

Class 130 polyurethane coated polyamide round aluminum magnet wire

Table1 Specifications

Insulation Material	Polyurethane/Polyamide
Heat Rating	130
Size	14-30 AWG Single: 0.284-1.692 Multiple : 0.307-1.732
Certificate	UL



Table 2 Properties

Adhesion and Flexibility	No visible cracks in the film coating
Elongation	Not less than 15
Thermal Shock	No visible cracks in the film coating after conditioning at 175°C
Dielectric Breakdown	14-23.5 AWG: Single Layer or Type 1: $\geq 2470V-3520V$ Heavy Duty or Type 2: $\geq 4390V-6330V$ Triple Layer or Type 3: $\geq 6590V-8540V$ 24-37 AWG: Single Layer or Type 1: $\geq 680V-1350V$ Heavy Duty or Type 2: $\geq 1140V-2430V$ Triple Layer or Type 3: $\geq 1550V -3250V$
Continuity	14-24 AWG:Maximum number of discontinuities conforms to $750\pm 5\%$ – $1500\pm 5\%$ Maximum number of discontinuities conforms to 10-25.

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Table 3 Periodic conformance tests

Solubility	Samples immersed in xylene should not soften enough to expose bare conductors
Dielectric breakdown at rated temperature	Average value not less than 75% of the required value at room temperature
Solderability	After soaking at the specified time and temperature, the insulation layer is completely removed as specified.

Scratch resistance

Helical Coil Preparation and Bond Retention

Wire Size Range AWG	Mandrel Diameter (inches)	Maximum Winding Force (grams)	Load on Coil During Bonding (grams)	Peel Strength at Room Temperature (grams)	Peel Strength at Elevated Temperature (grams)
14-14.5	0.55	1200	675	850	350
15-15.5	0.47	1200	500	650	250
16-16.5	0.43	1200	450	600	225
17-17.5	0.39	1200	400	500	200
18-18.5	0.35	500	350	425	175
19-19.5	0.31	500	250	350	125
20-20.5	0.28	500	200	285	100
21-21.5	0.24	500	175	225	90
22-23.5	0.20	200	125	160	65
24-25.5	0.16	200	75	110	35
26-27.5	0.12	80	50	70	25
28-31.5	0.08	80	35	35	20
32-33.5	0.04	30	25	25	10
34-37.5	0.04	12	15	12	10
38-40.5	0.04	5	5	8	5
41-41	0.04	5	5	5	5

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