

## Class 180 Polyurethane with Self-Bonding Overcoat Round Copper Magnet Wire for Solderable Applications

Table1 Specifications

Insulation materials	<p>The conductor shall be coated with a dual film.</p> <p>The underlying coating is based on polyurethane resins.</p> <p>The superimposed coating is based on resins that are self-bonding in character.</p>
Dimensions	<p>Type 1: 25-52 AWG in accordance with 0.0292mm-0.516mm</p> <p>Type 2: 25-50 AWG in accordance with 0.0406mm-0.538mm</p>
Thermal Class	180



Table 2 Periodic conformance tests

Thermoplastic Flow	Median not less than 225°C
Dielectric breakdown at rated temperature	Average not less than 75% of the value required at room temperature
Bond strength at elevated temperature	Bond conditions and strength requirements as agreed between customer and supplier

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 200°C			
Springback	Not greater than the value in Type 1 42-66; Type 2 46-70			
Dielectric breakdown	25-37 AWG: not less than the value in			
	Type 1 1360v-2640v; Type 2 2270v-4740v			
Continuity	38-52 AWG: not less than the value in Type 1 120v-500v; Type 2 250v-950v			
	25-44 AWG: max number of discontinuities in accordance with Type 1 350-1000; Type 2 500-1500			
Solderability	45-52 AWG: max number of discontinuities in accordance with Type 1 25; Type 2 10			
	Covered with continuous film of solder after immersion within the time and temperature specified:			
	AWG Size	Temperature	Type 1	Type 2
	25-29.5	390°C	5 seconds	6 seconds
	30-36	390°C	4 seconds	5 seconds
	37-46	390°C	3 seconds	4 seconds
47-56	360°C	2 seconds	3 seconds	

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