AFL

SOLO HD® COMPRESSION ACCESSORIES

Dead Ends | Joints

ACSR Conductors | ACSS Conductors | ACSS/TW Conductors

Founded in 1984, AFL is an international manufacturer providing end-to-end solutions to the energy, service provider, enterprise, hyperscale and industrial markets as well as several emerging markets.

AFL's products are in use in over 130 countries and include fiber optic cable and hardware, transmission and substation accessories, outside plant equipment, connectivity, test and inspection equipment, fusion splicers and training.

AFL also offers a wide variety of services supporting data center, enterprise, wireless and outside plant applications.

AFL is dedicated to bringing our customers a quality product as well as delivering superior value.

AFL

COMPANY WITH QUALITY SYSTEM CERTIFIED BY DNV GL = ISO 9001 =

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Introduction

General

AFL has led in the development of aluminum conductor accessories since the late 1890s. More than 120 years of continuous research, development and field experience have resulted in AFL's superior accessory products.

Complete Compression Solution

AFL has the industry's most complete line of compression accessories — dead ends, jumper terminals, joints, T-taps, repair sleeves and terminal connectors — designed to operate, regardless of the electrical load, at a temperature lower than that of the conductor. AFL has seven different compression configurations to suit all of your needs:

- HiTemp® Compression System
- ACCC HiTemp Compression System
- Implosive Technology IMPACCT®
- Quick Compress Single Die System
- Standard Compression Two Die System
- ACCR 3M Composite HiTemp Two Die System
- Solo HD Compression Accessories

NEW! Solo HD Compression System

The Solo HD Compression System is a significant technological breakthrough for users of compression-style connectors on ACSR and ACSS conductors. Solo HD is an innovative new compression product line designed to improve field installation practices and reduce installation times. The Solo HD compression system is simple, versatile and typically requires half the time than any conventional two die compression system.

Additional benefits of the Solo HD system include:

- Fewer compressions per unit required over any standard two-die compression system in the market
- One single compression die set through the complete installation, eliminating die changes, setups and steel hex die upkeep
- Full tension system with a tensile rating greater than 95% of the conductor-rated breaking strength (RBS)
- Splices capable of traveling over sheaves or blocks without suffering performance losses, allowing a single setup to pay off more than one reel of conductor
- No filler compound needed, eliminating the guesswork associated with filling the proper amount of compound and installation time
- Available for use on ACSR, ACSS, ACSR/TW and ACSS/TW applications with typical operating temperatures up to 250°C
- No new training or tooling required

The Solo HD compression system is the perfect solution to provide quick turnaround on new and existing projects, plus its capacity to accept multiple conductors decreases the number of compression SKUs at the warehouse and in the field thereby reducing the inventory budget required to maintain the electrical grid.

Solo HD® Compression Dead End for ACSR and ACSS Conductors, Eye and Clevis Type, Single Tongue

This Dead End Assembly is specifically designed for use on both ACSR and ACSS conductors. The body of the Solo HD Dead End is fabricated from a specially tempered aluminum that will transfer elevated current and dissipate increased heat more efficiently.

The tongue and terminal pad are constructed with a 15º angle, which permits the terminal connector to be bolted in the straight or 30º position. Its innovative design provides a solid, void-free compression through the complete unit with once set of dies, reducing the total quantity of compressions and installation time by almost half when compared to the of the ones required by the two die compression systems while keeping the same reliable and proven performance.

All Solo HD Dead Ends are designed for full tension use, achieving a minimum of 95% of the ASTM rated strength of the conductor. Each deadend assembly comes with terminal and aluminum hardware.

For die sizes 30AH and above, the end tapers of the compression portions of all compression accessories are supplied with a high voltage finish. Corona bolts are furnished as standard on 15º terminals for these die sizes.

The square edges of the bolted pads of the compression accessories could cause Corona. Pads with edges and corners rounded can be supplied by adding the catalog suffix "EHV".

Benefits

- **Half the Installation Time**
  Using an innovative core gripping system that allows a single die to compress the outer aluminum barrel to grip both the steel core as well as the aluminum strands, utilizing the same Aluminum Hex (AH) die set.
- **No Filler Compound Required**
  By creating a practically void-free compression, eliminating ingress of water, and using steels that eliminate the exposure of raw steel after, thereby eliminating rust and corrosion, AFL has removed variability of the amount of compound being placed in each connector.
- **Joints Travel Over Sheaves**
  Enhancing speed of installation, full tension joints can travel through sheaves without impact to the performance of the connector, allowing for more conductor to be strung from a single location.
- **Same Install Method**
  With no new tools required, installation crews do not require training on new compression tools.
- **One Connector**
  Assembly can be used for both ACSS and ACSR type conductors, eliminating the need for multiple part numbers.
- **Same Compression Die Set**
  The Aluminum Hex (AH) die size remains the same as that of the standard AFL two-die system used today and eliminates the need for the Steel Hex (SH) dies altogether.
- **Same Compression Tools**
  By using the same compression pumps and presses, AFL does not require the need for a large investment in both the tools and training.

Qualifications

GOVERNING BODY	STANDARD CODE
ANSI	C119.4

Contact AFL for further details.

continued

Solo HD® Compression Dead End for ACSR and ACSS Conductors, Eye and Clevis Type, Single Tongue

Ordering Information

Assembly Catalog No.	Terminal Connector	EHV Finish

Step 1: Assembly Catalog Number
Determine the assembly catalog number based on the conductor being used.

For a clevis application substitute the E for a C:
SDES-AS: EYE TERMINATION
SDCS-AS: CLEVIS TERMINATION

Step 2: Terminal Connector
For an assembly without a terminal connector, use "NT".
For an assembly with a terminal connector, leave blank.

Step 3: Extra High Voltage Finish
For Extra High Voltage Finish, use "EHV". (> 345 kV).
For Standard Finish, leave blank. (< 345 kV)

Step 4: Assemble Catalog Number

EXAMPLE: For 795 Drake ACSS Conductor with no terminal and EHV finish, the complete catalog number is: **SDES-AS142HTNTEHV**

Notes –
For instructions, see Solo HD ACSR/ACSS/ACSS-TW Dead End installation instructions INS-ACA116

ASSEMBLY CATALOG NO.	CONDUCTORS					ALUMINUM HEX DIES
	ACSR AND ACSS	SIZE	STRAND		DIAMETER	
		KCMIL	AL	ST		
SDES-AS109HT	WOODCOCK	336.4	22	7	0.701	20AH
SDES-AS113HT	LINNET	336.4	26	7	0.720	20AH
SDES-AS114HT	ORIOLE	336.4	30	7	0.741	20AH
SDES-AS185HT	CHICKADEE	397.5	18	1	0.743	20AH
SDES-AS115HT	PTARMIGAN	397.5	20	7	0.752	20AH
SDES-AS116HT	BRANT	397.5	24	7	0.772	20AH
SDES-AS117HT	IBIS	397.5	26	7	0.783	20AH
SDES-AS118HT	LARK	397.5	30	7	0.806	20AH
SDES-AS186HT	PELICAN	477.0	18	1	0.814	24AH
SDES-AS119HT	TAILORBIRD	477.0	20	7	0.823	20AH
SDES-AS120HT	FLICKER	477.0	24	7	0.846	24AH
SDES-AS121HT	HAWK	477.0	26	7	0.858	24AH
SDES-AS122HT	HEN	477.0	30	7	0.883	24AH
SDES-AS187HT	OSPREY	556.5	18	1	0.879	24AH
SDES-AS123HT	SAPSUCKER	556.5	22	7	0.901	24AH
SDES-AS124HT	PARAKEET	556.5	24	7	0.914	24AH
SDES-AS125HT	DOVE	556.5	26	7	0.927	27AH
SDES-AS126HT	EAGLE	556.5	30	7	0.953	27AH
SDES-AS127HT	PEACOCK	605.0	24	7	0.953	27AH
SDES-AS128HT	SQUAB	605.0	26	7	0.966	27AH
SDES-AS130HT	WOOD/DUCK	605.0	30	7	0.994	27AH
SDES-AS129HT	TEAL	605.0	30	19	0.994	27AH
SDES-AS188HT	SWIFT	636.0	36	1	0.930	27AH
SDES-AS189HT	KINGBIRD	636.0	18	1	0.940	27AH
SDES-AS131HT	GOLDFINCH	636.0	22	7	0.963	27AH
SDES-AS132HT	ROOK	636.0	24	7	0.977	27AH
SDES-AS133HT	GROSBEAK	636.0	26	7	0.990	27AH
SDES-AS182HT	SCOTER	636.0	30	7	1.019	27AH
SDES-AS134HT	EGRET	636.0	30	19	1.019	27AH

continued

Solo HD® Compression Dead End for ACSR and ACSS Conductors, Eye and Clevis Type, Single Tongue

AFL NO.	CONDUCTORS					ALUMINUM HEX DIES
	ACSR AND ACSS	SIZE	STRAND		DIAMETER	
		KCMIL	AL	ST		
SDES-AS135HT	FLAMINGO	666.6	24	7	1.000	27AH
SDES-AS183HT	GANNET	666.6	26	7	1.014	27AH
SDES-AS136HT	STILT	715.5	24	7	1.036	30AH
SDES-AS137HT	STARLING	715.5	26	7	1.051	30AH
SDES-AS138HT	REDWING	715.5	30	19	1.081	30AH
SDES-AS190HT	COOT	795.0	36	1	1.040	30AH
SDES-AS141HT	CUCKOO	795.0	24	7	1.092	30AH
SDES-AS142HT	DRAKE	795.0	26	7	1.108	30AH
SDES-AS144HT	MACAW	795.0	42	7	1.055	30AH
SDES-AS140HT	TERN	795.0	45	7	1.063	30AH
SDES-AS141HT	CONDOR	795.0	54	7	1.092	30AH
SDES-AS143HT	MALLARD	795.0	30	19	1.14	30AH
SDES-AS145HT	RUDDY	900.0	45	7	1.131	30AH
SDES-AS146HT	CANARY	900.0	54	7	1.162	30AH
SDES-AS191HT	CATBIRD	954.0	36	1	1.14	30AH
SDES-AS147HT	CORNCRAKE	954.0	20	7	1.165	30AH
SDES-AS184HT	REDBIRD	954.0	24	7	1.196	30AH
SDES-AS148HT	RAIL	954.0	45	7	1.165	30AH
SDES-AS149HT	TOWHEE	954.0	48	7	1.175	30AH
SDES-AS150HT	CARDINAL	954.0	54	7	1.196	30AH
SDES-AS151HT	CANVASBACK	954.0	30	19	1.248	34AH
SDES-AS192HT	TANAGER	1033.5	36	1	1.186	30AH
SDES-AS153HT	SNOWBIRD	1033.5	42	7	1.203	34AH
SDES-AS152HT	ORTOLAN	1033.5	45	7	1.212	34AH
SDES-AS154HT	CURLEW	1033.5	54	7	1.245	34AH
SDES-AS155HT	BLUEJAY	1113.0	45	7	1.259	34AH
SDES-AS157HT	FINCH	1113.0	54	19	1.293	34AH
SDES-AS158HT	BUNTING	1192.5	45	7	1.302	34AH
SDES-AS159HT	GRACKLE	1192.5	54	19	1.338	36AH
SDES-AS161HT	BITTERN	1272.0	45	7	1.345	36AH
SDES-AS162HT	DIVER	1272.0	48	7	1.357	36AH
SDES-AS163HT	PHEASANT	1272.0	54	19	1.382	36AH
SDES-AS164HT	DIPPER	1351.5	45	7	1.386	36AH
SDES-AS166HT	MARTIN	1351.5	54	19	1.424	38AH
SDES-AS167HT	BOBOLINK	1431.0	45	7	1.427	38AH
SDES-AS169HT	PLOVER	1431.0	54	19	1.465	38AH
SDES-AS170HT	NUTHATCH	1510.0	45	7	1.466	38AH
SDES-AS172HT	PARROT	1510.0	54	19	1.505	40AH
SDES-AS171HT	RATITE	1590.0	42	7	1.492	40AH
SDES-AS173HT	LAPWING	1590.0	45	7	1.504	40AH
SDES-AS174HT	FALCON	1590.0	54	19	1.544	40AH
SDES-AS175HT	CHUKAR	1780.0	84	19	1.602	42AH
SDES-AS176HT	MOCKINGBIRD	2034.5	72	7	1.681	42AH
SDES-AS177HT	ROADRUNNER	2057.0	76	19	1.700	42AH
SDES-AS178HT	BLUEBIRD	2156.0	84	19	1.762	44AH
SDES-AS179HT	KIWI	2167.0	72	7	1.735	44AH
SDES-AS180HT	THRASHER	2312.0	76	19	1.802	44AH
SDES-AS181HT	JOREE	2515.0	76	19	1.880	48AH

Solo HD® Compression Dead End for ACSR and ACSS Conductor, Eye and Clevis Type, Double Tongue

This Double Tongue Dead End Assembly is specifically designed for ACSR and ACSS conductor. The body of the Solo HD Dead Ends are fabricated from a specially tempered aluminum that will transfer elevated current and dissipate increased heat more efficiently.
The tongue and terminal pad are constructed with a 15° angle, which permits the terminal connector to be bolted in the straight or 30° position. Its innovative design provides a solid, void-free compression through the complete unit with once set of dies, reducing the total quantity of compressions and installation time by almost ½ when compared to the of the ones required by the two die compression systems while keeping the same reliable and proven performance.

All Solo HD Dead Ends are designed for full tension use, achieving a minimum of 95% of the ASTM rated strength of the conductor. Each dead end assembly comes with two 15° terminals and aluminum hardware.

For die sizes 30AH and above, the end tapers of the compression portions of all compression accessories are supplied with a high voltage finish. Corona bolts are furnished as standard on 15° terminals for these die sizes.

The square edges of the bolted pads of the compression accessories could cause Corona. Pads with edges and corners rounded can be supplied by adding the catalog suffix "EHV".

Benefits

- **Half the Installation Time**
  Using an innovative core gripping system that allows a single die to compress the outer aluminum barrel to grip both the steel core as well as the aluminum strands, utilizing the same Aluminum Hex (AH) die set.
- **No Filler Compound Required**
  By creating a practically void-free compression, eliminating ingress of water, and using steels that eliminate the exposure of raw steel after, thereby eliminating rust and corrosion, AFL has removed variability of the amount of compound being placed in each connector.
- **Joints Travel Over Sheaves**
  Enhancing speed of installation, full tension joints can travel through sheaves without impact to the performance of the connector, allowing for more conductor to be strung from a single location.
- **Same Install Method**
  With no new tools required, installation crews do not require training on new compression tools.
- **One Connector**
  Assembly can be used for both ACSS and ACSR type conductors, eliminating the need for multiple part numbers.
- **Same Compression Die Set**
  The Aluminum Hex (AH) die size remains the same as that of the standard AFL two-die system used today and eliminates the need for the Steel Hex (SH) dies altogether.
- **Same Compression Tools**
  By using the same compression pumps and presses, AFL does not require the need for a large investment in both the tools and training.

Qualifications

GOVERNING BODY	STANDARD CODE
ANSI	C119.4

Contact AFL for further details.

continued

Solo HD® Compression Dead End for ACSR and ACSS Conductor, Eye and Clevis Type, Double Tongue

Ordering Information

Assembly Catalog No.	Terminal Connector	EHV Finish

Step 1: Assembly Catalog Number
Determine the assembly catalog number based on the conductor being used.

For a clevis application substitute the E for a C:
SDED-AS: EYE TERMINATION
SDCD-AS: CLEVIS TERMINATION

Step 2: Terminal Connector
For an assembly without a terminal connector, use "NT".
For an assembly with a terminal connector, leave blank.

Step 3: Extra High Voltage Finish
For Extra High Voltage Finish, use "EHV". (> 345 kV)
For Standard Finish, leave blank. (< 345 kV)

Step 4: Assemble Catalog Number

EXAMPLE: For 795 Drake ACSS Conductor with no terminal and EHV finish, the complete catalog number is: **SDED-AS142HTNTEHV**

Notes –

For instructions, see Solo HD ACSR/ACSS/ACSS-TW Dead End installation instructions INS-ACA116

ASSEMBLY CATALOG NO.	CONDUCTORS					ALUMINUM HEX DIES
	ACSR AND ACSS	SIZE	STRAND		DIAMETER	
		KCMIL	AL	ST		
SDED-AS109HT	WOODCOCK	336.4	22	7	0.701	20AH
SDED-AS113HT	LINNET	336.4	26	7	0.720	20AH
SDED-AS114HT	ORIOLE	336.4	30	7	0.741	20AH
SDED-AS185HT	CHICKADEE	397.5	18	1	0.743	20AH
SDED-AS115HT	PTARMIGAN	397.5	20	7	0.752	20AH
SDED-AS116HT	BRANT	397.5	24	7	0.772	20AH
SDED-AS117HT	IBIS	397.5	26	7	0.783	20AH
SDED-AS118HT	LARK	397.5	30	7	0.806	20AH
SDED-AS186HT	PELICAN	477.0	18	1	0.814	24AH
SDED-AS119HT	TAILORBIRD	477.0	20	7	0.823	20AH
SDED-AS120HT	FLICKER	477.0	24	7	0.846	24AH
SDED-AS121HT	HAWK	477.0	26	7	0.858	24AH
SDED-AS122HT	HEN	477.0	30	7	0.883	24AH
SDED-AS187HT	OSPREY	556.5	18	1	0.879	24AH
SDED-AS123HT	SAPSUCKER	556.5	22	7	0.901	24AH
SDED-AS124HT	PARAKEET	556.5	24	7	0.914	24AH
SDED-AS125HT	DOVE	556.5	26	7	0.927	27AH
SDED-AS126HT	EAGLE	556.5	30	7	0.953	27AH
SDED-AS127HT	PEACOCK	605.0	24	7	0.953	27AH
SDED-AS128HT	SQUAB	605.0	26	7	0.966	27AH
SDED-AS130HT	WOOD/DUCK	605.0	30	7	0.994	27AH
SDED-AS129HT	TEAL	605.0	30	19	0.994	27AH
SDED-AS188HT	SWIFT	636.0	36	1	0.930	27AH
SDED-AS189HT	KINGBIRD	636.0	18	1	0.940	27AH
SDED-AS131HT	GOLDFINCH	636.0	22	7	0.963	27AH
SDED-AS132HT	ROOK	636.0	24	7	0.977	27AH
SDED-AS133HT	GROSBEAK	636.0	26	7	0.990	27AH
SDED-AS182HT	SCOTER	636.0	30	7	1.019	27AH
SDED-AS134HT	EGRET	636.0	30	19	1.019	27AH

continued

Solo HD® Compression Dead End for ACSR and ACSS Conductor, Eye and Clevis Type, Double Tongue

AFL NO.	CONDUCTORS					ALUMINUM HEX DIES
	ACSR AND ACSS	SIZE	STRAND		DIAMETER	
		KCMIL	AL	ST		
SDED-AS135HT	FLAMINGO	666.6	24	7	1.000	27AH
SDED-AS183HT	GANNET	666.6	26	7	1.014	27AH
SDED-AS136HT	STILT	715.5	24	7	1.036	30AH
SDED-AS137HT	STARLING	715.5	26	7	1.051	30AH
SDED-AS138HT	REDWING	715.5	30	19	1.081	30AH
SDED-AS190HT	COOT	795.0	36	1	1.040	30AH
SDED-AS141HT	CUCKOO	795.0	24	7	1.092	30AH
SDED-AS142HT	DRAKE	795.0	26	7	1.108	30AH
SDED-AS144HT	MACAW	795.0	42	7	1.055	30AH
SDED-AS140HT	TERN	795.0	45	7	1.063	30AH
SDED-AS141HT	CONDOR	795.0.0	54	7	1.092	30AH
SDED-AS143HT	MALLARD	795	30	19	1.140	30AH
SDED-AS145HT	RUDDY	900.0	45	7	1.131	30AH
SDED-AS146HT	CANARY	900.0	54	7	1.162	30AH
SDED-AS191HT	CATBIRD	954.0	36	1	1.140	30AH
SDED-AS147HT	CORNCRAKE	954.0	20	7	1.165	30AH
SDED-AS184HT	REDBIRD	954.0	24	7	1.196	30AH
SDED-AS148HT	RAIL	954.0	45	7	1.165	30AH
SDED-AS149HT	TOWHEE	954.0	48	7	1.175	30AH
SDED-AS150HT	CARDINAL	954.0	54	7	1.196	30AH
SDED-AS151HT	CANVASBACK	954.0	30	19	1.248	34AH
SDED-AS192HT	TANAGER	1033.5	36	1	1.186	30AH
SDED-AS153HT	SNOWBIRD	1033.5	42	7	1.203	34AH
SDED-AS152HT	ORTOLAN	1033.5	45	7	1.212	34AH
SDED-AS154HT	CURLEW	1033.5	54	7	1.245	34AH
SDED-AS155HT	BLUEJAY	1113.0	45	7	1.259	34AH
SDED-AS157HT	FINCH	1113.0	54	19	1.293	34AH
SDED-AS158HT	BUNTING	1192.5	45	7	1.302	34AH
SDED-AS159HT	GRACKLE	1192.5	54	19	1.338	36AH
SDED-AS161HT	BITTERN	1272.0	45	7	1.345	36AH
SDED-AS162HT	DIVER	1272.0	48	7	1.357	36AH
SDED-AS163HT	PHEASANT	1272.0	54	19	1.382	36AH
SDED-AS164HT	DIPPER	1351.5	45	7	1.386	36AH
SDED-AS166HT	MARTIN	1351.5	54	19	1.424	38AH
SDED-AS167HT	BOBOLINK	1431.0	45	7	1.427	38AH
SDED-AS169HT	PLOVER	1431.0	54	19	1.465	38AH
SDED-AS170HT	NUTHATCH	1510.0	45	7	1.466	38AH
SDED-AS172HT	PARROT	1510.0	54	19	1.505	40AH
SDED-AS171HT	RATITE	1590.0	42	7	1.492	40AH
SDED-AS173HT	LAPWING	1590.0	45	7	1.504	40AH
SDED-AS174HT	FALCON	1590.0	54	19	1.544	40AH
SDED-AS175HT	CHUKAR	1780.0	84	19	1.602	42AH
SDED-AS176HT	MOCKINGBIRD	2034.5	72	7	1.681	42AH
SDED-AS177HT	ROADRUNNER	2057.0	76	19	1.700	42AH
SDED-AS178HT	BLUEBIRD	2156.0	84	19	1.762	44AH
SDED-AS179HT	KIWI	2167.0	72	7	1.735	44AH
SDED-AS180HT	THRASHER	2312.0	76	19	1.802	44AH
SDED-AS181HT	JOREE	2515.0	76	19	1.880	48AH

Solo HD® Compression Joint for ACSR and ACSS Conductor, Full Tension

The SDCJ-AS Series Compression Joint Assembly is specifically designed for ACSR and ACSS conductors. The Solo HD Compression Joint is fabricated from a specially tempered aluminum that will transfer elevated current and dissipate increased heat more efficiently. Its innovative design provides a solid, void-free compression through the complete unit with once set of dies, reducing the total quantity of compressions and installation time by almost half when compared to the of the ones required by the two die compression systems while keeping the same reliable and proven performance.

All Solo HD Compression Joints are designed for full tension use, achieving a minimum of 95% of the ASTM rated strength of the conductor. Each compression joint assembly comes with an aluminum joint and a steel sleeve.

For die sizes 30AH and above, the end tapers of the compression portions of all compression accessories are supplied with a high voltage finish.

Benefits

- **Half the Installation Time**
  Using an innovative core gripping system that allows a single die to compress the outer aluminum barrel to grip both the steel core as well as the aluminum strands, utilizing the same Aluminum Hex (AH) die set.
- **No Filler Compound Required**
  By creating a practically void-free compression, eliminating ingress of water, and using steels that eliminate the exposure of raw steel after, thereby eliminating rust and corrosion, AFL has removed variability of the amount of compound being placed in each connector.
- **Joints Travel Over Sheaves**
  Enhancing speed of installation, full tension joints can travel through sheaves without impact to the performance of the connector, allowing for more conductor to be strung from a single location.
- **Same Install Method**
  With no new tools required, installation crews do not require training on new compression tools.
- **One Connector**
  Assembly can be used for both ACSS and ACSR type conductors, eliminating the need for multiple part numbers.
- **Same Compression Die Set**
  The Aluminum Hex (AH) die size remains the same as that of the standard AFL two-die system used today and eliminates the need for the Steel Hex (SH) dies altogether.
- **Same Compression Tools**
  By using the same compression pumps and presses, AFL does not require the need for a large investment in both the tools and training.

Qualifications

GOVERNING BODY	STANDARD CODE
ANSI	C119.4

Contact AFL for further details.

continued

Solo HD® Compression Joint for ACSR and ACSS Conductor, Full Tension

Ordering Information

Assembly Catalog No.	Terminal Connector	EHV Finish

Step 1: Assembly Catalog Number
Determine the assembly catalog number based on the conductor being used.

EXAMPLE: For 795 Drake ACSS Conductor with no terminal and EHV finish, the complete catalog number is: **SDCJ-AS142HT**

Notes –

For instructions, see Solo HD ACSR/ACSS/ACSS-TW Joint installation instructions ACA117

ASSEMBLY CATALOG NO.	CONDUCTORS					ALUMINUM HEX DIES
	ACSR AND ACSS	SIZE	STRAND		DIAMETER	
		KCMIL	AL	ST		
SDCJ-AS109HT	WOODCOCK	336.4	22	7	0.701	20AH
SDCJ-AS113HT	LINNET	336.4	26	7	0.720	20AH
SDCJ-AS114HT	ORIOLE	336.4	30	7	0.741	20AH
SDCJ-AS185HT	CHICKADEE	397.5	18	1	0.743	20AH
SDCJ-AS115HT	PTARMIGAN	397.5	20	7	0.752	20AH
SDCJ-AS116HT	BRANT	397.5	24	7	0.772	20AH
SDCJ-AS117HT	IBIS	397.5	26	7	0.783	20AH
SDCJ-AS118HT	LARK	397.5	30	7	0.806	20AH
SDCJ-AS186HT	PELICAN	477.0	18	1	0.814	24AH
SDCJ-AS119HT	TAILORBIRD	477.0	20	7	0.823	20AH
SDCJ-AS120HT	FLICKER	477.0	24	7	0.846	24AH
SDCJ-AS121HT	HAWK	477.0	26	7	0.858	24AH
SDCJ-AS122HT	HEN	477.0	30	7	0.883	24AH
SDCJ-AS187HT	OSPREY	556.5	18	1	0.879	24AH
SDCJ-AS123HT	SAPSUCKER	556.5	22	7	0.901	24AH
SDCJ-AS124HT	PARAKEET	556.5	24	7	0.914	24AH
SDCJ-AS125HT	DOVE	556.5	26	7	0.927	27AH
SDCJ-AS126HT	EAGLE	556.5	30	7	0.953	27AH
SDCJ-AS127HT	PEACOCK	605.0	24	7	0.953	27AH
SDCJ-AS128HT	SQUAB	605.0	26	7	0.966	27AH
SDCJ-AS130HT	WOOD DUCK	605.0	30	7	0.994	27AH
SDCJ-AS129HT	TEAL	605.0	30	19	0.994	27AH
SDCJ-AS188HT	SWIFT	636.0	36	1	0.930	27AH
SDCJ-AS189HT	KINGBIRD	636.0	18	1	0.940	27AH
SDCJ-AS131HT	GOLDFINCH	636.0	22	7	0.963	27AH
SDCJ-AS132HT	ROOK	636.0	24	7	0.977	27AH
SDCJ-AS133HT	GROSBEAK	636.0	26	7	0.990	27AH
SDCJ-AS182HT	SCOTER	636.0	30	7	1.019	27AH
SDCJ-AS134HT	EGRET	636.0	30	19	1.019	27AH

continued

Solo HD® Compression Joint for ACSR and ACSS Conductor, Full Tension

AFL NO.	CONDUCTORS					ALUMINUM HEX DIES
	ACSR AND ACSS	SIZE	STRAND		DIAMETER	
		KCMIL	AL	ST		
SDCJ-AS135HT	FLAMINGO	666.6	24	7	1.000	27AH
SDCJ-AS183HT	GANNET	666.6	26	7	1.014	27AH
SDCJ-AS136HT	STILT	715.5	24	7	1.036	30AH
SDCJ-AS137HT	STARLING	715.5	26	7	1.051	30AH
SDCJ-AS138HT	REDWING	715.5	30	19	1.081	30AH
SDCJ-AS190HT	COOT	795.0	36	1	1.040	30AH
SDCJ-AS141HT	CUCKOO	795.0	24	7	1.092	30AH
SDCJ-AS142HT	DRAKE	795.0	26	7	1.108	30AH
SDCJ-AS144HT	MACAW	795.0	42	7	1.055	30AH
SDCJ-AS140HT	TERN	795.0	45	7	1.063	30AH
SDCJ-AS141HT	CONDOR	795.0	54	7	1.092	30AH
SDCJ-AS143HT	MALLARD	795.0	30	19	1.140	30AH
SDCJ-AS145HT	RUDDY	900.0	45	7	1.131	30AH
SDCJ-AS146HT	CANARY	900.0	54	7	1.162	30AH
SDCJ-AS191HT	CATBIRD	954.0	36	1	1.140	30AH
SDCJ-AS147HT	CORNCRAKE	954.0	20	7	1.165	30AH
SDCJ-AS184HT	REDBIRD	954.0	24	7	1.196	30AH
SDCJ-AS148HT	RAIL	954.0	45	7	1.165	30AH
SDCJ-AS149HT	TOWHEE	954.0	48	7	1.175	30AH
SDCJ-AS150HT	CARDINAL	954.0	54	7	1.196	30AH
SDCJ-AS151HT	CANVASBACK	954.0	30	19	1.248	34AH
SDCJ-AS192HT	TANAGER	1033.5	36	1	1.186	30AH
SDCJ-AS153HT	SNOWBIRD	1033.5	42	7	1.203	34AH
SDCJ-AS152HT	ORTOLAN	1033.5	45	7	1.212	34AH
SDCJ-AS154HT	CURLEW	1033.5	54	7	1.245	34AH
SDCJ-AS155HT	BLUEJAY	1113.0	45	7	1.259	34AH
SDCJ-AS157HT	FINCH	1113.0	54	19	1.293	34AH
SDCJ-AS158HT	BUNTING	1192.5	45	7	1.302	34AH
SDCJ-AS159HT	GRACKLE	1192.5	54	19	1.338	36AH
SDCJ-AS161HT	BITTERN	1272.0	45	7	1.345	36AH
SDCJ-AS162HT	DIVER	1272.0	48	7	1.357	36AH
SDCJ-AS163HT	PHEASANT	1272.0	54	19	1.382	36AH
SDCJ-AS164HT	DIPPER	1351.5	45	7	1.386	36AH
SDCJ-AS166HT	MARTIN	1351.5	54	19	1.424	38AH
SDCJ-AS167HT	BOBOLINK	1431.0	45	7	1.427	38AH
SDCJ-AS169HT	PLOVER	1431.0	54	19	1.465	38AH
SDCJ-AS170HT	NUTHATCH	1510.0	45	7	1.466	38AH
SDCJ-AS172HT	PARROT	1510.0	54	19	1.505	40AH
SDCJ-AS171HT	RATITE	1590.0	42	7	1.492	40AH
SDCJ-AS173HT	LAPWING	1590.0	45	7	1.504	40AH
SDCJ-AS174HT	FALCON	1590.0	54	19	1.544	40AH
SDCJ-AS175HT	CHUKAR	1780.0	84	19	1.602	42AH
SDCJ-AS176HT	MOCKINGBIRD	2034.5	72	7	1.681	42AH
SDCJ-AS177HT	ROADRUNNER	2057.0	76	19	1.700	42AH
SDCJ-AS178HT	BLUEBIRD	2156.0	84	19	1.762	44AH
SDCJ-AS179HT	KIWI	2167.0	72	7	1.735	44AH
SDCJ-AS180HT	THRASHER	2312.0	76	19	1.802	44AH
SDCJ-AS181HT	JOREE	2515.0	76	19	1.880	48AH

Solo HD® Compression Dead End for ACSR and ACSS Conductor, Adjustable Clevis, Single Tongue

The SDACS-AS Series Dead End Assembly is specifically designed for use on both ACSR and ACSS conductors. The body of the SOLO HD Dead End is fabricated from a specially tempered aluminum that will transfer elevated current and dissipate increased heat more efficiently.

The tongue and terminal pad are constructed with a 15° angle, which permits the terminal connector to be bolted in the straight or 30° position. Its innovative design provides a solid, void-free compression through the complete unit with once set of dies, reducing the total quantity of compressions and installation time by almost ½ when compared to the of the ones required by the two die compression systems while keeping the same reliable and proven performance.

All Solo HD Dead Ends are designed for full tension use, achieving a minimum of 95% of the ASTM rated strength of the conductor. Each dead end assembly comes with terminal and aluminum hardware.

For die sizes 30 AH and above, the end tapers of the compression portions of all compression accessories are supplied with a high voltage finish. Corona bolts are furnished as standard on 15° terminals for these die sizes.

The square edges of the bolted pads of the compression accessories could cause Corona. Pads with edges and corners rounded can be supplied by adding the catalog suffix "EHV".

Benefits

- **Half the Installation Time**
  Using an innovative core gripping system that allows a single die to compress the outer aluminum barrel to grip both the steel core as well as the aluminum strands, utilizing the same Aluminum Hex (AH) die set.
- **No Filler Compound Required**
  By creating a practically void-free compression, eliminating ingress of water, and using steels that eliminate the exposure of raw steel after, thereby eliminating rust and corrosion, AFL has removed variability of the amount of compound being placed in each connector.
- **Joints Travel Over Sheaves**
  Enhancing speed of installation, full tension joints can travel through sheaves without impact to the performance of the connector, allowing for more conductor to be strung from a single location.
- **Same Install Method**
  With no new tools required, installation crews do not require training on new compression tools.
- **One Connector**
  Assembly can be used for both ACSS and ACSR type conductors, eliminating the need for multiple part numbers.
- **Same Compression Die Set**
  The Aluminum Hex (AH) die size remains the same as that of the standard AFL two-die system used today and eliminates the need for the Steel Hex (SH) dies altogether.
- **Same Compression Tools**
  By using the same compression pumps and presses, AFL does not require the need for a large investment in both the tools and training.

Qualifications

GOVERNING BODY	STANDARD CODE
ANSI	C119.4

Contact AFL for further details.

continued

Solo HD® Compression Dead End for ACSR and ACSS Conductor, Adjustable Clevis, Single Tongue

Ordering Information

Assembly Catalog No.	Terminal Connector	EHV Finish

Step 1: Assembly Catalog Number
Determine the assembly catalog number based on the conductor being used.

Step 2: Terminal Connector
For an assembly without a terminal connector, use "NT".
For an assembly with a terminal connector, leave blank.

Step 3: Extra High Voltage Finish
For Extra High Voltage Finish, use "EHV". (> 345 kV)
For Standard Finish, leave blank. (< 345 kV)
For bolt, nut and cotter pin add BNC at the END

Step 4: Assemble Catalog Number

EXAMPLE: For 795 Drake ACSS Conductor with no terminal and EHV finish, the complete catalog number is: **SDACS-AS142HTNTEHV**

Notes –

For instructions, see Solo HD ACSR/ACSS/ACSS-TW Adjustable Clevis Dead End installation instructions INS-ACA125

ASSEMBLY CATALOG NO.	CONDUCTORS					ALUMINUM HEX DIES
	CODE NAME	SIZE KCMIL	STRAND		DIAMETER	
			AL	ST		
SDACS-AS109HT	WOODCOCK	336.4	22	7	0.701	20AH
SDACS-AS113HT	LINNET	336.4	26	7	0.720	20AH
SDACS-AS114HT	ORIOLE	336.4	30	7	0.741	20AH
SDACS-AS185HT	CHICKADEE	397.5	18	1	0.743	20AH
SDACS-AS115HT	PTARMIGAN	397.5	20	7	0.752	20AH
SDACS-AS116HT	BRANT	397.5	24	7	0.772	20AH
SDACS-AS117HT	IBIS	397.5	26	7	0.783	20AH
SDACS-AS118HT	LARK	397.5	30	7	0.806	20AH
SDACS-AS186HT	PELICAN	477.0	18	1	0.814	24AH
SDACS-AS119HT	TAILORBIRD	477.0	20	7	0.823	20AH
SDACS-AS120HT	FLICKER	477.0	24	7	0.846	24AH
SDACS-AS121HT	HAWK	477.0	26	7	0.858	24AH
SDACS-AS122HT	HEN	477.0	30	7	0.883	24AH
SDACS-AS187HT	OSPREY	556.5	18	1	0.879	24AH
SDACS-AS123HT	SAPSUCKER	556.5	22	7	0.901	24AH
SDACS-AS124HT	PARAKEET	556.5	24	7	0.914	24AH
SDACS-AS125HT	DOVE	556 5	26	7	0.927	27AH
SDACS-AS126HT	EAGLE	556.5	30	7	0.953	27AH
SDACS-AS127HT	PEACOCK	605.0	24	7	0.953	27AH
SDACS-AS128HT	SQUAB	605.0	26	7	0.966	27AH
SDACS-AS130HT	WOOD/DUCK	605.0	30	7	0.994	27AH
SDACS-AS129HT	TEAL	605.0	30	19	0.994	27AH
SDACS-AS188HT	SWIFT	636.0	36	1	0.930	27AH
SDACS-AS189HT	KINGBIRD	636.0	18	1	0.940	27AH
SDACS-AS131HT	GOLDFINCH	636.0	22	7	0.963	27AH
SDACS-AS132HT	ROOK	636.0	24	7	0.977	27AH
SDACS-AS133HT	GROSBEAK	636.0	26	7	0.990	27AH
SDACS-AS182HT	SCOTER	636.0	30	7	1.019	27AH
SDACS-AS134HT	EGRET	636.0	30	19	1.019	27AH

continued →

Solo HD® Compression Dead End for ACSR and ACSS Conductor, Adjustable Clevis, Single Tongue

ASSEMBLY CATALOG NO.	CONDUCTORS					ALUMINUM HEX DIES
	CODE NAME	SIZE KCMIL	STRAND		DIAMETER	
			AL	ST		
SDACS-AS135HT	FLAMINGO	666.6	24	7	1.000	27AH
SDACS-AS183HT	GANNET	666.6	26	7	1.014	27AH
SDACS-AS136HT	STILT	715.5	24	7	1.036	30AH
SDACS-AS137HT	STARLING	715.5	26	7	1.051	30AH
SDACS-AS138HT	REDWING	715.5	30	19	1.081	30AH
SDACS-AS190HT	COOT	795.0	36	1	1.040	30AH
SDACS-AS141HT	CUCKOO	795.0	24	7	1.092	30AH
SDACS-AS142HT	DRAKE	795.0	26	7	1.108	30AH
SDACS-AS144HT	MACAW	795.0	42	7	1.055	30AH
SDACS-AS140HT	TERN	795.0	45	7	1.063	30AH
SDACS-AS141HT	CONDOR	795.0	54	7	1.092	30AH
SDACS-AS143HT	MALLARD	795.0	30	19	1.140	30AH
SDACS-AS145HT	RUDDY	900.0	45	7	1.131	30AH
SDACS-AS146HT	CANARY	900.0	54	7	1.162	30AH
SDACS-AS191HT	CATBIRD	954.0	36	1	1.140	30AH
SDACS-AS147HT	CORNCRAKE	954.0	20	7	1.165	30AH
SDACS-AS184HT	REDBIRD	954.0	24	7	1.196	30AH
SDACS-AS148HT	RAIL	954.0	45	7	1.165	30AH
SDACS-AS149HT	TOWHEE	954.0	48	7	1.175	30AH
SDACS-AS150HT	CARDINAL	954.0	54	7	1.196	30AH
SDACS-AS151HT	CANVASBACK	954.0	30	19	1.248	34AH
SDACS-AS192HT	TANAGER	1033.5	36	1	1.186	30AH
SDACS-AS153HT	SNOWBIRD	1033.5	42	7	1.203	34AH
SDACS-AS152HT	ORTOLAN	1033.5	45	7	1.212	34AH
SDACS-AS154HT	CURLEW	1033.5	54	7	1.245	34AH
SDACS-AS155HT	BLUEJAY	1113.0	45	7	1.259	34AH
SDACS-AS157HT	FINCH	1113.0	54	19	1.293	34AH
SDACS-AS158HT	BUNTING	1192.5	45	7	1.302	34AH
SDACS-AS159HT	GRACKLE	1192.5	54	19	1.338	36AH
SDACS-AS161HT	BITTERN	1272.0	45	7	1.345	36AH
SDACS-AS162HT	DIVER	1272.0	48	7	1.357	36AH
SDACS-AS163HT	PHEASANT	1272.0	54	19	1.382	36AH
SDACS-AS164HT	DIPPER	1351.5	45	7	1.386	36AH
SDACS-AS166HT	MARTIN	1351.5	54	19	1.424	38AH
SDACS-AS167HT	BOBOLINK	1431.0	45	7	1.427	38AH
SDACS-AS169HT	PLOVER	1431.0	54	19	1.465	38AH
SDACS-AS170HT	NUTHATCH	1510.0	45	7	1.466	38AH
SDACS-AS172HT	PARROT	1510.0	54	19	1.505	40AH
SDACS-AS171HT	RATITE	1590.0	42	7	1.492	40AH
SDACS-AS173HT	LAPWING	1590.0	45	7	1.504	40AH
SDACS-AS174HT	FALCON	1590.0	54	19	1.544	40AH
SDACS-AS175HT	CHUKAR	1780.0	84	19	1.602	42AH
SDACS-AS176HT	MOCKINGBIRD	2034.5	72	7	1.681	42AH
SDACS-AS177HT	ROADRUNNER	2057.0	76	19	1.700	42AH
SDACS-AS178HT	BLUEBIRD	2156.0	84	19	1.762	44AH
SDACS-AS179HT	KIWI	2167.0	72	7	1.735	44AH
SDACS-AS180HT	THRASHER	2312.0	76	19	1.802	44AH
SDACS-AS181HT	JOREE	2515.0	76	19	1.880	48AH

Solo HD® Compression Dead End for ACSR and ACSS Conductor, Adjustable Clevis, Double Tongue

The SDACD-AS Series Dead End Assembly is specifically designed for use on both ACSR and ACSS conductors. The body of the SOLO HD Dead End is fabricated from a specially tempered aluminum that will transfer elevated current and dissipate increased heat more efficiently.

The tongue and terminal pad are constructed with a 15° angle, which permits the terminal connector to be bolted in the straight or 30° position. Its innovative design provides a solid, void-free compression through the complete unit with once set of dies, reducing the total quantity of compressions and installation time by almost ½ when compared to the of the ones required by the two die compression systems while keeping the same reliable and proven performance.

All Solo HD Dead Ends are designed for full tension use, achieving a minimum of 95% of the ASTM rated strength of the conductor. Each dead end assembly comes with terminal and aluminum hardware.

For die sizes 30 AH and above, the end tapers of the compression portions of all compression accessories are supplied with a high voltage finish. Corona bolts are furnished as standard on 15° terminals for these die sizes.

The square edges of the bolted pads of the compression accessories could cause Corona. Pads with edges and corners rounded can be supplied by adding the catalog suffix "EHV".

Benefits

- **Half the Installation Time**
  Using an innovative core gripping system that allows a single die to compress the outer aluminum barrel to grip both the steel core as well as the aluminum strands, utilizing the same Aluminum Hex (AH) die set.
- **No Filler Compound Required**
  By creating a practically void-free compression, eliminating ingress of water, and using steels that eliminate the exposure of raw steel after, thereby eliminating rust and corrosion, AFL has removed variability of the amount of compound being placed in each connector.
- **Joints Travel Over Sheaves**
  Enhancing speed of installation, full tension joints can travel through sheaves without impact to the performance of the connector, allowing for more conductor to be strung from a single location.
- **Same Install Method**
  With no new tools required, installation crews do not require training on new compression tools.
- **One Connector**
  Assembly can be used for both ACSS and ACSR type conductors, eliminating the need for multiple part numbers.
- **Same Compression Die Set**
  The Aluminum Hex (AH) die size remains the same as that of the standard AFL two-die system used today and eliminates the need for the Steel Hex (SH) dies altogether.
- **Same Compression Tools**
  By using the same compression pumps and presses, AFL does not require the need for a large investment in both the tools and training.

Qualifications

GOVERNING BODY	STANDARD CODE
ANSI	C119.4

Contact AFL for further details.

continued

Solo HD® Compression Dead End for ACSR and ACSS Conductor, Adjustable Clevis, Double Tongue

Ordering Information

Assembly Catalog No. | **Terminal Connector** | **EHV Finish**

Step 1: Assembly Catalog Number
Determine the assembly catalog number based on the conductor being used.

Step 2: Terminal Connector
For an assembly without a terminal connector, use "NT".
For an assembly with a terminal connector, leave blank.

Step 3: Extra High Voltage Finish
For Extra High Voltage Finish, use "EHV". (> 345 kV)
For Standard Finish, leave blank. (< 345 kV)
For bolt, nut and cotter pin add BNC at the END

Step 4: Assemble Catalog Number

EXAMPLE: For 795 Drake ACSS Conductor with no terminal and EHV finish, the complete catalog number is: **SDACD-AS142HTNTEHV**

Notes –

For instructions, see Solo HD ACSR/ACSS/ACSS-TW Adjustable Clevis Dead End installation instructions INS-ACA125

ASSEMBLY CATALOG NO.	CONDUCTORS					ALUMINUM HEX DIES
	CODE NAME	SIZE KCMIL	STRAND		DIAMETER	
			AL	ST		
SDACD-AS109HT	WOODCOCK	336.4	22	7	0.701	20AH
SDACD-AS113HT	LINNET	336. 4	26	7	0.720	20AH
SDACD-AS114HT	ORIOLE	336.4	30	7	0.741	20AH
SDACD-AS185HT	CHICKADEE	397.5	18	1	0.743	20AH
SDACD-AS115HT	PTARMIGAN	397.5	20	7	0.752	20AH
SDACD-AS116HT	BRANT	397.5	24	7	0.772	20AH
SDACD-AS117HT	IBIS	397.5	26	7	0.783	20AH
SDACD-AS118HT	LARK	397.5	30	7	0.806	20AH
SDACD-AS186HT	PELICAN	477.0	18	1	0.814	24AH
SDACD-AS119HT	TAILORBIRD	477.0	20	7	0.823	20AH
SDACD-AS120HT	FLICKER	477.0	24	7	0.846	24AH
SDACD-AS121HT	HAWK	477.0	26	7	0.858	24AH
SDACD-AS122HT	HEN	477.0	30	7	0.883	24AH
SDACD-AS187HT	OSPREY	556.5	18	1	0.879	24AH
SDACD-AS123HT	SAPSUCKER	556.5	22	7	0.901	24AH
SDACD-AS124HT	PARAKEET	556.5	24	7	0.914	24AH
SDACD-AS125HT	DOVE	556.5	26	7	0.927	27AH
SDACD-AS126HT	EAGLE	556.5	30	7	0.953	27AH
SDACD-AS127HT	PEACOCK	605.0	24	7	0.953	27AH
SDACD-AS128HT	SQUAB	605.0	26	7	0.966	27AH
SDACD-AS130HT	WOOD/DUCK	605.0	30	7	0.994	27AH
SDACD-AS129HT	TEAL	605.0	30	19	0.994	27AH
SDACD-AS188HT	SWIFT	636.0	36	1	0.930	27AH
SDACD-AS189HT	KINGBIRD	636.0	18	1	0.940	27AH
SDACD-AS131HT	GOLDFINCH	636.0	22	7	0.963	27AH
SDACD-AS132HT	ROOK	636.0	24	7	0.977	27AH
SDACD-AS133HT	GROSBEAK	636.0	26	7	0.990	27AH
SDACD-AS182HT	SCOTER	636.0	30	7	1.019	27AH
SDACD-AS134HT	EGRET	636.0	30	19	1.019	27AH

continued →

Solo HD® Compression Dead End for ACSR and ACSS Conductor, Adjustable Clevis, Double Tongue

ASSEMBLY CATALOG NO.	CONDUCTORS					ALUMINUM HEX DIES
	CODE NAME	SIZE KCMIL	STRAND		DIAMETER	
			AL	ST		
SDACD-AS135HT	FLAMINGO	666.6	24	7	1.000	27AH
SDACD-AS183HT	GANNET	666.6	26	7	1.014	27AH
SDACD-AS136HT	STILT	715.5	24	7	1.036	30AH
SDACD-AS137HT	STARLING	715.5	26	7	1.051	30AH
SDACD-AS138HT	REDWING	715.5	30	19	1.081	30AH
SDACD-AS190HT	COOT	795.0	36	1	1.040	30AH
SDACD-AS141HT	CUCKOO	795.0	24	7	1.092	30AH
SDACD-AS142HT	DRAKE	795.0	26	7	1.108	30AH
SDACD-AS144HT	MACAW	795.0	42	7	1.055	30AH
SDACD-AS140HT	TERN	795.0	45	7	1.063	30AH
SDACD-AS141HT	CONDOR	795.0	54	7	1.092	30AH
SDACD-AS143HT	MALLARD	795.0	30	19	1.140	30AH
SDACD-AS145HT	RUDDY	900.0	45	7	1.131	30AH
SDACD-AS146HT	CANARY	900.0	54	7	1.162	30AH
SDACD-AS191HT	CATBIRD	954.0	36	1	1.140	30AH
SDACD-AS147HT	CORNCRAKE	954.0	20	7	1.165	30AH
SDACD-AS184HT	REDBIRD	954.0	24	7	1.196	30AH
SDACD-AS148HT	RAIL	954.0	45	7	1.165	30AH
SDACD-AS149HT	TOWHEE	954.0	48	7	1.175	30AH
SDACD-AS150HT	CARDINAL	954.0	54	7	1.196	30AH
SDACD-AS151HT	CANVASBACK	954.0	30	19	1.248	34AH
SDACD-AS192HT	TANAGER	1033.5	36	1	1.186	30AH
SDACD-AS153HT	SNOWBIRD	1033.5	42	7	1.203	34AH
SDACD-AS152HT	ORTOLAN	1033.5	45	7	1.212	34AH
SDACD-AS154HT	CURLEW	1033.5	54	7	1.245	34AH
SDACD-AS155HT	BLUEJAY	1113.0	45	7	1.259	34AH
SDACD-AS157HT	FINCH	1113.0	54	19	1.293	34AH
SDACD-AS158HT	BUNTING	1192.5	45	7	1.302	34AH
SDACD-AS159HT	GRACKLE	1192.5	54	19	1.338	36AH
SDACD-AS161HT	BITTERN	1272.0	45	7	1.345	36AH
SDACD-AS162HT	DIVER	1272.0	48	7	1.357	36AH
SDACD-AS163HT	PHEASANT	1272.0	54	19	1.382	36AH
SDACD-AS164HT	DIPPER	1351.5	45	7	1.386	36AH
SDACD-AS166HT	MARTIN	1351.5	54	19	1.424	38AH
SDACD-AS167HT	BOBOLINK	1431.0	45	7	1.427	38AH
SDACD-AS169HT	PLOVER	1431.0	54	19	1.465	38AH
SDACD-AS170HT	NUTHATCH	1510.0	45	7	1.466	38AH
SDACD-AS172HT	PARROT	1510.0	54	19	1.505	40AH
SDACD-AS171HT	RATITE	1590.0	42	7	1.492	40AH
SDACD-AS173HT	LAPWING	1590.0	45	7	1.504	40AH
SDACD-AS174HT	FALCON	1590.0	54	19	1.544	40AH
SDACD-AS175HT	CHUKAR	1780.0	84	19	1.602	42AH
SDACD-AS176HT	MOCKINGBIRD	2034.5	72	7	1.681	42AH
SDACD-AS177HT	ROADRUNNER	2057.0	76	19	1.700	42AH
SDACD-AS178HT	BLUEBIRD	2156.0	84	19	1.762	44AH
SDACD-AS179HT	KIWI	2167.0	72	7	1.735	44AH
SDACD-AS180HT	THRASHER	2312.0	76	19	1.802	44AH
SDACD-AS181HT	JOREE	2515.0	76	19	1.880	48AH

Solo HD® Compression Dead End for ACSS/TW Conductor, Eye and Clevis Type, Single Tongue

This Series Dead End Assembly is specifically designed for ACSS/TW conductors. The body of the Solo HD Dead End is fabricated from a specially tempered aluminum that will transfer elevated current and dissipate increased heat more efficiently.

The tongue and terminal pad are constructed with a 15° angle, which permits the terminal connector to be bolted in the straight or 30° position. Its innovative design provides a solid, void-free compression through the complete unit with once set of dies, reducing the total quantity of compressions and installation time by almost half when compared to the of the ones required by the two die compression systems while keeping the same reliable and proven performance.

All Solo HD Dead Ends are designed for full tension use, achieving a minimum of 95% of the ASTM rated strength of the conductor. Each dead-end assembly comes with terminal and aluminum hardware.

For die sizes 30AH and above, the end tapers of the compression portions of all compression accessories are supplied with a high voltage finish. Corona bolts are furnished as standard on 15° terminals for these die sizes.

The square edges of the bolted pads of the compression accessories could cause Corona. Pads with edges and corners rounded can be supplied by adding the catalog suffix "EHV".

Benefits

- **Half the Installation Time**
  Using an innovative core gripping system that allows a single die to compress the outer aluminum barrel to grip both the steel core as well as the aluminum strands, utilizing the same Aluminum Hex (AH) die set.
- **No Filler Compound Required**
  By creating a practically void-free compression, eliminating ingress of water, and using steels that eliminate the exposure of raw steel after, thereby eliminating rust and corrosion, AFL has removed variability of the amount of compound being placed in each connector.
- **Joints Travel Over Sheaves**
  Enhancing speed of installation, full tension joints can travel through sheaves without impact to the performance of the connector, allowing for more conductor to be strung from a single location.
- **Same Install Method**
  With no new tools required, installation crews do not require training on new compression tools.
- **One Connector**
  Assembly can be used for both ACSS and ACSR type conductors, eliminating the need for multiple part numbers.
- **Same Compression Die Set**
  The Aluminum Hex (AH) die size remains the same as that of the standard AFL two-die system used today and eliminates the need for the Steel Hex (SH) dies altogether.
- **Same Compression Tools**
  By using the same compression pumps and presses, AFL does not require the need for a large investment in both the tools and training.

Qualifications

GOVERNING BODY	STANDARD CODE
ANSI	C119.4

Contact AFL for further details.

continued

Solo HD® Compression Dead End for ACSS/TW Conductor, Eye and Clevis Type, Single Tongue

Ordering Information

Assembly Catalog No.	Terminal Connector	EHV Finish

Step 1: Assembly Catalog Number
Determine the assembly catalog number based on the conductor being used.

For a clevis application substitute the E for a C:
SDES-AS: EYE TERMINATION
SDCS-AS: CLEVIS TERMINATION

Step 2: Terminal Connector
For an assembly without a terminal connector, use "NT".
For an assembly with a terminal connector, leave blank.

Step 3: Extra High Voltage Finish
For Extra High Voltage Finish, use "EHV". (> 345 kV).
For Standard Finish, leave blank. (< 345 kV)

Step 4: Assemble Catalog Number

EXAMPLE: For 795 Drake ACSS Conductor with no terminal and EHV finish, the complete catalog number is: **SDES-AS142HTNTEHV**

Notes –

For instructions, see Solo HD ACSR/ACSS/ACSS-TW Dead End installation instructions INS-ACA116

ASSEMBLY CATALOG NO.	CONDUCTORS						ALUMINUM HEX DIES
	CODE NAME	SIZE KCMIL	TYPE	STRAND		DIAMETER	
				AL	ST		
SDES-AS114HT	ORIOLE ACSS/TW	336.4	23	18	7	0.693	20AH
SDES-AS120HT	FLICKER ACSS/TW	447.0	13	18	7	0.776	24AH
SDES-AS121HT	HAWK ACSS/TW	447.0	16	18	7	0.798	24AH
SDES-AS122HT	HEN ACSS/TW	477.0	23	18	7	0.825	24AH
SDES-AS124HT	PARAKEET ACSS/TW	556.5	13	18	7	0.835	24AH
SDES-AS125HT	DOVE ACSS/TW	556.5	16	20	7	0.852	24AH
SDES-AS858HT	CALUMET ACSS/TW	565.3	16	18	7	0.858	24AH
SDES-AS846HT	MOHAWK ACSS/TW	571.7	13	18	7	0.846	24AH
SDES-AS132HT	ROOK ACSS/TW	636.0	13	19	7	0.890	27AH
SDES-AS133HT	GROSBEAK ACSS/TW	636.0	16	20	7	0.908	27AH
SDES-AS182HT	SCOTER ACSS/TW	636.0	23	18	7	0.953	27AH
SDES-AS927HT	OSWEGO ACSS/TW	664.8	16	20	7	0.927	27AH
SDES-AS913HT	MYSTIC ACSS/TW	666.6	13	20	7	0.913	27AH
SDES-AS990HT	WABASH ACSS/TW	762.8	16	20	7	0.990	30AH
SDES-AS977HT	MAUMEE ACSS/TW	768.2	13	20	7	0.977	30AH
SDES-AS140HT	TERN ACSS/TW	795.0	7	17	7	0.960	30AH
SDES-AS980HT	PUFFIN ACSS/TW	795.0	10	18	7	0.980	30AH
SDES-AS141HT	CONDOR ACSS/TW	795.0	13	20	7	0.993	30AH
SDES-AS142HT	DRAKE ACSS/TW	795.0	16	20	7	1.010	30AH
SDES-AS146HT	CANARY ACSS/TW	900.0	13	30	7	1.080	30AH
SDES-AS077HT	FRASER ACSS/TW	946.7	10	35	7	1.077	30AH
SDES-AS044HT	PHOENIX ACSS/TW	954.0	5	30	7	1.044	30AH
SDES-AS148HT	RAIL ACSS/TW	954.0	7	32	7	1.061	30AH
SDES-AS150HT	CARDINAL ACSS/TW	954.0	13	20	7	1.084	30AH
SDES-AS060HT	KETTLE ACSS/TW	957.2	7	32	7	1.060	30AH
SDES-AS108HT	SUWANNEE ACSS/TW	959.6	16	22	7	1.108	30AH
SDES-AS092HT	COLUMBIA ACSS/TW	966.2	13	21	7	1.092	30AH
SDES-AS153HT	SNOWBIRD ACSS/TW	1033.5	5	30	7	1.089	34AH
SDES-AS152HT	ORTOLAN ACSS/TW	1033.5	7	32	7	1.102	34AH

continued →

Solo HD® Compression Dead End for ACSS/TW Conductor, Eye and Clevis Type, Single Tongue

ASSEMBLY CATALOG NO.	CONDUCTORS						ALUMINUM HEX DIES
	CODE NAME	SIZE KCMIL	TYPE	STRAND		DIAMETER	
				AL	ST		
SDES-AS154HT	CURLEW ACSS/TW	1033.5	13	22	7	1.128	34AH
SDES-AS131HT	-	1080.0	7	20	7	1.131	34AH
SDES-AS129HT	AVOCET ACSS/TW	1113.0	5	30	7	1.129	34AH
SDES-AS155HT	BLUEJAY ACSS/TW	1113.0	7	33	7	1.143	34AH
SDES-AS157HT	FINCH ACSS/TW	1113.0	13	38	19	1.185	34AH
SDES-AS165HT	GENESEE ACSS/TW	1158.0	7	33	7	1.165	34AH
SDES-AS196HT	HUDSON ACSS/TW	1158.4	13	26	7	1.196	34AH
SDES-AS155HT	CHEYENNE ACSS/TW	1168.1	5	30	7	1.155	34AH
SDES-AS167HT	OXBIRD ACSS/TW	1192.5	5	30	7	1.167	34AH
SDES-AS158HT	BUNTING ACSS/TW	1192.5	7	33	7	1.191	34AH
SDES-AS159HT	GRACKLE ACSS/TW	1192.5	13	38	19	1.225	36AH
SDES-AS245HT	YUKON ACSS/TW	1233.6	13	38	19	1.245	34AH
SDES-AS213HT	NELSON ACSS/TW	1257.1	7	35	7	1.213	34AH
SDES-AS202HT	SCISSORTAIL ACSS/TW	1272.0	5	30	7	1.202	36AH
SDES-AS203HT	CATAWBA ACSS/TW	1272.0	5	30	7	1.203	34AH
SDES-AS161HT	BITTERN ACSS/TW	1272.0	7	35	7	1.220	36AH
SDES-AS163HT	PHEASANT ACSS/TW	1272.0	13	39	19	1.264	36AH
SDES-AS290HT	THAMES ACSS/TW	1334.6	13	39	19	1.290	36AH
SDES-AS164HT	DIPPER ACSS/TW	1351.5	7	35	7	1.256	36AH
SDES-AS166HT	MARTIN ACSS/TW	1351.5	13	39	19	1.300	38AH
SDES-AS259HT	MACKENZIE ACSS/TW	1359.7	7	36	7	1.259	36AH
SDES-AS248HT	TRUCKEE ACSS/TW	1372.5	5	30	7	1.248	34AH
SDES-AS167HT	BOBOLINK ACSS/TW	1431.0	7	30	7	1.291	38AH
SDES-AS169HT	PLOVER ACSS/TW	1431.0	13	37	19	1.337	38AH
SDES-AS340HT	MERRIMACK ACSS/TW	1433.5	13	39	19	1.340	38AH
SDES-AS302HT	MIRAMICHI ACSS/TW	1455.3	7	36	7	1.302	38AH
SDES-AS292HT	ST. CROIX ACSS/TW	1467.8	5	33	7	1.292	38AH
SDES-AS382HT	RIO GRAND ACSS/TW	1533.3	13	39	19	1.382	38AH
SDES-AS345HT	POTOMAC ACSS/TW	1557.4	7	36	7	1.345	38AH
SDES-AS334HT	PLATTE ACSS/TW	1569.0	5	33	7	1.334	38AH
SDES-AS173HT	LAPWING ACSS/TW	1590.0	7	36	7	1.358	40AH
SDES-AS174HT	FALCON ACSS/TW	1590.0	13	42	19	1.408	40AH
SDES-AS424HT	PECOS ACSS/TW	1622.0	13	39	19	1.424	40AH
SDES-AS386HT	SCHUYLKILL ACSS/TW	1657.4	7	36	7	1.386	40AH
SDES-AS407HT	JAMES ACSS/TW	1730.6	13	34	19	1.407	42AH
SDES-AS427HT	PEE DEE ACSS/TW	1758.6	7	37	7	1.427	40AH
SDES-AS175HT	CHUKAR ACSS/TW	1780.0	8	37	19	1.445	42AH
SDES-AS545HT	CUMBERLAND ACSS/TW	1926.9	13	42	19	1.545	42AH
SDES-AS504HT	ATHABASKA ACSS/TW	1949.6	7	42	7	1.504	42AH
SDES-AS602HT	POWDER ACSS/TW	2153.8	8	64	19	1.602	44AH
SDES-AS178HT	BLUEBIRD ACSS/TW	2156.0	8	64	19	1.608	44AH
SDES-AS762HT	SANTEE ACSS/TW	2627.3	8	64	19	1.762	48AH

Solo HD® Compression Dead End for ACSS/TW Conductor, Eye and Clevis Type, Double Tongue

This Double Tongue Dead End Assembly is specifically designed for ACSS/TW conductors. The body of the Solo HD Dead Ends are fabricated from a specially tempered aluminum that will transfer elevated current and dissipate increased heat more efficiently.

The tongue and terminal pad are constructed with a 15° angle, which permits the terminal connector to be bolted in the straight or 30° position. Its innovative design provides a solid, void-free compression through the complete unit with once set of dies, reducing the total quantity of compressions and installation time by almost half when compared to the of the ones required by the two die compression systems while keeping the same reliable and proven performance.

All Solo HD Dead Ends are designed for full tension use, achieving a minimum of 95% of the ASTM rated strength of the conductor. Each dead end assembly comes with two 15° terminals and aluminum hardware.

For die sizes 30AH and above, the end tapers of the compression portions of all compression accessories are supplied with a high voltage finish. Corona bolts are furnished as standard on 15° terminals for these die sizes.

The square edges of the bolted pads of the compression accessories could cause Corona. Pads with edges and corners rounded can be supplied by adding the catalog suffix "EHV".

Benefits

- **Half the Installation Time**
  Using an innovative core gripping system that allows a single die to compress the outer aluminum barrel to grip both the steel core as well as the aluminum strands, utilizing the same Aluminum Hex (AH) die set.
- **No Filler Compound Required**
  By creating a practically void-free compression, eliminating ingress of water, and using steels that eliminate the exposure of raw steel after, thereby eliminating rust and corrosion, AFL has removed variability of the amount of compound being placed in each connector.
- **Joints Travel Over Sheaves**
  Enhancing speed of installation, full tension joints can travel through sheaves without impact to the performance of the connector, allowing for more conductor to be strung from a single location.
- **Same Install Method**
  With no new tools required, installation crews do not require training on new compression tools.
- **One Connector**
  Assembly can be used for both ACSS and ACSR type conductors, eliminating the need for multiple part numbers.
- **Same Compression Die Set**
  The Aluminum Hex (AH) die size remains the same as that of the standard AFL two-die system used today and eliminates the need for the Steel Hex (SH) dies altogether.
- **Same Compression Tools**
  By using the same compression pumps and presses, AFL does not require the need for a large investment in both the tools and training.

Qualifications

GOVERNING BODY	STANDARD CODE
ANSI	C119.4

Contact AFL for further details.

continued

Solo HD® Compression Dead End for ACSS/TW Conductor, Eye Type, Double Tongue, SDED-AS Series

Ordering Information

Assembly Catalog No.	Terminal Connector	EHV Finish

Step 1: Assembly Catalog Number
Determine the assembly catalog number based on the conductor being used.

For a clevis application substitute the E for a C:
SDED-AS: EYE TERMINATION
SDCD-AS: CLEVIS TERMINATION

Step 2: Terminal Connector
For an assembly without a terminal connector, use "NT".
For an assembly with a terminal connector, leave blank.

Step 3: Extra High Voltage Finish
For Extra High Voltage Finish, use "EHV". (> 345 kV).
For Standard Finish, leave blank. (< 345 kV)

Step 4: Assemble Catalog Number

EXAMPLE: For 795 Drake ACSS Conductor with no terminal and EHV finish, the complete catalog number is: **SDED-AS142HTNTEHV**

Notes –

For instructions, see Solo HD ACSR/ACSS/ACSS-TW Dead End installation instructions INS-ACA116

ASSEMBLY CATALOG NO.	CONDUCTORS						ALUMINUM HEX DIES
	CODE NAME	SIZE KCMIL	TYPE	STRAND		DIAMETER	
				AL	ST		
SDED-AS114HT	ORIOLE ACSS/TW	336.4	23	18	7	0.693	20AH
SDED-AS120HT	FLICKER ACSS/TW	447.0	13	18	7	0.776	24AH
SDED-AS121HT	HAWK ACSS/TW	447.0	16	18	7	0.798	24AH
SDED-AS122HT	HEN ACSS/TW	477.0	23	18	7	0.825	24AH
SDED-AS124HT	PARAKEET ACSS/TW	556.5	13	18	7	0.835	24AH
SDED-AS125HT	DOVE ACSS/TW	556.5	16	20	7	0.852	24AH
SDED-AS858HT	CALUMET ACSS/TW	565.3	16	18	7	0.858	24AH
SDED-AS846HT	MOHAWK ACSS/TW	571.7	13	18	7	0.846	24AH
SDED-AS132HT	ROOK ACSS/TW	636.0	13	19	7	0.890	27AH
SDED-AS133HT	GROSBEAK ACSS/TW	636.0	16	20	7	0.908	27AH
SDED-AS182HT	SCOTER ACSS/TW	636.0	23	18	7	0.953	27AH
SDED-AS927HT	OSWEGO ACSS/TW	664.8	16	20	7	0.927	27AH
SDED-AS913HT	MYSTIC ACSS/TW	666.6	13	20	7	0.913	27AH
SDED-AS990HT	WABASH ACSS/TW	762.8	16	20	7	0.990	30AH
SDED-AS977HT	MAUMEE ACSS/TW	768.2	13	20	7	0.977	30AH
SDED-AS140HT	TERN ACSS/TW	795.0	7	17	7	0.960	30AH
SDED-AS980HT	PUFFIN ACSS/TW	795.0	10	18	7	0.980	30AH
SDED-AS141HT	CONDOR ACSS/TW	795.0	13	20	7	0.993	30AH
SDED-AS142HT	DRAKE ACSS/TW	795.0	16	20	7	1.010	30AH
SDED-AS146HT	CANARY ACSS/TW	900.0	13	30	7	1.080	30AH
SDED-AS077HT	FRASER ACSS/TW	946.7	10	35	7	1.077	30AH
SDED-AS044HT	PHOENIX ACSS/TW	954.0	5	30	7	1.044	30AH
SDED-AS148HT	RAIL ACSS/TW	954.0	7	32	7	1.061	30AH
SDED-AS150HT	CARDINAL ACSS/TW	954.0	13	20	7	1.084	30AH
SDED-AS060HT	KETTLE ACSS/TW	957.2	7	32	7	1.060	30AH
SDED-AS108HT	SUWANNEE ACSS/TW	959.6	16	22	7	1.108	30AH
SDED-AS092HT	COLUMBIA ACSS/TW	966.2	13	21	7	1.092	30AH
SDED-AS153HT	SNOWBIRD ACSS/TW	1033.5	5	30	7	1.089	34AH
SDED-AS152HT	ORTOLAN ACSS/TW	1033.5	7	32	7	1.102	34AH

continued

Solo HD® Compression Dead End for ACSS/TW Conductor, Eye Type, Double Tongue, SDED-AS Series

ASSEMBLY CATALOG NO.	CONDUCTORS						ALUMINUM HEX DIES
	CODE NAME	SIZE KCMIL	TYPE	STRAND		DIAMETER	
				AL	ST		
SDED-AS154HT	CURLEW ACSS/TW	1033.5	13	22	7	1.128	34AH
SDED-AS131HT	-	1080.0	7	20	7	1.131	34AH
SDED-AS129HT	AVOCET ACSS/TW	1113.0	5	30	7	1.129	34AH
SDED-AS155HT	BLUEJAY ACSS/TW	1113.0	7	33	7	1.143	34AH
SDED-AS157HT	FINCH ACSS/TW	1113.0	13	38	19	1.185	34AH
SDED-AS165HT	GENESEE ACSS/TW	1158.0	7	33	7	1.165	34AH
SDED-AS196HT	HUDSON ACSS/TW	1158.4	13	26	7	1.196	34AH
SDED-AS155HT	CHEYENNE ACSS/TW	1168.1	5	30	7	1.155	34AH
SDED-AS167HT	OXBIRD ACSS/TW	1192.5	5	30	7	1.167	34AH
SDED-AS158HT	BUNTING ACSS/TW	1192.5	7	33	7	1.191	34AH
SDED-AS159HT	GRACKLE ACSS/TW	1192.5	13	38	19	1.225	36AH
SDED-AS245HT	YUKON ACSS/TW	1233.6	13	38	19	1.245	34AH
SDED-AS213HT	NELSON ACSS/TW	1257.1	7	35	7	1.213	34AH
SDED-AS202HT	SCISSORTAIL ACSS/TW	1272.0	5	30	7	1.202	36AH
SDED-AS203HT	CATAWBA ACSS/TW	1272.0	5	30	7	1.203	34AH
SDED-AS161HT	BITTERN ACSS/TW	1272.0	7	35	7	1.220	36AH
SDED-AS163HT	PHEASANT ACSS/TW	1272.0	13	39	19	1.264	36AH
SDED-AS290HT	THAMES ACSS/TW	1334.6	13	39	19	1.290	36AH
SDED-AS164HT	DIPPER ACSS/TW	1351.5	7	35	7	1.256	36AH
SDED-AS166HT	MARTIN ACSS/TW	1351.5	13	39	19	1.300	38AH
SDED-AS259HT	MACKENZIE ACSS/TW	1359.7	7	36	7	1.259	36AH
SDED-AS248HT	TRUCKEE ACSS/TW	1372.5	5	30	7	1.248	34AH
SDED-AS167HT	BOBOLINK ACSS/TW	1431.0	7	30	7	1.291	38AH
SDED-AS169HT	PLOVER ACSS/TW	1431.0	13	37	19	1.337	38AH
SDED-AS340HT	MERRIMACK ACSS/TW	1433.5	13	39	19	1.340	38AH
SDED-AS302HT	MIRAMICHI ACSS/TW	1455.3	7	36	7	1.302	38AH
SDED-AS292HT	ST. CROIX ACSS/TW	1467.8	5	33	7	1.292	38AH
SDED-AS382HT	RIO GRAND ACSS/TW	1533.3	13	39	19	1.382	38AH
SDED-AS345HT	POTOMAC ACSS/TW	1557.4	7	36	7	1.345	38AH
SDED-AS334HT	PLATTE ACSS/TW	1569.0	5	33	7	1.334	38AH
SDED-AS173HT	LAPWING ACSS/TW	1590.0	7	36	7	1.358	40AH
SDED-AS174HT	FALCON ACSS/TW	1590.0	13	42	19	1.408	40AH
SDED-AS424HT	PECOS ACSS/TW	1622.0	13	39	19	1.424	40AH
SDED-AS386HT	SCHUYLKILL ACSS/TW	1657.4	7	36	7	1.386	40AH
SDED-AS407HT	JAMES ACSS/TW	1730.6	13	34	19	1.407	42AH
SDED-AS427HT	PEE DEE ACSS/TW	1758.6	7	37	7	1.427	40AH
SDED-AS175HT	CHUKAR ACSS/TW	1780.0	8	37	19	1.445	42AH
SDED-AS545HT	CUMBERLAND ACSS/TW	1926.9	13	42	19	1.545	42AH
SDED-AS504HT	ATHABASKA ACSS/TW	1949.6	7	42	7	1.504	42AH
SDED-AS602HT	POWDER ACSS/TW	2153.8	8	64	19	1.602	44AH
SDED-AS178HT	BLUEBIRD ACSS/TW	2156.0	8	64	19	1.608	44AH
SDED-AS762HT	SANTEE ACSS/TW	2627.3	8	64	19	1.762	48AH

Solo HD® Compression Joint for ACSS/TW Conductor

The SDCJ-AS Series Compression Joint Assembly is specifically designed for ACSS/TW conductors. The Solo HD Compression Joint is fabricated from a specially tempered aluminum that will transfer elevated current and dissipate increased heat more efficiently. Its innovative design provides a solid, void-free compression through the complete unit with once set of dies, reducing the total quantity of compressions and installation time by almost half when compared to the of the ones required by the two die compression systems while keeping the same reliable and proven performance.

All Solo HD Compression Joints are designed for full tension use, achieving a minimum of 95% of the ASTM rated strength of the conductor. Each compression joint assembly comes with an aluminum joint and a steel sleeve.

For die sizes 30AH and above, the end tapers of the compression portions of all compression accessories are supplied with a high voltage finish.

Benefits

- **Half the Installation Time**
  Using an innovative core gripping system that allows a single die to compress the outer aluminum barrel to grip both the steel core as well as the aluminum strands, utilizing the same Aluminum Hex (AH) die set.
- **No Filler Compound Required**
  By creating a practically void-free compression, eliminating ingress of water, and using steels that eliminate the exposure of raw steel after, thereby eliminating rust and corrosion, AFL has removed variability of the amount of compound being placed in each connector.
- **Joints Travel Over Sheaves**
  Enhancing speed of installation, full tension joints can travel through sheaves without impact to the performance of the connector, allowing for more conductor to be strung from a single location.
- **Same Install Method**
  With no new tools required, installation crews do not require training on new compression tools.
- **One Connector**
  Assembly can be used for both ACSS and ACSR type conductors, eliminating the need for multiple part numbers.
- **Same Compression Die Set**
  The Aluminum Hex (AH) die size remains the same as that of the standard AFL two-die system used today and eliminates the need for the Steel Hex (SH) dies altogether.
- **Same Compression Tools**
  By using the same compression pumps and presses, AFL does not require the need for a large investment in both the tools and training.

Qualifications

GOVERNING BODY	STANDARD CODE
ANSI	C119.4

Contact AFL for further details.

Contact AFL for further details.

continued

Solo HD® Compression Joint for ACSS/TW Conductor

Ordering Information

Step 1: Assembly Catalog Number

Determine the assembly catalog number based on the conductor being used.

EXAMPLE: For 795 Drake ACSS Conductor with no terminal and EHV finish, the complete catalog number is: **SDCJ-AS142HT**

Notes

For instructions, see Solo HD ACSR/ACSS/ACSS-TW Joint installation instructions ACA117

ASSEMBLY CATALOG NO.	CONDUCTORS						ALUMINUM HEX DIES
	CODE NAME	SIZE KCMIL	TYPE	STRAND		DIAMETER	
				AL	ST		
SDCJ-AS114HT	ORIOLE ACSS/TW	336.4	23	18	7	0.693	20AH
SDCJ-AS120HT	FLICKER ACSS/TW	447.0	13	18	7	0.776	24AH
SDCJ-AS121HT	HAWK ACSS/TW	477.0	16	18	7	0.798	24AH
SDCJ-AS122HT	HEN ACSS/TW	477.0	23	18	7	0.825	24AH
SDCJ-AS124HT	PARAKEET ACSS/TW	556.5	13	18	7	0.835	24AH
SDCJ-AS125HT	DOVE ACSS/TW	556.5	16	20	7	0.852	24AH
SDCJ-AS858HT	CALUMET ACSS/TW	565.3	16	18	7	0.858	24AH
SDCJ-AS846HT	MOHAWK ACSS/TW	571.7	13	18	7	0.846	24AH
SDCJ-AS132HT	ROOK ACSS/TW	636.0	13	19	7	0.890	27AH
SDCJ-AS133HT	GROSBEAK ACSS/TW	636.0	16	20	7	0.908	27AH
SDCJ-AS182HT	SCOTER ACSS/TW	636.0	23	18	7	0.953	27AH
SDCJ-AS927HT	OSWEGO ACSS/TW	664.8	16	20	7	0.927	27AH
SDCJ-AS913HT	MYSTIC ACSS/TW	666.6	13	20	7	0.913	27AH
SDCJ-AS990HT	WABASH ACSS/TW	762.8	16	20	7	0.990	30AH
SDCJ-AS977HT	MAUMEE ACSS/TW	768.2	13	20	7	0.977	30AH
SDCJ-AS140HT	TERN ACSS/TW	795.0	7	17	7	0.960	30AH
SDCJ-AS980HT	PUFFIN ACSS/TW	795.0	10	18	7	0.980	30AH
SDCJ-AS141HT	CONDOR ACSS/TW	795.0	13	20	7	0.993	30AH
SDCJ-AS142HT	DRAKE ACSS/TW	795.0	16	20	7	1.010	30AH
SDCJ-AS146HT	CANARY ACSS/TW	900.0	13	30	7	1.080	30AH
SDCJ-AS077HT	FRASER ACSS/TW	946.7	10	35	7	1.077	30AH
SDCJ-AS044HT	PHOENIX ACSS/TW	954.0	5	30	7	1.044	30AH
SDCJ-AS148HT	RAIL ACSS/TW	954.0	7	32	7	1.061	30AH
SDCJ-AS150HT	CARDINAL ACSS/TW	954.0	13	20	7	1.084	30AH
SDCJ-AS060HT	KETTLE ACSS/TW	957.2	7	32	7	1.060	30AH
SDCJ-AS108HT	SUWANNEE ACSS/TW	959.6	16	22	7	1.108	30AH
SDCJ-AS092HT	COLUMBIA ACSS/TW	966.2	13	21	7	1.092	30AH
SDCJ-AS153HT	SNOWBIRD ACSS/TW	1033.5	5	30	7	1.089	34AH
SDCJ-AS152HT	ORTOLAN ACSS/TW	1033.5	7	32	7	1.102	34AH

continued

Solo HD® Compression Joint for ACSS/TW Conductor, SDCJ-AS Series

ASSEMBLY CATALOG NO.	CONDUCTORS						ALUMINUM HEX DIES
	CODE NAME	SIZE KCMIL	TYPE	STRAND		DIAMETER	
				AL	ST		
SDCJ-AS154HT	CURLEW ACSS/TW	1033.5	13	22	7	1.128	34AH
SDCJ-AS131HT	-	1080.0	7	20	7	1.131	34AH
SDCJ-AS129HT	AVOCET ACSS/TW	1113.0	5	30	7	1.129	34AH
SDCJ-AS155HT	BLUEJAY ACSS/TW	1113.0	7	33	7	1.143	34AH
SDCJ-AS157HT	FINCH ACSS/TW	1113.0	13	38	19	1.185	34AH
SDCJ-AS165HT	GENESEE ACSS/TW	1158.0	7	33	7	1.165	34AH
SDCJ-AS196HT	HUDSON ACSS/TW	1158.4	13	26	7	1.196	34AH
SDCJ-AS155HT	CHEYENNE ACSS/TW	1168.1	5	30	7	1.155	34AH
SDCJ-AS167HT	OXBIRD ACSS/TW	1192.5	5	30	7	1.167	34AH
SDCJ-AS158HT	BUNTING ACSS/TW	1192.5	7	33	7	1.191	34AH
SDCJ-AS159HT	GRACKLE ACSS/TW	1192.5	13	38	19	1.225	36AH
SDCJ-AS245HT	YUKON ACSS/TW	1233.6	13	38	19	1.245	34AH
SDCJ-AS213HT	NELSON ACSS/TW	1257.1	7	35	7	1.213	34AH
SDCJ-AS427HT	PEE DEE ACSS/TW	1758.6	7	37	7	1.427	40AH
SDCJ-AS175HT	CHUKAR ACSS/TW	1780.0	8	37	19	1.445	42AH
SDCJ-AS545HT	CUMBERLAND ACSS/TW	1926.9	13	42	19	1.545	42AH
SDCJ-AS504HT	ATHABASKA ACSS/TW	1949.6	7	42	7	1.504	42AH
SDCJ-AS602HT	POWDER ACSS/TW	2153.8	8	64	19	1.602	44AH
SDCJ-AS178HT	BLUEBIRD ACSS/TW	2156.0	8	64	19	1.608	44AH
SDCJ-AS762HT	SANTEE ACSS/TW	2627.3	8	64	19	1.762	48AH

Solo HD® Compression Dead End for ACSS/TW Conductor, Adjustable Clevis, Single Tongue

The SDACS-AS Series Dead End Assembly is specifically designed for ACSS/TW conductors. The body of the SOLO HD Dead End is fabricated from a specially tempered aluminum that will transfer elevated current and dissipate increased heat more efficiently.

The tongue and terminal pad are constructed with a 15° angle, which permits the terminal connector to be bolted in the straight or 30° position. Its innovative design provides a solid, void-free compression through the complete unit with once set of dies, reducing the total quantity of compressions and installation time by almost ½ when compared to the of the ones required by the two die compression systems while keeping the same reliable and proven performance.

All Solo HD Dead Ends are designed for full tension use, achieving a minimum of 95% of the ASTM rated strength of the conductor. Each dead end assembly comes with terminal and aluminum hardware.

For die sizes 30 AH and above, the end tapers of the compression portions of all compression accessories are supplied with a high voltage finish. Corona bolts are furnished as standard on 15° terminals for these die sizes.

The square edges of the bolted pads of the compression accessories could cause Corona. Pads with edges and corners rounded can be supplied by adding the catalog suffix "EHV".

Benefits

- **Half the Installation Time**
  Using an innovative core gripping system that allows a single die to compress the outer aluminum barrel to grip both the steel core as well as the aluminum strands, utilizing the same Aluminum Hex (AH) die set.
- **No Filler Compound Required**
  By creating a practically void-free compression, eliminating ingress of water, and using steels that eliminate the exposure of raw steel after, thereby eliminating rust and corrosion, AFL has removed variability of the amount of compound being placed in each connector.
- **Joints Travel Over Sheaves**
  Enhancing speed of installation, full tension joints can travel through sheaves without impact to the performance of the connector, allowing for more conductor to be strung from a single location.
- **Same Install Method**
  With no new tools required, installation crews do not require training on new compression tools.
- **One Connector**
  Assembly can be used for both ACSS and ACSR type conductors, eliminating the need for multiple part numbers.
- **Same Compression Die Set**
  The Aluminum Hex (AH) die size remains the same as that of the standard AFL two-die system used today and eliminates the need for the Steel Hex (SH) dies altogether.
- **Same Compression Tools**
  By using the same compression pumps and presses, AFL does not require the need for a large investment in both the tools and training.

Qualifications

GOVERNING BODY	STANDARD CODE
ANSI	C119.4

Contact AFL for further details.

continued

Solo HD® Compression Dead End for ACSS/TW Conductor, Adjustable Clevis, Single Tongue

Ordering Information

Assembly Catalog No.	Terminal Connector	EHV Finish

Step 1: Assembly Catalog Number
Determine the assembly catalog number based on the conductor being used.

Step 2: Terminal Connector
For an assembly without a terminal connector, use "NT".
For an assembly with a terminal connector, leave blank.

Step 3: Extra High Voltage Finish
For Extra High Voltage Finish, use "EHV". (> 345 kV).
For Standard Finish, leave blank. (< 345 kV)

Step 4: Assemble Catalog Number

EXAMPLE: For 795 Drake ACSS/TW Conductor with no terminal and EHV finish, the complete catalog number is: **SDACS-AS142HTNTEHV**

Notes –

For instructions, see Solo HD ACSR/ACSS/ACSS-TW Adjustable Clevis Dead End installation instructions INS-ACA125

ASSEMBLY CATALOG NO.	CONDUCTORS						ALUMINUM HEX DIES
	CODE NAME	SIZE KCMIL	TYPE	STRAND		DIAMETER	
				AL	ST		
SDACS-AS114HT	ORIOLE ACSS/TW	336.4	23	18	7	0.693	20AH
SDACS-AS120HT	FLICKER ACSS/TW	447.0	13	18	7	0.776	24AH
SDACS-AS121HT	HAWK ACSS/TW	447.0	16	18	7	0.798	24AH
SDACS-AS122HT	HEN ACSS/TW	477.0	23	18	7	0.825	24AH
SDACS-AS124HT	PARAKEET ACSS/TW	556.5	13	18	7	0.835	24AH
SDACS-AS125HT	DOVE ACSS/TW	556.5	16	20	7	0.852	24AH
SDACS-AS858HT	CALUMET ACSS/TW	565.3	16	18	7	0.858	24AH
SDACS-AS846HT	MOHAWK ACSS/TW	571.7	13	18	7	0.846	24AH
SDACS-AS132HT	ROOK ACSS/TW	636.0	13	19	7	0.890	27AH
SDACS-AS133HT	GROSBEAK ACSS/TW	636.0	16	20	7	0.908	27AH
SDACS-AS182HT	SCOTER ACSS/TW	636.0	23	18	7	0.953	27AH
SDACS-AS927HT	OSWEGO ACSS/TW	664.8	16	20	7	0.927	27AH
SDACS-AS913HT	MYSTIC ACSS/TW	666.6	13	20	7	0.913	27AH
SDACS-AS990HT	WABASH ACSS/TW	762.8	16	20	7	0.990	30AH
SDACS-AS977HT	MAUMEE ACSS/TW	768.2	13	20	7	0.977	30AH
SDACS-AS140HT	TERN ACSS/TW	795.0	7	17	7	0.960	30AH
SDACS-AS980HT	PUFFIN ACSS/TW	795.0	10	18	7	0.980	30AH
SDACS-AS141HT	CONDOR ACSS/TW	795.0	13	20	7	0.993	30AH
SDACS-AS142HT	DRAKE ACSS/TW	795.0	16	20	7	1.010	30AH
SDACS-AS146HT	CANARY ACSS/TW	900.0	13	30	7	1.080	30AH
SDACS-AS077HT	FRASER ACSS/TW	946.7	10	35	7	1.077	30AH
SDACS-AS044HT	PHOENIX ACSS/TW	954.0	5	30	7	1.044	30AH
SDACS-AS148HT	RAIL ACSS/TW	954.0	7	32	7	1.061	30AH
SDACS-AS150HT	CARDINAL ACSS/TW	954.0	13	20	7	1.084	30AH
SDACS-AS060HT	KETTLE ACSS/TW	957.2	7	32	7	1.060	30AH
SDACS-AS108HT	SUWANNEE ACSS/TW	959.6	16	22	7	1.108	30AH
SDACS-AS092HT	COLUMBIA ACSS/TW	966.2	13	21	7	1.092	30AH
SDACS-AS153HT	SNOWBIRD ACSS/TW	1033.5	5	30	7	1.089	34AH
SDACS-AS152HT	ORTOLAN ACSS/TW	1033.5	7	32	7	1.102	34AH

continued

Solo HD® Compression Dead End for ACSS/TW Conductor, Adjustable Clevis, Single Tongue

ASSEMBLY CATALOG NO.	CONDUCTORS						ALUMINUM HEX DIES
	CODE NAME	SIZE KCMIL	TYPE	STRAND		DIAMETER	
				AL	ST		
SDACS-AS154HT	CURLEW ACSS/TW	1033.5	13	22	7	1.128	34AH
SDACS-AS131HT	-	1080.0	7	20	7	1.131	34AH
SDACS-AS129HT	AVOCET ACSS/TW	1113.0	5	30	7	1.129	34AH
SDACS-AS155HT	BLUEJAY ACSS/TW	1113.0	7	33	7	1.143	34AH
SDACS-AS157HT	FINCH ACSS/TW	1113.0	13	38	19	1.185	34AH
SDACS-AS165HT	GENESEE ACSS/TW	1158.0	7	33	7	1.165	34AH
SDACS-AS196HT	HUDSON ACSS/TW	1158.4	13	26	7	1.196	34AH
SDACS-AS155HT	CHEYENNE ACSS/TW	1168.1	5	30	7	1.155	34AH
SDACS-AS167HT	OXBIRD ACSS/TW	1192.5	5	30	7	1.167	34AH
SDACS-AS158HT	BUNTING ACSS/TW	1192.5	7	33	7	1.191	34AH
SDACS-AS159HT	GRACKLE ACSS/TW	1192.5	13	38	19	1.225	36AH
SDACS-AS245HT	YUKON ACSS/TW	1233.6	13	38	19	1.245	34AH
SDACS-AS213HT	NELSON ACSS/TW	1257.1	7	35	7	1.213	34AH
SDACS-AS202HT	SCISSORTAIL ACSS/TW	1272.0	5	30	7	1.202	36AH
SDACS-AS203HT	CATAWBA ACSS/TW	1272.0	5	30	7	1.203	34AH
SDACS-AS161HT	BITTERN ACSS/TW	1272.0	7	35	7	1.220	36AH
SDACS-AS163HT	PHEASANT ACSS/TW	1272.0	13	39	19	1.264	36AH
SDACS-AS290HT	THAMES ACSS/TW	1334.6	13	39	19	1.290	36AH
SDACS-AS164HT	DIPPER ACSS/TW	1351.5	7	35	7	1.256	36AH
SDACS-AS166HT	MARTIN ACSS/TW	1351.5	13	39	19	1.300	38AH
SDACS-AS259HT	MACKENZIE ACSS/TW	1359.7	7	36	7	1.259	36AH
SDACS-AS248HT	TRUCKEE ACSS/TW	1372.5	5	30	7	1.248	34AH
SDACS-AS167HT	BOBOLINK ACSS/TW	1431.0	7	30	7	1.291	38AH
SDACS-AS169HT	PLOVER ACSS/TW	1431.0	13	37	19	1.337	38AH
SDACS-AS340HT	MERRIMACK ACSS/TW	1433.5	13	39	19	1.340	38AH
SDACS-AS302HT	MIRAMICHI ACSS/TW	1455.3	7	36	7	1.302	38AH
SDACS-AS292HT	ST. CROIX ACSS/TW	1467.8	5	33	7	1.292	38AH
SDACS-AS382HT	RIO GRAND ACSS/TW	1533.3	13	39	19	1.382	38AH
SDACS-AS345HT	POTOMAC ACSS/TW	1557.4	7	36	7	1.345	38AH
SDACS-AS334HT	PLATTE ACSS/TW	1569.0	5	33	7	1.334	38AH
SDACS-AS173HT	LAPWING ACSS/TW	1590.0	7	36	7	1.358	40AH
SDACS-AS174HT	FALCON ACSS/TW	1590.0	13	42	19	1.408	40AH
SDACS-AS424HT	PECOS ACSS/TW	1622.0	13	39	19	1.424	40AH
SDACS-AS386HT	SCHUYLKILL ACSS/TW	1657.4	7	36	7	1.386	40AH
SDACS-AS407HT	JAMES ACSS/TW	1730.6	13	34	19	1.407	42AH
SDACS-AS427HT	PEE DEE ACSS/TW	1758.6	7	37	7	1.427	40AH
SDACS-AS175HT	CHUKAR ACSS/TW	1780.0	8	37	19	1.445	42AH
SDACS-AS545HT	CUMBERLAND ACSS/TW	1926.9	13	42	19	1.545	42AH
SDACS-AS504HT	ATHABASKA ACSS/TW	1949.6	7	42	7	1.504	42AH
SDACS-AS602HT	POWDER ACSS/TW	2153 .8	8	64	19	1.602	44AH
SDACS-AS178HT	BLUEBIRD ACSS/TW	2156.0	8	64	19	1.608	44AH
SDACS-AS762HT	SANTEE ACSS/TW	2627.3	8	64	19	1.762	48AH

Solo HD® Compression Dead End for ACSS/TW Conductor, Adjustable Clevis, Double Tongue

The SDACD-AS Series Double Tongue Dead End Assembly is specifically designed for ACSS conductor . The body of the SOLO HD Dead Ends are fabricated from a specially tempered aluminum that will transfer elevated current and dissipate increased heat more efficiently.

The tongue and terminal pad are constructed with a 15° angle, which permits the terminal connector to be bolted in the straight or 30° position. Its innovative design provides a solid, void-free compression through the complete unit with once set of dies, reducing the total quantity of compressions and installation time by almost ½ when compared to the of the ones required by the two die compression systems while keeping the same reliable and proven performance.

All Solo HD Dead Ends are designed for full tension use, achieving a minimum of 95% of the ASTM rated strength of the conductor. Each dead end assembly comes with terminal and aluminum hardware.

For die sizes 30 AH and above, the end tapers of the compression portions of all compression accessories are supplied with a high voltage finish. Corona bolts are furnished as standard on 15° terminals for these die sizes.

The square edges of the bolted pads of the compression accessories could cause Corona. Pads with edges and corners rounded can be supplied by adding the catalog suffix "EHV".

Benefits

- **Half the Installation Time**
  Using an innovative core gripping system that allows a single die to compress the outer aluminum barrel to grip both the steel core as well as the aluminum strands, utilizing the same Aluminum Hex (AH) die set.
- **No Filler Compound Required**
  By creating a practically void-free compression, eliminating ingress of water, and using steels that eliminate the exposure of raw steel after, thereby eliminating rust and corrosion, AFL has removed variability of the amount of compound being placed in each connector.
- **Joints Travel Over Sheaves**
  Enhancing speed of installation, full tension joints can travel through sheaves without impact to the performance of the connector, allowing for more conductor to be strung from a single location.
- **Same Install Method**
  With no new tools required, installation crews do not require training on new compression tools.
- **One Connector**
  Assembly can be used for both ACSS and ACSR type conductors, eliminating the need for multiple part numbers.
- **Same Compression Die Set**
  The Aluminum Hex (AH) die size remains the same as that of the standard AFL two-die system used today and eliminates the need for the Steel Hex (SH) dies altogether.
- **Same Compression Tools**
  By using the same compression pumps and presses, AFL does not require the need for a large investment in both the tools and training.

Qualifications

GOVERNING BODY	STANDARD CODE
ANSI	C119.4

Contact AFL for further details.

continued

Solo HD® Compression Dead End for ACSS/TW Conductor, Adjustable Clevis, Double Tongue

Ordering Information

Assembly Catalog No.	Terminal Connector	EHV Finish

Step 1: Assembly Catalog Number
Determine the assembly catalog number based on the conductor being used.

Step 2: Terminal Connector
For an assembly without a terminal connector, use "NT".
For an assembly with a terminal connector, leave blank.

Step 3: Extra High Voltage Finish
For Extra High Voltage Finish, use "EHV". (> 345 kV).
For Standard Finish, leave blank. (< 345 kV)

Step 4: Assemble Catalog Number

EXAMPLE: For 795 Drake ACSS Conductor with no terminal and EHV finish, the complete catalog number is: **SDACD-AS142HTNTEHV**

Notes –

For instructions, see Solo HD ACSR/ACSS/ACSS-TW Adjustable Clevis Dead End installation instructions INS-ACA125

ASSEMBLY CATALOG NO.	CONDUCTORS						ALUMINUM HEX DIES
	CODE NAME	SIZE KCMIL	TYPE	STRAND		DIAMETER	
				AL	ST		
SDACD-AS114HT	ORIOLE ACSS/TW	336.4	23	18	7	0.693	20AH
SDACD-AS120HT	FLICKER ACSS/TW	447.0	13	18	7	0.776	24AH
SDACD-AS121HT	HAWK ACSS/TW	447.0	16	18	7	0.798	24AH
SDACD-AS122HT	HEN ACSS/TW	477.0	23	18	7	0.825	24AH
SDACD-AS124HT	PARAKEET ACSS/TW	556.5	13	18	7	0.835	24AH
SDACD-AS125HT	DOVE ACSS/TW	556.5	16	20	7	0.852	24AH
SDACD-AS858HT	CALUMET ACSS/TW	565.3	16	18	7	0.858	24AH
SDACD-AS846HT	MOHAWK ACSS/TW	571.7	13	18	7	0.846	24AH
SDACD-AS132HT	ROOK ACSS/TW	636.0	13	19	7	0.890	27AH
SDACD-AS133HT	GROSBEAK ACSS/TW	636.0	16	20	7	0.908	27AH
SDACD-AS182HT	SCOTER ACSS/TW	636.0	23	18	7	0.953	27AH
SDACD-AS927HT	OSWEGO ACSS/TW	664.8	16	20	7	0.927	27AH
SDACD-AS913HT	MYSTIC ACSS/TW	666.6	13	20	7	0.913	27AH
SDACD-AS990HT	WABASH ACSS/TW	762.8	16	20	7	0.990	30AH
SDACD-AS977HT	MAUMEE ACSS/TW	768.2	13	20	7	0.977	30AH
SDACD-AS140HT	TERN ACSS/TW	795.0	7	17	7	0.960	30AH
SDACD-AS980HT	PUFFIN ACSS/TW	795.0	10	18	7	0.980	30AH
SDACD-AS141HT	CONDOR ACSS/TW	795.0	13	20	7	0.993	30AH
SDACD-AS142HT	DRAKE ACSS/TW	795.0	16	20	7	1.010	30AH
SDACD-AS146HT	CANARY ACSS/TW	900.0	13	30	7	1.080	30AH
SDACD-AS077HT	FRASER ACSS/TW	946.7	10	35	7	1.077	30AH
SDACD-A3044HT	PHOENIX ACSS/TW	954.0	5	30	7	1.044	30AH
SDACD-AS148HT	RAIL ACSS/TW	954.0	7	32	7	1.061	30AH
SDACD-AS150HT	CARDINAL ACSS/TW	954.0	13	20	7	1.084	30AH
SDACD-AS060HT	KETTLE ACSS/TW	957.2	7	32	7	1.060	30AH
SDACD-AS108HT	SUWANNEE ACSS/TW	959.6	16	22	7	1.108	30AH
SDACD-AS092HT	COLUMBIA ACSS/TW	966.2	13	21	7	1.092	30AH
SDACD-AS153HT	SNOWBIRD ACSS/TW	1033.5	5	30	7	1.089	34AH
SDACD-AS152HT	ORTOLAN ACSS/TW	1033.5	7	32	7	1.102	34AH

continued

Solo HD® Compression Dead End for ACSS/TW Conductor, Adjustable Clevis, Double Tongue

ASSEMBLY CATALOG NO.	CONDUCTORS						ALUMINUM HEX DIES
	CODE NAME	SIZE KCMIL	TYPE	STRAND		DIAMETER	
				AL	ST		
SDACD-AS154HT	CURLEW ACSS/TW	1033.5	13	22	7	1.128	34AH
SDACD-AS131HT	-	1080.0	7	20	7	1.131	34AH
SDACD-AS129HT	AVOCET ACSS/TW	1113.0	5	30	7	1.129	34AH
SDACD-AS155HT	BLUEJAY ACSS/TW	1113.0	7	33	7	1.143	34AH
SDACD-AS157HT	FINCH ACSS/TW	1113.0	13	38	19	1.185	34AH
SDACD-AS165HT	GENESEE ACSS/TW	1158.0	7	33	7	1.165	34AH
SDACD-AS196HT	HUDSON ACSS/TW	1158.4	13	26	7	1.196	34AH
SDACD-AS155HT	CHEYENNE ACSS/TW	1168.1	5	30	7	1.155	34AH
SDACD-AS167HT	OXBIRD ACSS/TW	1192.5	5	30	7	1.167	34AH
SDACD-AS158HT	BUNTING ACSS/TW	1192.5	7	33	7	1.191	34AH
SDACD-AS19HT	GRACKLE ACSS/TW	1192.5	13	38	19	1.225	36AH
SDACD-AS245HT	YUKON ACSS/TW	1233.6	13	38	19	1.245	34AH
SDACD-AS213HT	NELSON ACSS/TW	1257.1	7	35	7	1.213	34AH
SDACD-AS202HT	SCISSORTAIL ACSS/TW	1272.0	5	30	7	1.202	36AH
SDACD-AS203HT	CATAWBA ACSS/TW	1272.0	5	30	7	1.203	34AH
SDACD-AS161HT	BITTERN ACSS/TW	1272.0	7	35	7	1.220	36AH
SDACD-AS163HT	PHEASANT ACSS/TW	1272.0	13	39	19	1.264	36AH
SDACD-AS290HT	THAMES ACSS/TW	1334.6	13	39	19	1.290	36AH
SDACD-AS164HT	DIPPER ACSS/TW	1351.5	7	35	7	1.256	36AH
SDACD-AS166HT	MARTIN ACSS/TW	1351.5	13	39	19	1.300	38AH
SDACD-AS259HT	MACKENZIE ACSS/TW	1359.7	7	36	7	1.259	36AH
SDACD-AS248HT	TRUCKEE ACSS/TW	1372.5	5	30	7	1.248	34AH
SDACD-AS167HT	BOBOLINK ACSS/TW	1431.0	7	30	7	1.291	38AH
SDACD-AS169HT	PLOVER ACSS/TW	1431.0	13	37	19	1.337	38AH
SDACD-AS340HT	MERRIMACK ACSS/TW	1433.5	13	39	19	1.340	38AH
SDACD-AS302HT	MIRAMICHI ACSS/TW	1455.3	7	36	7	1.302	38AH
SDACD-AS292HT	ST. CROIX ACSS/TW	1467.8	5	33	7	1.292	38AH
SDACD-AS382HT	RIO GRAND ACSS/TW	1533.3	13	39	19	1.382	38AH
SDACD-AS345HT	POTOMAC ACSS/TW	1557.4	7	36	7	1.345	38AH
SDACD-AS334HT	PLATTE ACSS/TW	1569.0	5	33	7	1.334	38AH
SDACD-AS173HT	LAPWING ACSS/TW	1590.0	7	36	7	1.358	40AH
SDACD-AS174HT	FALCON ACSS/TW	1590.0	13	42	19	1.408	40AH
SDACD-AS424HT	PECOS ACSS/TW	1622.0	13	39	19	1.424	40AH
SDACD-AS386HT	SCHUYLKILL ACSS/TW	1657.4	7	36	7	1.386	40AH
SDACD-AS407HT	JAMES ACSS/TW	1730.6	13	34	19	1.407	42AH
SDACD-AS427HT	PEE DEE ACSS/TW	1758.6	7	37	7	1.427	40AH
SDACD-AS175HT	CHUKAR ACSS/TW	1780.0	8	37	19	1.445	42AH
SDACD-AS545HT	CUMBERLAND ACSS/TW	1926.9	13	42	19	1.545	42AH
SDACD-AS504HT	ATHABASKA ACSS/TW	1949.6	7	42	7	1.504	42AH
SDACD-AS602HT	POWDER ACSS/TW	2153.8	8	64	19	1.602	44AH
SDACD-AS178HT	BLUEBIRD ACSS/TW	2156.0	8	64	19	1.608	44AH
SDACD-AS762HT	SANTEE ACSS/TW	2627.3	8	64	19	1.762	48AH

Installation Instructions

for AFL Dead End

For Use on Overhead Conductor Types

ACSR, ACSS, ACSS/TW

NOTE:

Preparation

Prior to making connections, the conductor and accessory bore must be clean.

NOTE: Improper cleaning of conductor strands can result in higher resistance dead ends; this causes the fittings to operate at higher temperatures leading to premature failure.

Clean conductor strands thoroughly by using one of the methods below:

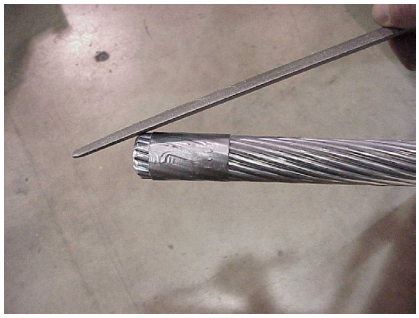
Method 1 – ConductaClean® System (Recommended)
ConductaClean solution cleans ends of overhead conductor prior to assembly and removes oxidation and contaminants from strands.

See information on ConductaClean at AFLglobal.com or call: 800-866-7385 Ref: Transmission tool CCP-SYS_T.

Method 2 – Wire Brush
Clean conductor strands thoroughly with wire brush. Wire brush "New" conductor also.

Check accessory bore for foreign particles, removing if present.

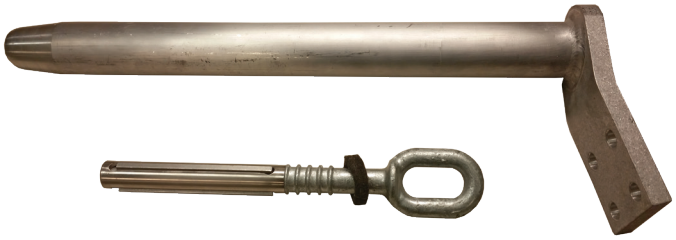
Follow Installation Instructions carefully. Improper installation can result in mechanical failure of the cable system and possible injury to persons handling or in the vicinity of the cable system.



Prior to cutting, wrap tape around the conductor to help maintain the round contour, making it easier to slide the end through the aluminum dead end. File approximately 0.09 inch chamfer on the end of the conductor. (The larger the chamfer, the easier the conductor will slide through).

Straighten several feet of the conductor removing the set caused by the reel.

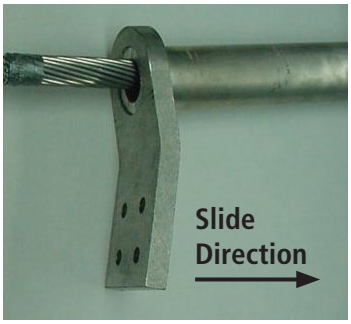
Assembly



Dead end assemblies consist of an aluminum body and steel eye/"core grip". (Felt washer is included as part of steel eye.)

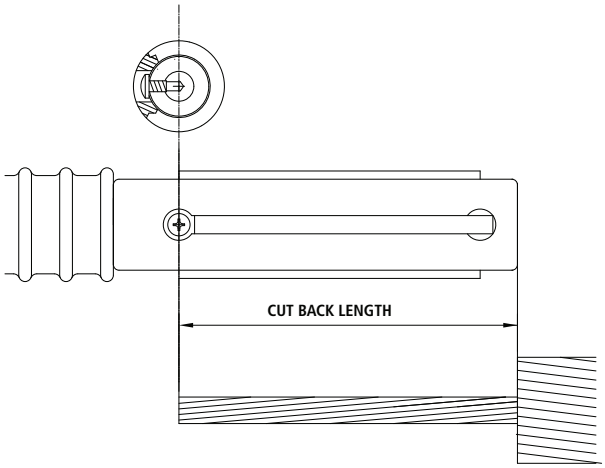
STEEL EYE/"CORE GRIP"

ALUMINUM BODY

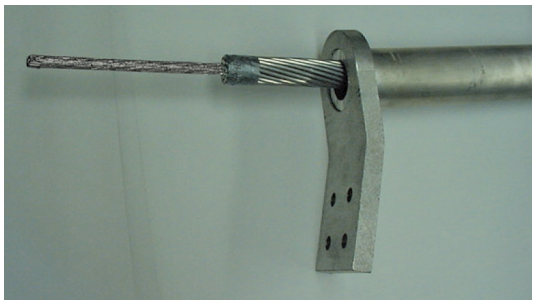


Slide aluminum dead end body (barrel first) over the conductor until sufficient working length protrudes from tongue end.

Cutting Back Aluminum Strands for Installation of Steel Eye/"Core Grip"



NOTE: It is extremely important not to nick the core strands during cutting back of the aluminum strands. If this is done, the ultimate strength of the dead end will be reduced. The cable manufacturer suggests the following method of cutting back the strands.

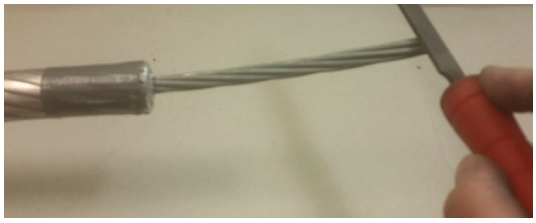


Suggested Method of Cutting Back Aluminum Strands

1. Tape location where "cutting back" is needed.
2. Position RIGID cable trimmer around conductor at the tape location.
3. Cut outer aluminum strands by rotating tool until layer becomes loose.
4. Remove cut outer aluminum layer strand.
5. Bend inner layer wires back and forth until they fracture.
6. Remove the broken wires.

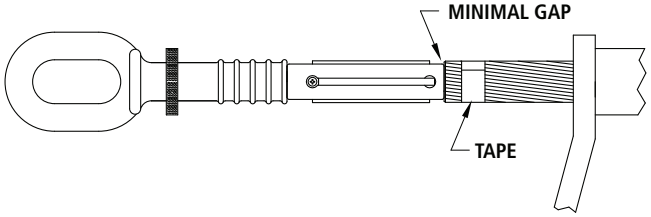
Suggested Arrangement of Compressor and Accessory During Field Installation of Dead End

The photo at right illustrates a setup, which works well to ensure a straight compression and easy maneuverability of the compressor. The conductor has been "tied off" to the tower with a sling and chain wench. The compressor is then attached to the sling by a large shackle (The compressor is suspended upside down). The accessory and cable are tied to the sling ensuring all parts are straight and in-line. The compressor can easily be slid along to each successive compression.



File chamfer on end of core to remove burrs and sharp edge. Chamfer will reduce the expanded diameter of the core (due to cutting) and ease the installation of the Steel Eye/"Core Grip".

Assembly

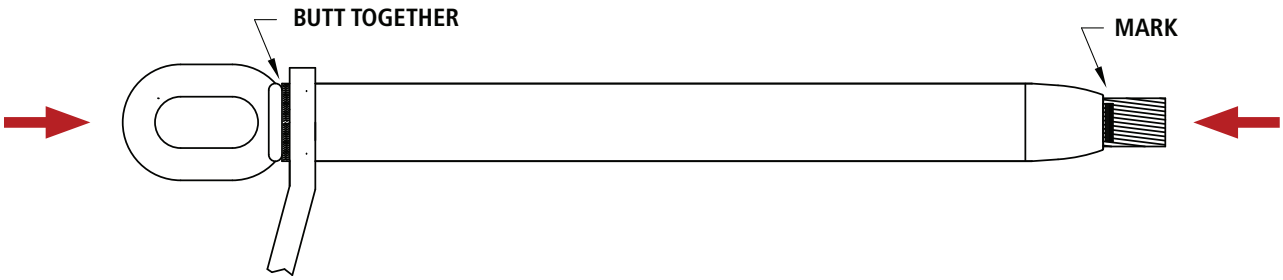


Insert end of conductor into "Core Grip" of Steel Eye. Rotate Eye "back and forth" while pushing Eye onto conductor core.

Remove tape from ends of aluminum strands.

Slide aluminum dead end body over Steel Eye/"Core Grip" until tongue butts solidly against felt washer and shoulder of steel forging.

Push to verify internal parts have remained tight during positioning of aluminum dead end body (See below), then place a mark at the end of barrel.



Align eye or clevis in desired orientation of dead end to ensure proper positioning when dead end is fastened to insulator hardware.

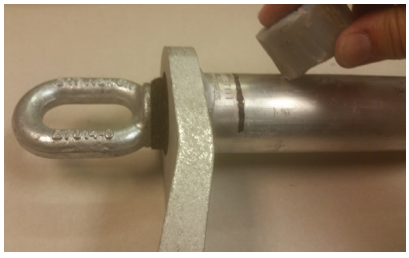
Select die size to compress aluminum dead end body. Die size for aluminum dead end body and die size marked on the die must be the same.

The dead end will bow during compression unless reasonable care is taken to have about 15 ft. (4.5 m) of the conductor supported straight out from the end of the dead end.

NOTE: Filler compound is not required in Dead end due to its void-free internals (See supporting test data available from AFL).

Compressing

Lubricate area to be compressed from "Start" knurl to end of barrel with "Accu-Lube" or similar lubricant, or cover barrel with accessory plastic wrapper.



Verify mark place at end of barrel has remained where originally place. If not, push internals together prior to making first compression (see illustration above).

Make initial compression on the dead end body over the steel shank beginning at the start knurl near the tongue. Continue making compressions overlapping the previous compression by approximately 0.50 inch. Complete die closure is required for each compression. Continue compressing to end of Dead End barrel.

Compressing (cont.)

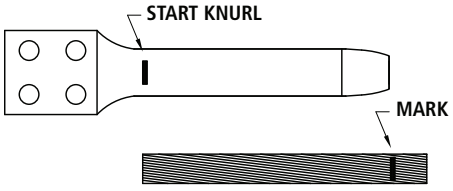
Compressed portion of the dead end should have a smooth uniform appearance. Remove flash, if present with file or emery cloth.

CAUTION: Follow installation instructions carefully. Improper installation can result in mechanical failure of the cable system and possible injury to persons handling or in the vicinity of the cable system.

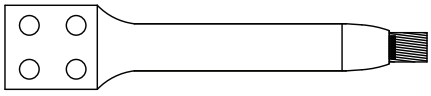
Installation of Terminal Connector

Terminal assemblies consist of Terminal Connector and attachment hardware. The terminal comes prefilled with compound from the factory.

See "Preparation" on page 2 for notes on preparation of conductor.



Mark the conductor from the end, a distance equal to the compression length of the terminal.



Insert conductor into terminal. Be sure the conductors is inserted to the mark on the conductor.

Select die size to compress Terminal Connector. Die size for Terminal Connector and die size marked on the die must be the same.

Compressing

Lubricate area to be compressed from "Start" knurl to end of barrel with "Accu-Lube" or similar lubricant, or cover barrel with accessory plastic wrapper.

Press the Terminal Connector over the conductor. Make the initial compression at the start knurl. Continue making compressions to the end of the Terminal Connector barrel, overlapping the previous compression by approximately 0.50 inches. Complete die closure is required for each compression.

Compressed portion of the Terminal Connector should have a smooth uniform appearance. Remove flash, if present, with file or emery cloth.

Clean contact surface of Terminal Connector and Dead End pad.

Coat surfaces with AFL Alnox Electrical Joint Compound or AFL HiTemp® Universal Compound and then wire brush through compound. Do not remove coating.

Bolt Terminal Connector to Dead End pad. Partially tighten all bolts and then re-tighten each bolt to recommended torque. Aluminum Bolts: (1/2" bolts – 25 lbf-ft (34 N.m); 5/8" bolts – 40 lbf-ft (54 N.m).

CAUTION: Follow Installation Instructions carefully. Improper installation can result in mechanical failure of the cable system and possible injury to persons handling or in the vicinity of the cable system.

Installation Instructions

SOLO HD® Compression System

Adjustable Clevis Dead End

for Use on Overhead Conductor Types

ACSR, ACSS, ACSS/TW

NOTE:

Preparation

Prior to making connections, the conductor and accessory bore must be clean.

NOTE: Improper cleaning of conductor strands can result in higher resistance dead ends; this causes the fittings to operate at higher temperatures leading to premature failure.

Clean conductor strands thoroughly by using one of the methods below:

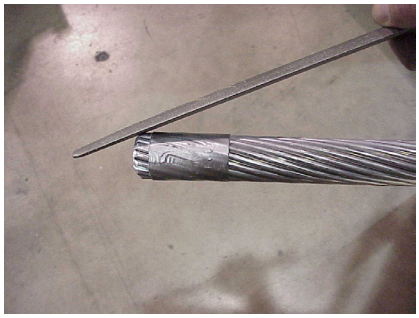
Method 1 – ConductaClean® System (Recommended)
ConductaClean solution cleans ends of overhead conductor prior to assembly and removes oxidation and contaminants from strands.

See information on ConductaClean at AFLglobal.com or call: 800-866-7385 Ref: Transmission tool CCP-SYS_T.

Method 2 – Wire Brush
Clean conductor strands thoroughly with wire brush. Wire brush "new" conductor also.

Check accessory bore for foreign particles, removing if present.

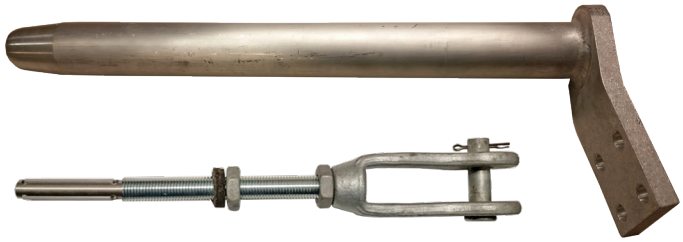
Follow Installation Instructions carefully. Improper installation can result in mechanical failure of the cable system and possible injury to persons handling or in the vicinity of the cable system.



Prior to cutting, wrap tape around the conductor to help maintain the round contour, making it easier to slide the end through the aluminum dead end. File approximately 0.09 inch chamfer on the end of the conductor. (The larger the chamfer, the easier the conductor will slide through).

Straighten several feet of the conductor removing the set caused by the reel.

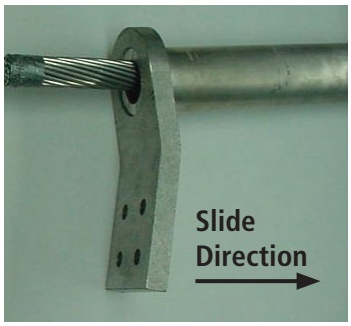
Assembly



Dead end assemblies consist of an aluminum body and steel adjustable clevis/"core grip". (Felt washer is included as part of clevis assembly.)

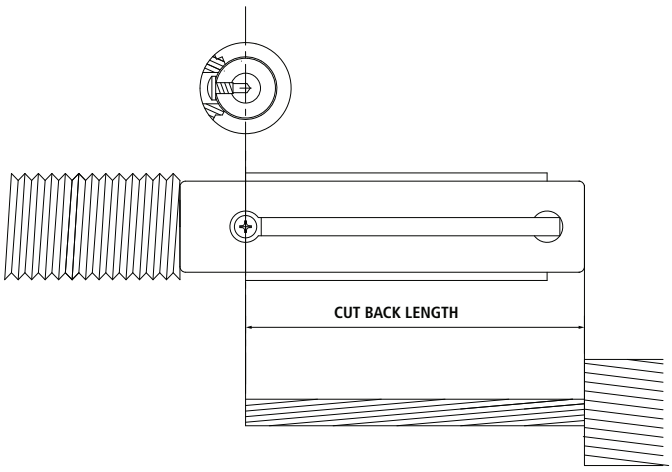
STEEL ADJUSTABLE CLEVIS/"CORE GRIP"

ALUMINUM BODY

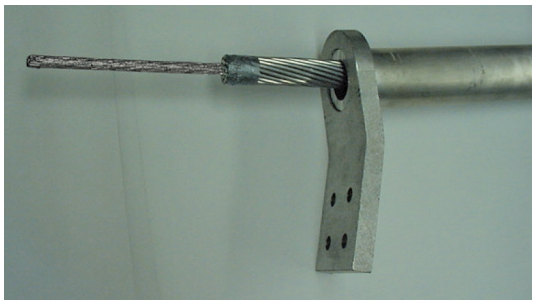


Slide aluminum dead end body (barrel first) over the conductor until sufficient working length protrudes from tongue end.

Cutting Back Aluminum Strands for Installation of Adjustable Clevis/"Core Grip"



NOTE: It is extremely important not to nick the core strands during cutting back of the aluminum strands. If this is done, the ultimate strength of the dead end will be reduced. The cable manufacturer suggests the following method of cutting back the strands.

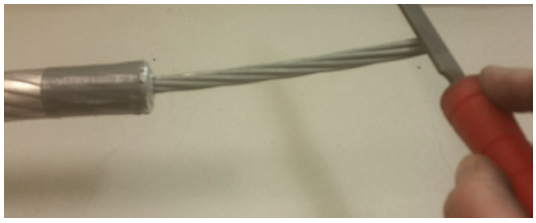


Suggested Method of Cutting Back Aluminum Strands

1. Tape location where "cutting back" is needed.
2. Position RIGID cable trimmer around conductor at the tape location.
3. Cut outer aluminum strands by rotating tool until layer becomes loose.
4. Remove cut outer aluminum layer strand.
5. Bend inner layer wires back and forth until they fracture.
6. Remove the broken wires.

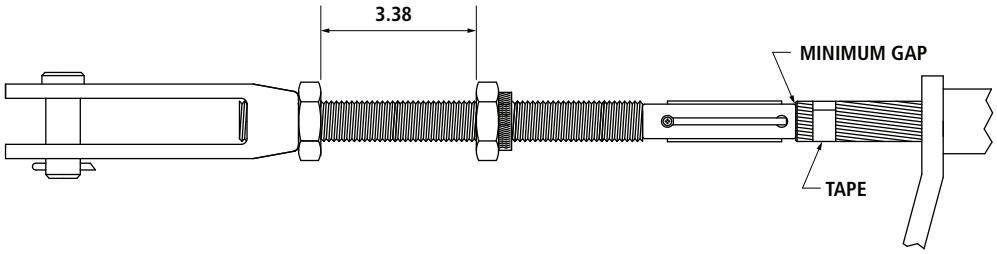
Suggested Arrangement of Compressor and Accessory During Field Installation of Dead End

The photo at right illustrates a setup, which works well to ensure a straight compression and easy maneuverability of the compressor. The conductor has been "tied off" to the tower with a sling and chain wench. The compressor is then attached to the sling by a large shackle (The compressor is suspended upside down). The accessory and cable are tied to the sling ensuring all parts are straight and in-line. The compressor can easily be slid along to each successive compression.



File chamfer on end of core and end of aluminum strands to remove burrs and sharp edge. Chamfer will reduce the expanded diameter of the core (due to cutting) and ease the installation of the adjustable clevis/"core grip".

Assembly



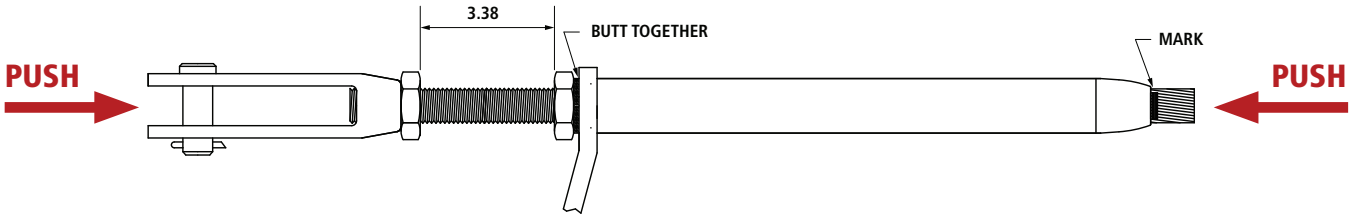
Insert end of conductor into "core grip" of clevis assembly. Rotate clevis assembly "back and forth" while pushing it onto conductor core.

Remove tape from ends of aluminum strands.

Adjust distance between Jam Nuts to 3.38 inches (86 mm) as shown in the illustration above.

Slide aluminum dead end body over adjustable clevis/"core grip" until tongue butts solidly against felt washer and nut.

Push to verify internal parts have remained tight during positioning of aluminum dead end body (See below), then place a mark at the end of barrel.



Align clevis in desired orientation of dead end to ensure proper positioning when dead end is fastened to insulator hardware. Lock in place with adjacent jam nut.

Select die size to compress aluminum dead end body. Die size for aluminum dead end body and die size marked on the die must be the same.

The dead end will bow during compression unless reasonable care is taken to have about 15 ft. (4.5 m) of the conductor supported straight out from the end of the dead end.

NOTE: Filler compound is not required in dead end due to its void-free internals (See supporting test data available from AFL).

Compressing

Lubricate area to be compressed from "Start" knurl to end of barrel with "Accu-Lube" or similar lubricant, or cover barrel with accessory plastic wrapper.

Verify mark place at end of barrel has remained where originally place. If not, push internals together prior to making first compression (see illustration above).

Make initial compression on the dead end body over the steel threads beginning at the start knurl near the tongue. Continue making compressions overlapping the previous compression by approximately 0.50 inch. Complete die closure is required for each compression. Continue compressing to end of dead end barrel.

Compressing (cont.)

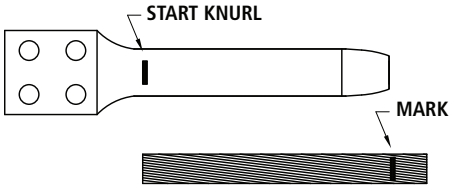
Compressed portion of the dead end should have a smooth uniform appearance. Remove flash, if present with file or emery cloth.

CAUTION: Follow installation instructions carefully. Improper installation can result in mechanical failure of the cable system and possible injury to persons handling or in the vicinity of the cable system.

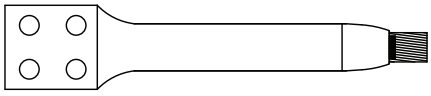
Installation of Terminal Connector

Terminal assemblies consist of Terminal Connector and attachment hardware. The terminal comes prefilled with compound from the factory.

See "Preparation" on page 2 for notes on preparation of conductor.



Mark the conductor from the end, a distance equal to the compression length of the terminal.



Insert conductor into terminal. Be sure the conductors is inserted to the mark on the conductor.

Select die size to compress Terminal Connector. Die size for Terminal Connector and die size marked on the die must be the same.

Compressing

Lubricate area to be compressed from "Start" knurl to end of barrel with "Accu-Lube" or similar lubricant, or cover barrel with accessory plastic wrapper.

Press the Terminal Connector over the conductor. Make the initial compression at the start knurl. Continue making compressions to the end of the Terminal Connector barrel, overlapping the previous compression by approximately 0.50 inches. Complete die closure is required for each compression.

Compressed portion of the Terminal Connector should have a smooth uniform appearance. Remove flash, if present, with file or emery cloth.

Clean contact surface of Terminal Connector and Dead End pad.

Coat surfaces with AFL Alnox Electrical Joint Compound or AFL HiTemp® Universal Compound and then wire brush through compound. Do not remove coating.

Bolt Terminal Connector to Dead End pad. Partially tighten all bolts and then re-tighten each bolt to recommended torque. Aluminum Bolts: (1/2" bolts – 25 lbf-ft (34 N.m); 5/8" bolts – 40 lbf-ft (54 N.m).

CAUTION: Follow Installation Instructions carefully. Improper installation can result in mechanical failure of the cable system and possible injury to persons handling or in the vicinity of the cable system.

Installation Instructions

for AFL Joint for Use

on Overhead Conductor Types

ACSR, ACSS, ACSS/TW

NOTE:

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Preparation

Prior to making connections, the conductor and accessory bore must be clean.

NOTE: Improper cleaning of conductor strands can result in higher resistance joints; this causes the fittings to operate at higher temperatures leading to premature failure.

Clean conductor strands thoroughly by using one of the methods below:

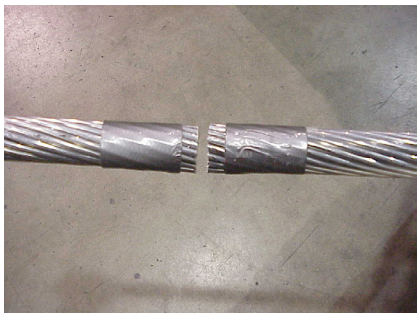
Method 1 – ConductaClean® System (Recommended)
ConductaClean solution cleans ends of overhead conductor prior to assembly and removes oxidation and contaminants from strands.

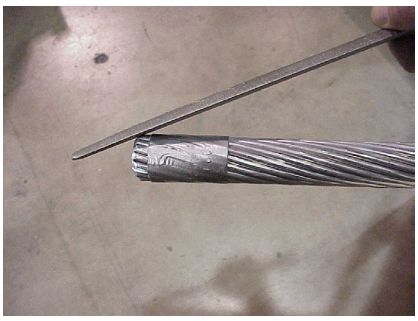
See information on ConductaClean at AFLglobal.com or call: 800-866-7385 Ref: Transmission tool CCP-SYS_T.

Method 2 – Wire Brush
Clean conductor strands thoroughly with wire brush. Wire brush "New" conductor also.

Check accessory bore for foreign particles, removing if present.

Follow Installation Instructions carefully. Improper installation can result in mechanical failure of the cable system and possible injury to persons handling or in the vicinity of the cable system.



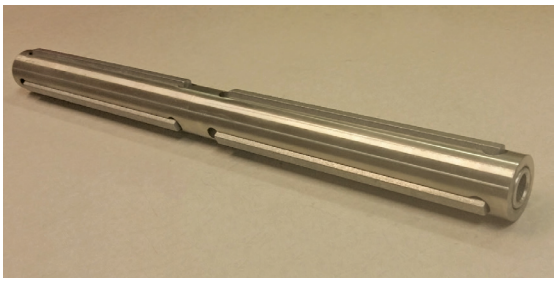


Prior to cutting, wrap tape around the conductor to help maintain the round contour, making it easier to slide the end through the aluminum joint. File approximately 0.09 inch chamfer on the end of the conductor. (The larger the chamfer, the easier the conductor will slide through).

Straighten several feet of the conductor removing the set caused by the reel.

Assembly

Joint consists of an aluminum body and steel sleeve/"core grip" as shown above.



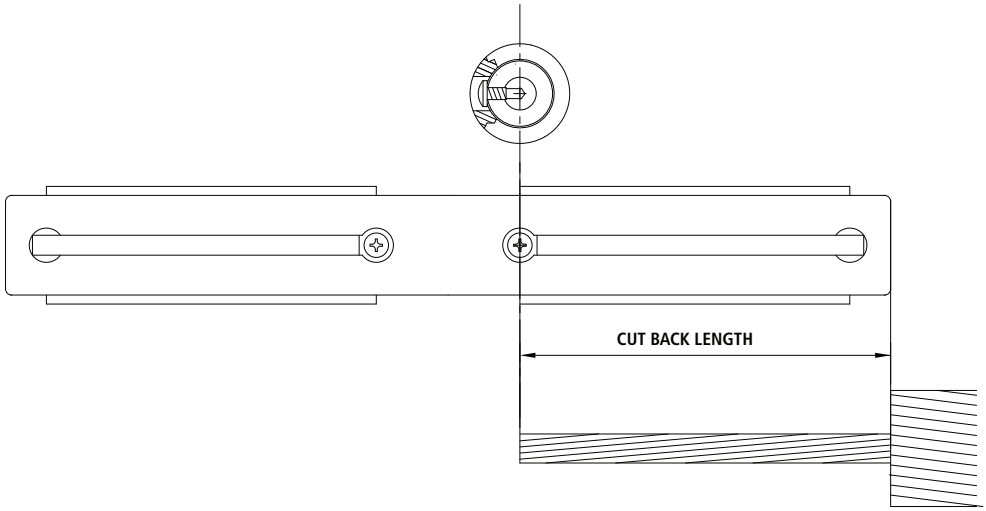
STEEL SLEEVE/"CORE GRIP"

ALUMINUM BODY

Measure back from each conductor and mark at a distance equal to 1/2 the length of the aluminum body.

Slide aluminum body over the conductor and beyond mark until sufficient working length protrudes from barrel end.

Cutting Back Aluminum Strands for Installation of Steel Sleeve/"Core Grip"



NOTE: It is extremely important not to nick the core strands during cutting back of the aluminum strands. If this is done, the ultimate strength of the Joint will be reduced. The cable manufacturer suggests the following method of cutting back the strands.

Suggested Method of Cutting Back Aluminum Strands

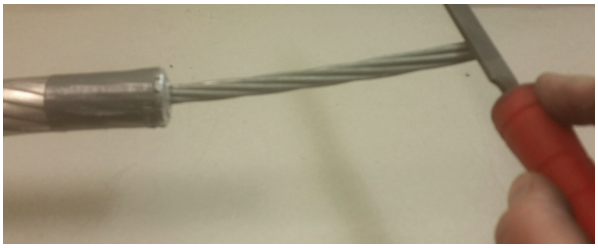
1. Tape location where "cutting back" is needed
2. Position RIGID cable trimmer around conductor at the tape location
3. Cut outer aluminum strands by rotating tool until layer becomes loose.
4. Remove cut outer aluminum layer strand
5. Bend inner layer wires back and forth until they fracture
6. Remove the broken wires.

Suggested Arrangement of Compressor and Accessory During Field Installation of Joint

The photos below illustrate setup, which works well to ensure a straight compression and easy maneuverability of the compressor. The photos below show the conductor has been "tied off" (tensioned with slings and chain hoist) to slacken the conductor at point of installation.

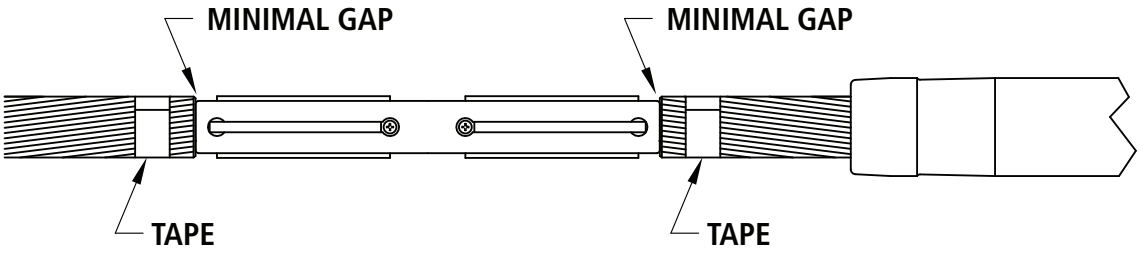
Setup 1: The compressor is attached to the sling by a large shackle (the compressor is suspended upside down). The accessory and cable are tied to the sling ensuring all parts are straight and in-line. The compressor can easily be slid along to each successive compression.

Setup 2: The compressor sits on a board, which sits on the rails of the high lift. The board and compressor can be slid along to each successive compression. The accessory and cable must be supported and all parts must be straight and in-line or bowing will occur.

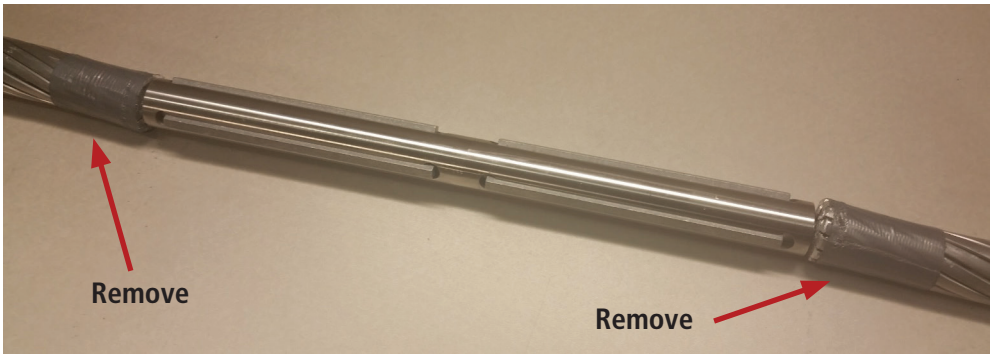


File chamfer on end of core to remove burrs and sharp edge. Chamfer will reduce the expanded diameter of the core (due to cutting) and ease the installation of the Steel Sleeve/"Core Grip".

Assembly

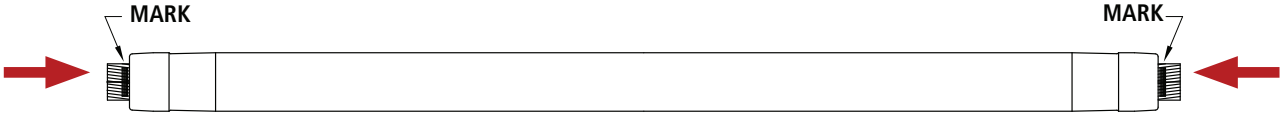


Insert ends of conductor into "Core Grip" ends of steel sleeve. Rotate sleeve "back and forth" while pushing sleeve onto conductor core.



Remove tape from ends of aluminum strands.

Slide aluminum joint body over steel core grip and center within marks.



Push to verify internal parts have remained tight during positioning of aluminum joint body (see above).

Assembly (cont.)

Select die size to compress aluminum joint body. Die size for aluminum joint body and die size marked on the die must be the same.

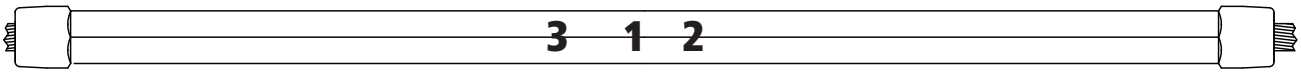
The joint will bow during compression unless reasonable care is taken to have about 15 ft. (4.5 m) of the conductor supported straight out from the end of the joint.

NOTE: Filler compound is not required in the joint due to its void-free internals (see supporting test data available from AFL).

Compressing

Lubricate outside surface of joint with "Accu-Lube" or similar lubricant, or cover barrel with accessory plastic wrapper.

Verify marks placed at end of barrel has remained where originally placed. If not, push internals together prior to making first compression (see illustration on previous page).



Make initial compression over the center portion of the joint (**at 1**).

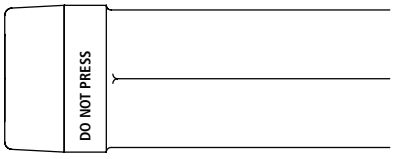
Make the second compression on one end overlapping the initial compression by approximately 0.50 inches (**at 2**) (do not skip bite).

Make the third compression on the opposite end, overlapping the initial compression by 0.50 inches (**at 3**).

Continue making compressions to the end of the joint overlapping the previous compression by approximately 0.50 inch.

NOTE: Do not compress "End Taper." Complete die closure is required for each compression. Go back and complete the compression on the opposite end.

The "End Tapers" are not compressed (note stamped markings on illustration).



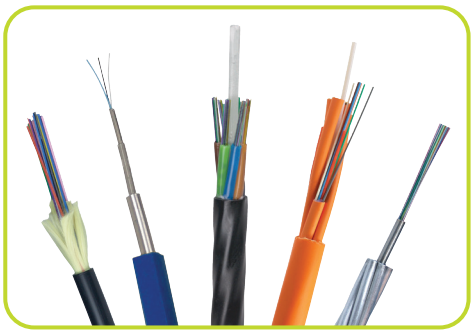
Compressing (cont.)

Compressed portion of the joint should have a smooth uniform appearance. Remove flash, if present with file or emery cloth.

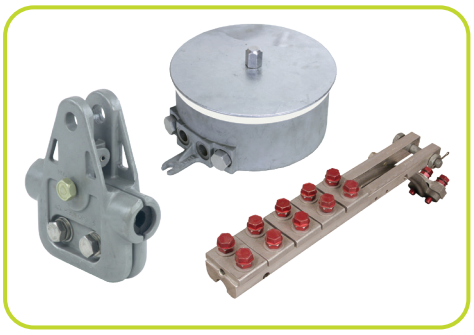
CAUTION: Follow installation instructions carefully. Improper installation can result in mechanical failure of the cable system and possible injury to persons handling or in the vicinity of the cable system.

Please contact your AFL Sales Representative for information about our other products or services.

FIBER OPTIC CABLE (OPGW, ADSS, Loose Tube)



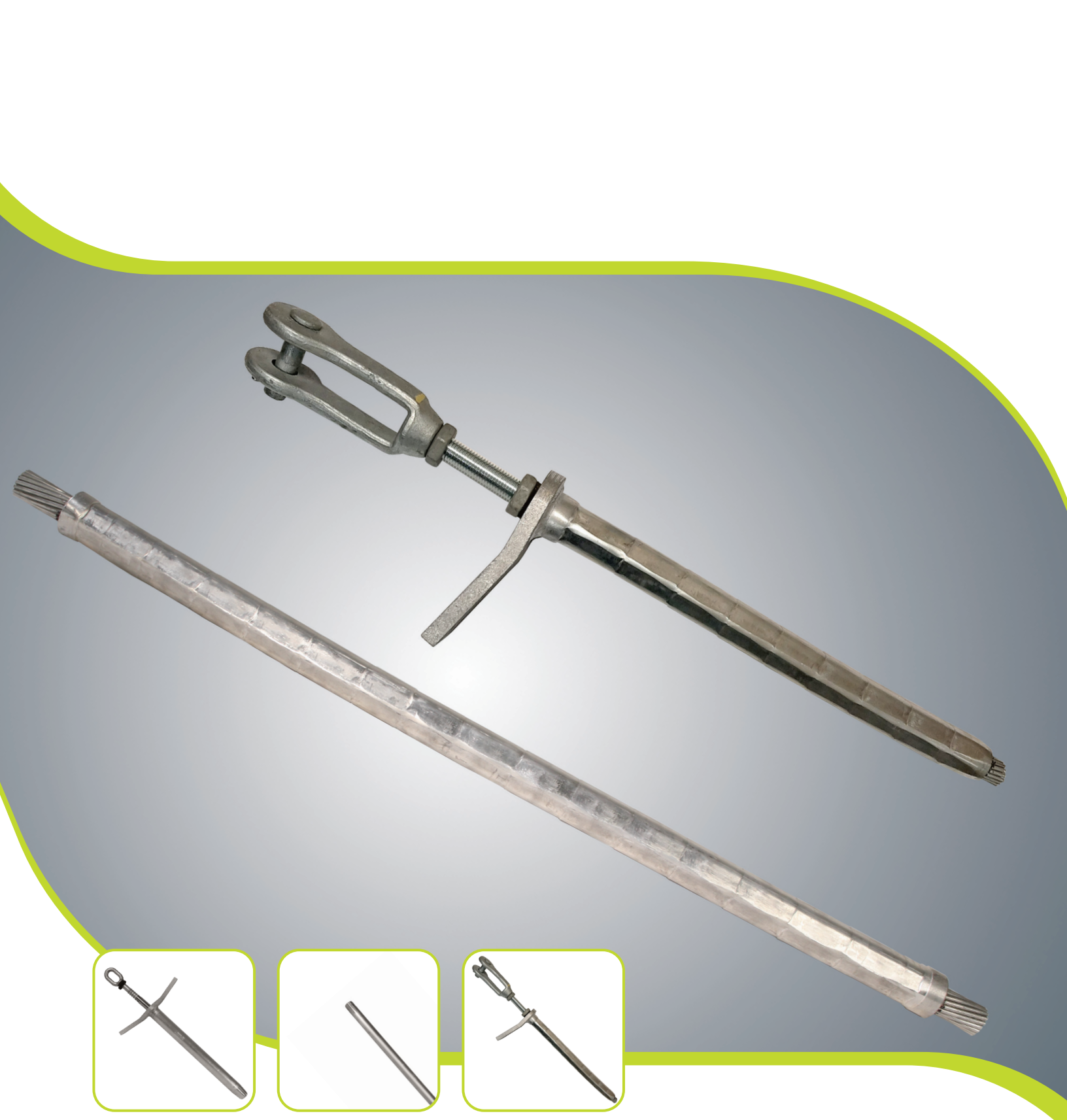
FIBER OPTIC CABLE ACCESSORIES



TRANSMISSION AND DISTRIBUTION

SUBSTATION AND NETWORK UNDERGROUND

AFL



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