

Class 155 polyester fiberglass covered insulated rectangular magnet wire

Table1 Specifications

Insulation Material	Polyester/Fiberglass
Heat Rating	155
Conductor	Copper
Insulation thickness	Single Double
Certificate	UL



Table 2 Properties

Adhesion and Flexibility	<p>Single or Dual Layer with Primer: No visible cracks in the film insulation after 20% elongation. Inspect with normal vision without removal of the polyester fiberglass cover.</p> <p>Dual Layer Unprimed Film: Minimum thickness of the polyester fiberglass cover on one side not less than 75 V/mil (2950 V/mm)</p> <p>Note: Minimum thickness of the polyester fiberglass cover is 35% of the maximum dimension increment</p> <p>Rectangle: Table 14</p>
Elongation	32% or more for thicknesses 0.049 inches (1.25 mm) and above, and 30% or more for thicknesses less than 0.049 inches (1.25 mm)
Springback	<p>Polyester fiberglass covered bare wire: not more than 5°</p> <p>Polyester fiberglass covered thick film insulation: not more than 5.5°</p>

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Dielectric breakdown

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

Table 14

Nominal Width of Conductor (inches)		Increase in Dimensions (Inches)					
		Polyester Glass Fiber Covering Over Rectangular Bare Copper Conductor					
		Single Covering of Polyester Glass Fiber			Double Covering of Polyester Glass Fiber		
Over	Up To and Incl.	Min.	Nom.	Max.	Min.	Nom.	Max.
-	0.114	0.0040	0.0045	0.0050	0.0080	0.0095	0.0110
0.115	0.144	0.0040	0.0045	0.0050	0.0080	0.0100	0.0120
0.144	0.182	0.0050	0.0055	0.0060	0.0090	0.0110	0.0130
0.183	0.229	0.0050	0.0060	0.0070	0.0100	0.0120	0.0140
0.230	0.289	0.0050	0.0060	0.0070	0.0110	0.0130	0.0150
0.290	0.517	0.0060	0.0070	0.0080	0.0110	0.0135	0.0160



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