[INCH-POUND]
A-A-55563C
9 March 2007
SUPERSEDING
A-A-55563B
24 May 2005

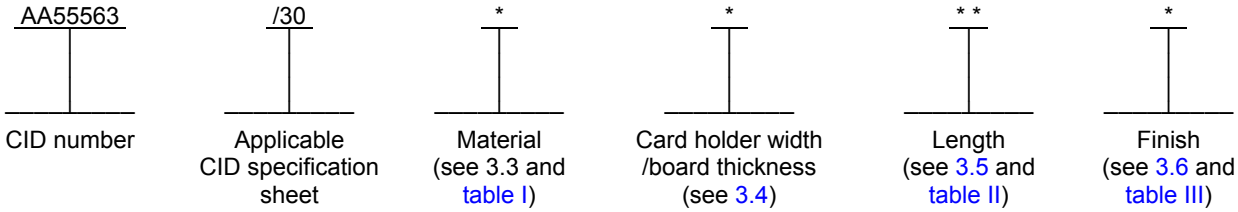
COMMERCIAL ITEM DESCRIPTION

HOLDER, ELECTRICAL CARD, METAL CARD GUIDE, 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 holders) intended for use to guide and hold circuit card assemblies into their installed positions. Card holders covered by this CID are for moderate heat transfer and vibration applications. Requirements for specific card holders are covered in the individual CID specification sheets. Card holders 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 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 Interface and physical dimensions. Card holders shall be as specified herein and in the applicable CID specification sheet. NOTE: Tolerances, unless otherwise specified, tolerances are ±.02 inch (0.5 mm) for two place decimals and ±.010 (0.25 mm) for three place decimals.

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

3.3.1 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 holders constructed of beryllium copper 1/4 H shall include a suffix "A" in the PIN.

3.3.2 Beryllium copper 1/4 HT, heat treated (after forming) (temper TH01). Beryllium copper 1/4 HT heat treated material shall be as defined in ASTM B194, temper TH01, or equivalent. Card holders constructed of beryllium copper 1/4 HT heat treated shall include a suffix "B" 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@dscc.dla.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.

3.3.3 Steel. Steel shall be as defined in ASTM A682/A682M or ASTM A684/A684M, or equivalent. Card holders constructed of steel shall include a suffix "C" in the PIN.

* 3.3.4 Stainless steel 1/4 H (quarter hard). Stainless steel 1/4 H shall be as defined in SAE AMS 5517, or equivalent. Card holders constructed of stainless steel 1/4 H shall include a suffix "D" in the PIN.

* 3.3.5 Stainless steel 1/2 H (half hard). Stainless steel 1/2 H shall be as defined in ASTM A240/A240M or equivalent. Card holders constructed of stainless steel 1/2 H shall include a suffix "E" in the PIN.

* 3.3.6 Stainless steel full H (full hard). Stainless steel full H shall be as defined in SAE AMS 5519, SAE AMS 5906, or equivalent. Card holders constructed of stainless steel full H shall include a suffix "F" in the PIN.

* 3.3.7 Phosphor bronze. Phosphor bronze shall be as defined in ASTM B103/B103M or ASTM B139/139M, or equivalent. Card holders constructed of phosphor bronze shall include a suffix "G" in the PIN.

TABLE I. Card holder material.

Material designator	Material type	Applicable specification	Paragraph
A	Beryllium copper1/4 H	ASTM B194, temper TD01	3.3.1
B	Beryllium copper 1/4 HT	ASTM B194, temper TH01	3.3.2
C	Steel (cold rolled)	ASTM A682/A682M or ASTM A684/A684M	3.3.3
D	Stainless steel 1/4 H	SAE AMS 5517	3.3.4
* E	Stainless steel 1/2 H	ASTM A240/A240M	3.3.5
* F	Stainless steel full H	SAE AMS 5519, SAE AMS 5906	3.3.6
* G	Phosphor bronze	ASTM B103/B103M or ASTM B139/A139M	3.3.7

* 3.4 Card holder width/board thickness or configuration. Card holder width/board thickness or configuration shall be as specified in the applicable CID specification sheet. The card holder width/board thickness or configuration designator(s) from the applicable CID specification sheet shall be included in the PIN.

3.5 Overall length. Unless otherwise specified in the applicable CID specification sheet, overall length shall be as defined in table II. Overall length designator from table II shall be included in the PIN.

TABLE II. Overall length.

Length designator	Card holder overall length dimension "L" 1/		Length designator	Card holder 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.

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

3.6.1 Cadmium, yellow chromate (see 7.6, 7.6.1, and table IV). Cadmium yellow chromate finish shall be as defined in SAE AMS-QQ-P-416, type II, class 2, or equivalent. Cadmium yellow chromate finish parts shall include a suffix "A" in the PIN.

3.6.2 Cadmium, clear chromate (see 7.6, 7.6.1, and table IV). Cadmium clear chromate finish shall be as defined in SAE AMS-QQ-P-416, type II, class 2, or equivalent. Cadmium clear chromate finish parts shall include a suffix "B" in the PIN.

3.6.3 Copper. Copper plate finish shall be as defined in SAE AMS 2418, or equivalent. Copper plate finish parts shall include a suffix "C" in the PIN.

3.6.4 Ebonal, black. Black ebonal finish shall be as defined in MIL-F-495, or equivalent. Black ebonal finish parts shall include a suffix "D" in the PIN.

3.6.5 Gold plate. Gold plate finish shall be as defined in ASTM B488, or equivalent. Gold plate finish parts shall include a suffix "E" in the PIN.

3.6.6 Nickel, electrodeposited. Electrodeposited nickel finish shall be as defined in SAE AMS-QQ-N-290, class 1, grade G, bright, or equivalent. Electrodeposited nickel finish parts shall include a suffix "F" in the PIN.

3.6.7 Passivate (stainless steel only). Passivate cleaning of stainless steel shall be as defined in ASTM A967, or equivalent. Passivate cleaning of stainless steel parts shall include a suffix "G" in the PIN.

3.6.8 Silver. Silver finish shall be as defined in ASTM B700, type 3, grade A (mat), or equivalent. Silver finish parts shall include a suffix "H" in the PIN.

3.6.9 Zinc, clear chromate. Zinc clear chromate finish shall be as defined in ASTM B633 Fe/Zn 8, or equivalent. Zinc clear chromate finish parts shall include the suffix "R" in the PIN.

3.6.10 Zinc, yellow chromate. Zinc yellow chromate finish shall be as defined in ASTM B633. Zinc yellow chromate plate finish parts shall include the suffix "J" in the PIN.

3.6.11 No finish. No finish option parts shall include the suffix "K" in the PIN.

3.6.12 Nickel. electroless. Electroless nickel finish shall be as defined in SAE AMS-C-26074, or equivalent. Electroless nickel finished parts shall include a suffix "N" in the PIN.

* 3.7 Marking. Card holders 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 holders 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.

TABLE III. Card holder finishes.

Finish designator	Finish	Applicable specification (or equivalent)	Paragraph
A	Cadmium, yellow chromate	SAE AMS-QQ-P-416, type II, class 2	3.6.1
B	Cadmium, clear chromate	SAE AMS-QQ-P-416, type II, class 2	3.6.2
C	Copper	SAE AMS 2418	3.6.3
D	Ebonal, black	MIL-F-495	3.6.4
E	Gold	ASTM B488	3.6.5
F	Nickel, electrodeposited	SAE AMS-QQ-N-290, class I, grade G, bright	3.6.6
G	Passivated steel	ASTM A967	3.6.7
H	Silver	ASTM B700	3.6.8
R 1/	Zinc, clear chromate	ASTM B633, Fe/Zn 8	3.6.9
J	Zinc, yellow chromate	ASTM B633, Fe/Zn 8	3.6.10
K	No finish		3.6.11
N	Nickel, electroless	SAE AMS-C-26074	3.6.12

1/ PIN designator “I” superseded by designator “R”.

4. REGULATORY REQUIREMENTS.

4.1 Recycled/recovered materials. 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 24 months.

b. The company producing the item must have sold 250 units meeting the requirements of this CID in the commercial marketplace over the past 24 months.

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

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.

DEPARTMENT OF DEFENSE SPECIFICATION

MIL-F-495 - Finish, Chemical, Black, For Copper 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)

* (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.)

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 A240/A240M - Standard Specification for Chromium and Chromium-Nickel Stainless Steel Plate, Sheet, and Strip for Pressure Vessels and for General Applications.
ASTM B488 - Standard Specification for Electrodeposited Coating of Gold for Engineering Uses.
ASTM B633 - Standard Specification for Electrodeposited Coatings of Zinc On Iron and Steel.
* ASTM A682/A682M - Standard Specification for Steel, Strip, High-Carbon, Cold-Rolled, General Requirements for.
* ASTM A684/A684M - Standard Specification for Steel, Strip, High-Carbon, Cold-Rolled.
ASTM B700 - Standard Specification for Electrodeposited Coatings of Silver for Engineering Use.
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 Coshohocken, PA 19428-2959 or at URL: http://.astm.org)

SOCIETY OF AUTOMOTIVE ENGINEERS (SAE)

SAE AMS-QQ-N-290 - Nickel Plating (Electrodeposited).
SAE AMS-QQ-P-416 - Plating, Cadmium (Electrodeposited).
SAE AMS-C-26074 - Electroless Nickel Coatings.
SAE AMS 2418 - Plating, Copper.
SAE AMS 5517 - Steel, Corrosion Resistant, Sheet and Strip 18Cr - 8Ni (SAE 30301) Cold Rolled, 125 ksi (862 MPa) Tensile Strength.
* SAE AMS 5519 - Steel, Corrosion Resistant, Sheet and Strip 18Cr - 8Ni (SAE 30301) Cold Rolled, 185 ksi (1276 MPa) Tensile Strength.
* SAE AMS 5906 - Steel, Corrosion Resistant, Sheet Strip 18Cr - 9.0Ni (SAE 30302) Cold Rolled, Full Hard, 185 ksi (1276 MPa) Tensile Strength.

(Application for copies should be addressed to the SAE World Headquaters, 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 holders 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@dscc.dla.mil.

7.6 Environmentally preferable material. Environmentally preferable materials should be used to the maximum extent possible that the material meets or exceeds the operational and maintenance requirements, and promotes economically advantageous life cycle costs. Table IV lists the Environmental Protection Agency (EPA) top seventeen hazardous materials targeted for major usage reduction. If any of these hazardous materials are required, it is recommended that it be used only when other materials cannot meet performance requirements.

TABLE IV. EPA top seventeen hazardous materials.

Benzene	Dichloromethane	Tetrachloroethylene
Cadmium and Compounds	Lead and Compounds	Toluene
Carbon Tetrachloride	Mercury and Compounds	1,1,1 - Trichloroethane
Chloroform	Methyl Ethyl Ketone	Trichloroethylene
Chromium and Compounds	Methyl Isobutyl Ketone	Xylenes
Cyanide and Compounds	Nickel and Compounds	

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.

* 7.7 Changes from previous issue. The margins of this CID are marked with asterisks to indicate where changes from the previous issue were made. This was done as a convenience only and the Government assumes no liability whatsoever for any inaccuracies in these notations. Bidders and contractors are cautioned to evaluate the requirements of this document based on the entire content irrespective of the marginal notations and relationship to the last previous issue.

MILITARY INTERESTS:

Custodians:
Army – CR
Navy – EC
Air Force – 99
DLA – CC

CIVIL AGENCY COORDINATING ACTIVITY:

GSA – FSS

Preparing Activity

DLA – CC

Project 5998–2006–024

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.