



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 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 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 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.

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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
	ACSR AND ACSS	SIZE KCMIL	STRAND		DIAMETER	
			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

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Solo HD ACSR & ACSS



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