

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

Table 1 Specifications

Insulation materials	rope paper, kraft paper, or both
Thermal Class	105
Diameter	8-32 AWG: single: min: 0.015mm-0.043mm; max: 0.229mm-3.338mm; 8-24 AWG: heavy: min: 0.028mm-0.089mm; max: 0.246mm-3.383mm; 14-32AWG: triple:min: 0.043mm-0.122mm; max: 0.259mm-1.773mm; 10-24AWG: quad:min: 0.056mm-0.172mm;max: 0.284mm-2.789mm
Insulation thickness	Single; heavy; triple; quad

Table 2 Properties

Dielectric Breakdown:

Minimum Dielectric Breakdown Voltage-Twisted Pair Method

AWG Size	Insulation Thickness
8-32	Single Build: 2040-3740*V
	Heavy Build: 3570-7000*V
14-32	Triple Build: 4800-8450V
	Quad Build: 6210-11000V



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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	No openings sufficient to expose the bare or film-insulated conductor when wound on the following mandrel:								
	<table border="1"> <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>	AWG Size	Mandrel Size	8-13.5	5d	14-22.5	4d	23-24	3d
	AWG Size	Mandrel Size							
	8-13.5	5d							
	14-22.5	4d							
23-24	3d								
No openings sufficient to expose the bare or film-coated wire after elongation as follows:									
<table border="1"> <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	Elongation Method	8-13.5	15% (+2, -0)	14-22.5	10% (+2, -0)	23-24	8% (+2, -0)	
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23-24	8% (+2, -0)								



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