



DEFENSE LOGISTICS AGENCY
LAND AND MARITIME
P.O. BOX 3990
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February 10, 2023

MEMORANDUM FOR MILITARY AND INDUSTRY COORDINATION

SUBJECT: Initial Draft of New Commercial Item Descriptions A-A-55563/31 and A-A-55563/32; Projects 5998-2023-015 and -016.

The initial drafts of the subject documents, dated February 10, 2023, are now available for review and comment. The initial drafts can be downloaded or reviewed online at either the ASSIST or the DLA Land and Maritime-VA Web site using either of the following URLs:

<https://assistca.dla.mil/online/login/mainframe.cfm>

or

<https://landandmaritimeapps.dla.mil/Programs/MilSpec/ListDocs.aspx?BasicDoc=A-A-55563>

These new CID specification sheets are being created to provide requirements for metal card guides used in non-cold plate chassis enclosures.

A 30 day coordination cycle has been allotted for these projects. Concurrence or comments are required at this Center by the date indicated on the ASSIST or DLA Land and Maritime electronic mail notification, not the date of this letter. Please provide your comments within that time period. If no response is received from your activity in the allotted 30 day coordination cycle, concurrence will be assumed. Any late comments received will be held for the next coordination of the documents.

Comments from military departments must be identified as either "Essential" or "Suggested". Essential comments must be justified with supporting data. Military review activities should forward comments to their custodians or this office, as applicable, in sufficient time to allow for consolidating the department reply.

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/ Signed /

MUHAMMAD AKBAR
Chief
Active Devices Branch

[INCH-POUND]
A-A-55563/31
DRAFT

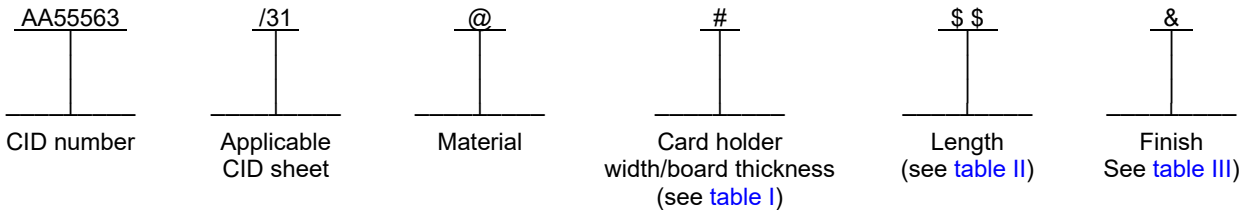
COMMERCIAL ITEM DESCRIPTION
SPECIFICATION SHEET

HOLDER, ELECTRICAL CARD, METAL CARD GUIDE, OFFSET MOUNTING,
WITH MULTIPLE MOUNTING HOLES, UNSUPPORTED, FOR CHASSIS OR
SHEET METAL APPLICATIONS, WITH RIGID (RIGHT HAND SIDE) WALL SUPPORT

The General Services Administration has authorized the use of this
commercial item description (CID) for all federal agencies.

The complete requirements for procuring electrical card holders described herein shall consist of this document and
the latest issue in effect of [A-A-55563](#).

CLASSIFICATION/PART IDENTIFICATION NUMBER (PIN). This commercial item description (CID) specification
sheet uses a classification system which is included in the Part Identification Number (PIN) as shown in the following
example (see [notes](#)).



Example: AA55563/31ESA2G is the PIN for a passivated stainless steel (of temper TF00), 10.25 inches (260.4) long
card guide. The card guide is designed to accommodate circuit card assemblies with printed board thicknesses of
.063 inch (1.6 mm) and has 11 mounting holes.

SALIENT CHARACTERISTICS.

Interface and physical dimensions. The card holders supplied to this CID specification sheet shall be as specified
herein (see [table I](#), [table II](#), and [table III](#)) and meet the general requirements specified in CID [A-A-55563](#).

Material type. The materials types shall be as defined in [A-A-55563](#) and herein. The applicable material type
designators for this CID specification sheet are "Y" (beryllium copper) and "E" (stainless steel). Beryllium copper
shall be of copper alloy number C17500, temper TF00 (also designated AT) in accordance with ASTM B534, SAE
AS81021, or equivalent. Stainless steel shall be type 301, condition ½ H or equivalent.

Material thickness. The material thickness shall be .016 ±.002 inch (0.41 ±0.05 mm).

Card holder width/board thickness. The card holder width/board thickness shall be defined in [table I](#) herein and is
shown on [figure 1](#) as dimension "B". The applicable card holder width/board thickness designators for this CID
specification sheet are "S" or "N".

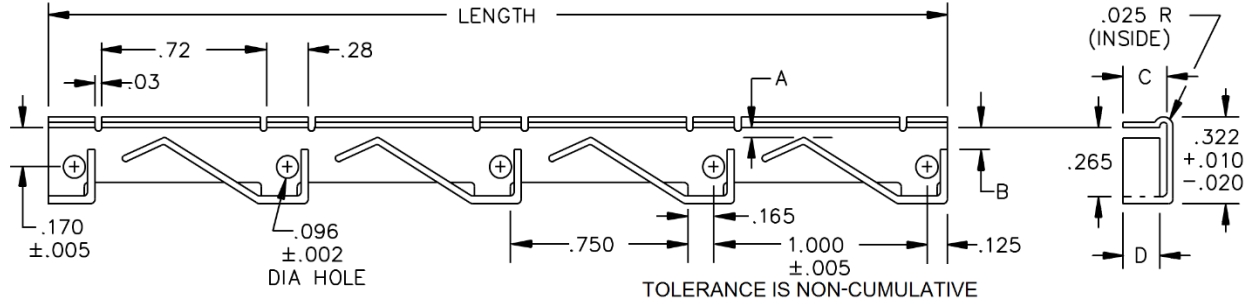
Overall length. Overall length is shown on [figure 1](#) as dimension "L" and is displayed in [table II](#) herein. Applicable
overall length designator "12", "22", "32", "42", "52", "62", "72", "82", "92", "A2", "B2", or "C2" shall be included in the
PIN.



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DRAFT DATE: 10 FEBRUARY 2023

Finish. Finish materials types shall be defined in [A-A-55563](#) and herein. The applicable finish materials designators for material type designator "Y" (beryllium copper) are "K" (no finish), "F" (electrodeposited nickel), "N" (electroless nickel), or "R" (clear electrodeposited zinc). The only finish material designator for material type designator "E" (stainless steel) is "G" (passivate). The finish designator shall be included in the PIN.

Mounting holes. The card guide will have the number of equal to the whole number of its length plus 1.
Example: the 4.25 inch (108.0) long card guide shown in figure 1 has 5 mounting holes (4 from its length plus 1).



Inches	mm	Inches	mm	Inches	mm	Inches	mm
.002	0.05	.025	0.64	.125	3.18	.322	8.18
.005	0.13	.028	0.711	.165	3.68	.72	18.29
.015	0.38	.03	0.76	.170	4.32	.750	19.05
.02	0.51	.096	2.43	.28	7.11	1.00	25.40

NOTES:

1. Dimensions are in inches. Millimeter equivalents are given for general information only.
2. Unless otherwise specified, tolerances are ± 0.02 inch (0.51 mm) for two place decimals and ± 0.010 inch (0.25 mm) for three place decimals.
3. See [table I](#) for dimensions A, B, C and D.

FIGURE 1. Card holder design and dimensions for configuration A.

TABLE I. Card holder dimensions. ^{1/} ^{2/}

PIN designators for card holder material and width/ board thickness ^{3/}	CCA Printed board thickness		Dimension "A" gap thickness ^{4/}		Dimension "B" PWB thickness ^{5/}		Dimension "C" ^{3/}		Dimension "D" ^{3/}	
	inches	mm	inches	mm	inches	mm	inches	mm	inches	mm
ES	.063	1.6	.045	1.14	.075	1.91	.125	3.16	.100	2.54
EN	.094	2.4	.075	1.91	.105	2.67	.125	3.16	.100	2.54
YS	.063	1.6	.045	1.14	.075	1.91	.165	4.19	.140	3.56
YN	.094	2.4	.075	1.91	.105	2.67	.165	4.19	.140	3.56

- ^{1/} Millimeter equivalents are given for general information only.
- ^{2/} Unless otherwise specified, tolerances are ± 0.02 inch (0.51 mm) for two place decimals and ± 0.010 inch (0.25 mm) for three place decimals.
- ^{3/} Tolerances for gap thickness are $+0.00$ inch, -0.03 inch ($+0.0$ mm, -0.8 mm).
- ^{4/} Tolerances for PWB thickness are $+0.015$ inch, -0.00 inch ($+0.38$ mm, -0.0 mm).

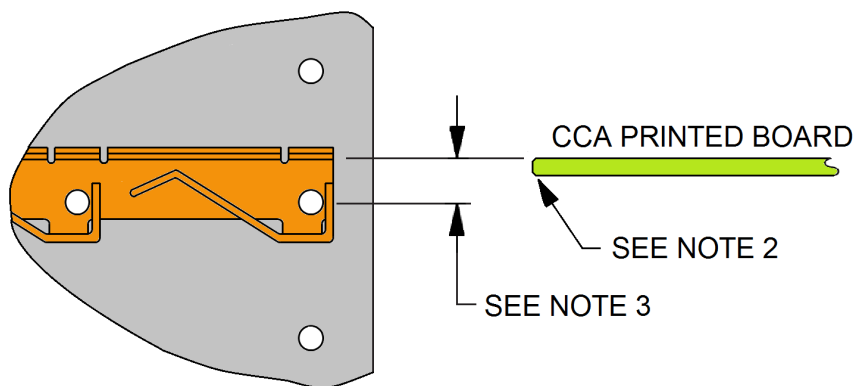
TABLE II. Length and number of mounting holes. ^{1/}

PIN designator for overall length	Dimension "L" $\pm .020$ (0.51)		Number of mounting holes
	Inches	mm	
12	1.25	31.8	2
22	2.25	57.2	3
32	3.25	82.6	4
42	4.25	108.0	5
52	5.25	133.4	6
62	6.25	158.8	7
72	7.25	184.2	8
82	8.25	209.6	9
92	9.25	235.0	10
A2	10.25	260.4	11
B2	11.25	285.8	12
C2	12.25	311.2	13

^{1/} Dimensions are in inches. Millimeters are given for information only.

APPLICATION DATA

Mounting and usage. Two card guides are recommended for each CCA. See figure 2 for recommended Stainless steel card guides provides a solution for shock and vibration, whereas beryllium copper card guides also provide excellent heat sinking and grounding properties.



NOTES:

1. Dimensions are in inches. Millimeter equivalents are given for general information only.
2. Chamfer any sharp edges of the CCA printed board to ensure ease of insertion through the card guide into installed position.
3. Recommended mounting dimensions is .170 inch $\pm .005$ inch (4.32 mm ± 0.13 mm).

FIGURE 2. Card holder mounting and usage.

NOTES.

PIN. The PIN should be used for Government purposes to buy commercial products to this CID specification sheet. See the classification section for PIN format example.

Source of documents.

Commercial Item Description

[A-A-55563](#) - Holder, Electrical Card, Metal Card Guide, General Requirements For.

(Copies of these documents are available online at <https://quicksearch.dla.mil>.)

ASTM INTERNATIONAL (ASTM)

ASTM B534 - Standard Specification for Copper-Cobalt-Beryllium Alloy and Copper-Nickel-Beryllium Alloy Plate, Sheet, Strip, and Rolled Bar.

(Copies of these documents are available online at <https://www.astm.org>.)

SAE INTERNATIONAL (SAE)

SAE AS81021 - Copper-Beryllium Alloy (Copper Alloy Numbers C17500 and C17510), Strip.

(Copies of these documents are available online at <https://www.sae.org>.)

(Non-Government Standards and other publications are normally available from the organizations which prepare or which distribute the documents. These documents also may be available in or through libraries or other informational services.)

Ordering data. Ordering data shall be as specified in [A-A-55563](#).

Commercial products. As part of the market analysis and research effort, this CID specification sheet was coordinated with the following manufacturers of commercial products. At the time of CID specification sheet preparation and coordination, these manufacturers were known to have commercial products that would meet the requirements of this CID specification sheet. (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>Manufacturer CAGE</u>	<u>Manufacturer name and address</u>	<u>Manufacturer contact information</u>
61081	Schroff, Inc. 7328 Trade Street San Diego, CA 92121-3410	Telephone: (858) 740-2400 Facsimile: (858) 740-2430 E mail: askschroff@nVent.com URL: https://schroff.nvent.com
5BG68	American Circuit Card Retainers, Inc. 2310 E. Orangethorpe Avenue Anaheim, CA 92806-1231	Telephone: (714) 738-6194 Facsimile: (714) 446-0119 E mail: sales@accrmfg.com URL: http://www.accrmfg.com

Part number (P/N) supersession data. These CID specification sheet PINs supersedes the following manufacturer's P/Ns as shown in table III. The CID PINs listed in table III cover the different lengths available. This information is being provided to assist in reducing proliferation in the Government inventory system.

TABLE III. Commercial P/N supersession data.

CID PIN; AA55563/31@#\$\$& <u>1/</u>				Manufacturers <u>2/</u>	
Material type (@)	Card holder width/board thickness	Overall length (\$\$)	Finish (&)	CAGE 61081 <u>4/</u>	CAGE 5BG68 <u>4/</u>
E	S	12	G	125-06-1.25	1125SS-6-1.25
E	S	22	G	125-06-2.25	1125SS-6-2.25
E	S	32	G	125-06-3.25	1125SS-6-3.25
E	S	42	G	125-06-4.25	1125SS-6-4.25
E	S	52	G	125-06-5.25	1125SS-6-5.25
E	S	62	G	125-06-6.25	1125SS-6-6.25
E	S	72	G	125-06-7.25	1125SS-6-7.25
E	S	82	G	125-06-8.25	1125SS-6-8.25
E	S	92	G	125-06-9.25	1125SS-6-9.25
E	S	A2	G	125-06-10.25	1125SS-6-10.25
E	S	B2	G	125-06-11.25	1125SS-6-11.25
E	S	C2	G	125-06-12.25	1125SS-6-12.25
E	N	12	G	125-09-1.25	1125SS-9-1.25
E	N	22	G	125-09-2.25	1125SS-9-2.25
E	N	32	G	125-09-3.25	1125SS-9-3.25
E	N	42	G	125-09-4.25	1125SS-9-4.25
E	N	52	G	125-09-5.25	1125SS-9-5.25
E	N	62	G	125-09-6.25	1125SS-9-6.25
E	N	72	G	125-09-7.25	1125SS-9-7.25
E	N	82	G	125-09-8.25	1125SS-9-8.25
E	N	92	G	125-09-9.25	1125SS-9-9.25
E	N	A2	G	125-09-10.25	1125SS-9-10.25
E	N	B2	G	125-09-11.25	1125SS-9-11.25
E	N	C2	G	125-09-12.25	1125SS-9-12.25
Y	S	12	<u>3/</u>	165-06-1.25	1165BC-6-1.25
Y	S	22	<u>3/</u>	165-06-2.25	1165BC-6-2.25
Y	S	32	<u>3/</u>	165-06-3.25	1165BC-6-3.25
Y	S	42	<u>3/</u>	165-06-4.25	1165BC-6-4.25
Y	S	52	<u>3/</u>	165-06-5.25	1165BC-6-5.25
Y	S	62	<u>3/</u>	165-06-6.25	1165BC-6-6.25

See footnotes at end of table.

TABLE III. Commercial P/N supersession data – Continued.

CID PIN; AA55563/31@#\$\$& <u>1/</u>				Manufacturers <u>2/</u>	
Material type (@)	Card holder width/board thickness	Overall length (\$\$)	Finish (&)	CAGE 61081 <u>4/</u>	CAGE 5BG68 <u>5/</u>
Y	S	72	<u>3/</u>	165-06-7.25	1165BC-6-7.25
Y	S	82	<u>3/</u>	165-06-8.25	1165BC-6-8.25
Y	S	92	<u>3/</u>	165-06-9.25	1165BC-6-9.25
Y	S	A2	<u>3/</u>	165-06-10.25	1165BC-6-10.25
Y	S	B2	<u>3/</u>	165-06-11.25	1165BC-6-11.25
Y	S	C2	<u>3/</u>	165-06-12.25	1165BC-6-12.25
Y	N	12	<u>3/</u>	165-09-1.25	1165BC-9-1.25
Y	N	22	<u>3/</u>	165-09-2.25	1165BC-9-2.25
Y	N	32	<u>3/</u>	165-09-3.25	1165BC-9-3.25
Y	N	42	<u>3/</u>	165-09-4.25	1165BC-9-4.25
Y	N	52	<u>3/</u>	165-09-5.25	1165BC-9-5.25
Y	N	62	<u>3/</u>	165-09-6.25	1165BC-9-6.25
Y	N	72	<u>3/</u>	165-09-7.25	1165BC-9-7.25
Y	N	82	<u>3/</u>	165-09-8.25	1165BC-9-8.25
Y	N	92	<u>3/</u>	165-09-9.25	1165BC-9-9.25
Y	N	A2	<u>3/</u>	165-09-10.25	1165BC-9-10.25
Y	N	B2	<u>3/</u>	165-09-11.25	1165BC-9-11.25
Y	N	C2	<u>3/</u>	165-09-12.25	1165BC-9-12.25

- 1/ The at sign (@) denotes material type, pound sign (#) denotes card holder width/board thickness, dimension "B" (see [figure 1](#) herein), dollar signs (\$\$) denotes overall length dimension "L" (see [figure 1](#) herein and [A-A-55563](#)) and the ampersand (&) denotes finish.
- 2/ The manufacturer's P/N shall not be used for procurement to the requirements of this CID specification sheet. At the time of preparation of this CID, the aforementioned commercial products were reviewed and could be replaced by the CID PINs shown. For actual part marking requirements, see the marking paragraph of [A-A-55563](#).
- 3/ Finish materials designator "F", "K", "N", or "R" are available for this material type (see [finish](#) for a description of the designators).
- 4/ Manufacturer CAGE 61081 available finishes use designators "F", "K", "N" and "R".
- 5/ Manufacturer CAGE 5BG68 available finishes use designators "F" or "K".

Guidance on use of alternative parts with less hazardous or non-hazardous materials. This CID specification sheet 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.

MILITARY INTERESTS:

Custodians:

Army – CR
Navy – EC
Air Force – 85
DLA – CC

CIVIL AGENCY COORDINATING ACTIVITY:

GSA – FAS

Preparing activity:
DLA – CC

Project 5998–2023–015

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>.