



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 one set of dies, reducing the total quantity of compressions and installation time by almost half when compared to 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 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

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	447.0	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	556.5	23	18	7	0.825	24AH
SDCJ-AS124HT	PARAKEET ACSS/TW	556.5	13	18	7	0.835	24AH
SDCJ-AS125HT	DOVE ACSS/TW	565.3	16	20	7	0.852	24AH
SDCJ-AS858HT	CALUMET ACSS/TW	571.7	16	18	7	0.858	24AH
SDCJ-AS846HT	MOHAWK ACSS/TW	636.0	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	664.8	23	18	7	0.953	27AH
SDCJ-AS927HT	OSWEGO ACSS/TW	666.6	16	20	7	0.927	27AH
SDCJ-AS913HT	MYSTIC ACSS/TW	762.8	13	20	7	0.913	27AH
SDCJ-AS990HT	WABASH ACSS/TW	768.2	16	20	7	0.990	30AH
SDCJ-AS977HT	MAUMEE ACSS/TW	795.0	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	900.0	16	20	7	1.010	30AH
SDCJ-AS146HT	CANARY ACSS/TW	946.7	13	30	7	1.080	30AH
SDCJ-AS077HT	FRASER ACSS/TW	954.0	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	957.2	13	20	7	1.084	30AH
SDCJ-AS060HT	KETTLE ACSS/TW	959.6	7	32	7	1.060	30AH
SDCJ-AS108HT	SUWANNEE ACSS/TW	966.2	16	22	7	1.108	30AH
SDCJ-AS092HT	COLUMBIA ACSS/TW	1033.5	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

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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