



## Class 155 Polyester Glass Fiber Covered Bare Rectangular Copper Magnet Wire

**Table1 Specifications**

Insulation materials	Polyester Glass Fiber
Thermal Class	155
Conductor	Copper
Insulation thickness	Single/Double/Heavy
Certificate	MW-46C



**Table 2 Properties**

Properties	Requirement
DIMENSIONS	Rectangular Wire: <ol style="list-style-type: none"> <li>1. Radii in accordance with 0.51-0.99mm (<b>Full Rounded Edge</b>)</li> <li>2. Thickness tolerances in accordance with <math>\pm 0.001</math>mm</li> <li>3. Width tolerances in accordance with <math>\pm 0.025</math>-0.076mm</li> <li>4. Dimensions and increase in thickness in accordance with:                             <ul style="list-style-type: none"> <li>---Single Covering of Polyester Glass Fiber: 0.0045-0.0070 inches</li> <li>---Double Covering of Polyester Glass Fiber: 0.0095-0.0135 inches</li> </ul> </li> </ol>



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Table 2 Properties

<p>ADHERENCE AND FLEXIBILITY</p>	<p><u>Double without underlying film</u>: Not less than 75 V/mil (2950 V/mm) of minimum thickness of the polyester glass fiber covering on one side</p> <p>NOTE—The minimum thickness of the polyester glass fiber covering is 35% of the maximum increase in dimensions calculated from:</p> <p>---Single Covering of Polyester Glass Fiber: 0.0050-0.0080 inches</p> <p>---Double Covering of Polyester Glass Fiber: 0.0110-0.0160 inches</p>
<p>ELONGATION</p>	<p>Not less than 32% for a thickness of 0.049 in. (1.25 mm) and greater, or 30% for a thickness less than 0.049 in. (1.25 mm)</p>
<p>SPRINGBACK</p>	<p>Polyester glass fiber covered bare: not greater than 5°</p>
<p>DIELECTRIC BREAKDOWN</p>	<p>Not less than 90 V/mil (3543 V/mm) of the minimum thickness of the glass fiber covering on one side</p> <p>NOTE—The minimum thickness of the glass fiber covering is 35% of the maximum increase in dimensions calculated from:</p> <p>Single Covering of Polyester Glass Fiber: rectangular: 0.0050-0.0080 inches</p> <p>Double Covering of Polyester Glass Fiber: rectangular without underlying film: 0.0110-0.0160 inches</p>



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