



# Class 180 Polyester Round Copper Magnet Wire for Solderable Applications

**Table1 Specifications**

Insulation materials	Polyester Film-Insulated Polyester Imide Film-Insulated
Dimensions	Single 25-56 AWG in accordance with 0.0165mm-0.493mm Heavy 25-56 AWG in accordance with 0.0356mm-0.516mm
Insulation thickness	Single, Heavy
Thermal Class	180
Certificate	MW 77-C



**Table 2 Periodic conformance test**

Thermoplastic flow	Median not less than 225°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 required at room temperature





**Table 3 Properties**

Adherence and flexibility	No cracks visible in the film coating		
Elongation	Not less than the value in 10-35		
Heat shock	No cracks visible in the film coating after conditioning at 200°C		
Springback	25-30 AWG: not greater than the value in Single 66-72; Heavy 70-74		
Dielectric breakdown	25-56 AWG: not less than the value in Single 80v-1190v; Heavy 150v-2130v		
Continuity	25-44 AWG: max number of discontinuities in accordance with Single 350-750; Heavy 500-1000  45-56 AWG: max number of discontinuities in accordance with Single 25; Heavy 10		
Solderability	Covered with continuous film of solder after immersion within the time specified at 470°C:		
	AWG Size	Single	Heavy
	25-29.5	6 seconds	6 seconds
	30-36	5 seconds	5 seconds
	37-46	4 seconds	4 seconds
	47-56	3 seconds	4 seconds



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