



Class 200 Polyester Glass Fiber Covered Film-Insulated Rectangular Copper Magnet Wire

1. Specifications

Insulation materials	Polyester Glass Fiber Film(Silicone Treated)
Thermal Class	200
Conductor	Copper
Insulation thickness	Single/Double
Certificate	MW-48C



2. Wire Types

- a. Polyester Glass Fiber Covered Silicone Treated Bare Rectangular Copper Magnet Wire
- b. Polyester Glass Fiber Covered Silicone Treated Film-Insulated Rectangular Copper Magnet Wire
- c. Polyester Glass Fiber Covered Bare Rectangular Copper Magnet Wire
- d. Polyester Glass Fiber Covered Film-Insulated Rectangular Copper Magnet Wire

3. Dimensions

Table1 Increase in Dimensions for Polyester Glass Fiber Covered Rectangular Magnet Wire

Nominal Width of Conductor (inches)		Increase in Dimensions (inches)																		
		Polyester Glass Fiber Covering Over Rectangular Bare Copper Conductor						Polyester Glass Fiber Covering Over Heavy Enamelled Rectangular Wire*						Polyester Glass Fiber Covering Over Quad Build Enamelled Rectangular Wire*						
		Single Covering of Polyester Glass Fiber			Double Covering of Polyester Glass Fiber			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			
Over	Up To and Incl.	Min.	Nom.	Max.	Min.	Nom.	Max.	Min.	Nom.	Max.	Min.	Nom.	Max.	Min.	Nom.	Max.	Min.	Nom.	Max.	





—	0.114	0.0040	0.0045	0.0050	0.0080	0.0095	0.0110	0.0070	0.0085	0.0100	0.0110	0.0135	0.0160	0.0090	0.0105	0.0120	0.0130	0.0155	0.0180
0.115	0.144	0.0040	0.0045	0.0050	0.0080	0.0100	0.0120	0.0070	0.0085	0.0100	0.0038	0.0140	0.0170	0.0090	0.0105	0.0120	0.0058	0.0160	0.0190
0.144	0.182	0.0050	0.0055	0.0060	0.0090	0.0110	0.0130	0.0080	0.0095	0.0110	0.0120	0.0150	0.0180	0.0100	0.0115	0.0130	0.0140	0.0170	0.0200
0.183	0.229	0.0050	0.0060	0.0070	0.0100	0.0120	0.0140	0.0080	0.0100	0.0120	0.0130	0.0160	0.0190	0.0100	0.0120	0.0140	0.0150	0.0180	0.0210
0.230	0.289	0.0050	0.0060	0.0070	0.0110	0.0130	0.0150	0.0080	0.0100	0.0120	0.0140	0.0170	0.0200	0.0100	0.0120	0.0140	0.0160	0.0190	0.0220
0.290	0.517	0.0060	0.0070	0.0080	0.0110	0.0135	0.0160	0.0090	0.0110	0.0130	0.0140	0.0175	0.0210	0.0110	0.0130	0.0150	0.0160	0.0195	0.0230

4. General Requirements

Properties	Requirement
DIMENSIONS	<p>Rectangular Wire:</p> <ol style="list-style-type: none"> Radii in accordance with 0.51-0.99mm ($\pm 25\%$) Thickness tolerances in accordance with 1.016-7.341mm Width tolerances in accordance with 2.057-16.535mm Dimensions and increase in thickness in accordance with Table1
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><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>
ELONGATION	Not less than 32% for a thickness less than 0.049 in. (1.25 mm) and greater or 30% for a thickness less than 0.049 in. (1.25 mm)
SPRINGBACK	<p>Polyester glass fiber covered bare: not greater than 5°</p> <p>Polyester glass fiber covered Heavy film-insulated: not greater than 5.5°</p>
DIELECTRIC BREAKDOWN	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 Table2 for the film-insulated wire, if applicable

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Table2 Dielectric Breakdown, Film-Insulated Rectangular and Square Magnet Wire

Film Insulation	Minimum Breakdown Voltage	
	Any Three of Four Values	Fourth Value
Heavy	1500	500
Quad	2500	900



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