



Class 105 Polyvinyl Acetal Film-Insulated Round Aluminum Magnet Wire

Table1 Specifications

Insulation materials	Polyvinyl Acetal
Thermal Class	105
Dimensions	Single 8-24 AWG, Heavy 4-24 AWG
Insulation thickness	Single and Heavy



Table 2 Properties

Adherence and flexibility	No cracks visible in the film coating
Minimum Percent Elongation	Not less than the value 28 -38
Heat shock	No cracks visible in the film coating after conditioning at 175°C
Dielectric breakdown	4-7.5 AWG:: Heavy Build or Type 2: : $\geq 3500V - 3800V$ 8-24 AWG: Single Build or Type 1: $\geq 2710V - 3740V$ Heavy Build or Type 2: $\geq 4870V - 6330V$
Continuity	14-24 AWG: max number of discontinuities Single Type 1: $500\pm 5\% - 750\pm 5\%$ Heavy Type 2: $1000\pm 5\% - 1500\pm 5\%$



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>4-24 AWG: No swelling or blistering in the film coating</p> <p>4-7.5 AWG: a): Four dielectric breakdown values shall average not less than the values in 3500V - 3700V</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>8-24 AWG: a)Ten dielectric twisted pair breakdown values shall average not less than the values in</p> <p>Single Type 1: 2710V - 3740V</p> <p>Heavy Type 2: 4870V - 7000V</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>

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