

[INCH-POUND]
A-A-59812
20 May 2008

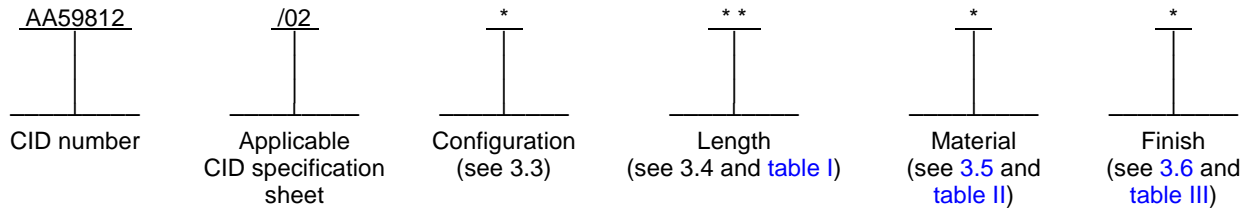
COMMERCIAL ITEM DESCRIPTION

HOLDER, ELECTRICAL CARD, METAL CARD GUIDE, MULTIPLE PIECE, GENERAL REQUIREMENTS FOR

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 a family of metal card guides (hereafter referred to as card guides) intended for use to guide and hold circuit card assemblies into their installed positions. Card guides covered by this CID are for moderate heat transfer and vibration applications. Requirements for specific card guides are covered in the individual CID specification sheets. Card guides 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 Part Identification Number (PIN) as shown in the following example (see 7.1).



3. SALIENT CHARACTERISTICS.

3.1 **CID specification sheet.** The family of card guides 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 **Interface and physical dimensions.** Card guides shall be as specified herein and in the applicable CID specification sheet. NOTE: Tolerances, unless otherwise specified, are ± 0.02 inch (0.5 mm) for two place decimals and ± 0.010 (0.25 mm) for three place decimals.

3.3 **Configuration.** The card guide configuration shall be as specified in the applicable CID specification sheet. The card guide configuration designator(s) from the applicable CID specification sheet shall be included in the PIN.

3.4 **Length.** Unless otherwise specified in the applicable CID specification sheet, overall length shall be as defined in table I. Overall length designator from table I shall be included in the PIN.

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 43218-3990, or facsimile (614) 693-1642, or electronic mail 5998.Documents@dscclia.mil. Since contact information can change, you may want to verify the currency of the address information using the ASSIST Online database at <http://assist.daps.dla.mil>.

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TABLE I. Standard lengths.

Length designator	Card guide overall length dimension "L" ^{1/}		Length designator	Card guide overall length dimension "L" ^{1/}	
	Inches	(mm)		Inches	(mm)
10	1.0	(25)	60	6.0	(152)
15	1.5	(38)	65	6.5	(165)
20	2.0	(51)	70	7.0	(178)
25	2.5	(64)	75	7.5	(191)
30	3.0	(76)	80	8.0	(203)
35	3.5	(89)	85	8.5	(216)
40	4.0	(102)	90	9.0	(229)
45	4.5	(114)	95	9.5	(241)
50	5.0	(127)	A0	10.0	(254)
55	5.5	(140)	A5	10.5	(267)

^{1/} See the applicable CID specification sheet for the actual lengths used.

3.5 Material. The materials shall be as specified herein and the applicable CID specification sheet. Unless otherwise specified in the applicable CID specification sheet, materials shall be as defined in table II.

3.5.1 Insert material.

3.5.1.1 Beryllium copper 1/4 H (temper TD01). Beryllium copper 1/4 H material shall be as defined in [ASTM B194](#), temper TD01, or equivalent. Card guides constructed of beryllium copper 1/4 H shall include a suffix "B" in the PIN.

3.5.1.2 Stainless steel 1/4 H (quarter hard). Stainless steel 1/4 H shall be as defined in [SAE AMS 5517](#), or equivalent. Card guides constructed of stainless steel 1/4 H shall include a suffix "C" in the PIN.

3.5.1.3 Phosphor bronze. Phosphor bronze shall be as defined in [ASTM B103/B103M](#) or [ASTM B139/B139M](#), or equivalent. Card guides constructed of phosphor bronze shall include a suffix "P" in the PIN.

TABLE II. Card guide insert material.

Material designator	Material type	Applicable specification	Paragraph
B	Beryllium copper 1 / 4 H	ASTM B194 , temper TD01	3.5.1.1
C	Stainless steel 1 / 4 H	SAE AMS 5517	3.5.1.2
P	Phosphor bronze	ASTM B103/B103M or ASTM B139/B139M	3.5.1.3

3.5.2 Housing material. The housing material shall be aluminum alloy 6061 temper T6 in accordance with [ASTM B221/B221M](#), [SAE AMS-QQ-A-200/8](#) or equivalent.

3.6 Finish.

3.6.1 Insert finish.

3.6.1.1 Beryllium copper and phosphor bronze inserts. Beryllium copper and phosphor bronze inserts do not require any finish.

3.6.1.2 Stainless steel inserts. Stainless steel inserts shall be passivate cleaned as defined in [ASTM A967](#), or equivalent.

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3.6.2 Housing finish. Unless otherwise specified in the applicable CID specification sheet, the housing finish shall be as defined in table III. Housing finish designator from table III shall be included in the PIN.

3.6.2.1 Black anodized. Black anodized finish provides good surface corrosion protection and medium abrasion resistance. Black anodize finish shall be in accordance with [MIL-A-8625](#), type II, class 2 or equivalent. Black anodized finish assemblies shall include a suffix "B" in the PIN.

3.6.2.2 Clear anodized. Clear anodized finish provides good surface corrosion protection and medium abrasion resistance. Clear anodize finish shall be in accordance with [MIL-A-8625](#), type II, class 2 or equivalent. Clear anodized finish assemblies shall include a suffix "C" in the PIN.

3.6.2.3 Gold anodized. Gold anodized finish provides good surface corrosion protection and medium abrasion resistance. Gold anodize finish shall be in accordance with [MIL-A-8625](#), type II, class 2 or equivalent. Gold anodized finish assemblies shall include a suffix "G" in the PIN.

3.6.2.4 Chemical film, clear. Clear chemical film finish provides corrosion prevention on aluminum and aluminum alloys. Clear chemical film finish shall be in accordance with [MIL-DTL-5541](#), class 3 or equivalent. Clear chemical film finish card guides shall include a suffix "C" in the PIN.

3.6.2.5 Chemical film, gold. Gold chemical film finish provides corrosion prevention on aluminum and aluminum alloys. Gold chemical film finish shall be in accordance with [MIL-DTL-5541](#), class 1A or equivalent. Gold chemical film finish card guides shall include a suffix "C" in the PIN.

3.6.2.6 No finish. Card guides with no finish applied to the housing shall include a suffix "N" in the PIN.

TABLE III. Housing finishes.

Finish designator	Finish	Applicable specification (or equivalent)	Paragraph
B	Anodize, black	MIL-A-8625 , type II, class 2	3.6.2.1
C	Anodize, clear	MIL-A-8625 , type II, class 2	3.6.2.2
G	Anodize, gold	MIL-A-8625 , type II, class 2	3.6.2.3
F	Chemical film, clear	MIL-DTL-5541 , class 3	3.6.2.4
Y	Chemical film, gold	MIL-DTL-5541 , class 1A	3.6.2.5
N	No finish		3.6.2.6

3.7 Marking. Card guides supplied to this CID shall be marked with the manufacturer's standard commercial PIN. The part number marked on the unit pack shall be the CID PIN.

3.8 Recycled, recovered, or environmentally preferable materials. Recycled, recovered, or environmentally preferable 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.

3.9 Workmanship. Card guides 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.

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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, quality assurances 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 36 months.
- b. The company producing the item must have sold 100 units meeting the requirements of this CID in the commercial marketplace over the past 36 months.

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

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 guides to DSCC under the Military Parts Control Advisory Group (MPCAG) evaluation program, CAGE code 58536 should be used.

7.3 Source of documents.

DEPARTMENT OF DEFENSE SPECIFICATION

MIL-DTL-5541	-	Chemical Conversion Coatings on Aluminum and Aluminum Alloys.
MIL-A-8625	-	Anodic Coatings for Aluminum and Aluminum Alloys.

(Copies of these documents are available online at <http://assist.daps.dla.mil/quicksearch/> or <http://assist.daps.dla.mil> or from the Standardization Document Order Desk, 700 Robbins Avenue, Building 4D, Philadelphia, PA 19111-5094.)

FEDERAL REGULATIONS

FAR	-	Federal Acquisition Regulations (FAR).
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(Copies of these documents are available online at <http://www.acquisition.gov/comp/far/index.html> or from the U.S. Government Printing Office, 732 North Capital Street, NW, Washington D.C. 20401.)

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AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM)

- ASTM B103/B103M - Standard Specification for Phosphor Bronze Plate, Sheet, Strip, and Rolled Bar.
- ASTM B139/B139M - Standard Specification for Phosphor Bronze Rod, Bar, and Shapes.
- ASTM B194 - Standard Specification for Copper-Beryllium Alloy Plate, Sheet, Strip and Rolled Bar.
- ASTM B221/B221M - Standard Specification for Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Profiles, and Tubes.
- ASTM A967 - Standard Specification for Chemical Passivation Treatments for Stainless Steel Parts.

(Application for copies should be addressed to the ASTM International, P.O. Box C700, 100 Barr Harbor Drive, West Conshohocken, PA 19428-2959 or at URL: <http://astm.org>)

SOCIETY OF AUTOMOTIVE ENGINEERS (SAE)

- SAE AMS-QQ-A-200/8 - Aluminum Alloy 6061, Bar, Rod, Shapes, Tube, and Wire, Extruded - UNS A96061.
- SAE AMS 5517 - Steel, Corrosion Resistant, Sheet and Strip 18Cr - 8Ni (SAE 30301) Cold Rolled, 125 ksi (862 MPa) Tensile Strength - UNS S30100.

(Application for copies should be addressed to the SAE World Headquarters, 400 Commonwealth Drive, Warrendale, PA 15096-0001 or at URL: <http://www.sae.org>)

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 guides from the Government inventory system, contact Defense Supply Center, Columbus, ATTN: DSCC-CAC, Post Office Box 3990, Columbus, OH 43218-3990, by telephone (614) 692-7402, or via electronic mail at ActiveDevices.CAC@dscclia.mil.

7.6 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/epaoswer/hazwaste/minimize/chemlist.htm>. Further information is available at the following EPA site: <http://www.epa.gov/epaoswer/hazwaste/minimize>. Included in the EPA list of 31 priority chemicals are cadmium, lead, and mercury. Use of the materials on the list should be minimized or eliminated unless needed to meet the requirements specified herein (see Section 3).

7.6.1 Guidance on use of alternative parts with less hazardous or non-hazardous materials. This specification provides for a number of alternative plating materials via the PIN. Users should select the PIN with the least hazardous material that meets the form, fit, and function requirements of their application.

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MILITARY INTERESTS:

Custodians:

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

Review activities:

Air Force – 99

CIVIL AGENCY COORDINATING ACTIVITY:

GSA – FSS

Preparing Activity:

DLA – CC

Project 5998–2008–027

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 <http://assist.daps.dla.mil>.