



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 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
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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 | | |
| 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 |