

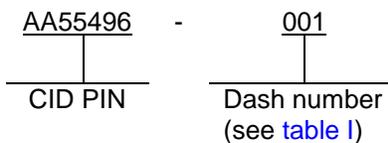
[INCH-POUND]
A-A-55496E
19 November 2015
SUPERSEDING
A-A-55496D
17 February 2011

COMMERCIAL ITEM DESCRIPTION

FUSE CARTRIDGE, SEMICONDUCTOR TYPE, 700 VOLTS

The General Services Administration has authorized the use of this commercial item description for all federal agencies.

1. **SCOPE.** This commercial item description (CID) covers the general requirements for 700 volt semiconductor type fuse cartridges. Fuse cartridges covered by this CID are intended for commercial/industrial applications.
2. **CLASSIFICATION/PART OR IDENTIFICATION NUMBER (PIN).** This CID uses a classification system which is included in the PIN as shown in the following example (see 7.1).



3. SALIENT CHARACTERISTICS.

- 3.1 Interface and physical dimensions. Fuse cartridges supplied to this CID shall be as specified herein (see [figure 1](#) and [figure 2](#)).
- 3.2 Ampere rating. The ampere rating shall be as specified in [table I](#).
- 3.3 Voltage rating. The voltage rating shall be 700 V ac maximum.
- 3.4 Short circuit interrupt rating. The short circuit interrupt shall be 200,000 amperes root mean square (RMS) symmetrical.
- 3.5 Maximum current clearing I^2t . The maximum current clearing I^2t shall be as specified in [table I](#).
- 3.6 Marking. Fuse cartridges supplied to this CID shall be marked with the manufacturer's (MFR's) standard commercial PIN. (NOTE: The part number marked on the unit pack shall be the CID PIN.)

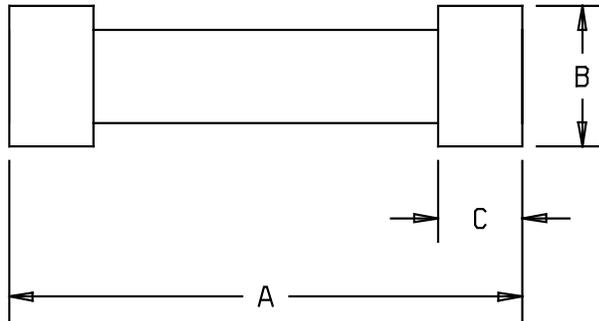
Beneficial comments, recommendations, additions, deletions, clarifications, etc., and any data that may improve this document should be sent to: DLA Land and Maritime, ATTN: DLA Land and Maritime -VAT, P.O. Box 3990, Columbus, OH 43218-3990, or email CircuitProtect@dla.mil. Since contact information can change you may want to verify the currency of the address information using the ASSIST Online database at <https://assist.dla.mil>.

AMSC N/A

FSC 5920



A-A-55496E



AA55496-	Dimensions		
	A	B	C
001 through 006	2.000 (50.80)	.563 (14.30)	.505 (12.83)

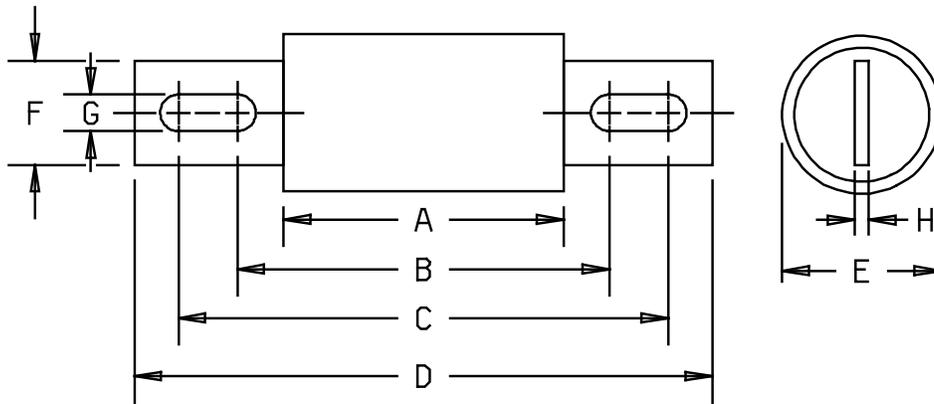
Configuration A

NOTES:

1. Dimensions are in inches.
2. Unless otherwise specified, tolerance is ± 0.005 inch (0.13 mm).

FIGURE 1. Configuration A and dimensions.

A-A-55496E



AA55496-	Dimensions							
	A	B	C	D	E	F	G	H
007 through 011	2.879 (73.13)	3.568 (90.63)	3.784 (96.11)	4.375 (111.12)	1.005 (25.53)	.751 (19.08)	.349 (8.86)	.126 (3.20)
	2.307 (58.60)	3.432 (87.17)	3.683 (93.55)		.870 (22.10)		.307 (7.80)	
012 through 014	2.880 (73.15)	3.568 (90.63)	3.785 (96.14)	4.375 (111.12)	1.220 (30.99)	1.005 (25.53)	.348 (8.84)	.188 (4.78)
	2.837 (72.06)	3.432 (87.17)	3.674 (93.32)		.745 (18.92)		.306 (7.77)	
015 through 017	2.843 (72.21)	3.661 (92.99)	4.194 (106.53)	5.094 (129.39)	1.500 (38.10)	1.000 (25.40)	.406 (10.31)	.251 (6.38)
		3.495 (88.77)	4.151 (105.43)					
018 through 021	2.843 (72.21)	3.661 (92.99)	4.285 (108.84)	5.094 (129.39)	2.000 (50.80)	1.500 (38.10)	.406 (10.31)	.251 (6.38)
		3.495 (88.77)	4.151 (105.43)					
022 through 023	2.843 (72.21)	4.911 (124.74)	5.726 (145.44)	7.094 (180.19)	2.500 (63.50)	2.000 (50.80)	.531 (13.49)	.375 (9.53)
		4.184 (106.27)	5.245 (133.22)					

Configuration B

NOTES:

1. Dimensions are in inches.
2. Unless otherwise specified, tolerance is $\pm .005$ inch (0.13 mm).

FIGURE 2. Configuration B and dimensions.

TABLE I. Electrical characteristics.

AA55496-	Ampere rating	I^2t (A ² s)	AA55496-	Ampere rating	I^2t (A ² s)
001	5	750	013	80	15,000
002	10	1,150	014	100	17,000
003	15	1,500	015	125	31,000
004	20	1,800	016	150	50,000
005	25	2,000	017	200	70,000
006	30	2,800	018	250	100,000
007	35	3,500	019	300	130,000
008	40	4,500	020	350	200,000
009	45	6,100	021	400	280,000
010	50	8,000	022	500	360,000
011	60	10,000	023	600	460,000
012	70	12,500			

3.7 Recycled, recovered, or environmentally preferable, or biobased materials. Recycled, recovered, or environmentally preferable, or biobased materials should be used to the maximum extent possible provided that the material meets or exceeds the operational and maintenance requirements, and promotes economically advantageous life cycle costs.

3.8 Workmanship. Fuse cartridges shall be processed in such a manner as to be uniform in quality and shall be free from other defects that will affect life, serviceability, or appearance.

4. REGULATORY REQUIREMENTS. The offeror/contractor is encouraged to use recovered materials to the maximum extent practicable, in accordance with 23.403 of the Federal Acquisition Regulation (FAR).

5. PRODUCT CONFORMANCE PROVISIONS

5.1 Product conformance. The products provided shall meet the salient characteristics of this CID, conform to the producer's own drawings, specifications, standards, and quality assurance practices, and be the same product offered for sale in the commercial market. The Government reserves the right to require proof of such conformance.

5.2 Market acceptance. The following market acceptance criteria are necessary to document the quality of the product to be provided under this CID:

- a. The company producing the item must have been producing a product meeting the requirements of this CID for at least 2 years.
- b. The company producing the item must have sold 1,000 units meeting this CID in the commercial marketplace over the past 2 years.

6. PACKAGING. Preservation, packing, and marking shall be as specified in the contract or order.

7. NOTES.

7.1 PIN. The PIN should be used for Government purposes to buy commercial products to this CID. See the classification section for PIN format example.

7.2 Environmentally preferable material. Environmentally preferable materials should be used to the maximum extent possible to meet the requirements of this specification. As of the dating of this document, the U.S. Environmental Protection Agency (EPA) is focusing efforts on reducing 31 priority chemicals. The list of chemicals is available on their website at <http://www.epa.gov/osw/hazard/wastemin/priority.htm>. Use of these materials on the list should be minimized or eliminated unless needed to meet the requirements specified herein (see [Section 3](#)).

7.3 Commercial and Government Entity (CAGE) code. For ordering purposes, inventory control, and submission of these fuse cartridges to DLA Land and Maritime under the Military Parts control Advisory Group (MPCAG) evaluation program, CAGE code 58536 should be used.

7.4 Source of documents.

FEDERAL REGULATIONS

FAR - Federal Acquisition Regulations (FAR).

(Copies of this document are available online at <https://www.acquisition.gov/comp/far/index.html> or from the U.S. Government Printing Office, 732 North Capital Street, NW, Washington D.C. 20401-0001.)

7.5 Ordering data. The contract or order should specify the following:

- a. CID document number, revision, and CID PIN.
- b. Product conformance provisions.
- c. Packaging requirements.

7.6 Commercial products. As part of the market analysis and research effort, this CID was coordinated with the following manufacturers of commercial products. At the time of CID preparation and coordination, these manufacturers were known to have commercial products that would meet the requirements of this CID. (NOTE: This information should not be considered as a list of approved manufacturers or be used to restrict procurement to only the manufacturers shown.)

<u>MFR's CAGE</u>	<u>MFR's name and address</u>
067U2	DENCO Fuses, Incorporated 8244 S.W. 103 Avenue Miami, FL 33173-3906 Phone number: (305) 273-6226 Facsimile number: (305) 273-4335 E-mail: info@dencofuses.com Uniform Resource Locator (URL): http://www.dencofuses.com
71400	Cooper Bussmann, LLC 114 Old State Road Ellisville, MO 63021-5915 Phone number (636) 394-2877 Facsimile number (636) 527-1415 E-mail: BussCustS@eaton.com URL: http://www.eaton.com
71424	Mersen 374 Merrimac Street Newburyport, MA 01950-1930 Phone number: 978-462-6662 E-mail: technicalservices.nby@mersen.com URL: http://www.ep-us.mersen.com/
75915	Littelfuse Incorporated 8755 W. Higgins Road, Suite 500 Chicago, IL 60631-2701 Phone number (773) 628-1000 E-mail: electronics@littelfuse.com URL: http://www.littelfuse.com

7.7 Part number (P/N) supersession data. These CID PINs supersede the following MFR's P/N's as shown. This information is being provided to assist in reducing proliferation in the Government inventory system.

TABLE III. P/N supersession data.

CID dash number (see table I) AA55496-	Vendor Commercial P/N ^{1/}			
	CAGE 067U2	CAGE 71424	CAGE 71400	CAGE 75915
001	UFR70P005	---	FWP-5A14F	---
002	UFR70P010	A070P10-1	FWP-10A14F	L70S10
003	UFR70P015	A070P15-1	FWP-15A14F	L70S15
004	UFR70P020	A070P20-1	FWP-20A14F	L70S20
005	UFR70P025	A070P25-1	FWP-25A14F	L70S25
006	UFR70P030	A070P30-4	FWP-30A14F	L70S30
007	UFR70P035	A070P35-4	FWP 35A	L70S35
008	UFR70P040	A070P40-4	FWP 40A	L70S40
009	UFR70P045	A070P45-4	N/A	L70S45
010	UFR70P050	A070P50-4	FWP 50A	L70S50
011	UFR70P060	A070P60-4	FWP 60A	L70S60
012	UFR70P070	A070P70-4	FWP 70A	L70S70
013	UFR70P080	A070P80-4	FWP 80A	L70S80
014	UFR70P100	A070P100-4	FWP 100A	L70S100
015	UFR70P125	A070P125-4	FWP 125A	L70S125
016	UFR70P150	A070P150-4	FWP 150A	L70S150
017	UFR70P200	A070P200-4	FWP 200A	L70S200
018	UFR70P250	A070P250-4	FWP 250A	L70S250
019	UFR70P300	A070P300-4	FWP 300A	L70S300
020	UFR70P350	A070P350-4	FWP 350A	L70S350
021	UFR70P400	A070P400-4	FWP 400A	L70S400
022	UFR70P500	A070P500-4	FWP 500A	L70S500
023	UFR70P600	A070P600-4	FWP 600A	L70S600

^{1/} The manufacturer's P/N shall not be used for procurement to the requirements of this CID. At the time of preparation of this CID, the aforementioned commercial products were reviewed and could be replaced by the CID PIN shown. For actual part marking requirements see [3.6](#).

7.8 Government users. To acquire information on obtaining these fuses from the Government inventory system, contact DLA Land and Maritime, ATTN: DLA Land and Maritime-FMX, P.O. Box 3990, Columbus, OH 43218-3990, or telephone (614) 692-3677.

7.8.1 National stock number (NSN). The following is a list of NSN's assigned which correspond to this CID. The list is for information only and may not be indicative of all possible NSN's associated with the CID. For up to date information on assigned NSN's, please contact the aforementioned DLA Land and Maritime office (see 7.8).

TABLE IV. NSN's.

Dash number (see table I) AA55496-	NSN	Dash number (see table I) AA55496-	NSN
001	N/A	013	N/A
002	5920-01-354-3725	014	5920-01-067-2944
003	N/A	015	5920-01-328-8944
004	5920-01-245-3584	016	N/A
005	5920-01-162-8556	017	5920-01-121-1141
006	5920-01-203-3915	018	5920-01-172-8452
007	N/A	019	N/A
008	5920-01-227-1877	020	5920-01-167-3312
009	N/A	021	5920-01-120-9088
010	5920-01-099-4694	022	N/A
011	5920-01-187-6099	023	N/A
012	5920-01-289-4825		

7.9 Changes from previous issue. Marginal notations are not used in this revision to identify changes with respect to the previous issue due to the extensiveness of the changes.

MILITARY INTERESTS:

Custodians:
Navy - EC
DLA - CC

CIVIL AGENCY COORDINATING ACTIVITY:

GSA - FAS

Preparing activity:

DLA-CC

Project 5920-2016-005

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.dla.mil>.