

Class 105 Polyvinyl Acetal Film-Insulated Round Copper Magnet Wire

Table1 Specifications

Insulation materials	Polyvinyl Acetal
Thermal Class	105
Dimensions	Single 8-56 AWG, Heavy 2-50 AWG, Triple 14-30 AWG, Quad 10-36 AWG
Insulation thickness	Single, Heavy, Triple, Quad
Certificate	UL



Table 2 Properties

Adherence and flexibility	No cracks visible in the film coating
Minimum Percent Elongation	Not less than the value 5-36
Heat shock	No cracks visible in the film coating after conditioning at 175°C
Dielectric breakdown	2-9.5 AWG: not less than the value in 3400V - 3800V 10-23.5 AWG: not less than the value in 2780V -11000V 24-37 AWG: not less than the value in 1350 V-8740V 38-56 AWG: not less than the value in 90V - 1835V
Continuity	14-24 AWG: max number of discontinuities Single Type 1: 500±5% - 750±5% Heavy Type 2: 1000±5% - 1500±5% 45-50 AWG: max number of discontinuities Single Type 1: 25±5% Heavy Type 2: 10±5%
Springback	14-30 AWG: not greater than the value in NEMA Standard 2-13.5 AWG: not greater than 5°

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
Toluene / ethanol compatibility	No swelling or blistering in the film coating
Transformer oil resistance	<p>2-28 AWG: no swelling or blistering in the film coating</p> <p>2-9.5 AWG:</p> <p>a) Four dielectric breakdown values shall average not less than the values in Table 3400V - 3800V</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> <p>10-28 AWG:</p> <p>a) Ten dielectric specimens shall average not less than the values in 2780V - 11000V</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>
Scrape resistance	Lowest grams-to-fail load for any one of three tests, and the average of the three tests shall not be less than the values in NEMA Standard table 48
Thermoplastic flow	Median not less than 180°C

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