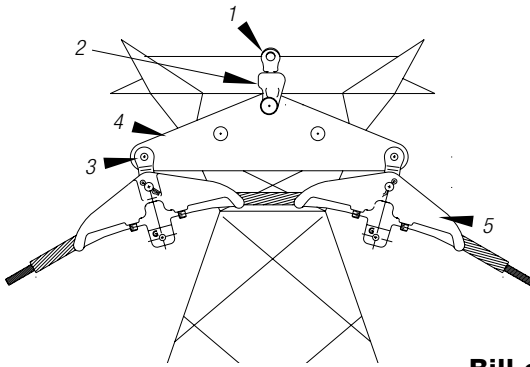
**OSPSP6** - **XXX/XXX**  
 Assembly Code                      SUME Range Code

### Bill of Material

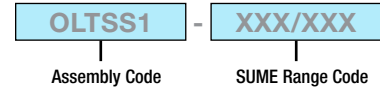
ITEM	DESCRIPTION	MATERIAL	CAT. OR DWG. #	REQ'D	REMARKS
1	Y-Clevis Eye 90°	Galvanized Steel	YCE-90-SC	1	Pin Dia. = 0.75" (19mm)
2	Suspension Clamp Assembly (Included)	Aluminum	SUME XXX/XXX	1	
3	Eye Bolt	Galvanized Steel			
4	Banding Adaptor	Aluminum			

Accessories enlarged for clarity

## OPGW Double Suspension Lattice Tower Configuration Assemblies

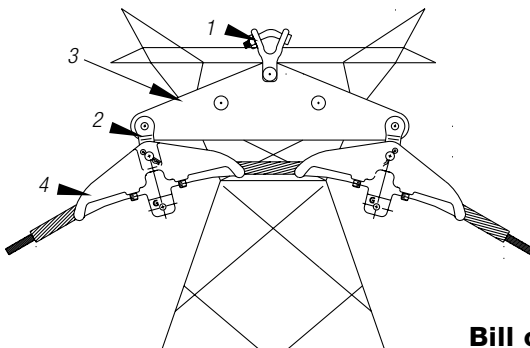


### Part Number

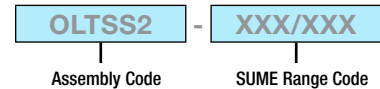


### Bill of Material

ITEM	DESCRIPTION	MATERIAL	CAT. OR DWG. #	REQ'D	REMARKS
1	Y-Clevis Ball	Galvanized Steel	YCBS	1	Pin Dia. = 0.75" (19mm)
2	Socket Clevis	Galvanized Steel	SC-YP	1	
3	Clevis Eye	Galvanized Steel	CE-SC	2	
4	Yoke Plate	Galvanized Steel	SUMEYP	1	
5	Double Suspension (incl.)	Aluminum	ODSME XXX/XXX	1	



### Part Number

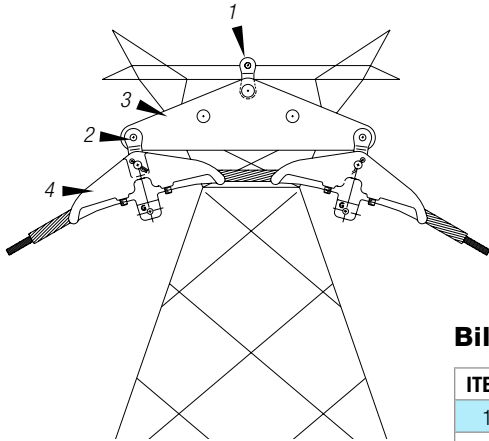


### Bill of Material

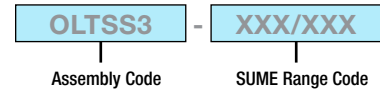
ITEM	DESCRIPTION	MATERIAL	CAT. OR DWG. #	REQ'D	REMARKS
1	Y-Clevis Clevis 90°	Galvanized Steel	YCC-90-SC	1	Pin Dia. = 0.75" (19mm)
2	Clevis Eye	Alum./Gal. Steel	CE-SC	2	
3	Yoke Plate	Alum./Gal. Steel	SUMEYP	1	
4	Double Suspension (incl.)	Alum./Gal. Steel	SUME XXX/XXX	1	

Accessories enlarged for clarity

## OPGW Double Suspension Lattice Tower Configuration Assemblies



### Part Number

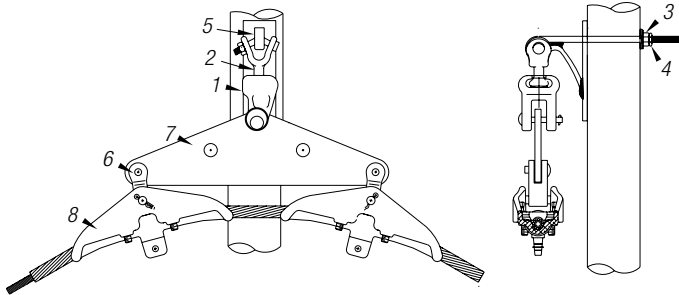


### Bill of Material

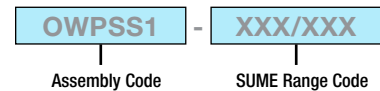
ITEM	DESCRIPTION	MATERIAL	CAT. OR DWG. #	REQ'D	REMARKS
1	Y-Clevis Clevis	Galvanized Steel	YCC	1	Pin Dia. = 0.75" (19mm)
2	Clevis Eye	Galvanized Steel	CE-SC	2	
3	Yoke Plate	Galvanized Steel	SUMEYP	1	
4	Double Suspension (incl.)	Aluminum	ODSME XXX/XXX	1	

Accessories enlarged for clarity

## OPGW Double Suspension Wood Pole/ H-Frame Configuration Assemblies

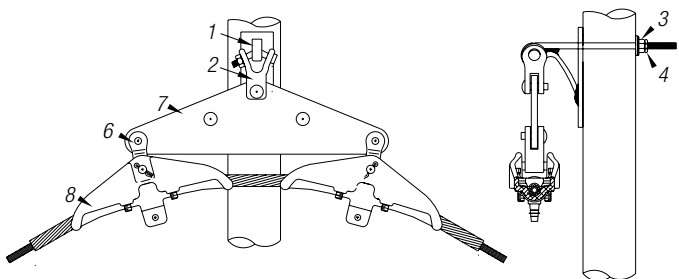


### Part Number

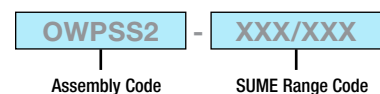


### Bill of Material

ITEM	DESCRIPTION	MATERIAL	CAT. OR DWG. #	REQ'D	REMARKS
1	Socket Clevis	Galvanized Steel	SC-YP	1	
2	Y-Clevis Ball	Galvanized Steel	YCBS	1	Pin Dia. = 0.75" (19mm)
3	3/4" Washer Nut	Galvanized Steel	WN-3/4	1	
4	3/4" MF Lock Nut	Galvanized Steel	LN-3/4	1	
5	Shield Wire Support Bracket	Galvanized Steel	SFOSB-WP-14	1	14" Bolt
6	Clevis Eye	Galvanized Steel	CE-SC	2	
7	Yoke Plate	Galvanized Steel	SUMEYP	1	
8	Double Suspension (incl.)	Aluminum	ODSME XXX/XXX	1	



### Part Number

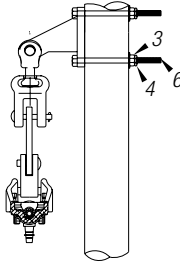
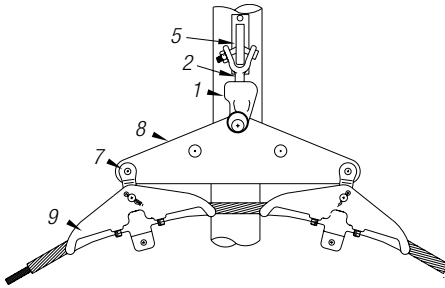


### Bill of Material

ITEM	DESCRIPTION	MATERIAL	CAT. OR DWG. #	REQ'D	REMARKS
1	Shield Wire Support Bracket	Galvanized Steel	SFOSB-WP-14	1	
2	Y-Clevis Clevis 90°	Galvanized Steel	YCC-90	1	Pin Dia. = 0.75" (19mm)
3	3/4" Washer Nut	Galvanized Steel	WN-3/4	1	
4	3/4" MF Lock Nut	Galvanized Steel	LN-3/4	1	
6	Clevis Eye	Galvanized Steel	CE-SC	2	
7	Yoke Plate	Galvanized Steel	SUMEYP	1	
8	Double Suspension (Included)	Aluminum	ODSME XXX/XXX	1	

Accessories enlarged for clarity

## OPGW Double Suspension Wood Pole/ H-Frame Configuration Assemblies

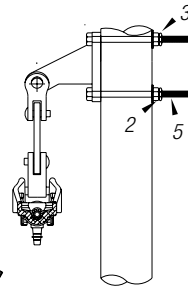
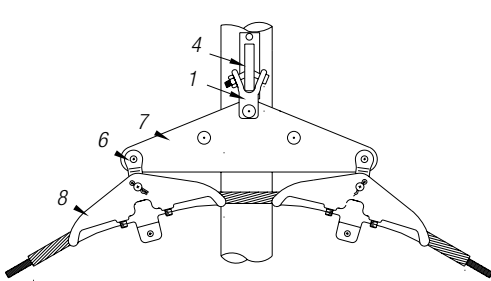


### Part Number

**OWPSS3** - **XXX/XXX**  
 Assembly Code                      SUME Range Code

### Bill of Material

ITEM	DESCRIPTION	MATERIAL	CAT. OR DWG. #	REQ'D	REMARKS
1	Socket Clevis	Galvanized Steel	SC-YP	1	
2	Y-Clevis Ball	Galvanized Steel	YCBS	1	Pin Dia. = 0.75" (19mm)
3	3/4" Washer Nut	Galvanized Steel	WN-3/4	2	
4	3/4" MF Lock Nut	Galvanized Steel	LN-3/4	2	
5	H.D. Shield Wire Support	Galvanized Steel	HDFOSB	1	
6	3/4" Through Bolt	Galvanized Steel	TB-3/4-14	2	Length = 14"
7	Clevis Eye	Galvanized Steel	CE-SC	2	
8	Yoke Plate	Galvanized Steel	SUMEYP	1	
9	Double Suspension (Included)	Aluminum	ODSME XXX/XXX	1	



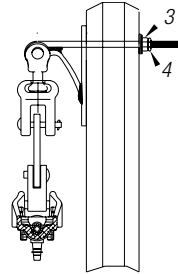
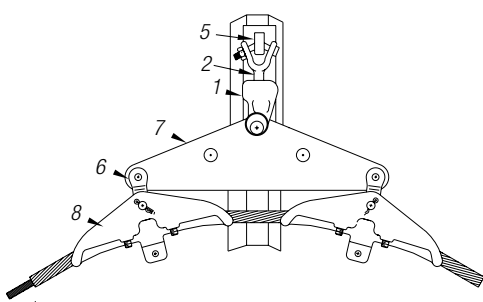
### Part Number

**OWPSS4** - **XXX/XXX**  
 Assembly Code                      SUME Range Code

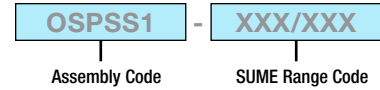
### Bill of Material

ITEM	DESCRIPTION	MATERIAL	CAT. OR DWG. #	REQ'D	REMARKS
1	Y-Clevis Clevis 90°	Galvanized Steel	YCC-90	1	Pin Dia. = 0.75" (19mm)
2	3/4" Washer Nut	Galvanized Steel	WN-3/4	2	
3	3/4" MF Lock Nut	Galvanized Steel	LN-3/4	2	
4	H.D. Shield Wire Support	Galvanized Steel	HDFOSB	1	
5	3/4" Through Bolt	Galvanized Steel	TB-3/4-14	2	Length = 14"
6	Clevis Eye	Galvanized Steel	CE-SC	2	
7	Yoke Plate	Galvanized Steel	SUMEYP	1	
8	Double Suspension (Included)	Aluminum	ODSME XXX/XXX	1	

## OPGW Double Suspension Steel Pole/ Drilled Configuration Assembly

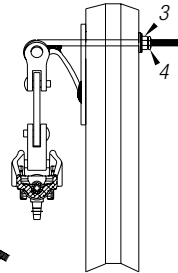
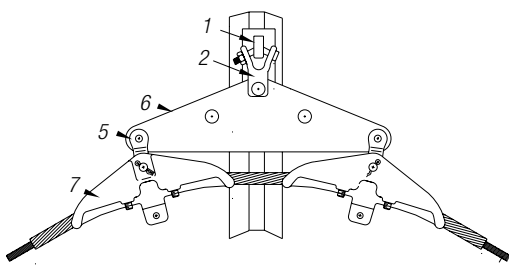


### Part Number

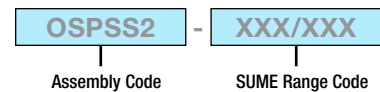


### Bill of Material

ITEM	DESCRIPTION	MATERIAL	CAT. OR DWG. #	REQ'D	REMARKS
1	Socket Clevis	Galvanized Steel	SC-YP	1	
2	Y-Clevis Ball	Galvanized Steel	YCBS	1	Pin Dia. = 0.75" (19mm)
3	3/4" Washer Nut	Galvanized Steel	WN-3/4	1	
4	3/4" MF Lock Nut	Galvanized Steel	LN-3/4	1	
5	Shield Wire Support Bracket	Galvanized Steel	SFOSB-SP-14	1	14" Bolt
6	Clevis Eye	Galvanized Steel	CE-SC	2	
7	Yoke Plate	Galvanized Steel	SUMEYP	1	
8	Double Suspension (incl.)	Aluminum	ODSME XXX/XXX	1	



### Part Number

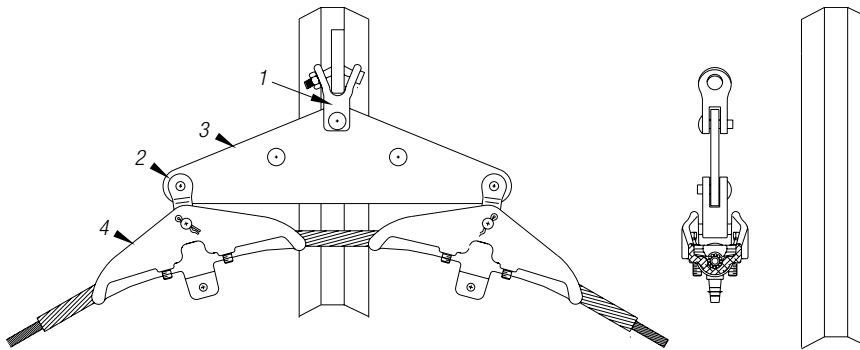


### Bill of Material

ITEM	DESCRIPTION	MATERIAL	CAT. OR DWG. #	REQ'D	REMARKS
1	Shield Wire Support Bracket	Galvanized Steel	SFOSB-SP-14	1	14" Bolt
2	Y-Clevis Clevis 90°	Galvanized Steel	YCC-90	1	Pin Dia. = 0.75" (19mm)
3	3/4" Washer Nut	Galvanized Steel	WN-3/4	1	
4	3/4" MF Lock Nut	Galvanized Steel	LN-3/4	1	
5	Clevis Eye	Galvanized Steel	CE-SC	2	
6	Yoke Plate	Galvanized Steel	SUMEYP	1	
7	Double Suspension (incl.)	Aluminum	ODSME XXX/XXX	1	

Accessories enlarged for clarity

## OPGW Double Suspension Steel Pole/ Vang Configuration Assembly

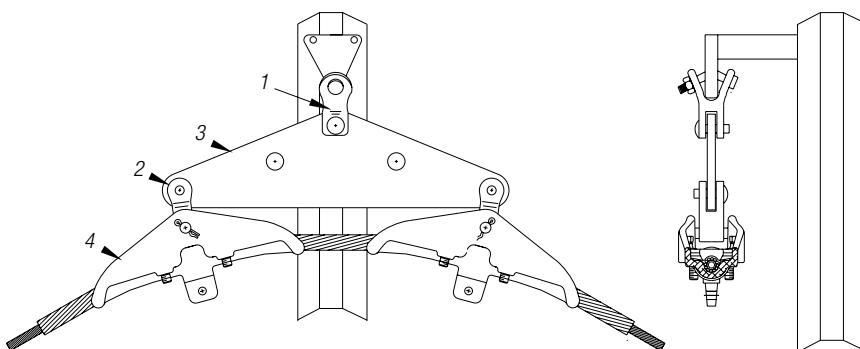


### Part Number

**OSPSS4** - **XXX/XXX**  
 Assembly Code                      SUME Range Code

### Bill of Material

ITEM	DESCRIPTION	MATERIAL	CAT. OR DWG. #	REQ'D	REMARKS
1	Y-Clevis Clevis 90°	Galvanized Steel	YCC-90	1	Pin Dia. = 0.75" (19mm)
2	Clevis Eye	Galvanized Steel	CE-SC	2	
3	Yoke Plate	Galvanized Steel	SUMEYP	1	
4	Double Suspension (included)	Aluminum	ODSME XXX/XXX	1	



### Part Number

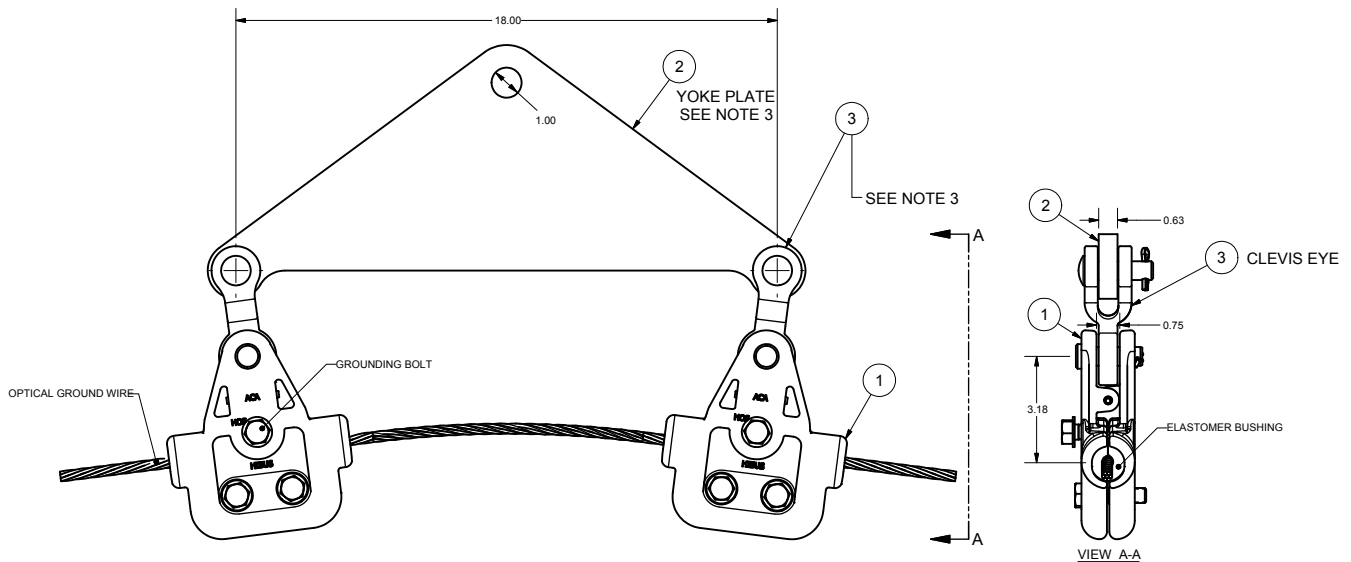
**OSPSS5** - **XXX/XXX**  
 Assembly Code                      SUME Range Code

### Bill of Material

ITEM	DESCRIPTION	MATERIAL	CAT. OR DWG. #	REQ'D	REMARKS
1	Y-Clevis Clevis	Galvanized Steel	YCC	1	Pin Dia. = 0.75" (19mm)
2	Clevis Eye	Galvanized Steel	CE-SC	2	
3	Yoke Plate	Galvanized Steel	SUMEYP	1	
4	Double Suspension (Included)	Aluminum	ODSME XXX/XXX	1	

Accessories enlarged for clarity

## HIBUS OPGW Double Suspension Configuration Assemblies



### Bill of Material

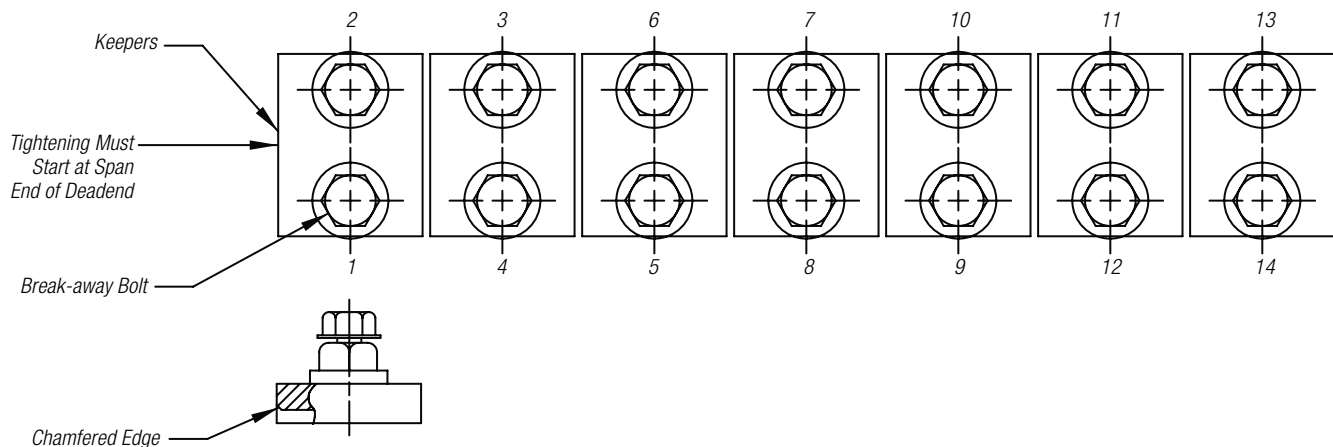
ITEM	DESCRIPTION	CAT. OR DWG. #	REQ'D
1	HIBUS OPGW Suspension Clamp Assembly	HOS XXX/XXX	2
2	Yoke Plate	SUMEYP	1
3	Clevis Eye	SCE-55-625	2

### Strength Rating Information

- HIBUS OPGW [optical ground wire] Suspension Clamp - Item (1) ultimate strength rating: 20,000 lbs.
- HIBUS OPGW [optical ground wire] Suspension Clamp rated slip load @ 20% of RTS for cables with less than 25,000 breaking load. Contact ACA for slip load rating on cables greater than 25,000 lbs. RTS.
- Attachment hardware:  
Yoke plate - Item (2) - ultimate strength rating: 40,000 lbs.  
Clevis eye - Item (3a) - ultimate strength rating: 25,000 lbs.

## Installation Instructions for OPGW Dead End

1. Disassemble dead end. Remove one bolt from the same side of each keeper. Loosen other bolts to permit conductor to be placed in the conductor groove. If keepers and bolts are removed completely, care must be taken to return the keeper closest to the span end of the dead end to its original position (chamfered edge towards span). Remove clevis hardware.
2. Straighten conductor removing set caused by reel.
3. Place conductor into groove and install dead end keepers with washers break-away bolts.
4. Care should be taken during installation to maintain the keepers squarely on the conductor with equal clearance on both sides of conductor.
5. Starting at the span end of the dead end, follow the tightening sequence shown below, tighten all bolts to approximately 5 ft.-lbs. (7 Nm for metric). Repeat to approximately 25 ft.-lbs. (33 Nm for metric). Then final pass until break-away head breaks off. The sequential pattern is set up to equalize the load in each bolt and to prevent the deadend keepers from cocking to one side during installation.

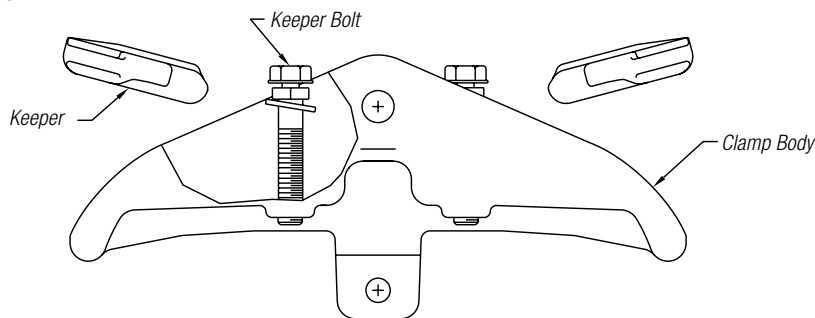


6. If cable guide is not supplied, proceed to step 8. Cable guide, if used, is provided to insure that minimum bending radius of OPGW is not violated. Care should be exercised to avoid undue stress on cable guide. Note: cable guide is not a structural member and adds nothing to the holding strength of the clamp. Train conductor to make it bottom along the cable guide groove. This is important to assure clearance for the link plate/connecting hardware.
7. After placing conductor into cable guide groove, install cable guide keeper with washers and break-away bolts alternately tightening bolts per Steps 4 and 5.
8. Install connecting hardware with dead end clevis bolt. Check for clearance with conductor.

## Installation Instructions for OPGW Suspension Unit

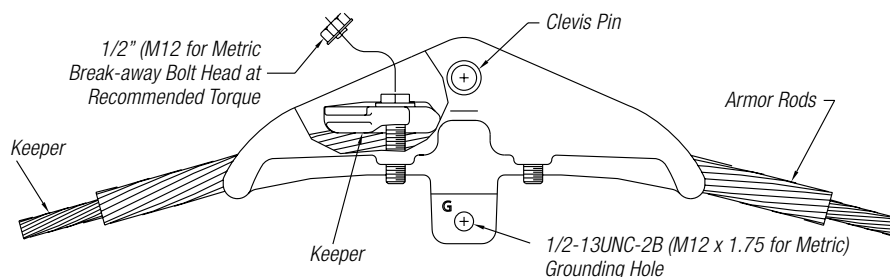
1. Mark center of clamp location on cable with ink (not tape).
2. Install armor rods on cable aligning center mark of armor rods with center mark on OPGW (per step 1).
3. Remove clamp clevis pin. Loosen, but do not remove clamp keeper bolts. Remove clamp keepers (see Figure 1).

Figure 1



4. Place clamp body on cable and center clamp on armor rod center mark.
5. Attach clamp to tower attachment with clevis pin and install cotter pin in clevis pin.
6. Place keepers in clamp and slide keepers under keeper bolts.
7. Tighten keeper bolts finger tight and insure that keepers are not cocked on OPGW.
8. Tighten keeper bolts on each keeper in 5 ft-lb (7 nm for metric) increments, alternating tightening to insure keepers are not cocked in clamp. Tighten until break-away bolt head shears off (20-25 ft-lb or 28-35 nm for metric) (see Figure 2).
9. Attach grounding lug to grounding pad (side marked "G") on bottom of suspension clamp (using 1/2"-13 or M12 x 1.75 Thread tapped hole) if grounding is required.

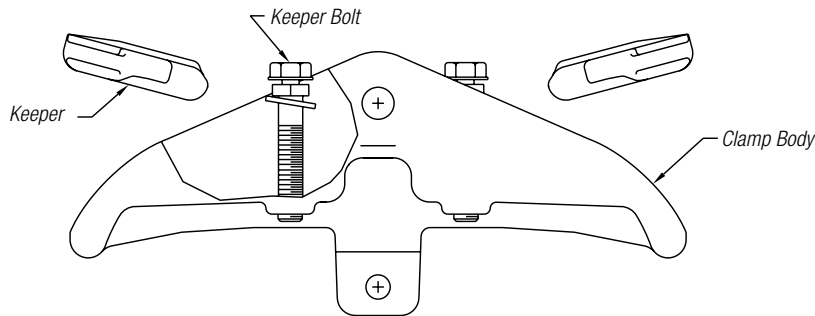
Figure 2



## Installation Instructions for OPGW Double Suspension Unit

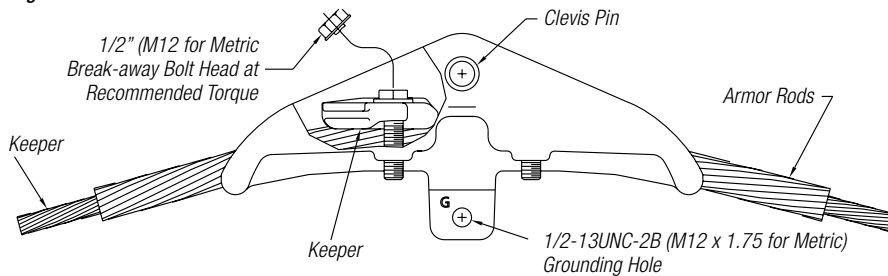
1. Mark center of clamp location on cable with ink (not tape).
2. Install the armor rods on cable aligning center mark of armor rods with center mark on OPGW (per Step 1).
3. Mark centers of clamp locations on armor rods with ink (not tape). This distance is equal to 1/2 the dimension between attachment holes on the yoke plate.
4. Remove clamp clevis pin. Loosen, but do not remove clamp keeper bolts. Remove the clamp keepers (see Figure 1).

Figure 1



5. Place clamp body on OPGW and center clamp on one of the center marks (per Step 3).
6. Place keepers in clamp and slide keepers under keeper bolts.
7. Tighten keeper bolts finger tight and insure that keepers are not cocked on OPGW.
8. Tighten keeper bolts on each keeper in 5 ft-lb increments, alternating tightening to insure keepers are not cocked in clamp. Tighten until break-away bolt head shears off (see Figure 2).

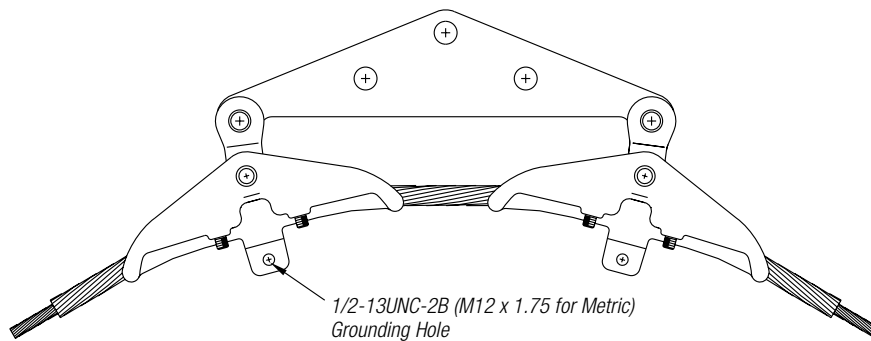
Figure 2



## Installation Instructions for OPGW Double Suspension Unit

9. Repeat steps 4 through 8 for the other clamp.
10. Attach clevis eye to clamp bodies with clevis pins and install cotter pins in clevis pins.
11. Attach clevis eyes to yoke plate.
12. Attach completed assembly to tower attachment (see Figure 3).

Figure 3 - Completed Assembly

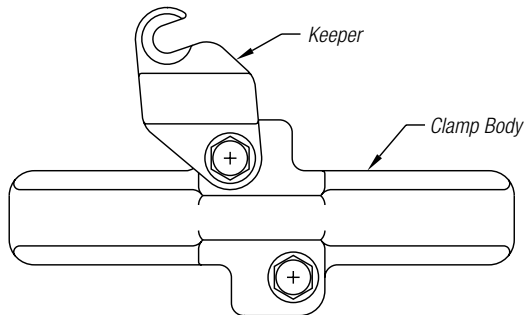


13. Attach grounding lug to grounding pad (side marked "G") on bottom of suspension clamp (using 1/2"-13 thread tapped hole) if grounding is required.

## Installation Instructions for OPGW Trunnion

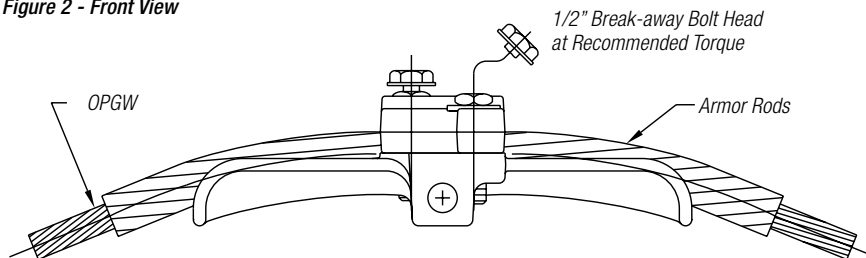
1. Mark center of clamp location on OPGW with ink (not tape).
2. Install armor rods on OPGW aligning center mark of armor rods with center mark on OPGW (per Step 1).
3. Loosen, but do not remove clamp keeper bolts. Rotate clamp keeper 180° from original position (see Figure 1).

Figure 1 - Top View



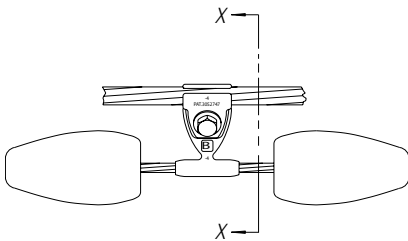
4. Place OPGW in clamp body and center clamp on armor rod center mark.
5. Return keeper to its original position.
6. Tighten keeper bolts finger tight and insure that keeper is not cocked on OPGW.
7. Tighten keeper bolts on keeper in 5 ft-lb increments, alternating tightening to insure keepers are not cocked in clamp. Tighten until break-away bolt head shears off (see Figure 2).

Figure 2 - Front View

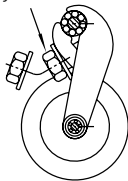


## Installation Instructions for OPGW Vibration Damper

CABLE DIAMETER	BOLT SIZE	BREAK-AWAY TORQUE ft. lbs. (Nm)	
		MIN.	MAX.
.360 - .770	7/16 (M12)	18 (24)	23 (31)
.771 - .970	1/2 (M4)	20 (41)	25 (47)



Break-away Bolt



### General information and spacing recommendations:

ACA vibration dampers are produced with carefully designed and controlled dimensions. The dampers should be protected, preferably in their shipping containers, from dirt and foreign material prior to installation. Handling in the field should be with care to avoid mechanical damage.

ACA vibration dampers may be installed without disassembly of the clamp parts.

Obtain the required damper spacing from ACA Conductor Accessories.

### Mechanical Suspension (See page 11)

“One end” applications require a damper installed a distance “B” from the center of the suspension clamp at one end of the span. “Both ends” applications require a damper installed a distance “B” from the center of the suspension clamp at each end of the span.

### Armor Grip Type Suspension

“One end” applications require two dampers installed at one end of the span. Install the first damper at the end of the rods and the second damper a distance “D” from the first damper. “Both ends” applications require two dampers installed at each end of the span with the first damper installed at the end of the rods and the second damper installed at the specified “D” spacing.

### AFL Bolted Deadend (See page 3)

“One end” applications require two dampers at one end of the span with the first damper spaced a distance “D” from the end or mouth of the deadend and the second damper spaced a distance “D” from the first damper attachment point. “Both ends” applications require two dampers at each end of the span with the first damper spaced a distance “D” from the end or mouth of the deadend and the second damper spaced “D” distance from the first damper attachment point.

### Formed Wire Deadend (See page 33)

“One end” applications require two dampers at one end of the span with the first damper placed at the end of the armor rods and the second damper spaced a distance “D” from the first damper attachment point. “Both ends” applications require two dampers at each end of the span with the first damper placed at the end of the armor rods and the second damper spaced a distance “D” from the first damper attachment point.

**NOTE:** For those spans with a deadend at one end and a suspension unit at the other, a damper application required at one end should be applied to the suspension side of the span. Depending on the type of suspension unit, refer to the appropriate damper placement instructions listed previously.

1. Loosen the bolt so that the clamp may be opened sufficiently to permit cable entry into the clamp groove.

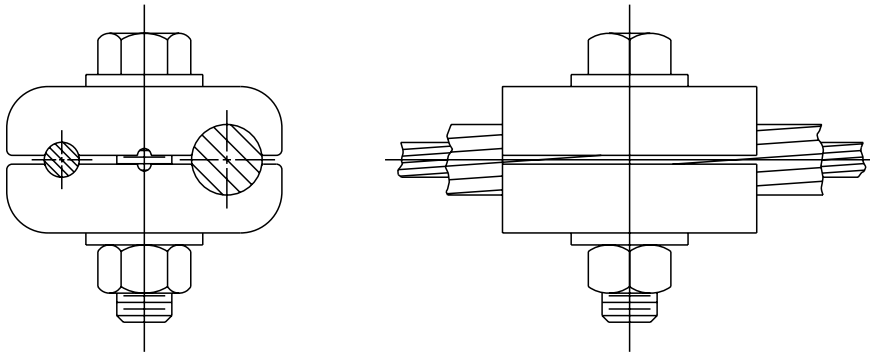
**NOTE:** The bolt need not be removed.

2. Hang the damper on the OPGW at the proper spacing specified and tighten the bolt finger tight.

3. Tighten the bolt with a suitable wrench until the break-away head shears off.

**NOTE:** The table to the right provides the typical clamp, bolt diameters, and break-away torque range for the OPGW dampers.

## Installation Instructions for OPGW Ground Clamp



1. Clean both run and tap conductors over the length to be clamped with a wire brush to remove oxides.
2. Place connector halves on the conductor, being careful to place the recommended run and tap conductor in the proper clamp groove and to distribute the alnox evenly over the conductor.
3. Bolt bonding P.G. clamp on conductors. Use a backup wrench to restrain the head of the bolt while tightening hardware to avoid bending the fiber optic composite cables. Tighten bolts to the recommended installation torque. (1/2" Bolt: 20-25 lbf-ft, M14 bolt: 27-34 Nm)
4. Do not remove alnox that squeezes out when clamp is tightened.

**CAUTION:** In order to avoid damage to the fiber optic composite cables, it is essential that they be clamped only in the recommended grooves and that the bolts be tightened only to the recommended installation torque.

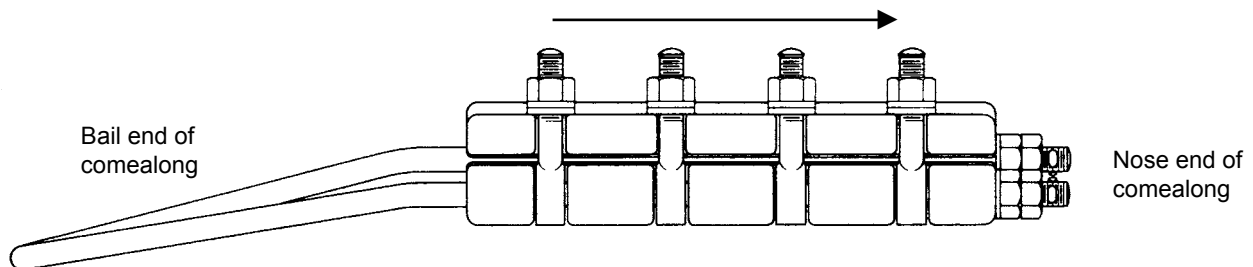
## Installation Instructions for OCA Series Comealongs for Optical Ground Wire

### Unused Comealongs

1. Loosen bolts so that the comealong may be opened sufficiently. Check for cleanliness of bore and permit cable entry into the cable groove.
2. Position the comealong a minimum of 10 feet from the dead end being installed.
3. Place the cable into the conductor groove of the comealong, then close the comealong and finger tighten the bolts.
4. Using a torque wrench, tighten bolts in sequence from bail end to nose of the comealong (see diagram below). It will take a minimum of 6 passes to achieve the correct torque on each bolt. On the first pass, tighten the bolts to 80% of the target torque (1/2" bolt - 32 lb ft). On each subsequent pass, tighten the bolts to the target torque (1/2" bolt - 40 lb ft), ensuring proper clamping force is achieved.

### Used Comealongs

1. Before each job, thoroughly clean the comealong and closely inspect for nicked or rough cable grooves, cracked body, bent eye bolts, or damaged bail. If any damage is found, the comealong should be disposed of or sent to ACA for rework and recertification.
2. After cleaning, each comealong should be subjected to a pull test equal to the rated strength stamped on the comealong.
3. Follow sequence 1 through 4 for Unused Comealongs above.



**LOAD RATING:** Maximum tension limit is 50% of the rated strength of the OPGW or 5,000 pounds, whichever value is smaller.

**WARNING:** Comealongs are not intended for use as dead ends and are not recommended to hold conductors at sag tension limits for longer than 6 hours.

## Request for Vibration Information

Originator \_\_\_\_\_ Date \_\_\_\_\_  
 Utility/Consultant \_\_\_\_\_ Tel/Fax \_\_\_\_\_  
 Project Name \_\_\_\_\_

Submit via email to:  
**spbacatechnical@afltele.com**

Submit via fax to:  
**864-433-5434**

**For each ruling or deadend span, provide the following information:**

- OPGW Designation \_\_\_\_\_
- Average Annual Minimum Temperature (AAMT) for Line (see next page) \_\_\_\_\_
- Average Annual Temperature (AAT) for Line (usually 60°F) \_\_\_\_\_
- Terrain or Wind Speed: River/Water Crossing:  
 Normal: 15MPH  Yes  
 Flat: 20MPH  No  
 Water Crossing: 25MPH

5. Loading Zone:

CHECK ONE	ZONE	ICE (in)	WIND (#/ft <sup>2</sup> )	K (#/ft <sup>2</sup> )	TEMPERATURE (°F)
<input type="checkbox"/>	NESC Heavy	0.50	4.00	0.30	0
<input type="checkbox"/>	NESC Medium	0.25	4.00	0.20	15
<input type="checkbox"/>	NESC Light	0.00	9.00	0.05	30
<input type="checkbox"/>	Calif. Heavy	0.50	6.00	0.00	0
<input type="checkbox"/>	Calif. Light	0.00	8.00	0.00	25
<input type="checkbox"/>	Other				

6. Guards:

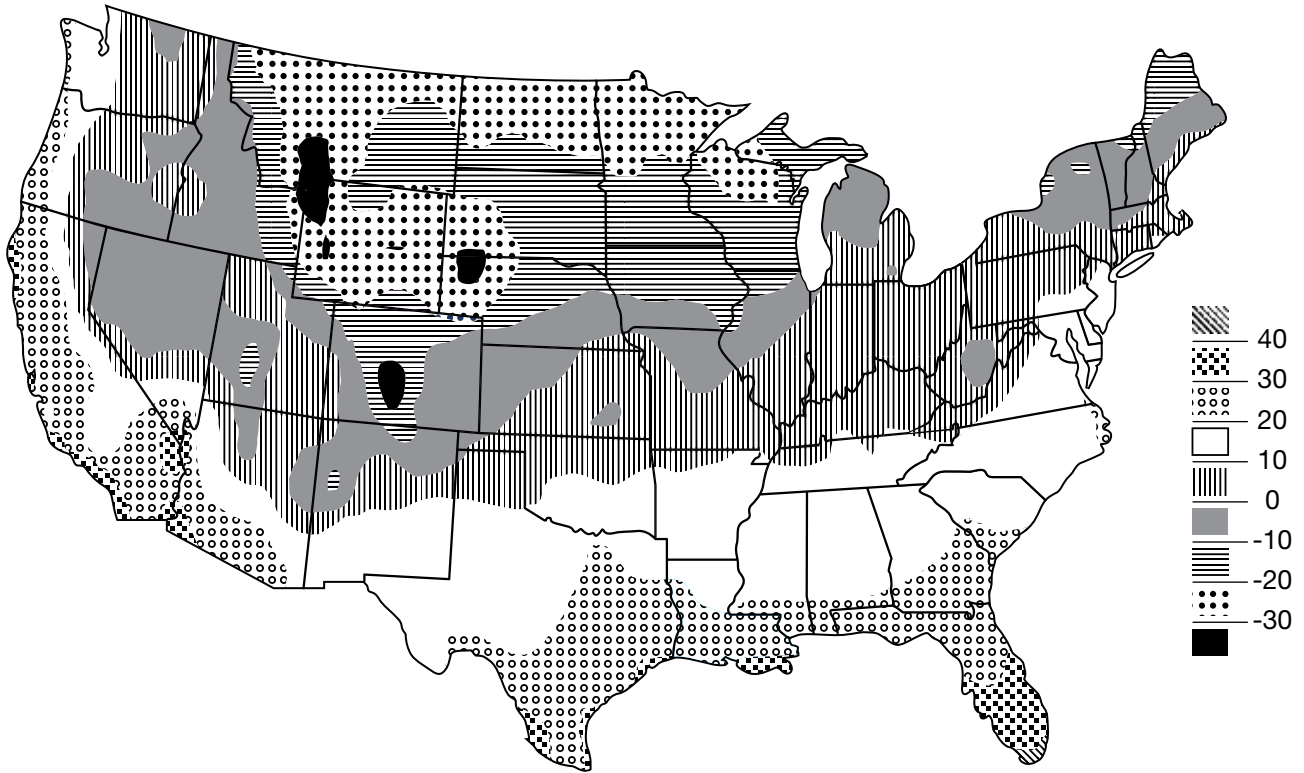
No Guards (None)  Line Guards (LG)  Armor Rods (AR)  Suspension (AGS) Guard length \_\_\_\_\_  
(if not standard in inches)

7. Spans\*:

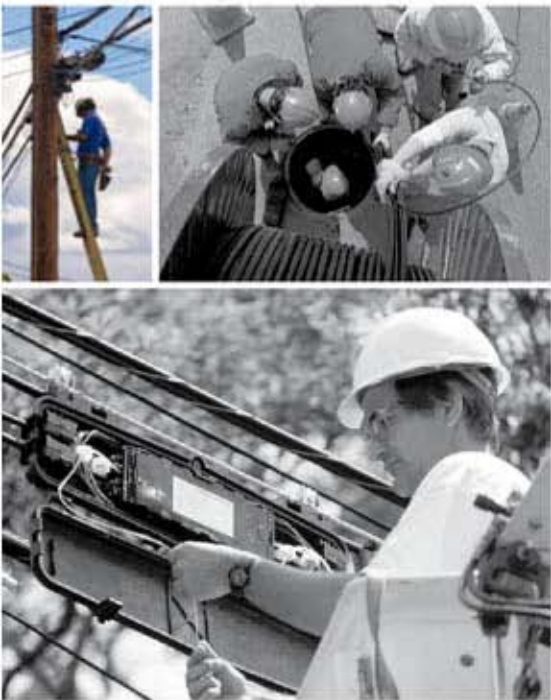
RULING SPAN (ft)	SINGLE SPAN?	MAX SPAN (ft)	INITIAL TENSION @ AAMT BARE (lbs)	FINAL TENSION @ AAT (lbs)	SPAN LIST (optional) EXAMPLE: 700, 750, 450, 950, ...
	<input type="checkbox"/> Yes <input type="checkbox"/> No				
	<input type="checkbox"/> Yes <input type="checkbox"/> No				
	<input type="checkbox"/> Yes <input type="checkbox"/> No				
	<input type="checkbox"/> Yes <input type="checkbox"/> No				
	<input type="checkbox"/> Yes <input type="checkbox"/> No				
	<input type="checkbox"/> Yes <input type="checkbox"/> No				

\*If more spans are needed please attach a spreadsheet with the above information to get damper quantities with the recommendation.

## 2006 Average Annual Minimum Temperature (F°)







 **ACA Conductor Accessories**  
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