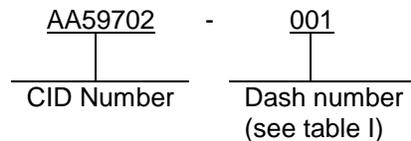


## COMMERCIAL ITEM DESCRIPTION

### FUSE, INCLOSED LINK, SURFACE MOUNT (SM), 350 V AC

The General Services Administration has authorized the use of this Commercial Item Description (CID) for all federal agencies.

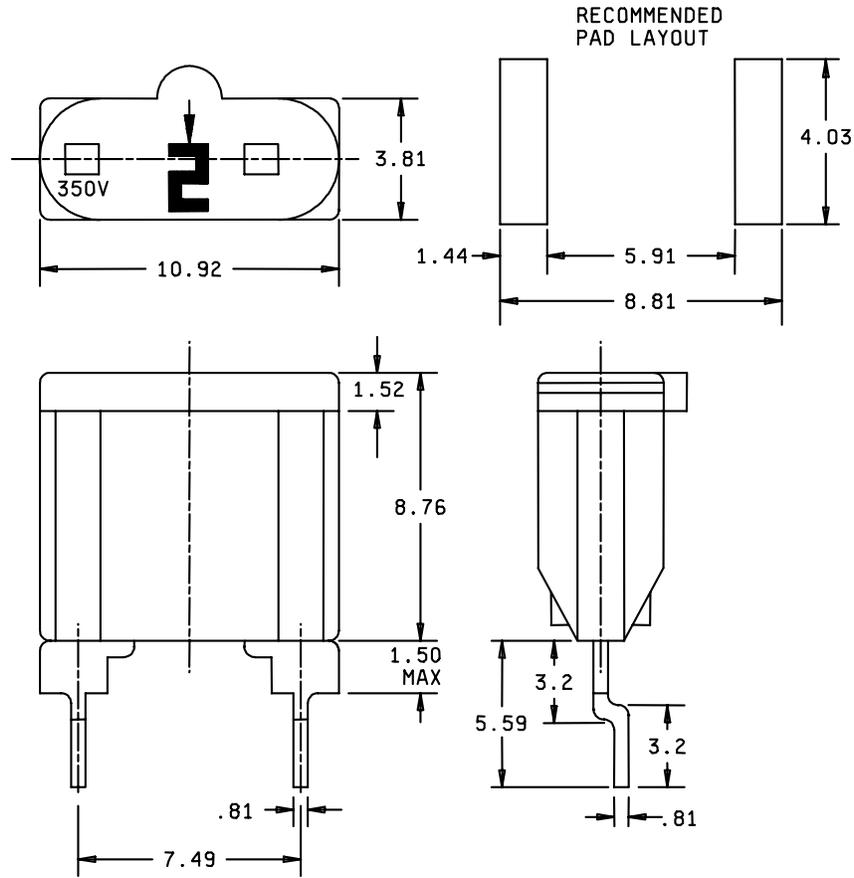
1. **SCOPE.** This CID covers the general requirements for 350 volts ac surface mount inclosed link fuses. Fuses covered by this CID are intended for commercial/industrial applications.
2. **CLASSIFICATION.** This CID uses a classification system that is included in the Part Identification Number (PIN) as shown in the following example (see 7.1).



### 3. SALIENT CHARACTERISTICS.

- 3.1 Interface and physical dimensions. Fuses supplied to this CID shall be as specified herein (see figure 1).
- 3.2 Ampere rating. The ampere rating shall be as specified in table I.
- 3.3 Voltage rating. The voltage rating shall be 350 V ac maximum.
- 3.4 Short circuit interrupt rating. The short circuit interrupt rating shall be 100 amperes at 350 V ac, 50 amperes at 125 V dc and 450 amperes at 60 V dc.
- 3.5 Operating temperature. The operating temperature shall be -40°C (-40°F) to +125°C (257°F).
- 3.6 Physical specifications.
  - 3.6.1 Materials. Fuses shall have a plastic body with tin-lead (95/5) plated Zn, Ni barrier terminations.
  - 3.6.2 Solderability. Fuses shall meet solderability requirements in accordance with method 208 of MIL-STD-202. Non-plated terminal surfaces may not meet MIL-STD-202, method 208.

Beneficial comments recommendations, additions, deletions, clarifications, etc., and any data which may improve this document should be addressed to: Defense Supply Center, Columbus, ATTN: DSCC-VAT, Post Office Box 3990, Columbus, OH 43216-5000, or telephone (614) 692-0548, or facsimile (FAX) (614) 692-6939.



mm	Inches	mm	Inches
0.81	0.032	4.52	0.178
1.44	0.057	5.59	0.220
1.50	0.059	5.91	0.233
1.52	0.060	7.49	0.295
3.20	0.126	8.76	0.345
3.81	0.150	8.81	0.347
4.03	0.159	10.92	0.430

NOTES:

1. Dimensions are in millimeters.
2. Tolerance is  $\pm 0.15$  mm (0.006 inch), unless otherwise specified.

Figure 1. Configuration and dimensions.

TABLE I. Electrical characteristics.

AA59702-	Ampere rating	Nominal cold resistance (Ohms)	Nominal melting $I^2t$ ( $A^2 \text{sec.}$ )
001	2	0.0560	2.8
002	3	0.0340	9.4
003	4	0.0240	17
004	5	0.0180	25
005	7.5	0.0110	68
006	10	0.0073	93

3.6.3 Soldering parameters. Fuses shall be able to withstand, without electrical or mechanical damage to the fuse, a reflow solder of +235°C (+446°F) for 5 seconds maximum. Wave solder is not recommended.

TABLE III. Rating versus opening time.

Ampere rating	Percent of ampere rating	Opening time
All ampere ratings	100 percent	4 hours, minimum.
	200 percent	0.15 second, minimum; 5 seconds maximum.

3.7 Marking. Fuses supplied to this CID shall be marked with the manufacturer's standard commercial PIN.

4. REGULATORY REQUIREMENTS. The offeror/contractor is encouraged to use recovered materials to the maximum extent practicable, in accordance with paragraph 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 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. In addition, inclosed link fuses may be supplied individually or in a quantity of 800 on a 24 mm (.945 inches) wide tape reel in accordance with EIA-RS 481.

#### 7. NOTES.

7.1 PIN. The PIN should be used for Government purposes to buy commercial products to this CID. See section 2 for PIN format example.

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

7.3 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.

7.4 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>
75915	Littelfuse Incorporated 800 E. Northwest Highway Des Plaines, IL 60016-3096 Phone number: (847) 824-1188 Facsimile number: (847) 391-0894 E-mail: electronics@littelfuse.com URL: www.littelfuse.com

7.5 Part number (P/N) supersession data. This CID supersedes the following manufacturers' 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 AA59702- (see table I)	MFR's CAGE	MFR's P/N <sup>1/</sup>
001	75915	446002
002	75915	446003
003	75915	446004
004	75915	446005
005	75915	44607.5
006	75915	446010

<sup>1/</sup> 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 P/N shown. For actual part marking requirements, see 3.7.

7.6 Government users. To acquire information on obtaining these fuses from the Government inventory system, contact Defense Supply Center, Columbus, ATTN: DSCC-CSBB, Post Office Box 3990, Columbus, OH 43216-5000, or telephone (614) 692-7625.

MILITARY INTERESTS:

Custodians:  
Navy - EC

CIVIL AGENCY COORDINATING ACTIVITY:

GSA - 7FXE

Preparing Activity:

DLA-CC

Project 5920-0747