

Class 155 grade polyester coated polyamide film insulated round aluminum magnet wire

Table1 Specifications

Insulation Material	Polyester(amide)(imide)
Heat Rating	155
Size	Single: 14-24 AWG Multiple: 10-24 AWG
Certificate	UL



Table 2 Properties

Adhesion and Flexibility	No visible cracks on the film coating
Elongation	Not less than the value of 5-38
Thermal Shock	No visible cracks on the film coating after conditioning at 175°C
Dielectric Breakdown	14-24AWG:Not less than the value of 2440v-3170v 10-24 AWG:Not less than the value of 4380v-6120v
Continuity	14-24 AWG: Maximum number of discontinuities meets 750±5% – 1500±5% Maximum number of discontinuities meets 10-25.

Table 3 Periodic conformance tests

Solubility	Samples immersed in xylene and 50/50 xylene/butyl cellosolve shall not soften enough to expose bare conductors
Dielectric Breakdown Temperature Rating	Average value not less than 75% of the required value at room temperature

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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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郑州蓝普实业有限公司

Zhengzhou LP Industry CO., LTD.

Phone: 0086-19337889070

Web: <https://lpwindingwire.com>

Email: office@cnlpzz.com

Add: NO. 86 Jingsan Road, Jinshui District, Zhengzhou, China