



Class 155 Glass Fiber Covered Film-Insulated Round Copper Magnet Wire

Table1 Specifications

Insulation materials	The glass fiber shall be electrical-grade continuous-filament glass yarn
Thermal Class	155
Dimensions	Single 4/0-30 AWG in accordance with 0.386mm-1.844mm Double 4/0-30 AWG in accordance with 0.437mm-1.844mm
Certificate	MW 41-C
Insulation thickness	Single, Double



Table 2 Properties

Dielectric breakdown	Not less than the following:		
		Minimum Breakdown, Volts*	
	AWG Size	Single	Double
	4/0-9.5	170	315
	10-23.5	360	540
	24-30	225	400
* For glass fiber covered wire having underlying film insulation, add the minimum breakdown voltage given in Part 3 for the film-insulated wire.			

Adherence and flexibility	Covering shall not open sufficiently to expose the bare or film insulated wire after bending on mandrel sizes as follows:		
	AWG Size	Mandrel Diameter	
	1 to 6	10d	
	6.5 to 30	10d	
Elongation	Not less than the following:		
	AWG Size	Minimum Elongation Percent	
		With Glass Fiber Covering	Glass Fiber Covering Removed
	4/0-1/0	35.0	35.0
	1-8	30.0	30.0
	9-15	20.0	30.0
	16-21	15.0	25.0
	22-28	—	20.0
29 and 30	—	15.0	
Springback	4/0-13 AWG glass fiber covered bare: not greater than 5°		
	4-13 AWG glass fiber covered film-insulated: not greater than 5.5°		



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