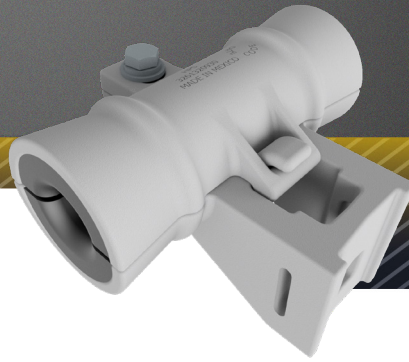


ADSS COMMUNICATION HARDWARE



ADSS Communication Hardware

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OPTI-LOOP™ DIRECT ATTACH FOS

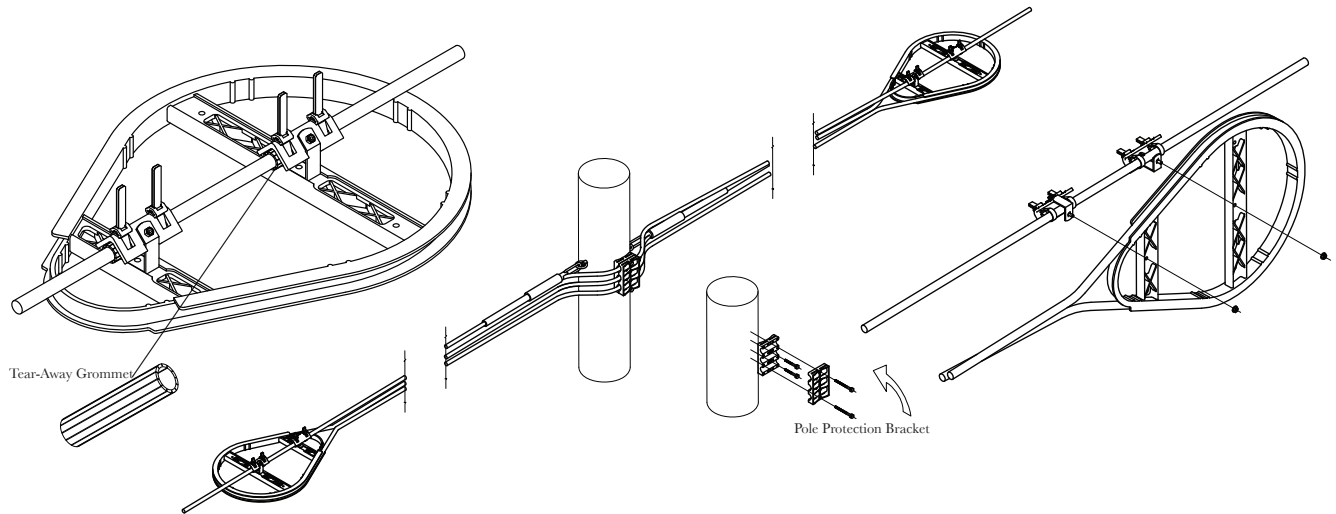
The Opti-Loop™ ADSS Direct Attach unit uses the patented bowtie double deadend process for storing ADSS fiber. This system provides maximum protection for fiber cable, and contains no conductive properties.

MATERIAL

- UV Stabilized Thermoplastic
 - Loop (pair) and Pole Protection Bracket (two pieces)
- Aluminum Mounting Brackets
- Stainless Steel Nut and Galvanized Steel Lag Bolt Hardware
- Rubber Tear-away Grommets
- Acetal Tie Wraps

DESIGN FEATURES AND BENEFITS

- Utilizes self-aligning "Direct Attach" mounting brackets.
- Requires only one tool for installation.
- No "fishing" tie wraps through holes or slots.
- Contains UV inhibitor.



Ordering Information

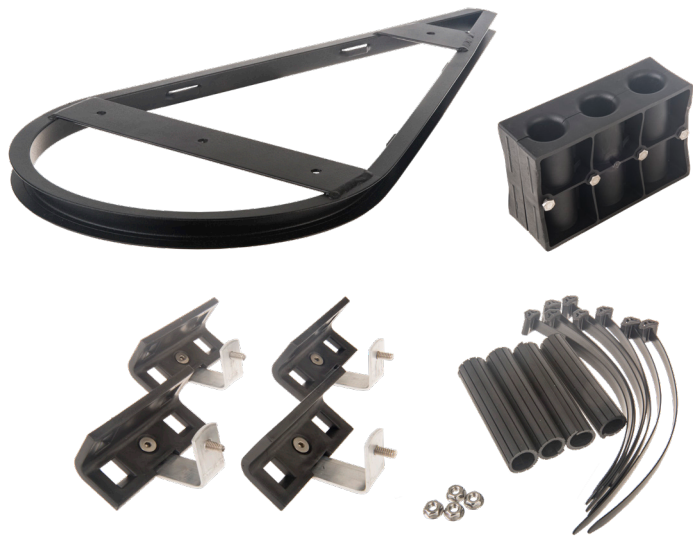
PART NUMBER	SIZE (IN)	LENGTH (IN)	OUTSIDE DIAMETER (IN)	MAX CABLE O.D. (IN)
FOSDA17ADSS	17	26	17.5	0.6
FOSDA12ADSS	12	18	13.1	0.9

OPTI-LOOP™ FOS ALUMINUM ADSS STORAGE SYSTEM

The aluminum Opti-Loop™ FOS for All Dielectric Self Support (ADSS) cable is available in 3 sizes. With more than one million units in service, Opti-Loop fiber storage systems lead the industry in quality and durability.

DESIGN FEATURES AND BENEFITS

- All aluminum construction with continuous welds at crossbars and ends.
- Each pair is individually boxed and includes ADSS Direct Attach mounting brackets, and an all dielectric pole block.
- Fits all fiber cable up to 1.50" OD.
- Powder coat finish
- Tie eyelets designed to accomodate both stainless steel and tie wrap securing methods.
- Radius ends to ensure no sharp corners.
- Outward facing channel and minimal surface area minimizes stress and ice loading.



**Hubbell Power Systems does not recommend using the aluminum ADSS Storage System in the power zone of the pole. It is only recommended for use in the communications zone of the pole. For All Dielectric plastic units please order the FOSDA version.*

Ordering Information				
PART NUMBER	SIZE (IN)	LENGTH (IN)	OUTSIDE DIAMETER (IN)	MAX CABLE O.D. (IN)
FOS20ADSS	20	34	21.4	1.0
FOS24ADSS	24	38	25.4	1.2
FOS30ADSS	30	44	31.4	1.5



OPTI-LOOP™ FIBER CABLE STORAGE WHEEL

The Hubbell® Opti-Loop™ Fiber Cable Storage Wheel provides another convenient option for storing fiber optic cable. This newest member of the Opti-Loop™ family brings versatility, security, and mobility by offering multiple safe mounting options aerially, on a pole or wall, or underground. Designed with the highest of standards and expectations that are associated with the Hubbell® and Opti-Loop™ names, the Cable Wheel delivers an economic solution for your fiber cable storage needs.

MATERIAL

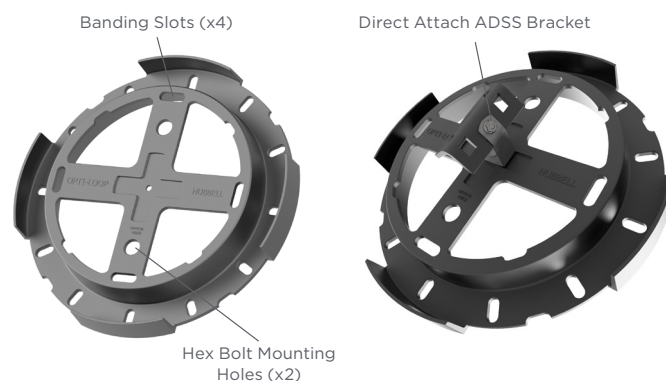
- UV Stabilized Thermoplastic
- Aluminum Bracket (ADSS), Base/Spacer (UND)
- Galvanized Steel Hardware (HEX, CM, UND, UEX)

BENEFITS

- Can be mounted aerially, on a pole or wall, or underground
- Suitable for all types of fiber optic cable
- Protects cable while preventing pinching by utilizing exclusive tie wrap notches
- Features a bracket “safety groove” for greater stability after installation

SPECIFICATIONS

- Convenient slots for banding
 - Accepts standard 20 x 0.7mm banding
- Can be used on All Dielectric Self Support (ADSS) fiber
- Rugged, non-conductive material with UV protection

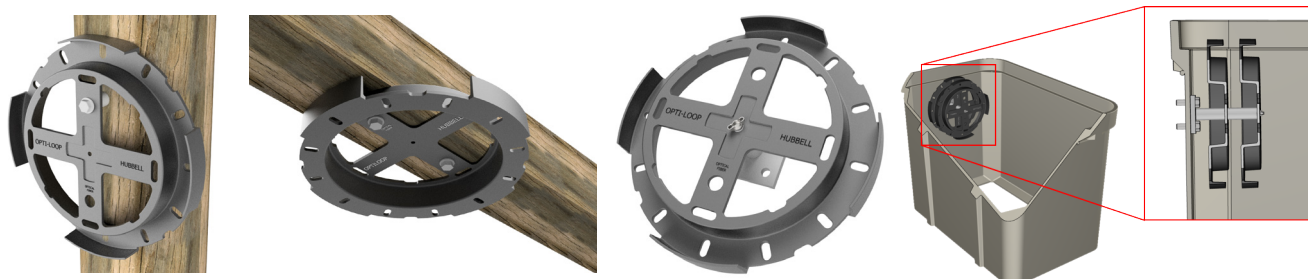


FOSPCW14

FOSPCW14ADSS

FROM LEFT: FOSPCW14HEX, FOSPCW14CM

CUTAWAY VIEW: FOSPCW14UND with FOSPCW14UEX



Ordering Information

PART NUMBER	DIAMETER (IN)	DESCRIPTION	MAX CABLE O.D. (IN)
FOSPCW14	14	One 14" Opti-Loop™ Cable Wheel	0.6
FOSPCW14ADSS		One 14" Opti-Loop™ Cable Wheel with one direct attach ADSS mounting bracket, nut, grommet and ties	
FOSPCW14HEX		One 14" Opti-Loop™ Cable Wheel with one hex head lag bolt, washer, and spacer	
FOSPCW14CM		One 14" Opti-Loop™ Cable Wheel with two hex head lag bolts and two washers	
FOSPCW14UND		One 14" Opti-Loop™ Cable Wheel with mounting base, spacer, wing screw, threaded stud and washer	
FOSPCW14UEX		One 14" Opti-Loop™ Cable Wheel with spacer and threaded stud	



OPTI-LOOP™ HORSE-SHOE

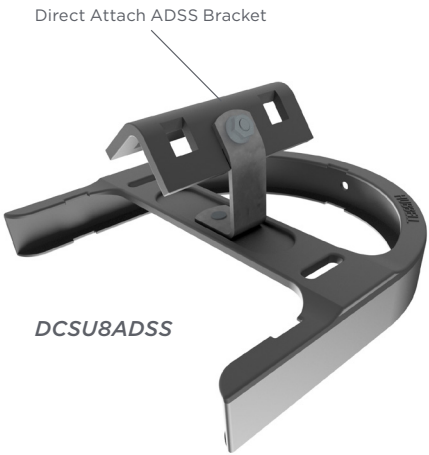
The Opti-Loop Horse-Shoe was designed to store and organize the small amount of slack from a fiber drop that is to be left at an FDT (Fiber Drop Terminal). It is also to be used for the organization or storage of the minimal amount of unused multi-fiber drop, in the placing of a multiport terminal from FITS splices (Factory Installed Termination System). Additionally, the remaining cable left for future use is safely stored, as opposed to the slack hanging in a vertical coil. This procedure stores the coil in a more unobtrusive, horizontal fashion.

MATERIAL

- UV Stabilized Thermoplastic
- Aluminum Bracket (ADSS)
- Rubber Tear-away Grommets and Acetal Tie Wraps (ADSS)
- Galvanized Steel Hardware (PM)

DESIGN FEATURES AND BENEFITS

- Inverted style stores fiber according to its most natural tendency
- Patented design also features angled slots to accommodate the use of banding material on steel or concrete poles
- Lightweight and stackable, tough UV resistant plastic compound
- No coiling of the fiber drop
- Keyed bracket slot, to prevent twisting
- Optional, changeable, mounting hardware for aerial, pole or below-grade hand holes
- All dielectric for use anywhere on the pole
- Weather resistant, non-rusting
- Tie wraps included
- Future drops can be added without disturbing the original bundle



Ordering Information				
PART NUMBER	SIZE (IN)	LENGTH (IN)	DESCRIPTION	MAX CABLE O.D. (IN)
DCSU8ADSS	8	8.2	One 8" Opti-Loop™ Horse-Shoe with one direct attach ADSS mounting bracket, nut, grommet and ties	0.4
DCSU8PM			One 8" Opti-Loop™ Horse-Shoe with one hex head lag bolt and washer	



ADSS WEDGE DEADENDS

The Hubbell ADSS Wedge Style Deadend is designed for fast, easy, and reliable installation of ADSS (All Dielectric Self-Support) aerial fiber optic cable. The deadends are designed with an open, conical body containing a pair of sliding wedges. The wedges are engineered to mechanically couple to the cable without causing damage to the sheath or fibers, providing a secure grip without fear of signal loss.

MATERIAL

- Body: UV Resistant Thermoplastic
- Bail: Stainless Steel

BENEFITS

- Light and compact
- Easy, quick, and safe deadending
- Installation takes seconds with no special tools
- The flexible bail provides an extra protection to the cable against Aeolian vibrations
- Safe for installation near space potentials up to 11kV

SPECIFICATIONS

- Deadending of 0.236" to 0.787" ADSS cables
- Spans up to 325 ft.
- All plastic parts are UV resistant and tested in conditions equivalent to a minimum of 25 years in service
- Accepts standard pole line fittings, including the CPB Communication Pole Bracket (page 17)
- Recommended for double jacket ADSS cables. For single jacket cables, contact the manufacturer for recommendations.



Ordering Information

PART NUMBER	CABLE DIAMETER RANGE				ULTIMATE BODY STRENGTH (LBF)
	MIN (IN)	MAX (IN)	MIN (MM.)	MAX (MM.)	
WEGADSS100	0.236	0.315	6	8	750
WEGADSS101	0.315	0.394	8	10	750
WEGADSS102	0.394	0.472	10	12	1650
WEGADSS103	0.472	0.551	12	14	1650
WEGADSS104	0.551	0.630	14	16	1650
WEGADSS105	0.630	0.709	16	18	1650
WEGADSS106	0.709	0.787	18	19	1650

LITE TENSION ADSS FORMED WIRE DEADENDS

The ADSS Formed Wire Deadend is designed to securely but safely terminate all ADSS (All Dielectric Self-Support) aerial fiber optic cables with spans up to 300 ft.

MATERIAL

- Galvanized Steel

BENEFITS

- Economical single component design
- Shorter lengths result in shorter installation time

SPECIFICATIONS

- Deadending of 0.394" to 0.748" ADSS cables
- Spans up to 300 ft.
- For standard ADSS jackets

TENSION

- Lite tensions, approximately:
 - 600# (2.7 kN) maximum initial (stringing/nominal axial/long-term) tension
 - 800# (3.5 kN) maximum loaded (working/loaded axial/short-term) tension



TO INCLUDE "L14" EXTENSION LINK, "6502" EYENUT, AND
"TC1" THIMBLE CLEVIS, ADD "CEL" SUFFIX TO DEADEND PART NUMBER



Ordering Information

PART NUMBER	CABLE DIAMETER RANGE				OVERALL LENGTH		COLOR
	MIN (IN)	MAX (IN)	MIN (MM.)	MAX (MM.)	IN.	MM.	
AFWDEL100	0.394	0.433	10	11	18	450	GREEN
AFWDEL101	0.453	0.492	11.5	12.5	22	550	RED
AFWDEL102	0.512	0.551	13	14.0	23	590	BLUE
AFWDEL103	0.571	0.610	14.5	15.5	25	630	BLACK
AFWDEL104	0.630	0.685	16	17.4	27	680	BROWN
AFWDEL105	0.689	0.748	17.5	19	28	720	ORANGE

* To include accessories in the same carton, add the suffix CEL to the part number. For instance AFWDEL100CEL includes deadend AFWDEL100, TC1 thimble clevis, 6502 eyenut, and L14 extension link.

LIMITED TENSION ADSS FORMED WIRE DEADENDS

The ADSS Formed Wire Deadend with armor rods is designed to securely but safely terminate all ADSS (All Dielectric Self-Support) aerial fiber optic cables with spans up to 500 feet.

MATERIAL

- Galvanized Steel

BENEFITS

- Armored rods included for increased strength
- Suitable for temperatures and conditions defined by cable manufacturers

SPECIFICATIONS

- Deadending of 0.413" to 0.654" ADSS cables
- Spans up to 500 ft.
- For standard ADSS jackets

TENSION

- Low tensions, approximately:
 - 1000# (4.4 kN) maximum initial (stringing/nominal axial/long-term) tension
 - 2500# (11.1 kN) maximum loaded (working/loaded axial/short-term) tension



TO INCLUDE "L14" EXTENSION LINK, "6502" EYENUT, AND
"TC1" THIMBLE CLEVIS, ADD "CEL" SUFFIX TO DEADEND PART NUMBER



Ordering Information

PART NUMBER	CABLE DIAMETER RANGE				OVERALL LENGTH				COLOR
					ARMOR RODS		DEADENDS		
	MIN (IN)	MAX (IN)	MIN (MM.)	MAX (MM.)	IN.	MM.	IN.	MM.	
AFWDEL107	0.413	0.445	10.5	11.3	40	1015	32	820	WHITE
AFWDEL108	0.453	0.496	11.5	12.6	40	1015	32	820	YELLOW
AFWDEL110	0.492	0.535	12.5	13.6	40	1015	32	820	BLACK
AFWDEL111	0.531	0.571	13.5	14.5	40	1015	32	820	BLUE
AFWDEL112	0.559	0.598	14.2	15.2	40	1015	32	820	RED
AFWDEL113	0.602	0.654	15.3	16.6	40	1015	32	820	BROWN

* To include accessories in the same carton, add the suffix CEL to the part number. For instance AFWDEL107CEL includes deadend AFWDEL107, TC1 thimble clevis, 6502 eyenut, and L14 extension link.

MEDIUM TENSION ADSS FORMED WIRE DEADENDS

The Hubbell ADSS Formed Wire Deadend with armor rods is designed to securely but safely deadend all ADSS (All Dielectric Self Support) aerial fiber optic cables with spans up to 1100 ft.

MATERIAL

- Galvanized Steel

BENEFITS

- Armor rods included for increased strength
- Suitable for temperatures and conditions defined by cable manufacturers

SPECIFICATIONS

- Deadending of 0.618" to 0.870" ADSS cables
- Spans up to 1100 ft.
- For standard ADSS jackets

TENSION

- Limited to Moderate tensions, approximately:
2000# (4.4 kN - 8.9 kN) maximum initial tension
4000# (11.1 kN - 17.8 kN) maximum loaded tension



TO INCLUDE "L14" EXTENSION LINK, "6502" EYENUT, AND "TC1" THIMBLE CLEVIS, ADD "CEL" SUFFIX TO DEADEND PART NUMBER

Ordering Information

PART NUMBER	CABLE DIAMETER RANGE				OVERALL LENGTH				COLOR
					ARMOR RODS		DEADENDS		
	MIN (IN)	MAX (IN)	MIN (MM.)	MAX (MM.)	IN.	MM.	IN.	MM.	
AFWDEL114	0.618	0.657	15.7	16.7	91	2300	56	1420	GREEN
AFWDEL115	0.642	0.681	16.3	17.3	60	1525	43	1100	WHITE
AFWDEL116	0.693	0.732	17.6	18.6	91	2300	56	1420	BLUE
AFWDEL117	0.705	0.744	17.9	18.9	60	1525	43	1100	YELLOW
AFWDEL120	0.831	0.870	21.1	22.1	60	1525	42	1100	BLACK

* To include accessories in the same carton, add the suffix CEL to the part number. For instance AFWDEL114CEL includes deadend AFWDEL114, TC1 thimble clevis, 6502 eyenut, and L14 extension link.

SPIRAL VIBRATION DAMPERS

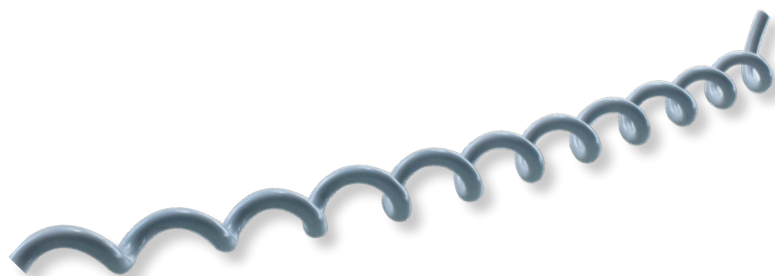
The ADSS spiral vibration damper reduces Aeolian vibration. Aeolian vibration is a high frequency, low amplitude vibration caused by wind passing across the fiber cable. This vibration can cause support hardware to breakdown and fail over time. The spiral vibration dampers are made of PVC and are very easy to install.

MATERIAL

- PVC

BENEFITS

- Reduces Aeolian and galloping vibrations
- Easy installation
- Dielectric material



Ordering Information

PART NUMBER	CABLE DIAMETER RANGE				LENGTH (IN.)
	MIN (IN)	MAX (IN)	MIN (MM.)	MAX (MM.)	
SVD103	0.252	0.327	6.4	8.3	49
SVD104	0.327	0.461	8.3	11.7	51
SVD105	0.461	0.563	11.7	14.3	53
SVD106	0.563	0.760	14.3	19.3	65

FIXED ALUMINUM ADSS SUSPENSION CLAMP

The Hubbell fixed aluminum ADSS suspension clamp is a heavy duty, versatile, and reliable solution for securely suspending ADSS (All Dielectric Self-Support) aerial fiber optic cable. The versatility of the clamp allows the installer to fix the clamp to the pole using either a through bolt or band. Accepting a full range of ADSS cable sizes from 0.426" to 1.050", the Hubbell fixed aluminum ADSS suspension clamp is sure to meet your tangent needs.

MATERIAL

- Body: Aluminum
- Insert: Polyurethane
- Hardware: Galvanized steel, Neoprene

BENEFITS

- Full range of ADSS cable coverage from 0.426" to 1.050" diameter
- Installation with through bolt or banding
- Versatile design can be used as a stringing block (with inserts removed)

SPECIFICATIONS

- Tangent suspension for spans up to 600 ft.
- 30° max turning angle
- Ultimate vertical load: 4000 lbs.
- Meets IEEE 1591.2



Ordering Information

PART NUMBER		CABLE DIAMETER RANGE	
COMPLETE ASSEMBLY	INSERTS ONLY (PAIR)	MIN (MM.)	MAX (MM.)
HUBSUSF199	HUB239	0.426 (10.8)	0.475 (12.0)
HUBSUSF200	HUB125	0.476 (12.1)	0.525 (13.3)
HUBSUSF201	HUB126	0.526 (13.4)	0.575 (14.6)
HUBSUSF202	HUB127	0.576 (14.7)	0.625 (15.9)
HUBSUSF203	HUB128	0.626 (16.0)	0.675 (17.1)
HUBSUSF204	HUB129	0.676 (17.2)	0.750 (19.1)
HUBSUSF205	HUB130	0.751 (19.2)	0.825 (21.0)
HUBSUSF206*	HUB131	0.826 (21.1)	0.900 (22.9)
HUBSUSF207*	HUB132	0.901 (23.0)	0.975 (24.8)
HUBSUSF208*	HUB133	0.976 (24.9)	1.050 (26.7)

For housing only, order HUBSUSF

For 14" x 5/8" bolt and nut installation hardware sold separately, order 8814.

For stainless steel banding kit hardware sold separately, order CBAB5840 (includes: 1-1/4" x 40" stainless steel band and buckle w/ carriage bolt).

*Consult factory for information on standards qualification.

FIXED ALUMINUM ADSS SUSPENSION CLAMP

The Hubbell hanging aluminum ADSS suspension clamp is a heavy duty, versatile, and reliable solution for securely suspending ADSS (All Dielectric Self-Support) aerial fiber optic cable. The versatility of the clamp allows the installer to hang the clamp with either a J-hook or eye-bolt. Accepting a full range of ADSS cable sizes from 0.426" to 1.050", the Hubbell hanging aluminum ADSS suspension clamp is sure to meet your tangent needs.

MATERIAL

- Body: Aluminum
- Insert: Polyurethane
- Hardware: Galvanized steel, Neoprene

BENEFITS

- Full range of ADSS cable coverage from 0.426" to 1.050" diameter
- Installation with J-hook or eye-bolt

SPECIFICATIONS

- Tangent suspension for spans up to 600 ft.
- 30° max turning angle
- Ultimate vertical load: 4000 lbs.
- Meets IEEE 1591.2
-



Ordering Information

PART NUMBER		CABLE DIAMETER RANGE	
COMPLETE ASSEMBLY	INSERTS ONLY (PAIR)	MIN (MM.)	MAX (MM.)
HUBSUSH199	HUB239	0.426 (10.8)	0.475 (12.0)
HUBSUSH200	HUB125	0.476 (12.1)	0.525 (13.3)
HUBSUSH201	HUB126	0.526 (13.4)	0.575 (14.6)
HUBSUSH202	HUB127	0.576 (14.7)	0.625 (15.9)
HUBSUSH203	HUB128	0.626 (16.0)	0.675 (17.1)
HUBSUSH204	HUB129	0.676 (17.2)	0.750 (19.1)
HUBSUSH205	HUB130	0.751 (19.2)	0.825 (21.0)
HUBSUSH206*	HUB131	0.826 (21.1)	0.900 (22.9)
HUBSUSH207*	HUB132	0.901 (23.0)	0.975 (24.8)
HUBSUSH208*	HUB133	0.976 (24.9)	1.050 (26.7)

For housing only, order HUBSUSH

For J-hook, nut and washer installation hardware sold separately, order PSC2080237.

For eye-bolt or eye-nut installation applications, use a twisted anchor shackle or two anchor shackles.

*Consult factory for information on standards qualification.



ADSS SUSPENSION CLAMPS

The Hubbell ADSS suspension clamp is a heavy duty, versatile, and reliable solution for securely suspending ADSS (All Dielectric Self-Support) aerial fiber optic cable. The versatility of the clamp allows the installer to either fix the clamp to the pole using a through bolt or band. If a loose tangent is required, the clamp can be suspended using a standard J-hook (Part # PSC2080237). Accepting a range of sizes and multiple installation methods, the Hubbell ADSS suspension clamp is sure to meet your tangent needs.

MATERIAL

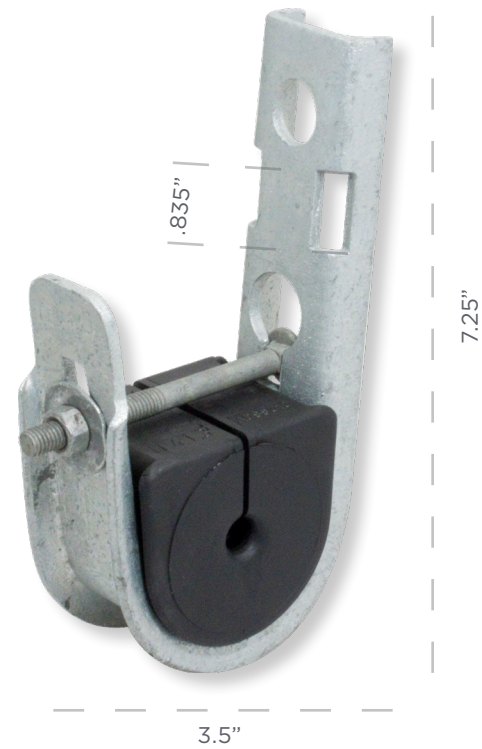
- Body: Galvanized Steel
- Insert: Neoprene Sleeve

BENEFITS

- Two sizes to cover the full range of ADSS cables from 0.394" to 0.787"
- Installation in just a few seconds with standard tools
- Versatility in installation methods

SPECIFICATIONS

- Tangent suspension for spans up to 600 ft.
- Less than 20° angle on cable routes between spans (For angles greater than 20°, double deadend or false deadend)



Ordering Information					
PART NUMBER	CABLE DIAMETER RANGE				ULTIMATE BODY STRENGTH (LBS.)
	MIN (IN)	MAX (IN)	MIN (MM.)	MAX (MM.)	
ASCF102	0.394	0.591	10	15	3000
ASCF114	0.591	0.787	15	20	3000



ADSS HANGING SUSPENSION CLAMPS

The Hubbell ADSS Dielectric Suspension Clamp is a great choice when installing ADSS (All Dielectric Self-Support) aerial fiber optic cable near the energized zone on a utility pole. Installed as a float mount, the clamp is best used on a closed eye nut (Part #'s 6500, 6501, 6502, 6503).

MATERIAL

- Body: UV Resistant Thermoplastic
- Insert: Neoprene Sleeve

BENEFITS

- Lightweight, compact, and cost effective design
- Dielectric body
- Installation in seconds
- Suspension bails provide additional protection against Aeolian vibration

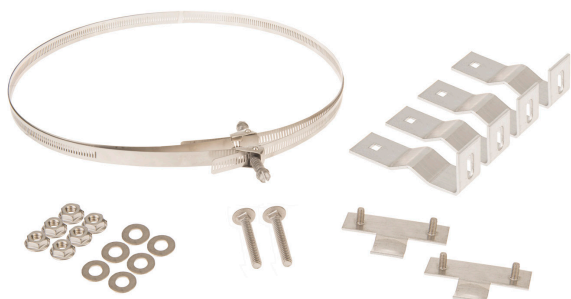
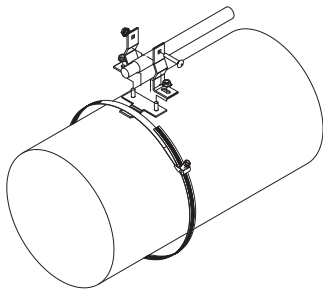
SPECIFICATIONS

- Tangent suspension for spans up to 325 ft.
- Less than 20° angle on cable routes between spans (For angles greater than 20°, double deadend or false deadend)



Ordering Information					
PART NUMBER	CABLE DIAMETER RANGE				ULTIMATE BODY STRENGTH (LBF)
	MIN (IN)	MAX (IN)	MIN (MM.)	MAX (MM.)	
AHSC800	0.315	0.472	8	12	450
AHSC1200	0.472	0.630	12	16	450

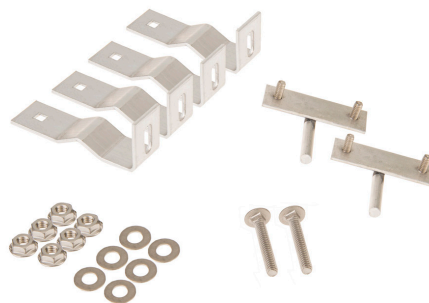
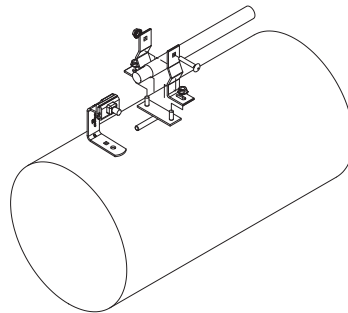
OPTI-LOOP™ UNIVERSAL BRACKET KITS



UBK

Used to mount splice closure to dead end, armor rod, or fiberglass extension arm using universal bands.

Contents: (2) T-Stud brackets, (4) Kit brackets (6) Flanged nuts, (6) Washers, (2) Carriage bolts, (2) Universal bands.



UB1

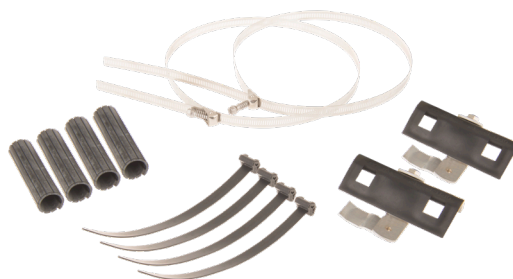
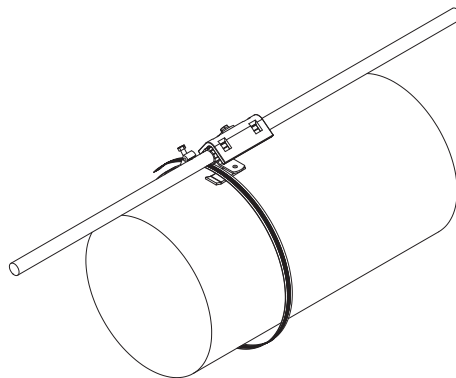
Adapts dead end, armor rod, or fiberglass extension arm for use with standard splice closure manufacturer's messenger mounting hardware.

Contents: (2) Rod Stud brackets, (4) Kit brackets, (6) Flanged nuts, (6) Washers, (2) Carriage bolts

UBK-ADSS

Used to mount splice closure directly to ADSS fiber using Opti-Loop direct attach banding bracket assembly and adjustable peel-away grommet. Note: Consult cable manufacturer before using this method.

Contents: (2) Direct attach banding bracket assembly, (2) Direct attach grommets, (4) Delrin tywraps, (2) Universal bands.



COMMUNICATION POLE BRACKET

The Hubbell Communications Pole Bracket (CPB) is designed to be a high strength, universal fitting for use on all wooden, metal, or concrete poles using either a 5/8" bolt or two 3/4" stainless steel bands.

MATERIAL

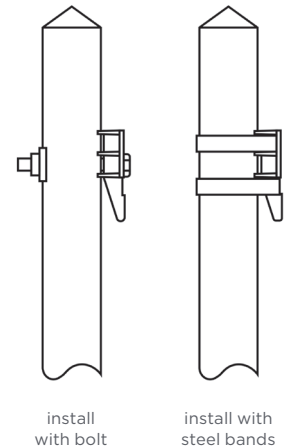
- Aluminum

BENEFITS

- Provides three attachment points to cover a wide array of deadending applications - single, double and triple deadending options available on a single bracket

SPECIFICATIONS

- Through hole (.67" diameter) for 5/8" bolt installation
- Incorporates two defined areas for 3/4" stainless steel banding installation
- For use in telecom applications only



NOTES

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NOTES

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NOTE: Because Hubbell has a policy of continuous product improvement, we reserve the right to change design and specifications without notice.
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