

Class 155 Polyurethane Film-Insulated Round Copper Magnet Wire for Solderable Applications

Table1 Specifications

Insulation materials	Polyurethane Film-Insulated
Dimensions	Single 25-56 AWG in accordance with 0.0165mm-0.493mm Heavy 25-50 AWG in accordance with 0.0356mm-0.516mm Triple 25-44 AWG in accordance with 0.074mm-0.538mm
Insulation thickness	Single, Heavy, Triple
Thermal Class	155
Certificate	MW 79-C



Table 2 Periodic conformance test

Thermoplastic flow	Median not less than 200°C
Solubility	Specimens immersed in xylene shall not soften sufficiently to expose the bare conductor
Dielectric breakdown at rated temperature	Average not less than 75% of the value in Single 1360v-3740v; Heavy 2270v-7000v; Triple 3100v-8450v

Table 3 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 175°C
Springback	25-30 AWG: not greater than the value in 66-72
Dielectric breakdown	25-56 AWG: not less than the value in Single 90v-1320v; Heavy 1750v-2370v; Triple 690v-3170v
Continuity	25-44 AWG: max number of discontinuities in accordance with Single 350-750; Heavy 500-1000; Triple 750-1500 45-56 AWG: max number of discontinuities in accordance with Single 25; Heavy 10
Solderability	Covered with continuous film of solder after immersion at 390°C within the times specified in Single 25; Heavy 10



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