

[INCH-POUND]
A-A-55495E
19 November 2015

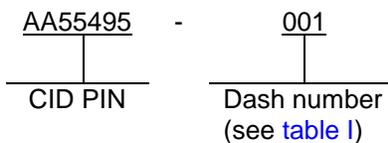
SUPERSEDING
A-A-55495D
17 February 2011

COMMERCIAL ITEM DESCRIPTION

FUSE CARTRIDGE, SEMICONDUCTOR TYPE, 500 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 500 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).



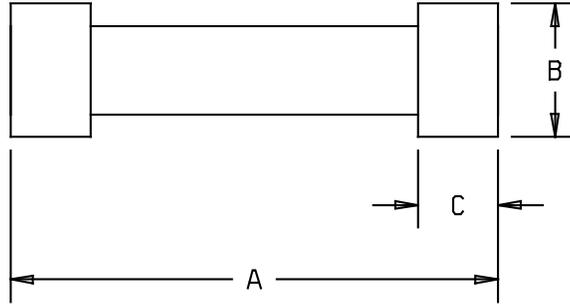
3. SALIENT CHARACTERISTICS.

- 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 500 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>.



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AA55495-	Dimensions		
	A	B	C
001 through 006	2.00 (50.80)	.563 (14.30)	.505 (12.83)

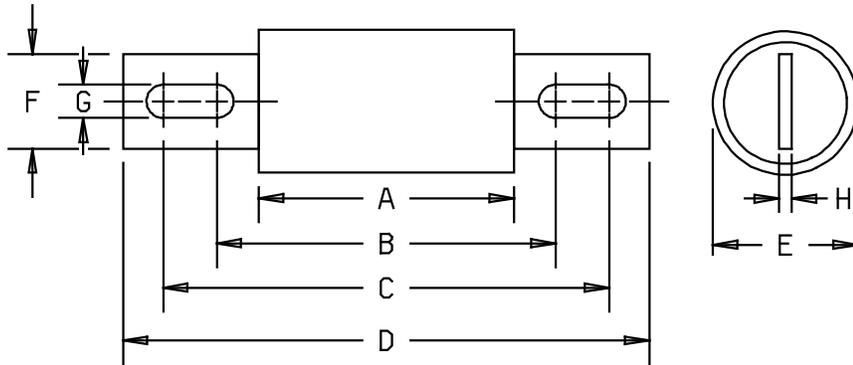
Configuration A

NOTES:

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

FIGURE 1. Configuration A and dimensions.

A-A-55495E



AA55495-	Dimensions							
	A	B	C	D	E	F	G	H
007 through 011	1.630 (41.40)	2.251 (57.18)	2.600 (66.04)	3.188 (80.98)	.813 (20.65)	.780 (19.81)	.343 (8.71)	.126 (3.20)
	1.557 (39.55)		2.495 (63.37)		.768 (19.50)	.621 (15.77)		
012 through 014	2.124 (53.95)	2.833 (71.96)	3.037 (77.14)	3.626 (92.10)	1.000 (25.40)	.751 (19.08)	.348 (8.84)	.126 (3.20)
		2.684 (68.17)	2.932 (74.47)			.307 (7.80)		
015 through 017	2.131 (54.13)	2.833 (71.96)	2.934 (74.52)	3.626 (92.10)	1.220 (30.99)	1.005 (25.53)	.348 (8.84)	.188 (4.78)
	2.089 (53.06)	2.745 (69.72)				.745 (18.92)	.306 (7.77)	
018 through 021	2.094 (53.19)	2.786 (70.76)	3.442 (87.43)	4.343 (110.31)	1.500 (38.10)	1.000 (25.40)	.406 (10.31)	.251 (6.38)
		2.774 (70.46)						
022 through 023	2.226 (56.54)	3.036 (77.11)	3.531 (89.69)	4.474 (113.64)	2.000 (50.80)	1.500 (38.10)	.406 (10.31)	.251 (6.38)
	2.089 (53.06)	2.774 (70.46)		4.337 (110.16)				
024	2.226 (56.54)	4.320 (109.73)	4.974 (126.34)	6.474 (164.44)	2.500 (63.50)	2.000 (50.80)	.531 (13.49)	.375 (9.53)
	2.089 (53.06)	3.432 (87.17)	4.620 (117.35)	6.337 (160.96)	2.380 (60.45)			

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.

AA55495-	Ampere rating	I_t^2 (A ² s)	AA55495-	Ampere rating	I_t^2 (A ² s)
001	5	100	013	80	5,000
002	10	200	014	100	7,500
003	15	250	015	125	10,600
004	20	300	016	150	16,000
005	25	350	017	200	28,000
006	30	400	018	250	50,000
007	35	2,000	019	300	60,000
008	40	2,250	020	350	80,000
009	45	2,500	021	400	120,000
010	50	2,750	022	500	190,000
011	60	3,000	023	600	300,000
012	70	4,000	024	800	600,000

3.7 Recycled, recovered, environmentally preferable, or biobased materials. Recycled, recovered, 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) AA55495-	Vendor commercial PIN CAGE 067U2	Vendor commercial PIN CAGE 71424	Vendor commercial PIN CAGE 71400	Vendor commercial PIN CAGE 75915
001	UFR50P005	---	FWH 5A14F	---
002	UFR50P010	A50P10-1	FWH 10A14F	L50S10
003	UFR50P015	A50P15-1	FWH 15A14F	L50S15
004	UFR50P020	A50P20-1	FWH 20A14F	L50S20
005	UFR50P025	A50P25-1	FWH 25A14F	L50S25
006	UFR50P030	A50P30-1	FWH 30A14F	L50S30
007	UFR50P035	A50P35-4	FWH 35A	L50S35
008	UFR50P040	A50P40-4	FWH 40A	L50S40
009	UFR50P045	A50P45-4	FWH 45A	L50S45
010	UFR50P050	A50P50-4	FWH 50A	L50S50
011	UFR50P060	A50P60-4	FWH 60A	L50S60
012	UFR50P070	A50P70-4	FWH 70A	L50S70
013	UFR50P080	A50P80-4	FWH 80A	L50S80
014	UFR50P100	A50P100-4	FWH 100A	L50S100
015	UFR50P125	A50P125-4	FWH 125A	L50S125
016	UFR50P150	A50P150-4	FWH 150A	L50S150
017	UFR50P200	A50P200-4	FWH 200A	L50S200
018	UFR50P250	A50P250-4	FWH 250A	L50S250
019	UFR50P300	A50P300-4	FWH 300A	L50S300
020	UFR50P350	A50P350-4	FWH 350A	L50S350
021	UFR50P400	A50P400-4	FWH 400A	L50S400
022	UFR50P500	A50P500-4	FWH 500A	L50S500
023	UFR50P600	A50P600-4	FWH 600A	L50S600
024	UFR50P800	A50P800-4	FWH 800A	L50S800

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) AA55495-	NSN	Dash number (see table I) AA55495-	NSN
001	N/A	013	5920-00-435-1938
002	5920-01-191-9846	014	5920-00-422-0139
003	N/A	015	5920-00-396-8339
004	5920-00-174-1121	016	5920-00-421-5655
005	5920-01-191-9847	017	5920-00-762-0620
006	5920-01-150-3498	018	5920-00-237-0995
007	5920-01-118-9136	019	5920-01-012-6202
008	N/A	020	5920-00-435-1936
009	N/A	021	5920-00-458-6388
010	5920-01-182-4739	022	5920-00-162-1041
011	5920-00-038-6892	023	5920-00-241-6802
012	N/A	024	5920-01-029-6991

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 5920-2016-004

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>.