Transmission & Distribution
Material & Installation Specification

Copper Conductor Hand-Made Insulator Ties

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

II. Material
GENERAL
A. Copper Conductor Hand-made Insulator Ties conforming to the Division of Power TDMIS-24 specification and approved shop drawings shall be installed as required.

PRODUCT REQUIREMENTS
A. Copper Conductor Hand-made Insulator Ties shall be installed as shown on drawing TDMIS-24 using #6 solid soft drawn copper wire for conductors sizes up to #4/0 AWG.
B. Copper Conductor Hand-made Insulator Ties shall be installed as shown on drawing TDMIS-24 using #4 solid soft drawn copper wire for conductor sizes larger than #4/0 AWG.

WARRANTY
N/A

III. Installation
A. As shown on drawing TDMIS-24

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.
CLOSE TURNS

DETAIL 1
TOP GROOVE TIE - SHORT SPAN

A, B, C

6 CLOSE TURNS

1/2" MAX

REMOVE CONDUCTOR COVERING (IF USED) TO POINTS SHOWN

DETAIL 2
SIDE GROOVE AND SPOOL TIE - SHORT SPAN

A, B, C

5 CLOSE TURNS

1/2" MAX

REMOVE CONDUCTOR COVERING (IF USED) TO POINTS SHOWN

CODED NOTES:

A. 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.

B. CUT TIE WIRES CLOSE TO ENDS AND WRAP CLOSE TO LINE WIRE, TAP DOWN ON CONDUCTOR.

C. TWO LENGTHS OF THE WIRE REQUIRED FOR DOUBLE INSULATOR SUPPORT.

PRIMARY SECONDARY OR NEUTRAL CONDUCTORS - SHORT SPAN

<table>
<thead>
<tr>
<th>LINE CONDUCTOR</th>
<th>BARE COPPER SOFT DRAWN TIE WIRE</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Approx. Length</td>
</tr>
<tr>
<td></td>
<td>Size Part#</td>
</tr>
<tr>
<td>6/4 SOL</td>
<td>3'-0&quot;</td>
</tr>
<tr>
<td>2</td>
<td>3'-7&quot;</td>
</tr>
<tr>
<td>2/0</td>
<td>3'-10&quot;</td>
</tr>
<tr>
<td>4/0</td>
<td>4'-6&quot;</td>
</tr>
</tbody>
</table>

COPPER CONDUCTOR
HAND-MADE INSULATOR TIES

TDMIS-24
TIGHT WRAP ON CONDUCTOR

2 CLOSE TURNS

6 WRAPS 45° HELIX

REMOVE CONDUCTOR COVERING (IF USED) TO POINTS SHOWN

DETAIL 3
TOP GROOVE TIE - LONG SPAN

1/2" MAX

6 WRAPS 45° HELIX

TIGHT WRAP ON CONDUCTOR

2 CLOSE TURNS

DETAIL 4
SIDE GROOVE TIE - LONG SPAN

1/2" MAX

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

COPPER CONDUCTOR
HAND-MADE INSULATOR TIES

LINE CONDUCTOR

BARE COPPER SOFT DRAWN TIE WIRE

APPROX. LENGTH

SIZE PART#  BARE COND.  COVERED COND.

CU

6/4  4'-0"  4'-6"

2  4'-6"  5'-0"

2/0  5'-0"  5'-6"

4/0  5'-6"  6'-0"

PRIMARY SECONDARY OR NEUTRAL CONDUCTORS - SHORT SPAN