

INCH-POUND

MIL-PRF-15160/20F

15 November 2011

SUPERSEDING

MIL-PRF-15160/20E

7 July 2006

PERFORMANCE SPECIFICATION SHEET

FUSES, INSTRUMENT, POWER, AND TELEPHONE
(NONINDICATING), STYLE F20

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](#).

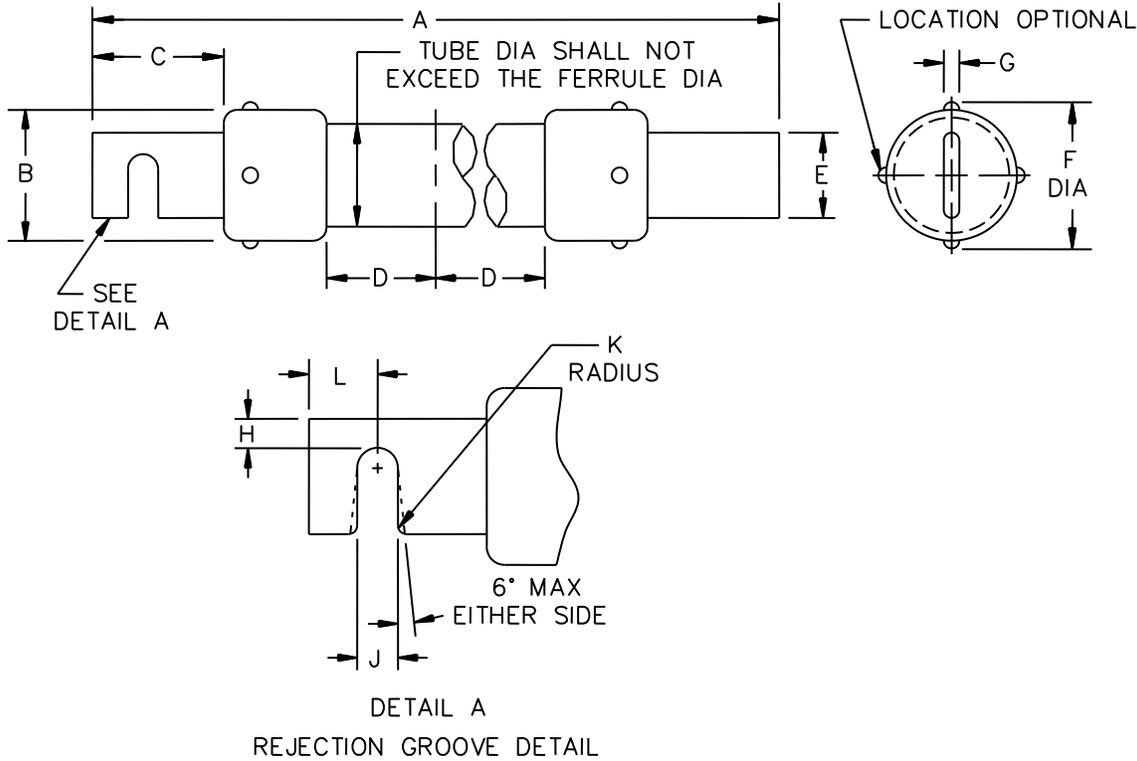


FIGURE 1. Style F20, characteristic BR.

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Ltr	Inches		mm	
	Min	Max	Min	Max
A	7.063	7.187	179.40	182.55
B	---	1.688	---	42.88
C	1.375	---	34.93	---
D	1.188	---	30.18	---
E	.990	1.160	25.15	29.46
F	---	1.876	---	47.65
G	.165	.171	4.19	4.34
H	.407	.469	10.34	11.91
J	.276	.306	7.01	7.77
K	---	.125	---	3.18
L	.622	.754	15.80	19.15

NOTES:

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

FIGURE 1. Style F20 characteristic BR - Continued.

REQUIREMENTS:

Interface and physical dimensions: See figure 1.

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 1,900 pounds per square inch).

Knifeblade: Copper.

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).

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

TABLE I Electrical requirements.

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

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

2/ Power factor (PF).

TABLE II. Allowable temperature rise in degrees Celsius (°C).

Casing of body		Terminals	
Thermometer	Thermocouple	Thermometer	Thermocouple
50 °C	90 °C	60 °C	90 °C

Part or Identifying Number (PIN): The PIN shall be constructed from table III (e.g., F20BR250V110A).

TABLE III Part or Identifying Number. 1/ 2/

Style	Characteristic	Maximum voltage	Current rating
F20	BR <u>3/</u>	250 V	110A
F20	BR <u>3/</u>	250 V	125A
F20	BR <u>3/</u>	250 V	150A
F20	BR <u>3/</u>	250 V	175A
F20	BR <u>3/</u>	250 V	200A

1/ For silver plated terminals, the designator “S” is added after the current rating.

2/ The characteristic A fuse has been discontinued without replacement.

3/ 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.

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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.

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

[MIL-STD-202](#)

The margins of this specification 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
DLA - CC

Preparing activity:

DLA - CC

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Review activities:

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

NOTE: The activities listed above were interested in this document as of the date of this document. Since organizations and responsibilities can change, you should verify the currency of the information above using the ASSIST Online database at <https://assist.daps.dla.mil>.