

## Class 155 Polyester Glass Fiber Covered Fused and Unvarnished Bare or Heavy Film-insulated Round Copper Magnet Wire

Table1 Specifications

Insulation materials	Polyester Glass Fiber Film
Thermal Class	155
Dimensions	4/0-30 AWG
Insulation thickness	Single and Heavy
Certificate	MW-45C



Table 2 Properties

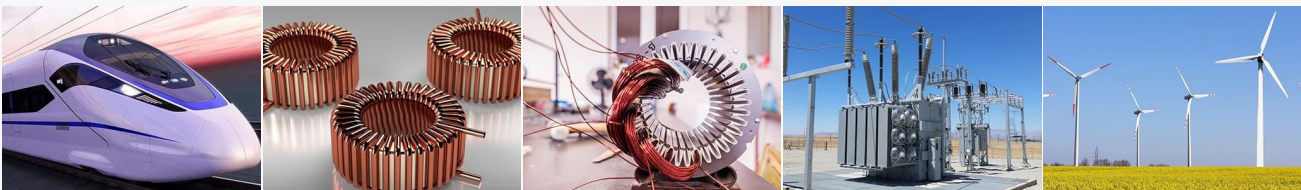
Properties	Requirement						
DIMENSIONS	Single 4/0-30 AWG in accordance with 0.411-1.819 mm Double 4/0-30 AWG in accordance with 0.0184-0.2188 mm						
ADHERENCE AND FLEXIBILITY	<p>Covering shall not open sufficiently to expose the bare or film-insulated wire after bending on mandrel sizes as follows:</p> <table border="1"> <thead> <tr> <th>AWG Size</th> <th>Mandrel Diameter</th> </tr> </thead> <tbody> <tr> <td>4/0-9.5</td> <td>10d</td> </tr> <tr> <td>10-30</td> <td>5d</td> </tr> </tbody> </table> <p>After a specimen has been elongated 25% or to its breaking point, whichever is less, there shall be no loosening, fraying, or loss of adherence of the covering except at the point of rupture</p>	AWG Size	Mandrel Diameter	4/0-9.5	10d	10-30	5d
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4/0-9.5	10d						
10-30	5d						

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Table 2 Properties

ELONGATION	Not less than the values of 10		
SPRINGBACK	4/0-13 AWG polyester glass fiber covered bare: not greater than 5° 4-13 AWG polyester glass fiber covered film-insulated: not greater than 5.5°		
DIELECTRIC BREAKDOWN	Not less than the following:		
	AWG Size	Minimum Breakdown, Volts*	
		Single	Double
	4/0-9.5	150	270
	10-23	360	540
	24-30	225	400
	*For polyester glass fiber covered wire having underlying film insulation, add the minimum breakdown voltage for the film-insulated wire.		

NOTE—This specification corresponds with IEC 60317-70-1 (under development).



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