

[INCH-POUND]

A-A-59789/9D  
9 August 2016  
SUPERSEDING  
A-A-59789/9C  
9 October 2015

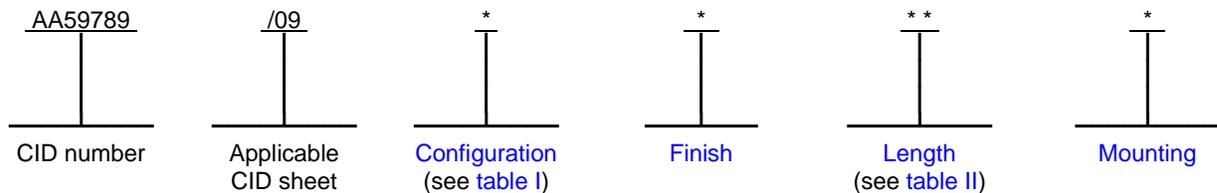
COMMERCIAL ITEM DESCRIPTION  
SPECIFICATION SHEET

HOLDER, ELECTRICAL CARD, WEDGE RETAINERS, 5 PIECE, FOR COLD PLATE APPLICATIONS,  
.225 X .225 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: AA59789/09DE30T 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 its installed position and prevent loosening or movement as a result of shock and vibration. The card holder shall also provide 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 .250 inch (6.35 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".

AMSC N/A

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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

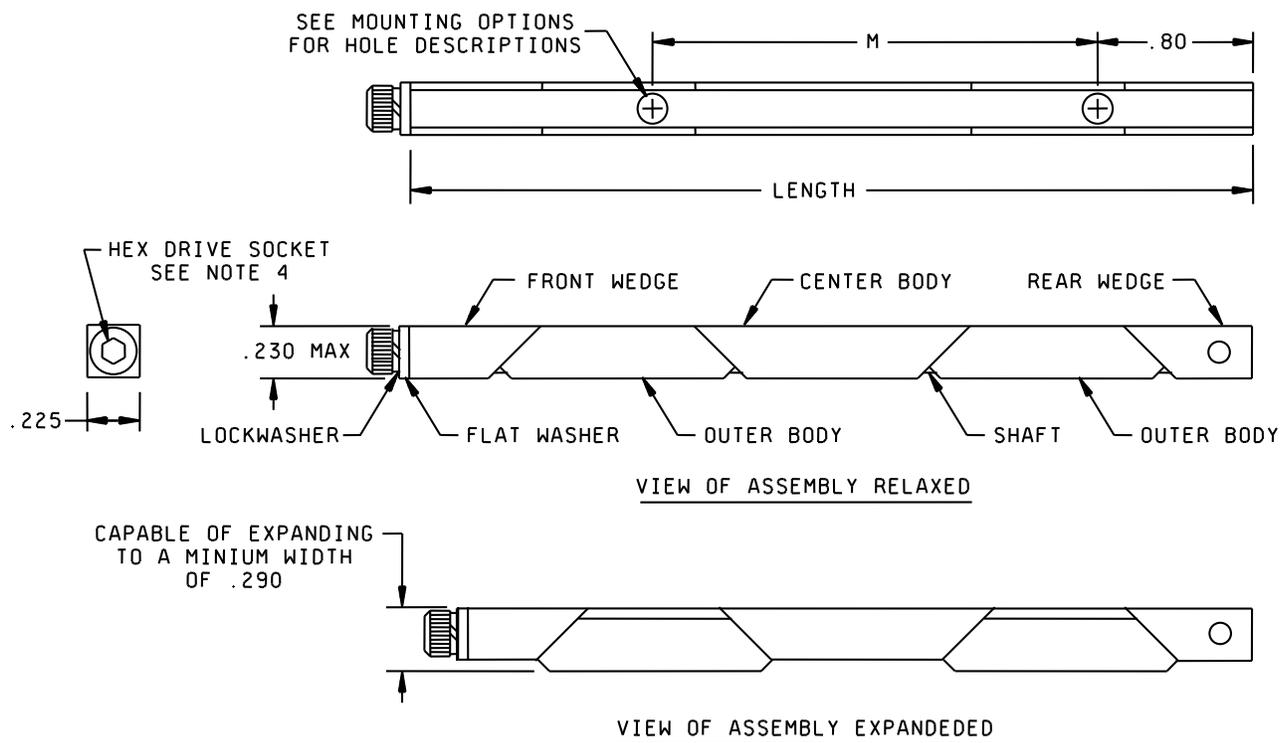


FIGURE 1. Relaxed and expanded dimensions.

## NOTES:

1. Dimensions are in inches. Millimeter equivalents are given for general information only.
2. Unless otherwise specified, tolerances are  $\pm 0.02$  inch (0.51 mm) for two place decimals and  $\pm 0.010$  inch (0.25 mm) for three place decimals.
3. Tolerance for the hole spacing is  $\pm 0.005$  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 – Continued.

Finish. The wedge body finish designator shall be as specified in [A-A-59789](#). The wedge body 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 card holder dimensions (see [figure 1](#)). 1/

PIN length designator	Dimension "Length" $\pm 0.02$ (0.5)	Dimension "M" $\pm 0.01$ (0.3)	Dimension "M/2" $\pm 0.02$ (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 general 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 [figure 1](#) and table II 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 through holes, 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 options: no added hardware, screw self-locking element (see [figure 2](#)), an additional mounting hole (see [figure 3](#)), or a combination of both screw self-locking element and third mounting. See [table I](#) for the correct PIN configuration identifier for the hardware option needed. Card holders requiring no added hardware options shall include configuration identifier "C" in the PIN (see [classification](#) and [notes](#) section herein).

Screw self-locking element (see [figure 2](#)). The use of a screw self-locking element on the screw will provide a prevailing-torque for increased resistance to loosening of the card holder assembly from shock and 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 [table I](#), [classification](#) and [notes](#) section herein).

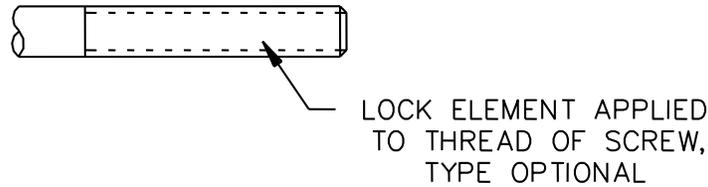


FIGURE 2. Screw self-locking element details.

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

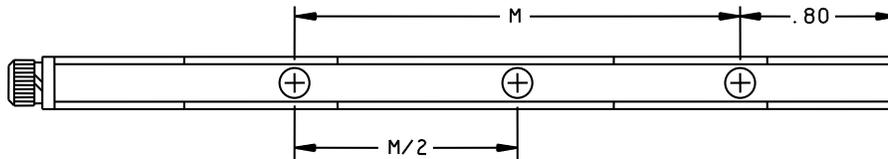


FIGURE 3. Additional mounting hole details.

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

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>.)

Ordering data. Ordering data shall be as 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.)

<u>Manufacturer CAGE</u>	<u>Manufacturer name and address</u>	<u>Manufacturer contact information</u>	
5BG68	American Circuit Card Retainers, Inc. 2310 E. Orangethorpe Avenue Anaheim, CA 92806-1231	Telephone: (714) 738-6194 Facsimile: (714) 446-0119 E-mail: <a href="mailto:sales@accrmfg.com">sales@accrmfg.com</a> URL: <a href="http://www.accrmfg.com">www.accrmfg.com</a>	
76096	Elma Electronic, Inc. 44350 Grimmer Blvd. Fremont, CA 94538-6385	Telephone: (510) 656-3400 Facsimile: (510) 656-3783 Electronic mail: <a href="mailto:sales@elma.com">sales@elma.com</a> URL: <a href="http://www.elma.com">www.elma.com</a>	
61081	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: <a href="mailto:schroff.us@pentair.com">schroff.us@pentair.com</a> URL: <a href="http://www.pentairprotect.com">www.pentairprotect.com</a>	
3E7U8	Simon Industries Inc. dba Wakefield-Vette 2910 Industrial Drive Raleigh, NC 27609-7529	Telephone: (919) 469-2004 Facsimile: (919) 469-2827 E-mail: <a href="mailto:wedgelocks@wakefield.com">wedgelocks@wakefield.com</a> URL: <a href="http://www.wakefield-vette.com">www.wakefield-vette.com</a>	

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 AA59789/09	Vendor similar designator or type part number <a href="#">1/</a> <a href="#">2/</a>			
	CAGE 5BG68	CAGE 76096	CAGE 61081	CAGE 3E7U8
CB50M	5266BA-4.80TM2.5	290-B0480T22NNNN	A265-4.80TM2.5	422C-480MSB
CB50R	5266BA-4.80H	290-B0480T25NNNN	A265-4.80H	422C-480RSB
CB50S	5266BA-4.80T2	290-B0480T21NNNN	A265-4.80T2	422C-480SSB
CB50T	5266BA-4.80T0	290-B0480T23NNNN	A265-4.80T0	422C-480TSB
CB50U	5266BA-4.80TM2	290-B0480T24NNNN	A265-4.80TM2	422C-480USB
LB50M	5266BA-4.80TM2.5L	290-B0480T22LNNN	A265-4.80TM2.5L	422C-480MSB-P
LB50R	5266BA-4.80HL	290-B0480T25LNNN	A265-4.80HL	422C-480RSB-P
LB50S	5266BA-4.80T2L	290-B0480T21LNNN	A265-4.80T2L	422C-480SSB-P
LB50T	5266BA-4.80T0L	290-B0480T23LNNN	A265-4.80T0L	422C-480TSB-P
LB50U	5266BA-4.80TM2L	290-B0480T24LNNN	A265-4.80TM2L	422C-480USB-P

See footnotes at end of table.

TABLE III. Commercial part number supersession data – Continued.

PIN designator AA59789/09	Vendor similar designator or type part number <u>1/</u> <u>2/</u>			
	CAGE 5BG68	CAGE 76096	CAGE 61081	CAGE 3E7U8
EB50M	5266BA-4.80ETM2.5	290-B0480T32NNNN2	A265-4.80ETM2.5	422C-480MSB-C
EB50R	5266BA-4.80EH	290-B0480T35NNNN	A265-4.80EH	422C-480RSB-C
EB50S	5266BA-4.80ET2	290-B0480T31NNNN	A265-4.80ET2	422C-480SSB-C
EB50T	5266BA-4.80ET0	290-B0480T33NNNN	A265-4.80ET0	422C-480TSB-C
EB50U	5266BA-4.80ETM2	290-B0480T34NNNN	A265-4.80ETM2	422C-480USB-C
DB50M	5266BA-4.80ETM2.5L	290-B0480T32LNNN	A265-4.80ETM2.5L	422C-480MSB-CP
DB50R	5266BA-4.80EHL	290-B0480T35LNNN	A265-4.80EHL	422C-480RSB-CP
DB50S	5266BA-4.80ET2L	290-B0480T31LNNN	A265-4.80ET2L	422C-480SSB-CP
DB50T	5266BA-4.80ET0L	290-B0480T33LNNN	A265-4.80ET0L	422C-480TSB-CP
DB50U	5266BA-4.80ETM2L	290-B0480T34LNNN	A265-4.80ETM2L	422C-480USB-CP
CE50M	5266EN-4.80TM2.5	290-N0480T22NNNN	EN265-4.80TM2.5	422C-480MSE
CE50R	5266EN-4.80H	290-N0480T25NNNN	EN265-4.80H	422C-480RSE
CE50S	5266EN-4.80T2	290-N0480T21NNNN	EN265-4.80T2	422C-480SSE
CE50T	5266EN-4.80T0	290-N0480T23NNNN	EN265-4.80T0	422C-480TSE
CE50U	5266EN-4.80TM2	290-N0480T24NNNN	EN265-4.80TM2	422C-480USE
LE50M	5266EN-4.80TM2.5L	290-N0480T22LNNN	EN265-4.80TM2.5L	422C-480MSE-P
LE50R	5266EN-4.80HL	290-N0480T25LNNN	EN265-4.80HL	422C-480RSE-P
LE50S	5266EN-4.80T2L	290-N0480T21LNNN	EN265-4.80T2L	422C-480SSE-P
LE50T	5266EN-4.80T0L	290-N0480T23LNNN	EN265-4.80T0L	422C-480TSE-P
LE50U	5266EN-4.80TM2L	290-N0480T24LNNN	EN265-4.80TM2L	422C-480USE-P
EE50M	5266EN-4.80ETM2.5	290-N0480T32NNNN	EN265-4.80ETM2.5	422C-480MSE-C
EE50R	5266EN-4.80EH	290-N0480T35NNNN	EN265-4.80EH	422C-480RSE-C
EE50S	5266EN-4.80ET2	290-N0480T31NNNN	EN265-4.80ET2	422C-480SSE-C
EE50T	5266EN-4.80ET0	290-N0480T33NNNN	EN265-4.80ET0	422C-480TSE-C
EE50U	5266EN-4.80ETM2	290-N0480T34NNNN	EN265-4.80ETM2	422C-480USE-C
DE50M	5266EN-4.80ETM2.5L	290-N0480T32LNNN	EN265-4.80ETM2.5L	422C-480MSE-CP
DE50R	5266EN-4.80EHL	290-N0480T35LNNN	EN265-4.80EHL	422C-480RSE-CP
DE50S	5266EN-4.80ET2L	290-N0480T31LNNN	EN265-4.80ET2L	422C-480SSE-CP
DE50T	5266EN-4.80ET0L	290-N0480T33LNNN	EN265-4.80ET0L	422C-480TSE-CP
DE50U	5266EN-4.80ETM2L	290-N0480T34LNNN	EN265-4.80ETM2L	422C-480USE-CP

See footnotes at end of table.

TABLE III. Commercial part number supersession data – Continued.

PIN designator AA59789/09	Vendor similar designator or type part number <u>1/ 2/</u>			
	CAGE 5BG68	CAGE 76096	CAGE 61081	CAGE 3E7U8
CH50M	5266BH-4.80TM2.5	290-H0480T22NNNN	HA265-4.80TM2.5	422C-480MSH
CH50R	5266BH-4.80H	290-H0480T25NNNN	HA265-4.80H	422C-480RSH
CH50S	5266BH-4.80T2	290-H0480T21NNNN	HA265-4.80T2	422C-480SSH
CH50T	5266BH-4.80T0	290-H0480T23NNNN	HA265-4.80T0	422C-480TSH
CH50U	5266BH-4.80TM2	290-H0480T24NNNN	HA265-4.80TM2	422C-480USH
LH50M	5266BH-4.80TM2.5L	290-H0480T22LNNN	HA265-4.80TM2.5L	422C-480MSH-P
LH50R	5266BH-4.80HL	290-H0480T25LNNN	HA265-4.80HL	422C-480RSH-P
LH50S	5266BH-4.80T2L	290-H0480T21LNNN	HA265-4.80T2L	422C-480SSH-P
LH50T	5266BH-4.80T0L	290-H0480T23LNNN	HA265-4.80T0L	422C-480TSH-P
LH50U	5266BH-4.80TM2L	290-H0480T24LNNN	HA265-4.80TM2L	422C-480USH-P
EH50M	5266BH-4.80ETM2.5	290-H0480T32NNNN	HA265-4.80ETM2.5	422C-480MSH-C
EH50R	5266BH-4.80EH	290-H0480T35NNNN	HA265-4.80EH	422C-480RSH-C
EH50S	5266BH-4.80ET2	290-H0480T31NNNN	HA265-4.80ET2	422C-480SSH-C
EH50T	5266BH-4.80ET0	290-H0480T33NNNN	HA265-4.80ET0	422C-480TSH-C
EH50U	5266BH-4.80ETM2	290-H0480T34NNNN	HA265-4.80ETM2	422C-480USH-C
DH50M	5266BH-4.80ETM2.5L	290-H0480T32LNNN	HA265-4.80ETM2.5L	422C-480MSH-CP
DH50R	5266BH-4.80EHL	290-H0480T35LNNN	HA265-4.80EHL	422C-480RSH-CP
DH50S	5266BH-4.80ET2L	290-H0480T31LNNN	HA265-4.80ET2L	422C-480SSH-CP
DH50T	5266BH-4.80ET0L	290-H0480T33LNNN	HA265-4.80ET0L	422C-480TSH-CP
DH50U	5266BH-4.80ETM2L	290-H0480T34LNNN	HA265-4.80ETM2L	422C-480USH-CP
CR50M	5266CC-4.80TM2.5	290-R0480T22NNNN	R265-4.80TM2.5	422C-480MST
CR50R	5266CC-4.80H	290-R0480T25NNNN	R265-4.80H	422C-480RST
CR50S	5266CC-4.80T2	290-R0480T21NNNN	R265-4.80T2	422C-480SST
CR50T	5266CC-4.80T0	290-R0480T23NNNN	R265-4.80T0	422C-480TST
CR50U	5266CC-4.80TM2	290-R0480T24NNNN	R265-4.80TM2	422C-480UST
LR50M	5266CC-4.80TM2.5L	290-R0480T22LNNN	R265-4.80TM2.5L	422C-480MST-P
LR50R	5266CC-4.80HL	290-R0480T25LNNN	R265-4.80HL	422C-480RST-P
LR50S	5266CC-4.80T2L	290-R0480T21LNNN	R265-4.80T2L	422C-480SST-P
LR50T	5266CC-4.80T0L	290-R0480T23LNNN	R265-4.80T0L	422C-480TST-P
LR50U	5266CC-4.80TM2L	290-R0480T24LNNN	R265-4.80TM2L	422C-480UST-P

See footnotes at end of table.

TABLE III. Commercial part number supersession data – Continued.

PIN designator AA59789/09	Vendor similar designator or type part number <u>1/</u> <u>2/</u>			
	CAGE 5BG68	CAGE 76096	CAGE 61081	CAGE 3E7U8
ER50M	5266CC-4.80ETM2.5	290-R0480T32NNNN	R265-4.80ETM2.5	422C-480MST-C
ER50R	5266CC-4.80EH	290-R0480T35NNNN	R265-4.80EH	422C-480RST-C
ER50S	5266CC-4.80ET2	290-R0480T31NNNN	R265-4.80ET2	422C-480SST-C
ER50T	5266CC-4.80ET0	290-R0480T33NNNN	R265-4.80ET0	422C-480TST-C
ER50U	5266CC-4.80ETM2	290-R0480T34NNNN	R265-4.80ETM2	422C-480UST-C
DR50M	5266CC-4.80ETM2.5L	290-R0480T32LNNN	R265-4.80ETM2.5L	422C-480MST-CP
DR50R	5266CC-4.80EHL	290-R0480T35LNNN	R265-4.80EHL	422C-480RST-CP
DR50S	5266CC-4.80ET2L	290-R0480T31LNNN	R265-4.80ET2L	422C-480SST-CP
DR50T	5266CC-4.80ET0L	290-R0480T33LNNN	R265-4.80ET0L	422C-480TST-CP
DR50U	5266CC-4.80ETM2L	290-R0480T34LNNN	R265-4.80ETM2L	422C-480UST-CP

1/ The CID PINs listed are only for length designator "50".

2/ 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 IV 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 AA59789/09	Vendor similar designator or type part number <u>1/</u> <u>2/</u>			
	CAGE 5BG68	CAGE 76096	CAGE 61081	CAGE 3E7U8
DEH30T	5266EN-2.80ET0L	290-H0280T21LNNN	EN265-2.80ET0L	422C-280TSE-CP
DEH40T	5266EN-3.80ET0L	290-H0380T21LNNN	EN265-3.80ET0L	422C-380TSE-CP
DEH50T	5266EN-4.80ET0L	290-H0480T21LNNN	EN265-4.80ET0L	422C-480TSE-CP

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 5998-2016-015

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>.