

Class220 aromatic polyamide paper covered square copper magnet wire

Table 1 Specifications

Insulation Material	Aromatic polyamide paper
Heat Rating	220
Bare Wire Dimensions	Awg 1/0 – Awg14
Conductor	Copper
Certificate	UL



Table 2 Properties

Adhesion and Flexibility	The covering shall not loosen appreciably or open enough to expose the bare wire after being bent around a mandrel six times the thickness of the bare wire
Elongation	Not less than 32% for thicknesses 0.049 inches (1.25 mm) and above, and not less than 30% for thicknesses less than 0.049 inches (1.25 mm)
Springback	Not more than 5.5°
Dielectric breakdown	Not less than 300 V/mil (11800 V/mm) of the smallest thickness of the paper cover side (half the minimum increase)

Features:

High heat resistance

Excellent insulation performance

Good mechanical strength

Easy to process and wind

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Table 3

Dimensions for Tape-Covered Square Magnet Wire (mm)

AWG Size	N=2						N=3					
	t = 0.038		t = 0.051		t = 0.076		t = 0.038		t = 0.051		t = 0.076	
	Minimum Increase in Diameter	Maximum Overall Diameter	Minimum Increase in Diameter	Maximum Overall Diameter	Minimum Increase in Diameter	Maximum Overall Diameter	Minimum Increase in Diameter	Maximum Overall Diameter	Minimum Increase in Diameter	Maximum Overall Diameter	Minimum Increase in Diameter	Maximum Overall Diameter
1/0	0.127	8.562	0.178	8.639	0.254	8.791	0.203	8.639	0.254	8.740	0.381	8.943
1	0.127	7.650	0.178	7.727	0.254	7.879	0.203	7.727	0.254	7.828	0.381	8.031
2	0.127	6.838	0.178	6.914	0.254	7.066	0.203	6.914	0.254	7.015	0.381	7.219
3	0.127	6.114	0.178	6.190	0.254	6.342	0.203	6.190	0.254	6.292	0.381	6.495
4	0.127	5.469	0.178	5.545	0.254	5.697	0.203	5.545	0.254	5.646	0.381	5.850
5	0.127	4.895	0.178	4.971	0.254	5.123	0.203	4.971	0.254	5.072	0.381	5.276
6	0.127	4.384	0.178	4.460	0.254	4.613	0.203	4.460	0.254	4.562	0.381	4.765
7	0.127	3.929	0.178	4.006	0.254	4.158	0.203	4.006	0.254	4.107	0.381	4.310
8	0.127	3.515	0.178	3.592	0.254	3.744	0.203	3.592	0.254	3.693	0.381	3.896
9	0.127	3.162	0.178	3.239	0.254	3.391	0.203	3.239	0.254	3.340	0.381	3.543
10	0.127	2.842	0.178	2.918	0.254	3.071	0.203	2.918	0.254	3.020	0.381	3.223
11	0.127	2.558	0.178	2.634	0.254	2.786	0.203	2.634	0.254	2.736	0.381	2.939
12	0.127	2.304	0.178	2.380	0.254	2.532	0.203	2.380	0.254	2.482	0.381	2.685
13	0.127	2.083	0.178	2.159	0.254	2.311	0.203	2.159	0.254	2.261	0.381	2.464
14	0.127	1.882	0.178	1.958	0.254	2.111	0.203	1.958	0.254	2.060	0.381	2.263



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