



SHEARBOLT PIN TERMINALS (ASBP)

SHEARBOLT PIN TERMINALS FOR TERMINATIONS

KEY FEATURES

- **Enable transition between aluminum and copper**
- **Use with cold and heat shrink terminations**
- **Easy to install**
- **Metal sealant protects at Al-Cu transition**
- **Tin-plated protection against corrosion**
- **Heavy-duty design made of high strength, tin-plated aluminum alloy**

Shearbolt Pin Terminal Connectors are ideal for secondary distribution and overhead applications up to 35 kV. Aluminum Shearbolt pin connectors are range-taking mechanical connectors that will accommodate a range of cable sizes from #2 AWG solid to 750 kcmil concentric, stranded Class B. Used for terminating solid, compact, compressed, and concentric stranded AAC as well as ACSR conductors.

The connector body is manufactured from high conductivity aluminum designed for heavy-duty utility applications. The bore of the connector body has a unique grooved surface to enhance electrical contact and minimize resistance at the interface between the connector and the conductor. The cable entry area is chamfered inside to provide easy cable insertion. Connectors are tin plated, which makes them suitable for transition between aluminum and copper.

The connector design incorporates shear head bolts, which ensures that the correct torque is applied and consequently the optimal contact force is generated to minimize connection resistance. The primary tool required to install the connector is a standard ratchet wrench with appropriate hexagonal sockets.

Customers can count on consistent, high quality products, driven by TE's proven innovation and backed by our extraordinary customer support.

Shearbolt Pin Terminals



Refer to the Instruction Sheet 408-32203 for proper installation method.

FEATURE	ADVANTAGE	BENEFIT
Wide application range	Four connectors needed to accommodate all cable sizes from #2 AWG compact to 750 kcmil concentric stranded.	Reduces inventory and prevents accidental use of the wrong connector
Hexagonal shear head bolts	Installs with simple ratchet-type socket wrench or TE cordless impact wrench	Installs easily and quickly in confined areas
Impact wrench*	Installs easily and quickly in confined areas	Installation tool is no longer a source of failure. Reduces tool and die inventory, maintenance and cost
Torque-controlled shear head bolts	Sheared head gives positive indication of correct installation	Low contact resistance gives superior electrical performance
Knurled inner bore on connector	Unique profile breaks through conductor oxides and grips conductor strands	Generates low contact resistance and increases pullout rating

*sold separately

PRODUCT SELECTION GUIDE: DIMENSIONS IN INCHES (mm)										
Part Description	Part Number	Pin		Total Length mm (In.)	Barrel OD mm (In.)	Socket Size mm (In.)	Conductor Range		Conductor Diameter Range mm (In.)	Strip Length mm (In.)
		Diameter mm (In.)	Length mm (In.)				Aluminum	Copper		
ASBP-2-4/0-2.5	2182442-4	9.1 (0.360)	64 (2.5)	165 (6.5)	31 (1.22)	17 (11/16)	2 AWG Compact to 4/0 kcmil Stranded	2 AWG Compact to 2/0 kcmil Stranded	6.4 - 13.5 (0.25 - 0.53)	48 (1 7/8)
ASBP-2-4/0-6	2182442-2		152 (6)	254 (10)						
ASBP-2-4/0-9	2182442-3		229 (9)	330 (13)						
ASBP-2-4/0-12	2182442-1		305 (12)	406 (16)						
ASBP-250-350-6	2182445-2	11.7 (0.460)	152 (6)	254 (10)	31 (1.22)	17 (11/16)	250 Kcmil Compact to 350 Kcmil Stranded kcmil Stranded	Not available	13.2 - 17.5 (0.52 - 0.69)	48 (1 7/8)
ASBP-250-350-9	2182445-3		229 (9)	330 (13)						
ASBP-250-350-12	2182445-1		305 (12)	406 (16)						
ASBP-500-750-6	2182485-2	15.9 (0.625)	152 (6)	295 (11.6)	42.5 (1.67)	22 (7/8)	500 Kcmil Compact to 750 Kcmil Stranded kcmil Stranded	Not available	18.5 - 25.4 (0.73 - 1.00)	83 (3 1/4)
ASBP-500-750-9	2182485-3		229 (9)	371 (14.6)						
ASBP-500-750-12	2182485-1		305 (12)	448 (17.6)						

TECHNICAL INFORMATION

Instruction Sheet: 408-32203
 Tested to: ANSI C119.4
 Engineering Test Report: 502-47477 (i)

FOR MORE INFORMATION: TE Technical Support Centers

USA: +1 800 327 6996
 Brazil: +55 11-2103-6023
 Mexico: +52 55-1106-0800
 South America: +57 1-319-8962
 Benelux: +32 16-508-695
 France: +33 (0) 38-058-3210
 Germany/Switzerland: +49 (0) 89-608-9903
 Italy: +39 335-834-3453
 Middle East/Africa: +971 4-211-7020
 Russia: +7 495-790-790-2-200
 Spain/Portugal: +34 912-681-885
 UK: +44 08708-707-500
 China: +86 400-820-6015

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