



DEFENSE LOGISTICS AGENCY
LAND AND MARITIME
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September 21, 2016

MEMORANDUM FOR MILITARY AND INDUSTRY COORDINATION

SUBJECT: Initial Drafts of Commercial Item Descriptions A-A-59789/7 Revision B and A-A-59789/8 Revision B on "Holder, Electrical Card, Wedge Retainers, 5 Piece, For Cold Plate Applications"; Project Numbers 5998-2016-027 and -028.

The initial drafts of the subject documents, dated September 20, 2016, are now available for review and comment. They 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/DocSearch.aspx>

These Commercial Item Descriptions are being revised to update vendor names, contact data, and part numbers. They also have been updated to the current CID format requirements. Highlighting has been used for easy change recognition.

Concurrence or comments are required at this Center within 30 days from the date of this letter (October 21, 2016). Late comments will be held for the next coordination of the document. 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 of this office, as applicable, in sufficient time to allow for consolidating the department reply.

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/ Signed /

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Chief
Active Devices Branch

cc:
FM
VAI (Foster)

[INCH-POUND]
A-A-59789/7B
DRAFT
SUPERSEDING
A-A-59789/7A
7 November 2011

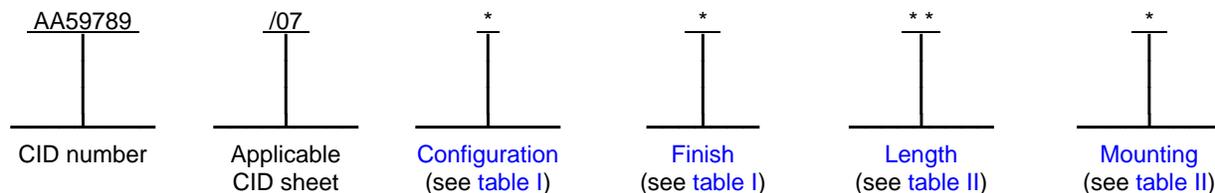
COMMERCIAL ITEM DESCRIPTION SPECIFICATION SHEET

HOLDER, ELECTRICAL CARD, WEDGE RETAINERS, 5 PIECE, FOR COLD PLATE APPLICATIONS,
.195 X .250 INCH BODY SIZE, **SHAFT MOUNTING BODY**, SCREW ACTUATED

The General Services Administration has authorized the use of this commercial item description 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-59789](#).

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



Example: AA59789/07DE30T is the PIN for an electroless nickel finished, 2.8 inch (71.1 mm) long card holder. The card holder also features three tapped mounting holes for use with 0-80 UNF 2B fasteners and a screw self-locking element for added resistance to loosening.

SALIENT CHARACTERISTICS.

Performance. Card holders shall hold the circuit card assembly it is attached to firmly in place its installed position and prevent loosening or movement as a result from of shock and vibration. The card holder shall also provide while providing a thermal transfer path from the circuit card assembly to the cold plate or heat sink surfaces.

Interface and physical dimensions. The card holders supplied to this CID specification sheet shall be as specified herein and meet the general requirements specified in CID [A-A-59789](#).

Material. Unless otherwise specified herein, the card holder materials shall be as specified in [A-A-59789](#).

Actuating screw hex drive socket. The dimension for hex drive socket shall be .094 inch (2.38 mm) across flats for mounting options "M", "R", "S", "T", and "U".

Cold plate slot width. The recommend cold plate slot width to accommodate the circuit card assembly with attached card holder is .220 inch (5.59 mm) plus the thickness of the printed board of the circuit card assembly (see [A-A-59789](#)).

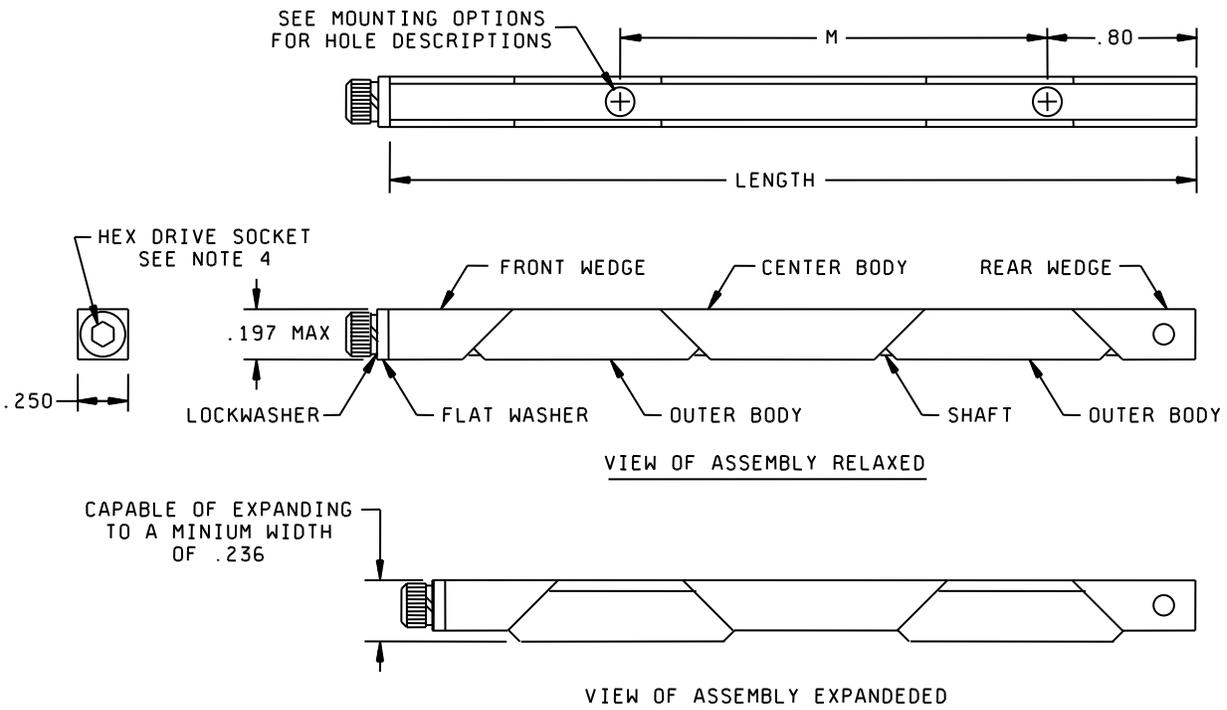
Installation torque. The recommended nominal installation torque is follows: 6 inch-pounds (0.7 N-m) for card holders of configuration "C" or "E" and 7 to 8 inch-pounds (0.8 to 0.9 N-m) for assemblies of configurations "L" or "D".



Configuration. The configuration of a card holder shall be as specified in [table I](#). The details of a particular configuration consist of those on [figure 1](#), and may include those on [figures 2](#) and [3](#).

TABLE I. Configuration.

Configuration	Applicable figures	Hardware options
C	1	No added options
L	1 and 2	Screw self-locking element
E	1 and 3	Additional mounting hole
D	1, 2, and 3	Screw self-locking element and additional mounting hole



Inches	mm	Inches	mm	Inches	mm	Inches	mm
.197	5.00	.236	5.99	.250	6.35	.80	20.32

NOTES:

1. Dimensions are in inches. Millimeter equivalents are given for general information only.
2. Unless otherwise specified, tolerances are for ± 0.02 inch (0.51 mm) for two place decimals and ± 0.010 inch (0.25 mm) for three place decimals.
3. Tolerance for the hole spacing (dimension M) is ± 0.005 inch (0.51 mm).
4. The across flats dimension for hex drive socket shall be .094 inch (2.38 mm).

FIGURE 1. Relaxed and expanded dimensions.

Finish. The finish designator shall be as specified in A-A-59789. The finishes available for this CID specification sheet are as follows: "B" (black anodize), "E" (electroless nickel), "H" (hard black anodize) or "R" (clear chemical film).

Length, expanded and relaxed dimensions. The length designator shall be as specified in A-A-59789 and the lengths available for this CID specification sheet are listed in table II. The length, expanded, and relaxed dimensions shall be as specified on figure 1.

TABLE II. Additional assembly dimensions (see figure 1). 1/

PIN length designator	Dimension "Length" ±.02 (0.5)	Dimension "M" ±.01 (0.3)	Dimension "M/2" ±.02 (0.5)
30	2.80 (71.1)	.90 (22.9)	.45 (11.4)
40	3.80 (96.5)	1.90 (48.3)	.95 (24.1)
50	4.80 (121.9)	2.90 (73.7)	1.45 (36.8)

1/ Dimensions are in inches. Millimeters, in parenthesis, are given for information only.

Mounting. The mounting designators shall be as specified in A-A-59789. The mounting options available for this CID specification sheet are as follows: "M" (tapped metric M2.5 x 0.45 holes), "R" (rivet mount holes with counterbore and countersink), "S" (tapped 2-56 holes), "T" (tapped 0-80 holes), or "U" (tapped metric M2 x 0.4 holes). See figures 1 and 3 for mounting hole spacing requirements.

Rivet mounting holes. The holes used for rivet mounting shall be .068/.073 inch (1.73/1.85 mm) diameter, countersunk 100 degrees by .060 inch (1.52 mm) deep.

Rivets. This card holder uses rivet type A as specified in A-A-59789 when rivet mounting is used.

Configuration hardware options. Card holders can have the following hardware options: No hardware options added (see figure 1), screw self lock element (see figure 2), additional mounting hole (see figure 3), or screw self lock element and additional mounting hole (see figures 2 and 3). See table I for the correct PIN configuration identifier.

No hardware options added. The base configuration of the card holder is as depicted by figure 1. Card holders not requiring any added hardware options shall include configuration identifier "C" in the PIN (see classification, notes, and table I).

Screw self-locking element (see figure 2). The use of a screw self-locking element will provide prevailing torque for resistance to loosening from shock vibration. The screw self-locking element shall be as specified in A-A-59789. Card holders requiring a screw self-locking element shall include configuration identifier "L" in the PIN (see classification, notes, and table I).

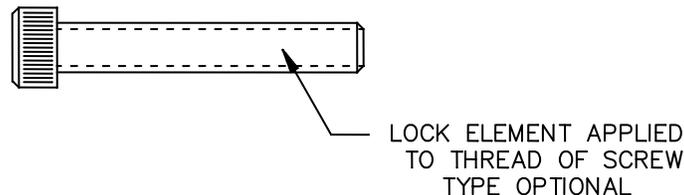


FIGURE 2. Screw self-locking element details.

Additional mounting hole (see figure 3). Card holders requiring an additional mounting hole shall include configuration identifier "E" in the PIN (see [classification](#), [notes](#), and [table I](#)).

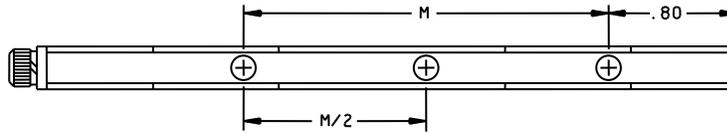


FIGURE 3. Additional mounting hole details.

Screw self-locking element and additional mounting hole. Card holders requiring a screw self-locking element and an additional mounting hole options shall include configuration identifier "D" in the PIN (see [classification](#), [notes](#), and [table I](#)).

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-59789 – Holder, Electrical Card, Wedge Retainers, 5 Piece, For Cold Plate Applications, General Requirements For.

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

Other Publications

AEROSPACE INDUSTRIES ASSOCIATION (AIA)

AIA/NAS 1283 – Fasteners, Male Threaded, Self-locking.

(Application for copies should be addressed to the Aerospace Industries Association, 1250 Eye Street, NW, Suite 1200, Washington, DC 20005-3924 or at URL: <http://www.aia-aerospace.org>.)

Ordering data. Ordering data is **as shall be** specified in A-A-59789.

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.)

Manufacturer CAGE	<u>Manufacturer name and address</u>	<u>Manufacturer contact information</u>
5BG68	Card Locks Unlimited, Inc. 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: www.accrmfg.com
61081	Calmark—A Division of Pentair Technical Products (formerly Calmark) 7328 Trade Street San Diego, CA 92121-3410	Telephone: (858) 740-2400 Toll Free: (800) 854-7086 Facsimile: (858) 740-2430 E-mail: schroff.us@pentair.com URL: http://www.pentairprotect.com



Part number supersession data. This CID specification sheet PINs supersedes the following manufacturer's part numbers as shown in [table III](#). The CID PINs listed in [table III](#) are only for length designator "50". See [table IV](#) for CID PIN construction using other available lengths for this CID specification sheet. This information is being provided to assist in reducing proliferation in the Government inventory system.

TABLE III. Commercial part number supersession data.

PIN designator AA59789/07	Vendor similar designator or type part number <u>1/</u> CAGE 61081	Vendor similar designator or type part number <u>1/</u> CAGE 5BG68
CB50M	A267-4.80TM2.5	5267BA-4.80TM2.5
CB50R	A267-4.80H	5267BA-4.80H
CB50S	A267-4.80T2	5267BA-4.80T2
CB50T	A267-4.80T0	5267BA-4.80T0
CB50U	A267-4.80TM2	5267BA-4.80TM2
LB50M	A267-4.80TM2.5L	5267BA-4.80TM2.5L
LB50R	A267-4.80HL	5267BA-4.80HL
LB50S	A267-4.80T2L	5267BA-4.80T2L
LB50T	A267-4.80T0L	5267BA-4.80T0L
LB50U	A267-4.80TM2L	5267BA-4.80TM2L
EB50M	A267-4.80ETM2.5	5267BA-4.80ETM2.5
EB50R	A267-4.80EH	5267BA-4.80EH
EB50S	A267-4.80ET2	5267BA-4.80ET2
EB50T	A267-4.80ET0	5267BA-4.80ET0
EB50U	A267-4.80ETM2	5267BA-4.80ETM2
DB50M	A267-4.80ETM2.5L	5267BA-4.80ETM2.5L
DB50R	A267-4.80EHL	5267BA-4.80EHL
DB50S	A267-4.80ET2L	5267BA-4.80ET2L
DB50T	A267-4.80ET0L	5267BA-4.80ET0L
DB50U	A267-4.80ETM2L	5267BA-4.80ETM2L

See footnote at end of table.

TABLE III. Commercial part number supersession data – Continued.

PIN designator AA59789/07	Vendor similar designator or type part number <u>1</u> / CAGE 61081	Vendor similar designator or type part number <u>1</u> / CAGE 5BG68
CE50M	EN267-4.80TM2.5	5267EN-4.80TM2.5
CE50R	EN267-4.80H	5267EN-4.80H
CE50S	EN267-4.80T2	5267EN-4.80T2
CE50T	EN267-4.80T0	5267EN-4.80T0
CE50U	EN267-4.80TM2	5267EN-4.80TM2
LE50M	EN267-4.80TM2.5L	5267EN-4.80TM2.5L
LE50R	EN267-4.80HL	5267EN-4.80HL
LE50S	EN267-4.80T2L	5267EN-4.80T2L
LE50T	EN267-4.80T0L	5267EN-4.80T0L
LE50U	EN267-4.80TM2L	5267EN-4.80TM2L
EE50M	EN267-4.80ETM2.5	5267EN-4.80ETM2.5
EE50R	EN267-4.80EH	5267EN-4.80EH
EE50S	EN267-4.80ET2	5267EN-4.80ET2
EE50T	EN267-4.80ET0	5267EN-4.80ET0
EE50U	EN267-4.80ETM2	5267EN-4.80ETM2
DE50M	EN267-4.80ETM2.5L	5267EN-4.80ETM2.5
DE50S	EN267-4.80EHL	5267EN-4.80EHL
DE50R	EN267-4.80ET2L	5267EN-4.80ET2L
DE50T	EN267-4.80ET0L	5267EN-4.80ET0L
DE50U	EN267-4.80ETM2L	5267EN-4.80ETM2L
CH50M	HA267-4.80TM2.5	5267BH-4.80TM2.5
CH50R	HA267-4.80H	5267BH-4.80H
CH50S	HA267-4.80T2	5267BH-4.80T2
CH50T	HA267-4.80T0	5267BH-4.80T0
CH50U	HA267-4.80TM2	5267BH-4.80TM2
LH50M	HA267-4.80TM2.5L	5267BH-4.80TM2.5L
LH50R	HA267-4.80HL	5267BH-4.80HL
LH50S	HA267-4.80T2L	5267BH-4.80ET2L
LH50T	HA267-4.80T0L	5267BH-4.80ET0L
LH50U	HA267-4.80TM2L	5267BH-4.80ETM2L

See footnote at end of table.

TABLE III. Commercial part number supersession data – Continued.

PIN designator AA59789/07	Vendor similar designator or type part number 1/ CAGE 61081	Vendor similar designator or type part number 1/ CAGE 5BG68
EH50M	HA267-4.80ETM2.5	5267BH-4.80ETM2.5
EH50R	HA267-4.80EH	5267BH-4.80EH
EH50S	HA267-4.80ET2	5267BH-4.80ET2
EH50T	HA267-4.80ET0	5267BH-4.80ET0
EH50U	HA267-4.80ETM2	5267BH-4.80ETM2
DH50M	HA267-4.80ETM2.5L	5267BH-4.80ETM2.5L
DH50S	HA267-4.80EHL	5267BH-4.80EHL
DH50R	HA267-4.80ET2L	5267BH-4.80ET2L
DH50T	HA267-4.80ET0L	5267BH-4.80ET0L
DH50U	HA267-4.80ETM2L	5267BH-4.80ETM2L
CR50M	R267-4.80TM2.5	5267CC-4.80TM2.5
CR50R	R267-4.80H	5267CC-4.80H
CR50S	R267-4.80T2	5267CC-4.80T2
CR50T	R267-4.80T0	5267CC-4.80T0
CR50U	R267-4.80TM2	5267CC-4.80TM2
LR50M	R267-4.80TM2.5L	5267CC-4.80TM2.5L
LR50R	R267-4.80HL	5267CC-4.80HL
LR50S	R267-4.80T2L	5267CC-4.80T2L
LR50T	R267-4.80T0L	5267CC-4.80T0L
LR50U	R267-4.80TM2L	5267CC-4.80TM2L
ER50M	R267-4.80ETM2.5	5267CC-4.80ETM2.5
ER50R	R267-4.80EH	5267CC-4.80EH
ER50S	R267-4.80ET2	5267CC-4.80ET2
ER50T	R267-4.80ET0	5267CC-4.80ET0
ER50U	R267-4.80ETM2	5267CC-4.80ETM2
DR50M	R267-4.80ETM2.5L	5267CC-4.80ETM2.5L
DR50R	R267-4.80EHL	5267CC-4.80EHL
DR50S	R267-4.80ET2L	5267CC-4.80ET2L
DR50T	R267-4.80ET0L	5267CC-4.80ET0L
DR50U	R267-4.80ETM2L	5267CC-4.80ETM2L

See footnote at end of table.

TABLE III. Commercial part number supersession data – Continued.

- 1/ The manufacturer's part number shall not be used for procurement to the requirements of this CID specification sheet. At the time of preparation of this CID specification sheet, the aforementioned commercial products were reviewed and could be replaced by the CID PIN shown. For actual part marking requirements, see the marking paragraph in [A-A-59789](#).

PIN length examples. The CID PINs listed in table V are for all available standard card holder lengths for this specification sheet. However, only one specific finish, mounting and configuration are listed (see PIN example for a break-down of the codes).

TABLE IV. Example of PIN with available length designators.

PIN designator AA59789/07	Vendor similar designator or type part number 1/ 2/ CAGE 61081	Vendor similar designator or type part number 1/ 2/ CAGE 5BG68
DE30T	EN267-2.80ET0L	5267EN-2.80ET0L
DE40T	EN267-3.80ET0L	5267EN-3.80ET0L
DE50T	EN267-4.80ET0L	5267EN-4.80ET0L

- 1/ The manufacturer's part number shall not be used for procurement to the requirements of this CID specification sheet. At the time of preparation of this CID specification sheet, the aforementioned commercial products were reviewed and could be replaced by the CID PIN shown. For actual part marking requirements, see the marking paragraph in [A-A-59789](#).
- 2/ Other lengths are available on request.

Changes from previous issue. The margins of this specification are marked with vertical lines 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 – 85
DLA – CC

Review Activity:
Air Force – 99

CIVIL AGENCY COORDINATING ACTIVITY:

GSA – FAS
Preparing Activity:
DLA – CC
Project **5998-2016-027**

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 <https://assist.dla.mil>.