

WARNING: FAILURE TO FOLLOW THE INSTALLATION INSTRUCTIONS SHOWN BELOW CAN CAUSE A CONDITION OF SEVERE CONNECTOR OVERHEATING AND RELATED HAZARDS.

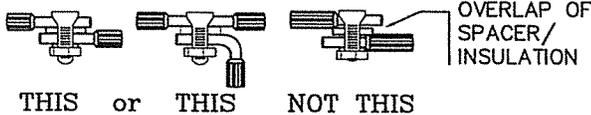
INSTALLATION INSTRUCTIONS ALUMINUM SPLIT BOLT CONNECTORS

"SWA" type split bolts accommodate two conductors, in the following combinations:

ALUMINUM TO ALUMINUM
ALUMINUM TO COPPER
COPPER TO COPPER

INSTALLATION PROCEDURE

- (1) Select proper SWA connector size for conductor range to be used. Main and top ranges are different. See chart below.
- (2) On insulated conductors, strip the insulation to a sufficient length for clamping contact and to AVOID ADJACENT INSULATION OVERLAP INTERFERENCE.



When stripping insulation, be careful not nick the conductor strands. A proper insulation stripping tool or use of pencil shaving method is recommended.

WARNING: Nicking of strands will cause a reduction in current carrying capacity of the conductor.

WARNING: Conductor must be stripped immediately prior to installation on insulated 90°C max rated conductor in NEC applications.

- (3) Conductor contact surface should be thoroughly cleaned by use of a stiff wire brush or abrasive cloth to abrade surface. When using aluminum conductors, completely cover exposed aluminum wire with Penn-Union Cual-Ald. Use Cual-Ald #11C with both bare and insulated conductors. Use a stiff wire brush or abrade Cual-Ald into strands. NOTE: NOT REQUIRED ON INSULATED 90°C MAX CONDUCTORS IN NEC APPLICATIONS, PROVIDED CONDUCTORS ARE STRIPPED IMMEDIATELY PRIOR TO INSTALLATION.
- (4) For splice connections, position wires on opposite sides of connector with spacer positioned between them. Insert wires through connector to sufficient depth to allow full clamp contact.

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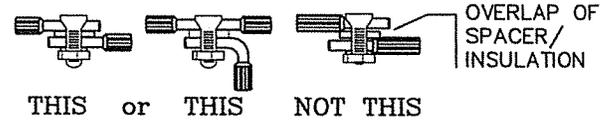
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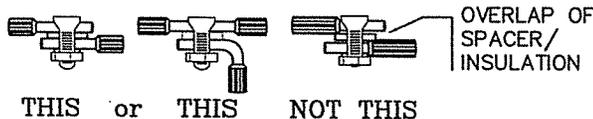
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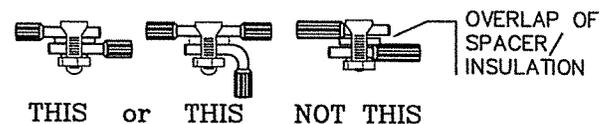
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- (5) For tap connectors, remove nut with pressure bar and spacer, place body over main wire, and replace spacer first with radius side facing nut & pressure bar, then replace nut with pressure bar. Insert tap wire between spacer radius and pressure bar, to sufficient depth to allow full clamp contact.
- (6) Clamp finger tight; then final torque to proper value shown in table below.

WARNING: Failure to achieve proper torque will result in connector and conductor overheating.



CATALOG NUMBER	Al or Cu Conductor Range of Equal Main and Tap		WIRE DIAMETER RANGE (INCH)	RECOMMEND TORQUE (IN-LB)
	MIN	MAX		
SWA-7	6 SOL	1/0 STR	.165-.373	385
SWA-8	2 SOL	2/0 STR	.257-.418	390
SWA-9	2 SOL	3/0 STR	.257-.470	500
SWA-10	1/0 STR	250 MCM	.368-.575	650
SWA-11	2/0 STR	350 MCM	.414-.681	650
SWA-12	3/0 STR	500 MCM	.464-.814	825

PROPER FUNCTIONING OF PENN-UNION SWA SERIES SPLIT BOLTS IS CONTINGENT UPON INSTALLATION OF THIS PRODUCT IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AND THE ABOVE INSTRUCTIONS. ANY APPLICATION THAT IS NOT IN ACCORD IS CONSIDERED A MISUSE OF THE PRODUCT. READ INSTRUCTIONS CAREFULLY BEFORE MAKING ANY ASSEMBLIES.

PENN-UNION CORP.
229 Waterford Street
Edinboro, PA 16412

FORM 1012 SWA-7-SWA-12 REV.3 11178 7-20-2011
9Y81-53767-01

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