



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

**Table1 Specifications**

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



**Table 2 Dimensions**

DIMENSIONS	Rectangular Wire:
	1. Radii in accordance with 0.51-0.99mm ( <b>Full Rounded Edge</b> )
	2. Thickness tolerances in accordance with $\pm 0.001$ mm Thickness Range: 1.016-7.341mm
	3. Width tolerances in accordance with $\pm 0.025$ -0.076mm Width Range: 2.057-16.535 mm

**Table 1 Increase in Dimensions (Inches)**

Polyester Glass Fiber Covering Over Heavy Enamelled Rectangular Wire*						Polyester Glass Fiber Covering Over Quad Build Enamelled Rectangular Wire*					
Single Covering Heavy Film + Single Polyester Glass Fiber			Double Covering Heavy Film + Double Polyester Glass Fiber			Single Covering Quad Film + Single Polyester Glass Fiber			Double Covering Quad Film + Double Polyester Glass Fiber		
Min.	Nom.	Max.	Min.	Nom.	Max.	Min.	Nom.	Max.	Min.	Nom.	Max.
0.0070	0.0085	0.0100	0.0110	0.0135	0.0160	0.0090	0.0105	0.0120	0.0130	0.0155	0.0180
0.0070	0.0085	0.0100	0.0038	0.0140	0.0170	0.0090	0.0105	0.0120	0.0058	0.0160	0.0190
0.0080	0.0095	0.0110	0.0120	0.0150	0.0180	0.0100	0.0115	0.0130	0.0140	0.0170	0.0200
0.0080	0.0110	0.0120	0.0130	0.0160	0.0190	0.0100	0.0120	0.0140	0.0150	0.0180	0.0210
0.0080	0.0110	0.0120	0.0140	0.0170	0.0200	0.0100	0.0120	0.0140	0.0160	0.0190	0.0220
0.0090	0.0115	0.0130	0.0140	0.0175	0.0210	0.0110	0.0130	0.0150	0.0160	0.0195	0.0230



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Table 3 Properties

Properties	Requirement
ADHERENCE AND FLEXIBILITY	<p><u>Single or Double with underlying film</u>: no cracks visible in the film insulation after 20% elongation. Examine with normal vision and without removing the polyester glass fiber covering.</p> <p>NOTE—The minimum thickness of the polyester glass fiber covering is 35% of the maximum increase in dimensions calculated from <b>Table 1</b></p>
ELONGATION	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)
SPRINGBACK	Polyester glass fiber covered Heavy film-insulated: not greater than 5.5°
DIELECTRIC BREAKDOWN	<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 Table 36 for the film-insulated wire, if applicable.</p> <p>NOTE—The minimum thickness of the glass fiber covering is 35% of the maximum increase in dimensions calculated from <b>Table 1</b></p>

**NOTE—This specification corresponds with IEC 60317-60-1 (under development)**



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