

ALUMINUM SHEAR BOLT SPLICE ASBS CONNECTORS

#2 AWG COMPACT TO 1000 kcmil CONCENTRIC



**HEAVY-DUTY DESIGN FEATURING
HIGH-STRENGTH, TIN-PLATED ALUMINUM
ALLOY ENSURES DURABILITY AND
RELIABILITY**

APPLICATIONS

- Underground Power Networks

RELEVANT STANDARDS AND TESTING

- Compliant to ANSI C119.4
Class A Electrical
Class 3 Mechanical

KEY FEATURES

- Range taking, compact and smooth body design
- Dual rated for aluminum and copper conductors
- Provides long service life under normal operating conditions with reserve capacity for emergency loading conditions
- Pre-engineered design for perfect fit in medium voltage cable accessories up to 35 kV
- TE ASBS are UL listed and CSA certified
- No crimp tooling or dies required for installation

TE Connectivity (TE) Aluminum Shear Bolt Splice ASBS connectors are range-taking mechanical connectors designed to accommodate a broad variety of aluminum and copper conductors, from #2 AWG compact stranded to 1000 kcmil concentric stranded Class B. This flexibility helps reduce inventory and lowers the risk of selecting an incompatible conductor. The primary application of aluminum shear bolt connectors is for underground splices up to 35 kV.

TE ASBS connectors are suitable for aluminum-to-aluminum, aluminum-to-copper, and copper-to-copper applications, offering versatility across different conductor types. Installation requires only a standard ratchet wrench with the appropriately sized hexagonal sockets.

The connector design incorporates shear bolt heads, ensuring the correct torque is applied to each bolt and providing optimal contact force to help minimize connection resistance. A holding tool is recommended to prevent conductor core bending and can be ordered from TE (#IT-1000-019). The solid center stop (available in all sizes) inside the connector ensures proper conductor positioning and helps eliminate oil leakage when connecting oil-impregnated conductors.

PRODUCT SELECTION INFORMATION: DIMENSIONS IN INCHES (MM)

Catalog Number	Part Number	Conductor Range	O.D. Range	Length	Conductor O.D.	Strip Length	Number of Bolts	Socket Size
Aluminum Shear Bolt Splice Connectors								
ASBS-2-3/0	1574846-4	2 AWG compact to 3/0 AWG concentric stranded	.268-.470 (6.80-11.94)	2.5 (65)	.95 (24)	1 1/8 (28.5)	2	3/8 (10)
ASBS-2-350	1099739-1	2 AWG compact to 350 kcmil concentric stranded	.268-.681 (6.80-17.30)	3.9 (100)	1.22 (31)	1 3/4 (44.4)	4	1/2 (13)
ASBS-3/0-500	1974130-1	3/0 AWG compact to 500 kcmil concentric stranded	.423-.813 (6.80-17.30)	4.9 (125)	1.3 (34)	2 3/8 (60)	4	1/2 (13)
ASBS-350-750	1099383-1	350 kcmil compact to 750 kcmil concentric stranded	.616-.998 (15.65-25.35)	6.7 (170)	1.67 (42.5)	3 1/8 (80)	6	1/2 (13)
ASBS-500-750	1099735-1	500 kcmil compact to 750 kcmil concentric stranded	.736-.998 (18.70-25.30)	6.0 (152)	1.52 (39)	2 7/8 (73)	6	1/2 (13)
ASBS-600-1000	1099848-1	600 kcmil compact to 1000 kcmil concentric stranded	.813-1.152 (20.65-29.26)	8.0 (203)	1.75 (44.4)	3 7/8 (98)	6	1/2 (13)

Catalog Number	Part Number	Conductor Range	O.D. Range	Length	Connector O.D.	Strip Length	Number of Bolts	Socket Size	Insert Used
Aluminum Shear Bolt Splice Connectors UL/CSA Listed									
ASBS-2-U	1974155-1	2 AWG compact to 2 AWG concentric stranded	0.268-0.292 (6.81-7.42)	2.6 (65)	0.94 (24)	1 1/8 (28.5)	2	3/8 (10)	Yes**
ASBS-2-4/0-U	1974138-1	2 AWG compact to 4/0 AWG concentric stranded	0.268-0.528 (6.81-13.41)	3.9 (100)	1.22 (31)	1 3/4 (44.4)	4	3/8 (10)	No
ASBS-250-350-U	1974139-1	250 compact to 350 kcmil concentric stranded	0.520-0.681 (13.21-17.30)	3.9 (100)	1.22 (31)	1 3/4 (44.4)	4	1/2 (13)	No
ASBS-350-500-U	1974144-1	350 compact to 500 kcmil concentric stranded	0.616-0.813 (15.65-20.65)	6.7 (170)	1.67 (42.5)	3 1/8 (80)	6	1/2 (13)	Yes**
ASBS-600-750-U	1974145-1	600 kcmil compact to 750 kcmil concentric stranded	0.813-0.998 (20.65-25.35)	6.7 (170)	1.67 (42.5)	3 1/8 (80)	6	1/2 (13)	No
ASBS-1000-U	1974151-1	1000 kcmil compact to 1000 kcmil concentric stranded	1.060-1.152 (26.92-29.26)	8.0 (203)	1.75 (44.5)	3 7/8 (98)	6	1/2 (13)	No

** DO NOT remove insert. Please contact your TE representative for conductor sizes or types not listed.

Catalog Number	Part number	Conductor Range	O.D. Range	Length	Connector O.D.	Strip Length	Number of Bolts	Socket Size
Aluminum Shear Bolt Splice Connectors Extra Long for Repair Splicing								
ASBS-4-4/0-L9	2427887-1	4 AWG solid to 4/0 AWG concentric (Copper), 2 AWG solid to 4/0 AWG concentric (Aluminum)	CU: .213 -.528 (5.41 - 13.41) AL: .268 -.528 (6.80 - 13.41)	9.3 (235)	.98 (25)	1 1/2 (40)	4	3/8 (10)
ASBS-2-350-L10	2427890-1	2 AWG solid to 350 kcmil concentric	.268 -.681 (6.80 - 17.30)	9.8 (250)	1.22 (31)	1 3/4 (44.4)	4	1/2 (13)
ASBS-350-750-L17	2409507-1	350 kcmil compact to 750 kcmil concentric	.616 -.998 (15.60 - 25.30)	17.3 (440)	1.67 (42.5)	3 1/8 (80)	6	1/2 (13)

PRODUCT SELECTION INFORMATION: DIMENSIONS IN INCHES (MM)

Catalog Number	Part Number	Conductor Range	O.D. Range	Length	Connector O.D.	Strip Length	Number of Bolts	Socket Size	Insert Used
Aluminum Shear Bolt Splice Connectors UL/CSA Listed									
ASBR-2-4/0/250-350-U	2182352-1	Side #1: 2 AWG compact to 4/0 AWG concentric Side #2: 250 compact to 350 kcmil concentric	Side #1: 0.268-0.528 (6.81-13.41) Side #2: 0.520-0.681 (13.21-17.30)	3.9 (100)	1.22 (31)	1 3/4 (44.4)	4	1/2 (13)	No
ASBR-250-350/350-500-U	2182769-1	Side #1: 250 compact to 350 kcmil concentric Side #2: 350 compact to 500 kcmil concentric	Side #1: 0.520-0.681 (13.21-17.30) Side #2: 0.616-0.813 (15.65-20.65)	5.4 (138)	1.3 (33) / 1.67 (42.5)	1.87 (47.5) / 3.2 (82.5)	5	1/2 (13)	No
ASBR-250-350/600-750-U	2182770-1	Side #1: 250 compact to 350 kcmil concentric Side #2: 600 kcmil compact to 750 kcmil concentric	Side #1: 0.520-0.681 (13.21-17.30) Side #2: 0.813-0.998 (20.65-25.35)	5.4 (138)	1.3 (33) / 1.67 (42.5)	1.87 (47.5) / 3 1/8 (80)	5	1/2 (13)	No
ASBR-350-500/ 600-750-U	1974146-1	Side #1: 350 kcmil compact to 500 kcmil concentric Side #2: 600kcmil compact to 750 kcmil concentric	Side #1: 0.616-0.813 (15.65-20.65) Side #2: 0.813-0.998 (20.65-25.35)	6.7 (170)	1.67 (42.5)	3 1/8 (80)	6	1/2 (13)	Yes**
ASBR-350-500/1000-U	2182732-1	Side #1: 350 kcmil compact to 500 kcmil concentric Side #2: 1000 kcmil compact to 1000 kcmil concentric	Side #1: 0.616-0.813 (15.65-20.65) Side #2: 1.060-1.152 (26.92-29.26)	7.4 (189)	1.67 (42.5) / 1.75 (44.5)	3.25 (82.5) / 3.9 (99)	6	1/2 (13)	Yes**
ASBR-600-750/1000-U	2182734-1	Side #1: 600 kcmil compact to 750 kcmil concentric Side #2: 1000 kcmil compact to 1000 kcmil concentric	Side #1: 0.813-0.998 (20.65-25.35) Side #2: 1.060-1.152 (26.92-29.26)	7.4 (189)	1.67 (42.5) / 1.75 (44.5)	3.25 (82.5) / 3.9 (99)	6	1/2 (13)	No

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TEST REPORTS AND INSTALLATION INSTRUCTIONS

Document Reference	Description
EPP-4050	Installation Instructions for ASBS Series
408-32026	Aluminum Shear Bolt Sleeve (UL Approved) Instruction Sheet
EPP-4049	Installation Instructions for ASBSD Series
408-32279	Aluminum Shear Bolt Reducer (UL Approved) Instruction Sheet
502-47292 (1)	Aluminum Shear Bolt Connector #2 350 (small) Test Report

Learn more: [TE.com/energy](https://www.te-connectivity.com/energy)

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