

Class 105 Paper-Covered Film-Insulated Round Aluminum Magnet Wire

Table 1 Specifications

Insulation materials	rope paper, kraft paper, or both
Thermal Class	105
Diameter	<p>8-24 AWG: single: min: 0.025mm-0.043mm; max: 0.551mm-3.338mm;</p> <p>8-24 AWG: heavy: min: 0.048mm-0.089mm; max: 0.577mm-3.383mm;</p> <p>14-24AWG: triple:min: 0.074mm-0.122mm; max: 0.599mm-1.773mm;</p> <p>10-24AWG: quad:min: 0.097mm-0.172mm;max: 0.635mm-2.789mm</p>
Insulation thickness	Single; heavy; triple; quad
Certificate	MW-31A



Table 2 Properties

Adherence and flexibility	No cracks visible in the film coating																
Minimum Percent Elongation	Not less than the value 15%																
Adherence And Flexibility	<p>No openings sufficient to expose the bare or film-insulated conductor when wound on the following mandrel:</p> <table border="1" data-bbox="552 851 1300 1214"> <thead> <tr> <th>AWG Size</th> <th>Mandrel Size</th> </tr> </thead> <tbody> <tr> <td>8-13.5</td> <td>5d</td> </tr> <tr> <td>14-22.5</td> <td>4d</td> </tr> <tr> <td>23-24</td> <td>3d</td> </tr> </tbody> </table> <p>No openings sufficient to expose the bare or film-coated wire after elongation as follows:</p> <table border="1" data-bbox="552 1382 1300 1742"> <thead> <tr> <th>AWG Size</th> <th>Elongation Method</th> </tr> </thead> <tbody> <tr> <td>8-13.5</td> <td>15% (+2, -0)</td> </tr> <tr> <td>14-22.5</td> <td>10% (+2, -0)</td> </tr> <tr> <td>23-24</td> <td>8% (+2, -0)</td> </tr> </tbody> </table>	AWG Size	Mandrel Size	8-13.5	5d	14-22.5	4d	23-24	3d	AWG Size	Elongation Method	8-13.5	15% (+2, -0)	14-22.5	10% (+2, -0)	23-24	8% (+2, -0)
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lp-industry

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