



Class 180 Polyester Film-Insulated Round Copper Magnet Wire for Hermetic Applications

Table1 Specifications

Insulation materials	Polyester Film-Insulated Polyester (Imide) Film-Insulated Polyester (Amide) Film-Insulated
Dimensions	Heavy 14-30 AWG in accordance with 0.307mm-1.732mm
Certificate	MW 72-C
Thermal Class	180



Table 2 Properties

Adherence and flexibility	No cracks visible in the film coating
Elongation	Not less than the value in 5-38
Heat shock	No cracks visible in the film coating after conditioning at 200°C
Springback	Not greater than the value in 42-66



Table 3 Periodic conformance tests

Thermoplastic flow	Median not less than 300°C
Solubility	Specimens immersed in xylene and 50/50 xylene/butyl Cellosolve shall not soften sufficiently to expose the bare conductor
Breakdown strength at rated temperature	Average not less than 75% of the value required at room temperature
Refrigerant R-22 extraction	14-24 AWG: not greater than 0.25% of weight of film insulation
Dielectric breakdown after R22 conditioners	14-24 AWG: average not less than the value in 4870-6330
Dielectric breakdown	14-23.5 AWG: not less than the value in Heavy Build 4930-6330 24-30 AWG: not less than the value in Heavy Build 4220-4870 or 1950-2430 respectively
Continuity	Max number of discontinuities in accordance with 14-24 AWG: 1500; 24.5-30 AWG: 1000



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