

Class 105 Polyvinyl Acetal Insulated Flat Copper Magnet Wire

Table1 Specifications

Insulation materials	Polyvinyl Acetal
Thermal Class	105
Bare Wire Dimensions	width: 2mm-25mm, thickness: 0.8 - 10mm
Certificate	UL
Standard	MW-18-C

Table 2 Properties

Adherence and flexibility	No cracks visible in the film coating
Minimum Percent Elongation	MW Specification:18, 20, 36, 38, 64, 84 T ≥ 0.049: 32 T < 0.049:30
Heat shock	No cracks visible in the film coating after 30% elongation followed by conditioning at 150 ±3°C.
Springback	Not greater than 5°

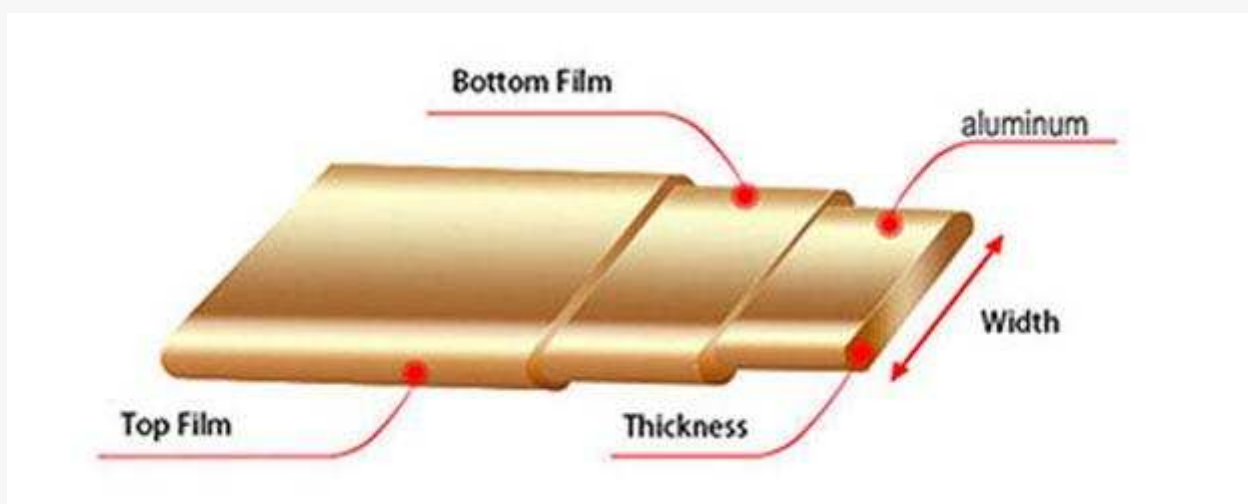
Table 3 Dielectric Breakdown, Film-Insulated Rectangular and Square Magnet Wire

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

Table 3 Periodic conformance tests

Solubility	Specimens immersed in xylene shall not soften sufficiently to expose the bare conductor
Dielectric breakdown rated temperature	Average not less than 75% of the value required at room temperature, when tested on MW 15-C Heavy Build
Toluene / ethanol compatibility	No swelling or blistering in the film coating
Transformer oil resistance	<p>No swelling or blistering in the film coating</p> <p>a) Dielectric breakdown values shall average not less than the values in Table 3</p> <p>b) At least three of the five flexibility specimens shall show no cracks visible in the film coating</p> <p>c) Elongation specimens shall show no swelling or blistering in the film coating</p>
Thermoplastic flow	Median not less than 180 °C, when tested as MW 15-C Heavy Build

Structure



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