

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

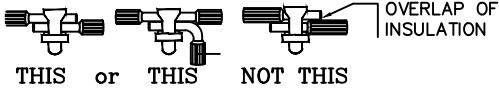
INSTALLATION INSTRUCTIONS SPLIT BOLT CONNECTORS

"SW" (AL9CU) TYPE SPLIT BOLTS ACCOMMODATE TWO CONDUCTORS, IN THE FOLLOWING COMBINATIONS:

ALUMINUM TO ALUMINUM
ALUMINUM TO COPPER
COPPER TO COPPER

INSTALLATION PROCEDURE

- (1) SELECT PROPER SW CONNECTOR SIZE FOR THE CONDUCTOR RANGE TO BE USED. MAIN AND TAP RANGES ARE DIFFERENT. SEE CHART ON REVERSE SIDE.
- (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 TO NICK THE CONDUCTOR STRANDS. A PROPER INSULATION STRIPPING TOOL OR USE OF PENCIL SHAVING METHOD IS RECOMMENDED.

- (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-AID #11C WITH INSULATED CONDUCTORS. USE OF STIFF WIRE BRUSH OR ABRADE CUAL-AID INTO STRANDS.
NOTE: NOT REQUIRED ON INSULATED 90° MAX CONDUCTORS IN NEC APPLICATIONS. PROVIDED CONDUCTORS ARE STRIPPED IMMEDIATELY PRIOR TO INSTALLATION.
- (4) FOR SPLICE CONNECTIONS, POSITION AND INSERT WIRE THROUGH CONNECTOR FROM OPPOSITE SIDES TO SUFFICIENT DEPTH TO ALLOW FULL CLAMP CONTACT. CLAMP FINGER TIGHT; THEN FINAL TORQUE TO PROPER VALUE SHOWN IN TABLE ON REVERSE SIDE.

WARNING: NICKING OF STRANDS WILL CAUSE A REDUCTION IN CURRENT CARRYING CAPACITY OF THE CONDUCTORS.

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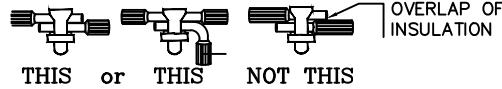
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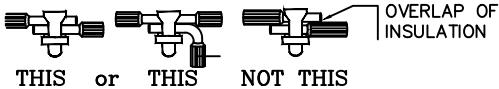
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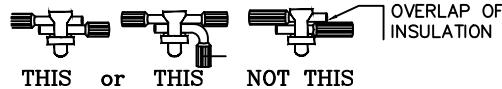
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(5) FOR TAP CONNECTORS, REMOVE THE NUT WITH PRESSURE BAR SPACER, PLACE BODY OVER MAINWIRE, AND REPLACE SPACER FIRST WITH RADIUS SIDE FACING NUT AND PRESSURE BAR. THEN REPLACE NUT WITH PRESSURE BAR. INSERT TAP WIRE BETWEEN SPACER RADIUS AND PRESSURE BAR, TO SUFFICIENT DEPTH TO ALLOW FULL CLAMP CONTACT

(6) CLAMP FINGER TIGHT; THEN FINAL TORQUE TO PROPER VALUE SHOWN IN THE TABLE BELOW.

WARNING: FAILURE TO ACHIEVE PROPER TORQUE WILL RESULT IN CONNECTOR AND CONDUCTOR OVERHEATING.

LISTED



CATALOG NUMBER	Al or Cu Conductor Range of Equal Main and Tap		MIN TAP WITH ONE MAX MAIN	WIRE DIAMETER RANGE (INCH)	RECOMMEND TORQUE (IN-LB)
	MIN	MAX			
SW-3	14 STR	8 STR	14 STR	.073-.146	165
SW-4	10 STR	6 STR	10 SOL	.116-.184	165
SW-5 *	8 SOL AL	4 STR AL	8 SOL AL	.128-.232	275
SW-5 *	8 SOL CU	2 SOL CU	8 SOL CU	.128-.258	275
SW-6	8 SOL	2 STR	8 SOL	.128-.316	275

* NOTE: SW-5 AL AND CU WIRE RANGES ARE DIFFERENT

PROPER FUNCTIONING OF PENN-UNION SW 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.

PENNUNION
229 WATERFORD STREET
EDINBORO, PA 16412 USA
9Y81-53755-02
REV. 8

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