



# Class 130 Polyurethane Round Copper Magnet Wire for Solderable Applications

**Table1 Specifications**

Insulation materials	The coating is based on polyurethane resins
Dimensions	Single 25-56 AWG in accordance with 0.0165mm-0.493mm Heavy 25-50 AWG in accordance with 0.0356mm-0.516mm
Insulation thickness	Single and Heavy
Thermal Class	130
Certificate	MW 75-C



**Table 2 Periodic conformance test**

Thermoplastic flow	Median not less than 200°C
Solubility	Specimens immersed in xylene and 50/50 xylene/butyl Cellosolve 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 5-38	
Heat shock	No cracks visible in the film coating after conditioning at 175°C, Exception: use 6d mandrel for all sizes	
Springback	25-30 AWG: not greater than the value in 66-72	
Dielectric breakdown	25-37 AWG: not less than the value in Single: 1360v-2640v; Heavy: 2270v-4740v 38-56 AWG: not less than the value in Single: 90v-500v; Heavy: 175v-950v	
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 360°C:	
	AWG Size	Single and Heavy
	25-29.5	6 seconds
	30-36	5 seconds
	37-46	4 seconds
	47-56	3 seconds



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