

INCH-POUND

MIL-PRF-15160/16D

4 May 2001

SUPERSEDING

MIL-PRF-15160/16C

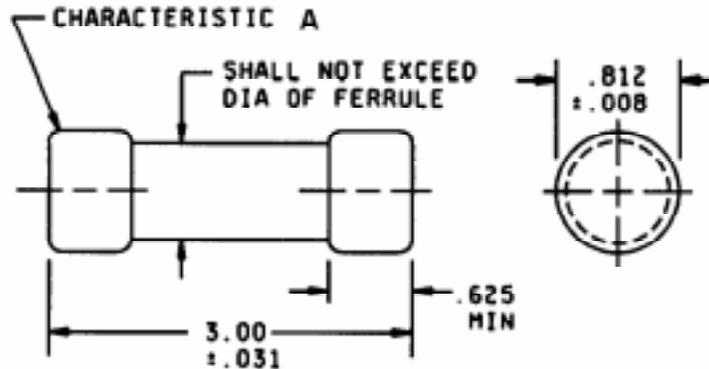
12 October 1999

PERFORMANCE SPECIFICATION SHEET

FUSES, INSTRUMENT, POWER, AND TELEPHONE  
(NONINDICATING), STYLE F16

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.

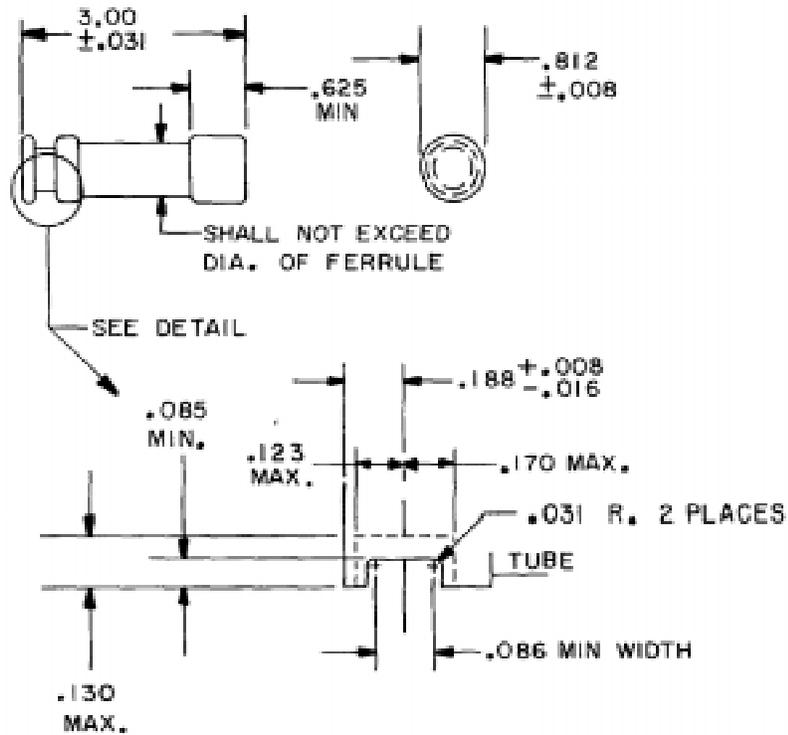


Inches	mm
0.008	.20
0.031	.79
0.625	15.88
0.812	20.62
3.00	76.20

NOTES:

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

FIGURE 1. Style F16, characteristics A.



DETAIL REJECTION GROOVE

Inches	mm	Inches	mm
0.008	0.20	0.130	3.30
0.016	0.40	0.170	4.32
0.031	0.79	0.188	4.78
0.085	2.16	0.625	15.88
0.086	2.18	0.812	20.62
0.123	3.12	3.00	76.20

NOTES:

1. Dimensions are in inches.
2. The diameter of the rejection ferrule shall be within zero and minus 0.050 inch of the diameter of the main contact area.
3. The end of the ferrule shall be flat with not greater than 0.015 inch concavity.

FIGURE 2. Style F16, characteristic BR.

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REQUIREMENTS:

Interface and physical dimensions: See figures 1 and 2.

Case: Fiber or alternate material.

(Alternate to fiber material (tube) shall have an average burst strength of 2,300 pounds per square inch with a value of not less than 1,300 pounds per square inch).

Ferrule: Brass.

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

Terminal strength: Method 211 of MIL-STD-202, test condition E, 5 inch-pound torque between ferrules and fuse body.

Electrical:

Electrical requirements shall be as specified in table I.

Shock: Method 207 of MIL-STD-202, HI shock.

Vibration: Method 204 of MIL-STD-202, test condition A (except 5g peak).

TABLE I Electrical requirements.

	Characteristics	
	A	BR
Voltage rating	250 V ac 250 V dc 450 V rms ac	250 V ac 250 V dc N/A
Overload test <u>1/</u> 135% 500%	0 – 1 hour N/A	0 – 1 hour 10 – 25 seconds
Short circuit test at 250 V dc at 250 V ac	10,000A N/A	10,000A 200,000A (20% PF max.)
at 450 V rms ac <u>2/</u>	3,000A (50% PF max.) <u>3/</u>	N/A

1/ Overload is shown as a percentage of the current rating of the fuse.

2/ Characteristic A fuses may be used for 450 V rms ac.

3/ Power factor (PF).

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

TABLE II Type designations and electrical rating. <sup>1/</sup>

Style	Characteristic	Maximum voltage	Current rating
F16	A	250V	35A
F16	A	250V	40A
F16	A	250V	45A
F16	A	250V	50A
F16	A	250V	60A
F16	BR <sup>2/</sup>	250V	35A
F16	BR <sup>2/</sup>	250V	40A
F16	BR <sup>2/</sup>	250V	45A
F16	BR <sup>2/</sup>	250V	50A
F16	BR <sup>2/</sup>	250V	60A

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

<sup>2/</sup> The characteristic B fuse has been discontinued. The characteristic BR fuse may be used to replace the old characteristic B fuse of the same current rating.

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.

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 - 11  
 DLA - CC

Preparing activity:  
 DLA - CC  
 (Project 5920-0716)

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