



Class 220 Polyester Overcoated with Polyamideimide Film-Insulated Round Copper Magnet Wire

Table1 Specifications

Insulation materials	Film - Insulation Types Polyester Overcoated with Polyamideimide; Polyester (Imide) Overcoated with Polyamideimide; Polyester (Amide) Overcoated with Polyamideimide
Thermal Class	220
Dimensions	Single 14-44 AWG, Heavy 4-44 AWG, Triple 14-44 AWG
Insulation thickness	Single, Heavy, Triple



Table 2 Periodic conformance tests

Thermoplastic flow	Median not less than 325°C
Solubility	Specimens immersed in xylene and 50/50 xylene/butyl Cellosolve 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
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 Wire Size Range AWG 14-41

Table 3 Properties

Adherence and flexibility	No cracks visible in the film coating
Elongation	Not less than the value 5-38
Heat shock	No cracks visible in the film coating after conditioning at 240°C
Springback	14-30 AWG: not greater than the value in Maximum Degrees per Turn 42-66; 4-13 AWG: not greater than 5°
Dielectric breakdown	4-9.5 AWG: Single Build: 1870V; Heavy Build ≥ 3400V-3700V 10-23.5 AWG: Single Build or Type 1 ≥ 2740V-3740V; Heavy Build or Type 2 ≥ 4930V-6800V Triple Build or Type 3 ≥ 6590V-8450V 24-37 AWG: Single Build or Type 1 ≥ 1360V-2710V; Heavy Build or Type 2 ≥ 2270V-4870V Triple Build or Type 3 ≥ 3100V-6500V 38-44 AWG: Single Build or Type 1 ≥ 300V-500V; Heavy Build or Type 2 ≥ 600V-950V Triple Build or Type 3 ≥ 845V-1400V
Continuity	14-44 AWG: max number of discontinuities Single Type 1: 350±5% - 1000±5% Heavy Type 2: 500±5% - 1500±5% Triple Type 3: 750±5% - 2000±5% Quad: 1000±5% - 2500±5%

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