

Class 240 polyimide film-insulated square 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 ≥ 0.049:32 T < 0.049:30
Thermal Shock	No cracks in film coating after 15% elongation, conditioned at 280°C ±3°C
Rebound	Not greater than 5°
Dielectric Breakdown	Film Insulated 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
AWG size	AWG1-14: 1.603mm-8.334mm

Square AWG Size		1-14AWG
Bare wire size	Minimum	1.603mm-7.275mm
	Nominal	1.628mm-7.348mm
	Maximum	1.654mm-7.422mm
Radii ($\pm 25\%$) Nominal		0.40 $\pm 25\%$ -1.0 $\pm 25\%$
Heavy	Minimum increase	0.080mm
	Maximum population	1.781mm-7.549mm
Quadruple	Minimum increase	0.127mm
	Maximum population	1.0831mm-7.600mm



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