

Class 180 Polyurethane Overcoated with Polyamide Self-Bonding Round Copper Magnet Wire for Solderable Applications

Table1 Specifications

Insulation materials	<p>The underlying coating is based on polyurethane.</p> <p>The intermediate coating is based on polyamide.</p> <p>The superimposed coating is based on resins that are self-bonding in character.</p>
Dimensions	<p>Type 1: 14-44 AWG in accordance with 0.067mm-1.732mm</p> <p>Type 2: 14-44 AWG in accordance with 0.074mm-1.773mm</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	<p>14-23.5 AWG: not less than the value in Type 1 2470v-3170v; Type 2 4440v-5690v</p> <p>24-37 AWG: not less than the value in Type 1 610v-1220v; Type 2 1020v-2190v</p> <p>38-44 AWG: not less than the value in Type 1 275v-450v; Type 2 550v-850v</p> <p>(polyamide col.)</p> <p>*Polyamide column</p>			
Continuity	Max number of discontinuities in accordance with Type 1 350-1000; Type 2 500-1500			
Solderability	Covered with continuous film of solder after immersion within the time and temperature specified:			
	AWG Size	Temperature	Type 1	Type 2
	14-19.5	430°C	8 seconds	10 seconds
	20-23.5	430°C	6 seconds	8 seconds
	24-29.5	390°C	5 seconds	6 seconds
	30-36	390°C	4 seconds	5 seconds
	37-44	390°C	3 seconds	4 seconds

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