



WIRE, BRASS - CONTROLLED RESISTANCE

ESF-M2L66-A

1. SCOPE

The material defined by this specification is a brass magnet wire with controlled resistance. It is rated Class 200.

2. APPLICATION

This material was released originally for coils in fuel injectors.

3. REQUIREMENTS

3.0 STANDARD REQUIREMENTS FOR PRODUCTION MATERIALS

Material suppliers and part producers must conform to the Company's Standard Requirements For Production Materials (WSS-M99P1111-A).

3.2 CHEMICAL COMPOSITION

Cu	79.0 - 81.0
Zn	19.0 - 21.0
Pb	0.05 max
Fe	0.05 max
Sn	0.05 max
Al	0.02 max
Ni	0.20 max
All Other	0.10 max

3.3 PHYSICAL PROPERTIES

3.3.1	Ultimate Tensile	410 - 470 MPa
3.3.2	Tensile at 1% Elongation	290 - 410 MPa
3.3.3	Elongation, %	22 min

3.4 ELECTRICAL PROPERTIES

3.4.1	Resistance at 20 °C	1.00 +/- 0.02 ohms/m
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Date	Action	Revisions
2003 06 30	Revised	Para 3.0 inserted; Para 3.1, 3.5, 4 deleted
1987 05 08	CF4R107002-14	Released





3.5 INSULATION

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| 3.5.1 | The insulation shall be a theic modified polyamid-imidester resin. | |
| 3.5.2 | Minimum Build | 0.010 mm |
| 3.5.3 | Maximum Build | 0.015 mm |
| 3.5.4 | Thermoplastic Flow, min | 320 °C |