

**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.

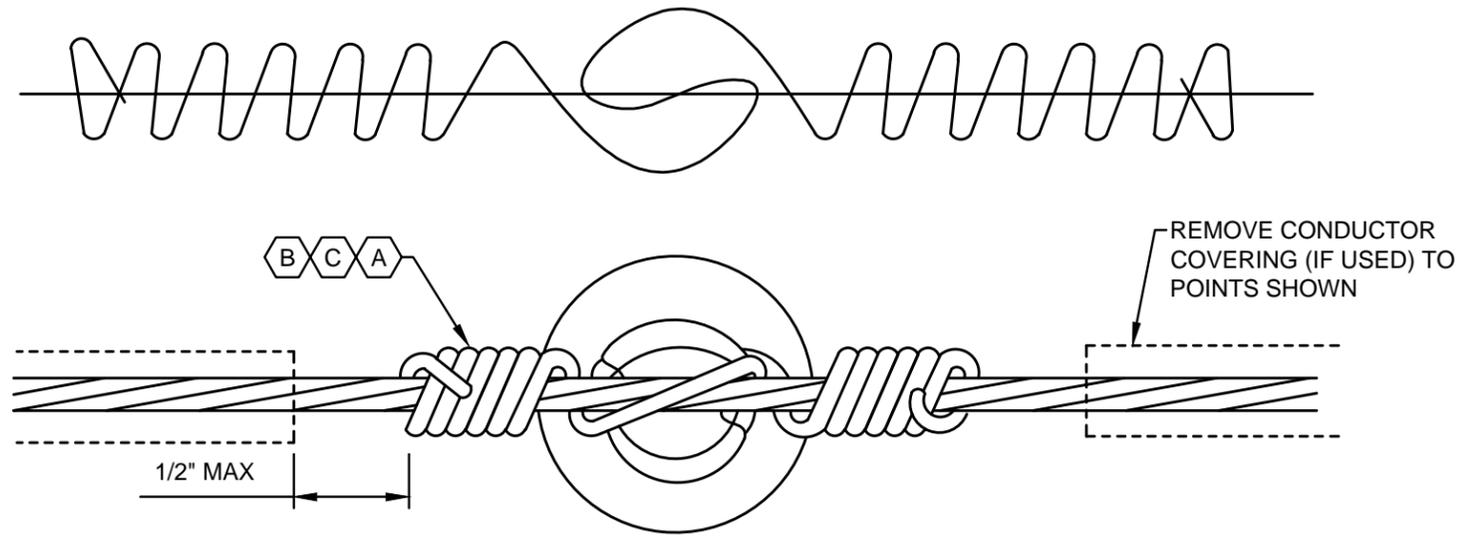
**V. Basis of payment**

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

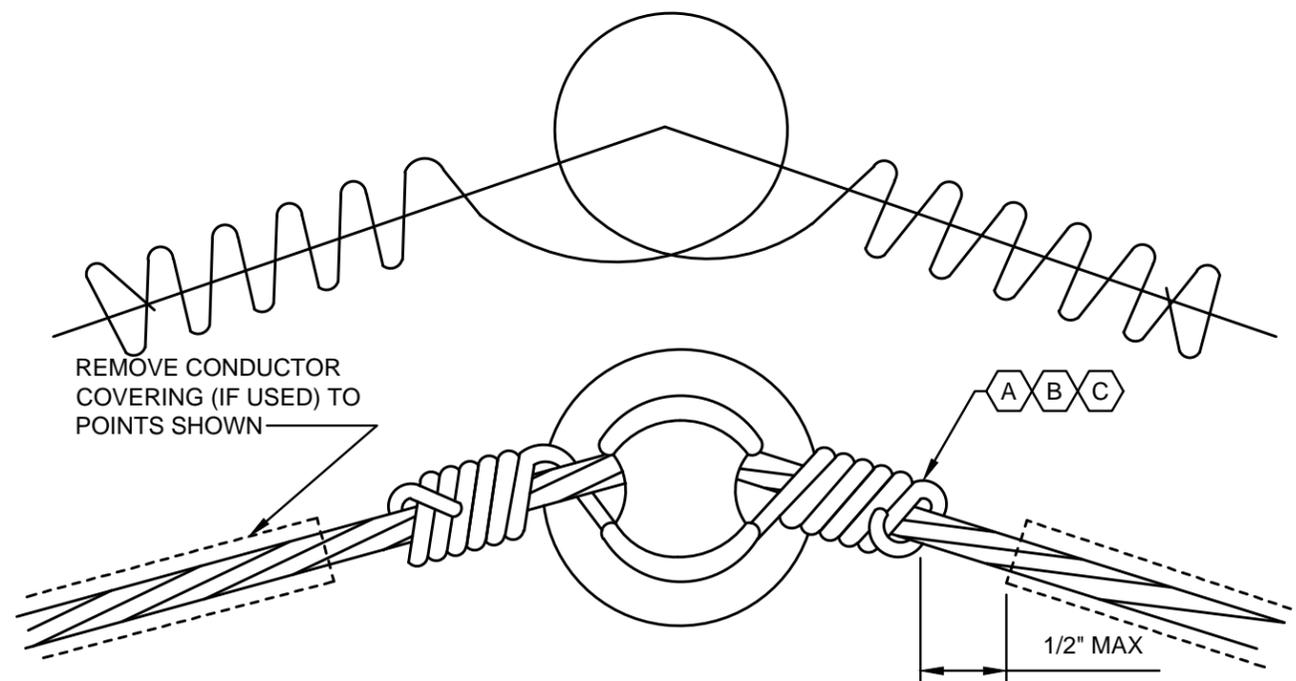
CITY OF COLUMBUS DEPT. OF PUBLIC UTILITIES – DIVISION OF POWER ALUMINUM CONDUCTOR HAND-MADE INSULATOR TIES		
DRAWN BY: AEC	DATE: 01/01/2018	<b>TDMIS-25</b>
APPROVED: R. SPRITE		
	SHEET 1 of 2	

**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: R. SPRITE  
SCALE: NTS      SHEET: 2 OF 2

TDMIS-25