

Transmission & Distribution
Material & Installation Specification

Aluminum Conductor Hand-Made Insulator Ties

I. Quantity

The base bid shall include the quantities of the specified sizes of aluminum conductor hand-made insulator ties supplied and installed as hereinafter specified.

II. Material

GENERAL

- A. Aluminum Conductor Hand-made Insulator Ties conforming to the Division of Power TDMIS-25 specification and approved shop drawings shall be installed required.

PRODUCT REQUIREMENTS

- A. Aluminum Conductor Hand-made Insulator Ties shall be installed as shown on drawing TDMIS-25 using #6 solid soft drawn aluminum wire for conductors sizes up to #4/0 AWG.
- B. Copper Conductor Hand-made Insulator Ties shall be installed as shown on drawing TDMIS-25 using #4 solid soft drawn aluminum wire for conductor sizes larger than #4/0 AWG.

WARRANTY

N/A

III. Installation

- A. As shown on drawing TDMIS-25

IV. Method of measurement

Shall be included with conductor module.

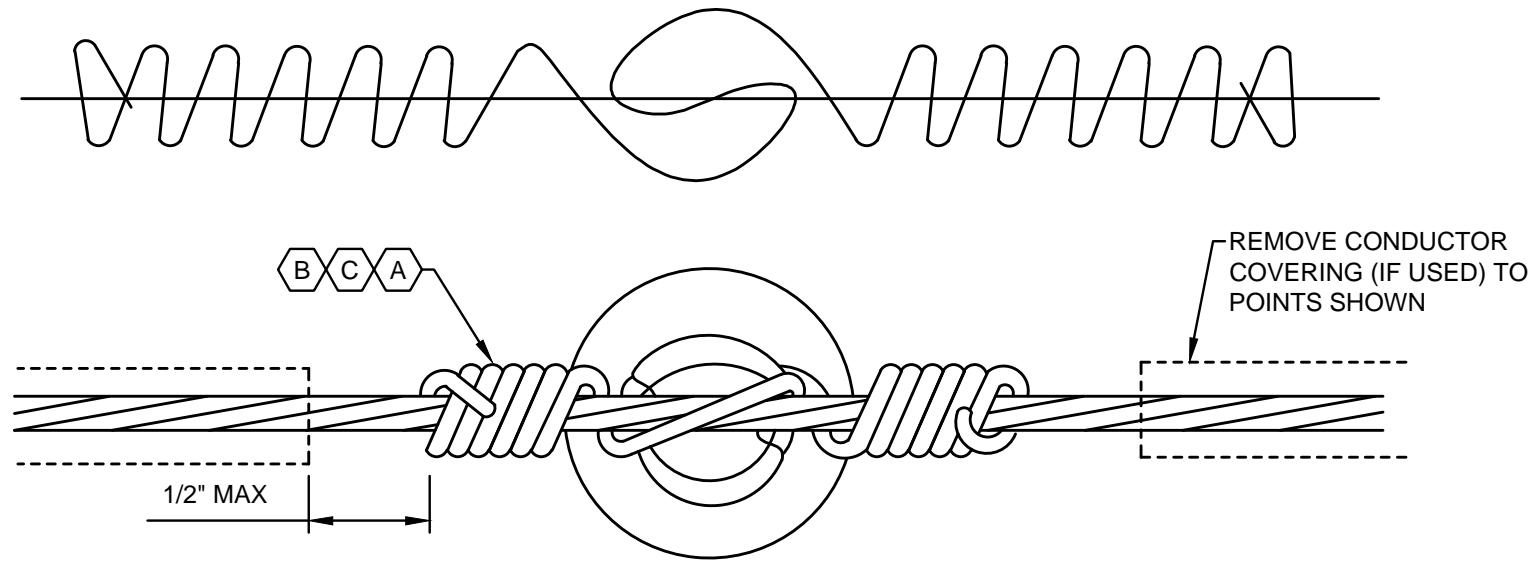
V. Basis of payment

There are no pay items in this TDMIS. Pay items shall be included with conductor module.

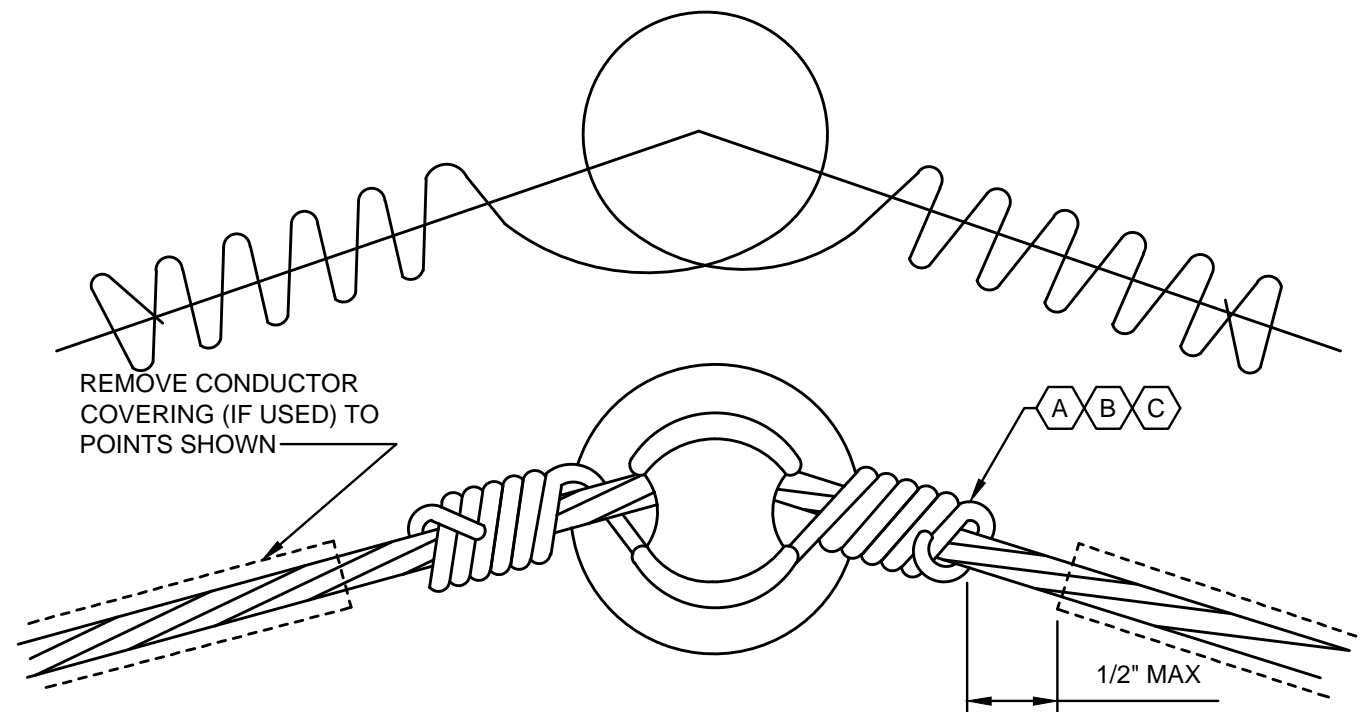
CITY OF COLUMBUS DEPT. OF PUBLIC UTILITIES – DIVISION OF POWER ALUMINUM CONDUCTOR HAND-MADE INSULATOR TIES		
DRAWN BY: AEC	DATE: 01/01/2018	TDMIS-25
APPROVED: <i>[Signature]</i>		
	SHEET 1 of 2	

CODED NOTES:

- (A) CUT TIE WIRES CLOSE TO ENDS AND WRAP CLOSE TO LINE WIRES, TAP DOWN ON CONDUCTOR.
- (B) THESE TIES ARE FOR USE IN PRIMARY LINE CONDUCTOR TIE LOCATIONS AND AT EQUIPMENT RISERS. THESE TIES MAY ALSO BE USED FOR SECONDARY AND NEUTRAL CONDUCTORS.
- (C) TWO LENGTHS OF TIE WIRE REQUIRED FOR DOUBLE INSULATOR SUPPORT



**DETAIL 1
TOP GROOVE TIE - SHORT SPAN**



**DETAIL 2
SIDE GROOVE AND SPOOL TIE - SHORT SPAN**

SECONDARY OR NEUTRAL - SHORT SPAN

ACSR	BARE ALUMINUM SOFT DRAWN TIE WIRE				
	SIZE PART#	APPROX. LENGTH		NUMBER OF TURNS	
		BARE	COVERED	TOP TIE	SIDE TIE
2		3'-4"	3'-10"	6	5
1/0		3'-9"	4'-3"		
2/0		4'-0"	4'-6"		
4/0		4'-3"	4'-9"		
336		4'-7"	5'-6"		
556		5'-2"	5'-10"		

PRIMARY CONDUCTORS - SHORT SPAN

ACSR	BARE ALUMINUM SOFT DRAWN TIE WIRE		
	SIZE PART#	APPROX. LENGTH	NUMBER OF TURNS
336		8'-10"	15
556		10'-4"	

CITY OF COLUMBUS, OHIO
DEPT. OF PUBLIC UTILITIES - DIVISION OF POWER

ALUMINUM CONDUCTOR
HAND-MADE INSULATOR TIES

DRAWN BY: AEC DATE: 01/01/2018
APPROVED: *[Signature]*
SCALE: NTS SHEET: 2 OF 2

TDMIS-25