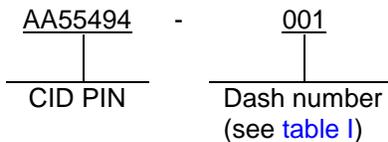


COMMERCIAL ITEM DESCRIPTION

FUSE CARTRIDGE, SEMICONDUCTOR TYPE, 250 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 250 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).



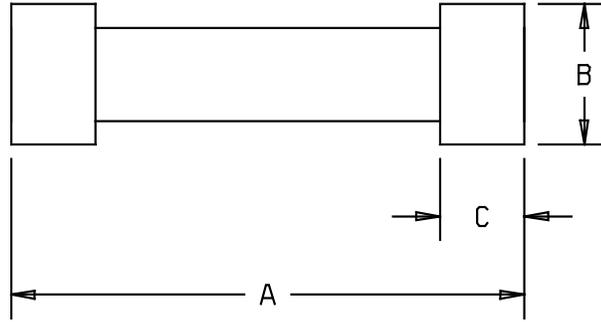
3. SALIENT CHARACTERISTICS.

- 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 250 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>.



A-A-55494E



AA55494-	Dimensions		
	A	B	C
001 through 006	2.00 (50.80)	.563 (14.30)	<u>.505</u> 12.83 .432 (10.97)

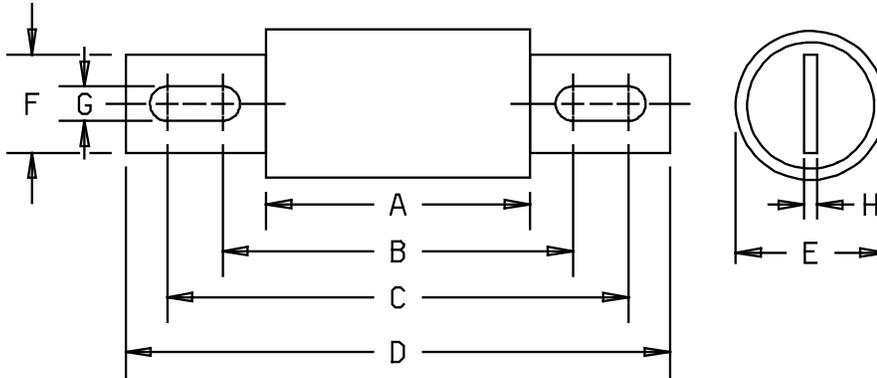
Configuration A

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-55494E



AA55494-	Dimensions							
	A	B	C	D	E	F	G	H
007 through 011	1.631 (41.43)	2.261 (57.43)	2.600 (66.04)	3.188 (80.98)	.813 (20.65)	.755 (19.18)	.343 (8.71)	.180 (4.57)
	1.557 (39.55)		2.495 (63.37)			.621 (15.77)		
012 through 017	1.631 (41.43)	2.333 (59.26)	2.437 (61.90)	3.126 (79.40)	1.219 (30.96)	1.000 (25.40)	.349 (8.86)	1.88 (4.78)
	1.589 (4.036)	2.184 (55.47)				.750 (19.05)		
018 through 023	1.594 (40.49)	2.41 (61.21)	2.942 (74.73)	3.843 (97.61)	1.500 (38.10)	1.000 (25.40)	.406 (10.31)	.251 (6.38)
		2.247 (57.07)	2.900 (73.66)					

Configuration B

NOTES:

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

FIGURE 2. Configuration B and dimensions.

TABLE I. Electrical characteristics.

AA55494-	Ampere rating	I ² t (A ² s)	AA55494-	Ampere rating	I ² t (A ² s)
001	5	100	013	80	3,000
002	10	200	014	100	5,000
003	15	250	015	125	7,500
004	20	300	016	150	12,000
005	25	350	017	200	20,000
006	30	390	018	250	38,000
007	35	460	019	300	55,000
008	40	560	020	350	73,000
009	45	720	021	400	100,000
010	50	880	022	500	190,000
011	60	1,300	023	600	260,000
012	70	2,200			

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): https://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) AA55494-	Vendor Commercial P/N ^{1/}			
	CAGE 067U2	CAGE 71424	CAGE 71400	CAGE 75915
001	UFR25X005	A25X5-1	FWX 5A14F	L25S5
002	UFR25X010	A25X10-1	FWX 10A14F	L25S10
003	UFR25X015	A25X15-1	FWX 15A14F	L25S15
004	UFR25X020	A25X20-1	FWX 20A14F	L25S20
005	UFR25X025	A25X25-1	FWX 25A14F	L25S25
006	UFR25X030	A25X30-1	FWX 30A14F	L25S30
007	UFR25X035	A25X35-4	FWX 35A	L25S35
008	UFR25X040	A25X40-4	FWX 40A	L25S40
009	UFR25X045	A25X45-4	FWX 45A	L25S45
010	UFR25X050	A25X50-4	FWX 50A	L25S50
011	UFR25X060	A25X60-4	FWX 60A	L25S60
012	UFR25X070	A25X70-4	FWX 70A	L25S70
013	UFR25X080	A25X80-4	FWX 80A	L25S80
014	UFR25X100	A25X100-4	FWX 100A	L25S100
015	UFR25X125	A25X125-4	FWX 125A	L25S125
016	UFR25X150	A25X150-4	FWX 150A	L25S150
017	UFR25X200	A25X200-4	FWX 200A	L25S200
018	UFR25X250	A25X250-4	FWX 250A	L25S250
019	UFR25X300	A25X300-4	FWX 300A	L25S300
020	UFR25X350	A25X350-4	FWX 350A	L25S350
021	UFR25X400	A25X400-4	FWX 400A	L25S400
022	UFR25X500	A25X500-4	FWX 500A	L25S500
023	UFR25X600	A25X600-4	FWX 600A	L25S600

^{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 fuse cartridges 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) AA55494-	NSN	Dash number (see table I) AA55494-	NSN
001	5920-00-615-7624	013	N/A
002	N/A	014	5920-01-433-3378
003	5920-00-843-9007	015	N/A
004	5920-00-617-9694	016	5920-00-775-7994
005	N/A	017	N/A
006	5920-00-778-7313	018	5920-00-615-7625
007	5920-01-354-6243	019	N/A
008	5920-01-195-7254	020	N/A
009	5920-01-327-6414	021	N/A
010	5920-00-890-8999	022	N/A
011	N/A	023	5920-00-768-4388
012	N/A		

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 5920-2016-003

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>.