



## 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 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.

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### 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

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Solo HD ACSS/TW



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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