Transmission & Distribution
Material & Installation Specification

Pin and Pin Insulator

I. Quantity
The base bid shall include the indicated number of assemblies as shown or required, furnished, and installed as hereinafter specified.

II. Material
A. Pins for crossarm mounting shall be hot dipped galvanized steel per ANSI-153 with 1" ANSI Standard nylon threads, AB Chance # PSC2060729 or engineer approved equal.

B. Insulators shall be Porcelain Products #366-S, or engineer approved equal, with the following characteristics: "F" neck with top and side grooves, dry arcing distance 5", saddle groove radius 5", wire groove radius 0.5625", pin diameter 1", cantilever strength 3000lb, low frequency flashover dry 65kv, low frequency flashover wet 35kv, impulse flashover positive 105kv, impulse flashover negative 130kv, low frequency puncture voltage 95kv.
Radio influence low frequency test voltage data:
Test Voltage, rms to ground 10KV, Maximum RIV at 1000 kHz – V = 50

C. All steel hardware to be hot dipped galvanized.

III. Installation
A. The installation shall be as shown on drawing TDMIS-20.

B. Conductor ties shall be as per TDMIS-24 and/or TDMIS-25 as appropriate for the conductor involved. Ties and payment for ties are to be included with conductor modules.

IV. Method of measurement
Shall be per each completed assembly including pin, bolts, washers, pin insulator, tools, labor, equipment and all miscellaneous required for a complete and operational module.

V. Basis of payment

<table>
<thead>
<tr>
<th>Items</th>
<th>Unit</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>TDMIS-20</td>
<td>Each</td>
<td>Pin and pin insulator module</td>
</tr>
</tbody>
</table>
### ITEM LIST

<table>
<thead>
<tr>
<th>ITEM</th>
<th>DESCRIPTION</th>
<th>PART #</th>
<th>QTY.</th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>PIN, CROSSARM, 1&quot; NYLON THREAD, GALVANIZED</td>
<td>19312</td>
<td>1</td>
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<tr>
<td>2</td>
<td>WASHER, SQUARE FLAT, 2 1/4&quot;X2 1/4&quot;X3/16&quot;, 11/16&quot; DIA. HOLE, GALVANIZED</td>
<td>18901</td>
<td>1</td>
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<tr>
<td>3</td>
<td>NUT, SQUARE, 5/8&quot;-11 UNC, GALVANIZED (SUPPLIED WITH PIN)</td>
<td>XXXXX</td>
<td>1</td>
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<td>4</td>
<td>INSULATOR, PORCELAIN, PIN TYPE, 1&quot; THREAD, GRAY, 15 KV, F NECK</td>
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<td>1</td>
</tr>
</tbody>
</table>

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

PIN AND PIN INSULATOR  

MPXAIA  

DRAWN BY AEC  
DATE: 01/01/2018  
APPROVED: R. SPITE  
SCALE: NONE  
SHEET: 2 OF 2  
TDMIS-20