

Class 240 polyimide film-insulated rectangular copper magnet wire

Table1 Specifications

Insulation Material	Polyimide Film/Resin
Heat Rating	240
Certificate	UL
Standard	MW 20-C



Table 2 Properties

Adhesion and Flexibility	No visible cracks in film coating
Elongation	MW Specification: not less than 18, 20, 36, 38,64, 84 $T \geq 0.049:32$ $T < 0.049:30$
Thermal Shock	No cracks in film coating after 15% elongation, conditioned at $280^{\circ}\text{C} \pm 3^{\circ}\text{C}$
Rebound	Not greater than 5°
Dielectric Breakdown	Film Insulated Rectangular and Square Magnet Wire Heavy duty: not less than 500v-1500v Quad: not less than 900v-2500v
Dissipation factor	not more than 0.60%

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Table 3 Periodic conformance tests

Thermoplastic Flow	Mean value not less than 450°C
Solubility	Samples immersed in xylene and 50/50 xylene/butyl cellosolve shall not soften enough to expose bare conductors
Dielectric Breakdown at Rated Temperature	Mean value not less than 75% of the value required at room temperature
Dimensions/mm	<p>Bare Wire: Mini:width:2.032-16.370</p> <p>Thickness: 0.991-7.267</p> <p>Nominal width: 2.057-16.535</p> <p>Thickness: 1.016-7.341</p> <p>Max:width: 2.083-16.701</p> <p>Thickness: 1.041-7.414</p>

Film-Insulated Rectangular Magnet Wire Increase in Thickness and Width Due to Film Coating

Build	Increase in Width				Increase in Thickness			
	Minimum		Maximum*		Minimum		Maximum*	
	inches	mm	inches	mm	inches	mm	inches	mm
Heavy	0.0025	0.064	0.0045	0.114	0.0030	0.076	0.0050	0.127
Quad	0.0040	0.102	0.0060	0.152	0.0050	0.127	0.0070	0.178



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