

[INCH-POUND]
A-A-59590
November 27, 2000

COMMERCIAL ITEM DESCRIPTION

HOLDER, ELECTRICAL CARD, WEDGE RETAINERS, 3 PIECE,
SCREW ACTUATED DRIVE, GENERAL REQUIREMENTS FOR

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 a family of 3 piece card holders that use screw actuated wedge retainers to hold circuit card assemblies into their installed positions in heat sinking devices (cold plates, heat exchanger) or other applications. Card holders covered by this CID are intended to provide maximum contact between thermal paths on the circuit card assemblies and the heat sink surfaces and to provide resistance to shock and vibration. Requirements for specific card holders are covered in the individual CID specification sheet. Items covered by this CID are intended for commercial/industrial applications.

2. **CLASSIFICATION.** This CID uses a classification system which is included in the Part Identification Number (PIN) as shown in the following example (see 7.1).

<u>AA59590</u>	<u>/01</u>	<u>*</u>	<u>*</u>	<u>**</u>	<u>*</u>
CID number	Applicable CID sheet	Finish	Mounting	Length	Options

3. SALIENT CHARACTERISTICS.

3.1 **CID specification sheet.** The family of card holders for use on circuit card assemblies shall be in accordance with the requirements specified herein and the applicable CID specification sheet. In the event of conflict between this general CID and the applicable CID specification sheet, the latter shall govern.

3.2 **Performance.** Performance shall be as specified in the applicable CID specification sheet.

3.3 **Material.** A material shall be as specified herein and the applicable CID specification sheet.

3.3.1 **Body and wedges.** The body and wedge material shall be aluminum alloy.

Beneficial comments, recommendations, additions, deletions, clarifications, etc. and any data that may improve this document should be sent to: Defense Supply Center, Columbus, ATTN: DSCC/VAC, Post Office Box 3990, Columbus, OH 43216-5000, or facsimile (614) 693-6939, or electronic mail 5998_Documents@dsccl.dla.mil.

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3.4 Finish.

3.4.1 Body and wedges. The body and wedges finish shall be as specified in the following paragraphs. A finish designator shall be included in the PIN.

3.4.1.1 Chemical film. Chemical film finish is intended to provide corrosion prevention on aluminum and aluminum alloys. Chemical film finish parts shall include a suffix "C" in the PIN.

3.4.1.2 Black anodized. Black anodized finish is intended to improve surface corrosion under severe service conditions on aluminum and aluminum alloys. Black anodized finish parts shall include a suffix "B" in the PIN.

3.4.1.3 Hard black anodized. Hard black anodized finish is intended to provide wear and abrasion resistant surfaces with improved corrosion protection conditions on aluminum and aluminum alloys. Hard black anodized finish parts shall include a suffix "H" in the PIN.

3.5 Interface and physical dimensions. The card holders shall be as specified herein and the applicable CID specification sheet. NOTE: Tolerances, unless otherwise specified, shall be .xxx = ± 0.10 (0.25 mm) and .xx = ± 0.02 (0.51 mm).

3.5.1 Screw. The screw shall have a 3/32-inch hex internal socket head for tool engagement and shall turn clockwise to secure the card holder and circuit card assembly into the applicable fixture. The screw head, screw threads, and associated hardware shall not protrude more than .40 inches (10.16 mm) beyond the ends of the body and wedge assembly when the assembly is fully expanded.

3.5.2 Mounting options. The mounting options shall be as specified in the following paragraphs. Mounting option designators shall be included in the PIN (see table I).

3.5.2.1 No mounting holes. No mounting holes option is intended to be used when card holders are to be mounted with adhesives. No mounting holes option wedge retainer parts shall include a suffix "N" in the PIN (see table I).

3.5.2.2 Mounting holes. When two mounting holes are required, the holes shall be spaced as indicated in the applicable CID specification sheet. Holder assemblies greater than 6.00 inches (152.4 mm) in length require a third hole centered on the body.

3.5.2.2.1 Counterbore holes. Counterbore holes shall be .066/.073 inch diameter countersunk 100° by .140 inch diameter through holes with an access/clearance hole of .156 inch diameter by .200 inch deep. Counterbore holes style wedge retainer parts shall include a suffix "J" or "K" in the PIN (see table I).

3.5.2.2.2 Tapped holes. Tapped holes shall be 0-80 UNF or 2-56 UNC through holes. Tapped holes style wedge retainer parts shall include a suffix "T", "V", "R", or "S", respectively in the PIN (see table I).

TABLE I Mounting Hole Options.

PIN Designation	Mounting Hole Option
N	No mounting holes
J	Counterbore through holes 2 places
T	Tapped 0-80 UNF holes 2 places
V	Tapped 2-56 UNC holes 2 places
K	Counterbore through holes 3 places
R	Tapped 0-80 UNF holes 3 places
S	Tapped 2-56 UNC holes 3 places

3.5.3 Expanded and relaxed dimensions. Expanded and relaxed dimensions shall be as specified in the applicable CID specification sheet.

3.5.4 Length. Card holders length shall be the length of the body and wedge assembly (not to include hardware protrusion) in its relaxed state. Card holders length designator shall be included in the PIN.

Examples of length designation (13th and 14th characters of PIN):

2.80 inch card holder = AA59590/01CN28W;

5.30 inch card holder = AA59590/01CN53W;

6.70 inch card holder = AA59590/01CN67W.

3.5.5 Options. Card holders may have the following options.

3.5.5.1 Lockwasher and flatwasher. A lockwasher and flatwasher located under the screw head will provide for additional resistance to loosening from shock and vibration. Card holders requiring a lockwasher and flatwasher option shall include a suffix "W" in the PIN.

3.5.5.2 Screw self-locking element. The use of a screw self-locking element will provide prevailing torque for resistance to loosening from shock vibration. Card holders requiring a screw self-locking element shall include a suffix "E" in the PIN.

3.5.5.3 Lockwasher, flatwasher, and screw self-locking element. Card holders requiring a lockwasher, flatwasher, and screw self-locking element option shall include a suffix "D" in the PIN.

3.5.6 Disassembly. Card holders shall have the capability of being disassembled before or after mounting.

3.6 Marking. Card holders 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, quality assurances practices, and be the same product offered for sale in the commercial marketplace. 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 18 months.
- b. The company producing the item must have sold 2,500 units meeting the requirements of this CID in the commercial marketplace over the past 12 months.

5.3 Inspection Requirements. Inspection and acceptance of material shall be in accordance with the requirements cited in the contract or purchase request.

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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 section 2 for of PIN format example.

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

7.3 Source of documents. This section is not applicable to this CID.

7.4 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.

7.5 Government users. To acquire information on obtaining these card holders from the Government inventory system, contact Defense Supply Center, Columbus, ATTN: DSCC-CAC, Post Office Box 3990, Columbus, OH 43216-5000, or telephone (614) 692-7444/7435.

MILITARY INTERESTS:

Custodians:

Air Force - 11
Army - CR
DLA - CC
Navy - EC

CIVIL AGENCY COORDINATING ACTIVITY:

GSA - 7FXE

Preparing Activity

DLA - CC

Project 5998-0097