

INCH-POUND

MIL-PRF-15160/65D

13 February 1998

SUPERSEDING

MIL-PRF-15160/65C

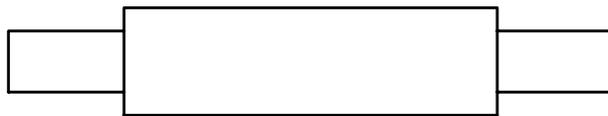
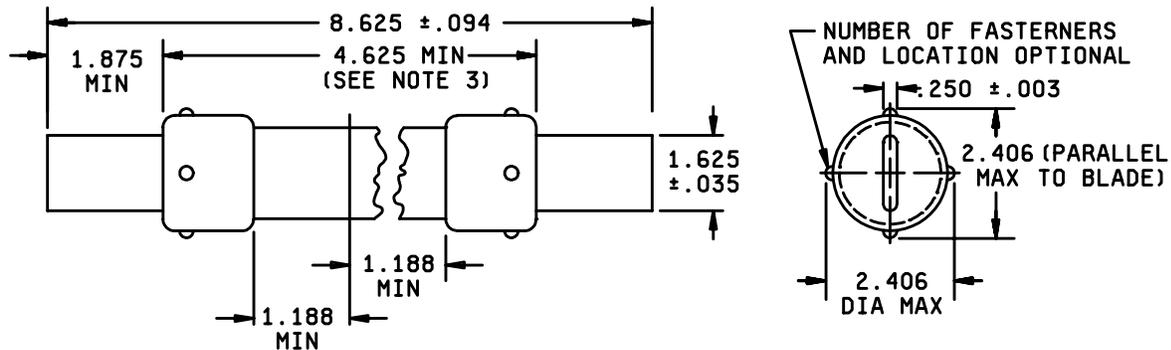
29 October 1990

PERFORMANCE SPECIFICATION SHEET

FUSES, INSTRUMENT, POWER, AND TELEPHONE  
(NONINDICATING), STYLE F65

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 and MIL-PRF-15160.



Inches	mm
.003	0.08
.035	0.89
.062	1.57
.094	2.39
.250	6.35
1.188	30.18
1.625	41.28
1.875	47.62
2.406	61.11
4.625	117.48
8.625	219.08

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for general information only.
3. The length of the cylindrical body may be less than the indicated value if other acceptable interference means (pins through blades, collars, and so forth) are provided to prevent mounting the fuse in a fuseholder that will accommodate a fuse rated in the next lower bracket of current ratings.

FIGURE 1. Style F65, characteristic C.

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REQUIREMENTS:

Interface and physical dimensions: See figure 1.

Case: Glass melamine.

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

Finish: Nickel or bright alloy plate, silver plated when specified.

Terminal strength: Method 211 of MIL-STD-202, test condition E, 5 pound-inch torque.

Electrical:

Current rating: See table I.

Current carrying capacity: 110 percent of rated current.

Voltage rating: See table I.

Characteristic: Characteristic C only.

Overload interrupt: Within 2 hour at 135 percent of rated current; and within 10 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.

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

Style	Characteristic	Voltage	Current
F65	C	500V	225A
F65	C	500V	250A
F65	C	500V	300A
F65	C	500V	350A
F65	C	500V	400A

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

Temperature rise: Temperature rise shall be not greater than the values shown in table II.

TABLE II. Allowable temperature rise.

Casing or body		Terminal	
Thermometer	Thermocouple	Thermometer	Thermocouple
50°C	90°C	60°C	90°C

VERIFICATION:

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

- a. 24 samples maximum current rating of each voltage and design.
- b. 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 III.

TABLE III. Short circuit test.

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

1/ 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 500V dc short circuit current test is not required to be performed for group C testing.

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 IV. The existing stocks of superseded items may be used. When exhausted, the superseding parts shall be used.

TABLE IV. Cross-reference.

Superseding number	Superseded numbers for CAGE	
	81349	96906
F65C500V225A	F65H225R0C	MS15254-1
F65C500V250A	F65H250R0C	MS15254-2
F65C500V300A	F65H300R0C	MS15254-3
F65C500V350A	F65H350R0C	MS15254-4
F65C500V400A	F65H400R0C	MS15254-5

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Marginal notations are not used in this revision to identify changes with respect to the previous issue due to the extent of the changes.

Custodians:

Army - CR  
Navy - SH  
Air Force - 85

Preparing activity:

DLA - CC

(Project 5920-0515-06)

Review activities:

Army - AR, AT, CR4, MI  
Navy - AS, CG, MC, OS  
Air Force - 17, 19, 99