

INCH-POUND

MIL-PRF-15160/60J

15 October 2008

SUPERSEDING

MIL-PRF-15160/60H

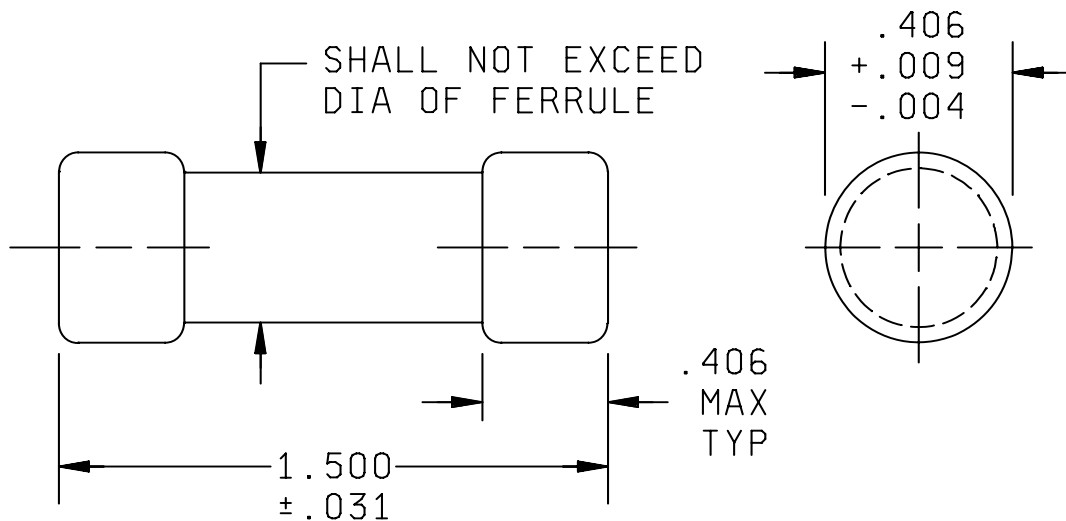
14 March 2005

## PERFORMANCE SPECIFICATION SHEET

### FUSES, INSTRUMENT, POWER, AND TELEPHONE (NONINDICATING), STYLE F60

This specification is approved for use by all Departments and Agencies of the Department of Defense.

The requirements for acquiring the product described herein shall consist of this specification sheet and [MIL-PRF-15160](#).



Inches	mm
.004	0.10
.009	0.23
.031	0.79
.406	10.31
1.500	38.10

#### NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for general information only.

FIGURE 1. Style F60, characteristic C.

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REQUIREMENTS:

Interface and physical dimensions: See figure 1.

Case: Glass melamine.

Ferrule: Brass, copper, bronze, or copper alloy.

Finish: Nickel, or silver plated when specified.

Terminal strength: [Method 211 of MIL-STD-202](#), test condition E, 2 pound-inch torque between ferrules and fuse body.

Electrical:

Current rating: See table I.

Current carrying capacity: 110 percent of rated current.

Voltage rating: See table I.

Characteristic: See table I.

Overload interrupt: Within 1 hour at 135 percent of rated current; and within 2 minutes at 200 percent.

Short circuit interrupt: 200,000 A at 500 V ac (symmetrical), 150,000 A at 500 V dc.

Shock: [Method 207 of MIL-STD-202](#), HI shock.

Vibration: [Method 204 of MIL-STD-202](#), test condition A (except 5g, 500 Hz).

Type designation: Type designation shall be as specified in table I.

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TABLE I. Type designation. <sup>1/</sup>

Style	Characteristic	Voltage	Current
F60	C	500V	1/8A
F60	C	500V	2/10A
F60	C	500V	1/4A
F60	C	500V	3/10A
F60	C	500V	3/8A
F60	C	500V	1/2A
F60	C	500V	3/4A
F60	C	500V	1A
F60	C	500V	1 1/2A
F60	C	500V	2A
F60	C	500V	3A
F60	C	500V	4A
F60	C	500V	5A
F60	C	500V	6A
F60	C	500V	8A
F60	C	500V	10A
F60	C	500V	15A
F60	C	500V	20A
F60	C	500V	25A
F60	C	500V	30A

<sup>1/</sup> For silver plated terminals, the designator "S" is added after the current rating.

VERIFICATION:

Qualification inspections: The number of qualification samples required shall be:

- 24 samples maximum current rating of each voltage and design.
- 24 samples minimum current rating of each voltage and design.

NOTE: If labels are used, five additional samples of any rating are required.

Sample size: The number of group III samples shall be twelve samples each of the maximum and minimum current ratings. The samples shall be divided as shown in table II.

TABLE II. Short circuit test.

Number of samples	Short circuit current	Test voltage
3	5,000 A	500 V ac <sup>1/</sup>
3	200,000 A	500 V ac <sup>1/</sup>
3	5,000 A	500 V dc
3	150,000 A	500 V dc

<sup>1/</sup> A 600 volt ac test voltage may be used.

Group C inspection: Group C inspection shall be performed on short circuit current ratings of 5,000 A at 500 V ac; 200,000 A at 500 V ac; and 5,000 A at 500 V dc. The 150,000 A at 500 V dc short circuit current test is not required to be performed for group C testing.

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INSPECTION ROUTINE:

AC short circuit test: AC short circuit tests shall be performed at the currents shown in table II at not less than 500 volts, single phase, and not greater than 20 percent power factor, lagging. The current shall be applied within plus or minus 10 degrees of the zero point of the voltage wave.

DC short circuit test: DC short circuit tests shall be performed at the currents shown in table II at not less than 500 volts. The rate of rise shall be between 25,000,000 and 30,000,000 amperes per second.

Cross-reference: For applicable cross-reference see table III. The existing stocks of superseded items may be used. When exhausted, the superseding parts shall be used.

TABLE III. Cross-reference.

Superseding number	Superseded numbers for CAGE	
	81349	96906
F60C500V1/8A	---	---
F60C500V1/4A	---	---
F60C500V3/8A	---	---
F60C500V1/2A	---	---
F60C500V3/4A	---	---
F60C500V1A	F60H1R00C	MS15249-1
F60C500V3A	F60H3R00C	MS15249-3
F60C500V5A	F60H5R00C	MS15249-5
F60C500V6A	F60H6R00C	MS15249-6
F60C500V8A	F60H8R00C	MS15249-8
F60C500V10A	F60H10R0C	MS15249-10
F60C500V15A	F60H15R0C	MS15249-15
F60C500V20A	F60H20R0C	MS15249-20
F60C500V25A	F60H25R0C	MS15249-25
F60C500V30A	F60H30R0C	MS15249-30

Referenced documents. In addition to [MIL-PRF-15160](#), this document references the following:

[MIL-STD-202](#)

The margins of this specification sheet are marked with vertical lines to indicate where changes from the previous issue were made. This was done as a convenience only and the Government assumes no liability whatsoever for any inaccuracies in these notations. Bidders and contractors are cautioned to evaluate the requirements of this document based on the entire content irrespective of the marginal notations and relationship to the last previous issue.

Custodians:

Army - CR  
Navy - SH  
Air Force - 85

Preparing activity:

DLA - CC

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Review activities:

Army - CR4, MI  
Navy - AS, CG, MC, OS, YD  
Air Force - 19, 99

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