

Class 155 Polyester Film-Insulated Round Copper Magnet Wire

Table1 Specifications

Insulation materials	Polyester Film
Thermal Class	155
Dimensions	25-50 AWG
Insulation thickness	Single and Heavy
Certificate	MW-5C



Table 2 Properties

Adherence and flexibility	No cracks visible in the film coating
Minimum Percent Elongation	Not less than the value 7% -28%
Heat shock	No cracks visible in the film coating after conditioning at 175°C
Springback	25-30 AWG: not greater than 64-80 according to size, Mandrel Diameter and Tension
Dielectric breakdown	25-37 AWG: Single Build or Type 1: $\geq 2040V-2640V$ Heavy Build or Type 2: $\geq 2270V-4740V$ Triple Build or Type 3: $\geq 3100V-6300V$ 38-50 AWG: Single Build or Type 1: $\geq 150V-500V$ Heavy Build or Type 2: $\geq 300V-950V$ Triple Build or Type 3: $\geq 690V -1400V$

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Table 2 Properties

Continuity	<p>25-44 AWG: max number of discontinuities</p> <p>Single Type 1: 350±5% - 750±5%</p> <p>Heavy Type 2: 500±5% - 1000±5%</p> <p>Triple Type 3: 750±5% - 1500±5%</p> <p>Quad: 1000±5% - 2000±5%</p> <p>45-50 AWG: max number of discontinuities</p> <p>Single Type 1: 25±5%</p> <p>Heavy Type 2: 10±5%</p>
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Table 3 Periodic conformance tests

Thermoplastic flow	Median not less than 250°C
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 in table 2
Scrape resistance	<p>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</p> <p><i>Helical Coil Preparation and Bond Retention table</i></p>



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