

Class 155 Polyester Glass Fiber Covered Heavy Film-Insulated Square Copper Magnet Wire

1. Specifications

Insulation materials	Polyester Glass Fiber Film
Thermal Class	155
Conductor	Copper
Insulation thickness	Single/Double/Heavy
Certificate	MW-46C



2. Dimensions

Table 1 Heavy and Quad Film-Insulated Square Magnet Wire Increase in Dimensions Due to Film Coating (mm)

Radii (±25%) Nominal	Heavy		Quadruple	
	Minimum Increase	Maximum Overall	Minimum Increase	Maximum Overall
1.00	0.080	7.549	0.127	7.600
1.00	0.080	6.736	0.127	6.787
1.00	0.080	6.012	0.127	6.063
1.00	0.080	5.367	0.127	5.418
1.00	0.080	4.793	0.127	4.844
0.80	0.080	4.282	0.127	4.333
0.80	0.080	3.828	0.127	3.879
0.80	0.080	3.424	0.127	3.475
0.67	0.080	3.061	0.127	3.112
0.67	0.080	2.741	0.127	2.791
0.50	0.080	2.456	0.127	2.507
0.50	0.080	2.205	0.127	2.256
0.40	0.080	1.981	0.127	2.032
0.40	0.080	1.781	0.127	1.831

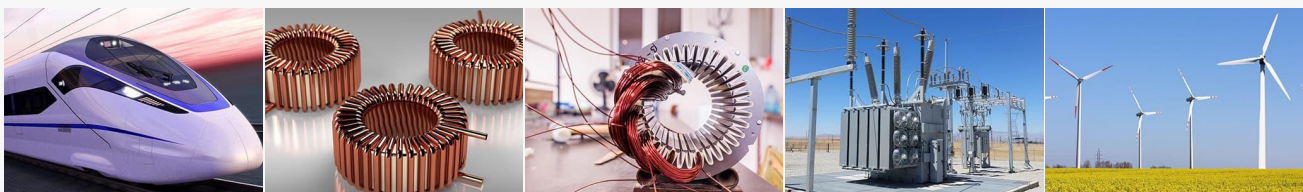
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3. Dimensions

Table 2 Single/Double Polyester Glass Fiber Covered, Bare or Heavy Film-Insulated Square Copper Magnet Wire—Minimum Increase and Maximum Overall Dimensions Due to Insulation (mm)

Heavy Film-Coated Single Polyester Glass Covered		Heavy Film-Insulated Double Glass Covered	
Minimum Increase	Maximum Overall	Minimum Increase*	Maximum Overall
0.229	8.661	0.381	8.865
0.229	7.747	0.381	7.950
0.203	6.909	0.381	7.137
0.203	6.198	0.381	6.426
0.203	5.563	0.381	5.766
0.203	4.978	0.356	5.182
0.203	4.445	0.356	4.674
0.203	3.988	0.330	4.191
0.203	3.581	0.305	3.759
0.203	3.226	0.305	3.404
0.178	2.870	0.279	3.048
0.178	2.591	0.279	2.743
0.178	2.337	0.279	2.489
0.178	2.134	0.279	2.261
0.178	1.930	0.279	2.057

NOTE—This specification corresponds with IEC 60317-60-1 (under development)



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4. General Requirements

Properties	Requirement
DIMENSIONS	<p>Square Wire:</p> <ol style="list-style-type: none"> 1. Radii in accordance with 0.40-1mm ($\pm 25\%$) 2. Thickness and width tolerances in accordance with Table 1 3. Dimensions and increase in thickness in accordance with Table 2
ADHERENCE AND FLEXIBILITY	<p><u>Single or Double with underlying film</u>: no cracks visible in the film insulation after 20% elongation. Examine with normal vision and without removing the polyester glass fiber covering.</p> <p>NOTE—The minimum thickness of the polyester glass fiber covering is 35% of the maximum increase in dimensions calculated from: Table 2</p>
ELONGATION	<p>Not less than 32% for a thickness of 0.049 in. (1.25 mm) and greater, or 30% for a thickness less than 0.049 in. (1.25 mm)</p>
SPRINGBACK	<p>Polyester glass fiber covered Heavy film-insulated: not greater than 5.5°</p>
DIELECTRIC BREAKDOWN	<p>Not less than 90 V/mil (3543 V/mm) of the minimum thickness of the glass fiber covering on one side plus the minimum breakdown given in Table 36 for the film-insulated wire, if applicable.</p> <p>NOTE—The minimum thickness of the glass fiber covering is 35% of the maximum increase in dimensions calculated from: Table 2</p>

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