



Class 155 Glass Fiber Covered Film-Insulated Rectangular Copper Magnet Wire

Table1 Specifications

Insulation materials	The glass fiber shall be electrical-grade continuous-filament glass yarn
Thermal Class	155
Certificate	MW 42-C
Insulation thickness	Single, Double



Dimensions	<p>Rectangular Wire:</p> <ol style="list-style-type: none"> 1. Radii in accordance with 0.51-0.99mm (Full Rounded Edge) 2. Thickness tolerances in accordance with ± 0.001mm <p>Thickness Range: 1.016-7.341mm</p> <ol style="list-style-type: none"> 3. Width tolerances in accordance with ± 0.025-0.076mm <p>Width Range: 2.057-16.535 mm</p>
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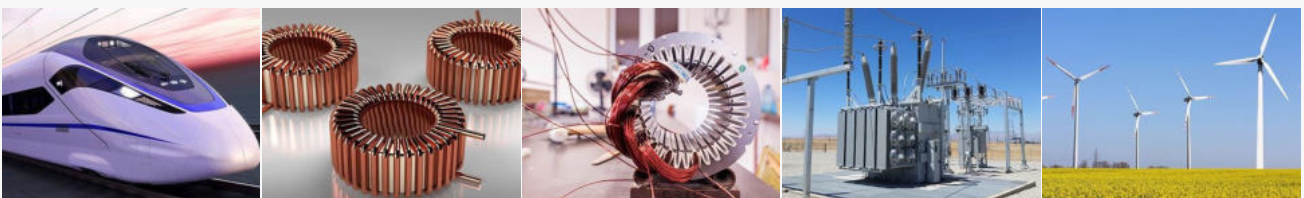


Table 2 Properties

<p>Adherence and flexibility</p>	<p>Single or Double with underlying film: no cracks visible in the film insulation after 20% elongation. Examine with normal vision and without removing the glass fiber covering.</p> <p>Double without underlying film: not less than 75 V/mil (2950 V/mm) of 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: Rectangular</p> <p>—Single Covering of Polyester Glass Fiber: 0.0060-0.0095 inches</p> <p>—Double Covering of Polyester Glass Fiber: 0.0100-0.0160 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>Glass fiber covered bare: not greater than 5°</p> <p>Glass fiber covered Heavy film-insulated: not greater than 5.5°</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 plus the minimum breakdown given in the film-insulated wire(Heavy 500-1500; Quad 900-2500), if applicable.</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: 0.0060-0.0095 inches</p> <p>—Double Covering of Polyester Glass Fiber: 0.0100-0.0160 inches</p>

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