

COMMERCIAL ITEM DESCRIPTION
SPECIFICATION SHEET

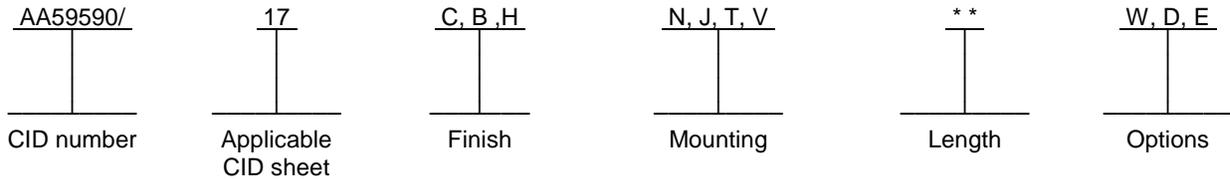
HOLDERS, ELECTRICAL CARD, WEDGE RETAINERS, 3 PIECE,
SCREW ACTUATED DRIVE, .260 X .260 INCH BODY SIZE

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-59590.

SCOPE. This CID specification sheet covers 3 piece card holders that use screw actuated wedges to hold circuit card assemblies into their installed positions in heat sinking devices (cold plates, heat exchanger) or other applications. Card holders covered by this CID are intended to provide 60g/6ms resistance to shock, withstand 25 G-rms of vibration and provide 2 to 4 degrees C/W/inch thermal resistance between the circuit card assemblies and the heat sink surfaces. Items covered by this CID specification sheet are intended for commercial/industrial applications.

CLASSIFICATION. This CID specification sheet uses a classification system which is included in the Part Identification Number (PIN) as shown in the following example (see notes).



SALIENT CHARACTERISTICS.

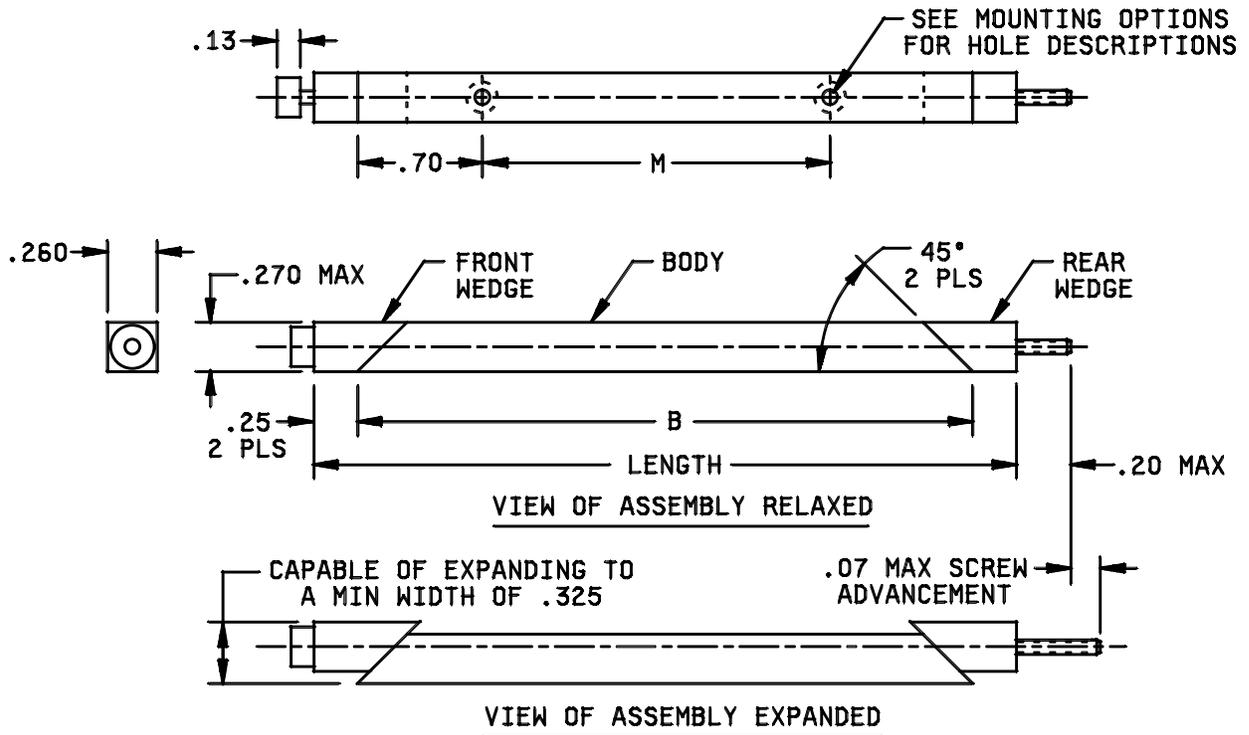
Performance. Card holders shall hold the circuit card firmly in place providing high resistance to shock and vibration while providing maximum thermal transfer.

Interface and physical dimensions. The card holders supplied to this CID specification sheet shall be as specified herein and the general CID.

Expanded and relaxed dimensions. Expanded and relaxed dimensions shall be as specified in figure 1.

Mounting options. The mounting options shall be as specified in A-A-59590.

Mounting holes (when required). Two mounting holes are required on card holders less than 6.00 inches (152.4 mm) in length. See table I and figure 1 for mounting hole spacing requirements.



Inches	mm	Inches	mm	Inches	mm	Inches	mm
.07	1.8	.20	5.1	.260	6.6	.325	8.26
.13	3.3	.25	6.4	.270	6.86	.70	17.8

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for information only.
3. Unless otherwise specified, tolerances are $\pm .02$ (0.5 mm), for 2 places and $\pm .010$ (0.25 mm), for 3 places.

FIGURE 1. Relaxed and expanded dimensions.

TABLE I. Assembly dimensions.

PIN length designator	Dimension "LENGTH" $\pm .02$ (± 0.5)	Dimension "B" $\pm .03$ (± 0.8)	Dimension "M" $\pm .005$ (± 0.13)
28	2.8 (71)	2.30 (58.4)	.90 (22.9)
38	3.8 (96)	3.30 (83.8)	1.90 (48.3)
48	4.8 (122)	4.30 (109.2)	2.90 (73.7)
58	5.8 (147)	5.30 (134.6)	3.90 (99.1)

Options. Card holders can have the following options. Card holders not requiring one of the following options shall leave the options position in the PIN blank.

Lockwasher and flat washer (see figure 2). A lockwasher and flat washer located under the screw head will provide for additional resistance to loosening from shock and vibration. Card holders requiring a lockwasher and flat washer option shall include a suffix "W" in the PIN (see classification and notes).

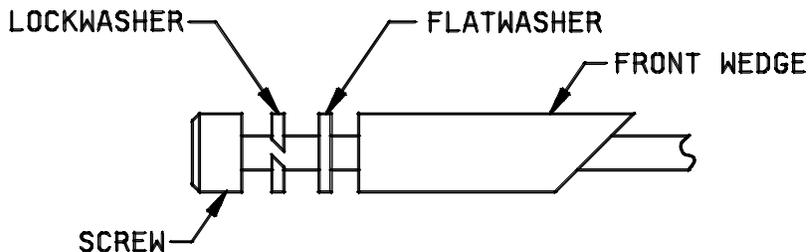


FIGURE 2. Lockwasher and flat washer details.

Screw self-locking element (see figure 3). The use of a screw self-locking element will provide prevailing torque for resistance to loosening from shock vibration. Card holders requiring a screw self-locking element shall include a suffix "E" in the PIN (see classification and notes).



FIGURE 3. Screw self-locking element details.

Lockwasher, flat washer, and screw self-locking element. Card holders requiring a lockwasher, flat washer, and screw self-locking element option shall include a suffix "D" in the PIN (see classification and notes).

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.

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>
52094	Calmark Corporation 4915 Walnut Grove Avenue San Gabriel, CA 91776-2099	Tel: (626) 287-0451 Fax: (626) 287-7350 E-mail: sales@calmark.com URL: www.calmark.com

Part number supersession data. This CID specification sheet part numbers supersedes the following manufacturer's part numbers as shown. This information is being provided to assist in reducing proliferation in the Government inventory system.

TABLE II. Commercial P/N supersession data. ^{1/}

PIN designator AA59590/17	Vendor similar designator or type part number ^{2/} CAGE 52094	PIN designator AA59590/17	Vendor similar designator or type part number ^{2/} CAGE 52094
CJ28	245-2.80H	CJ28W	W245-2.80H
CN28	245-2.80	CN28W	W245-2.80
CT28	245-2.80T0	CT28W	W245-2.80T0
CV28	245-2.80T2	CV28W	W245-2.80T2
CJ28E	245-2.80HL	CJ28D	W245-2.80HL
CN28E	245-2.80L	CN28D	W245-2.80L
CT28E	245-2.80T0L	CT28D	W245-2.80T0L
CV28E	245-2.80T2L	CV28D	W245-2.80T2L
BJ28	A245-2.80H	BJ28W	WA245-2.80H
BN28	A245-2.80	BN28W	WA245-2.80
BT28	A245-2.80T0	BT28W	WA245-2.80T0
BV28	A245-2.80T2	BV28W	WA245-2.80T2
BJ28E	A245-2.80HL	BJ28D	WA245-2.80HL
BN28E	A245-2.80L	BN28D	WA245-2.80L
BT28E	A245-2.80T0L	BT28D	WA245-2.80T0L
BV28E	A245-2.80T2L	BV28D	WA245-2.80T2L
HJ28	HA245-2.80H	HJ28W	WHA245-2.80H
HN28	HA245-2.80	HN28W	WHA245-2.80
HT28	HA245-2.80T0	HT28W	WHA245-2.80T0
HV28	HA245-2.80T2	HV28W	WHA245-2.80T2
HJ28E	HA245-2.80HL	HJ28D	WHA245-2.80HL
HN28E	HA245-2.80L	HN28D	WHA245-2.80L
HT28E	HA245-2.80T0L	HT28D	WHA245-2.80T0L
HV28E	HA245-2.80T2L	HV28D	WHA245-2.80T2L

^{1/} CID PINs listed only with length designator "28".

^{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 of the basic CID.

TABLE III. Example of PIN with available length designators.

PIN designator AA59590/17	Vendor similar designator or type part number ^{1/} CAGE 52094
CN28	245-2.80
CN38	245-3.80
CN48	245-4.80
CN58	245-5.80

^{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 of the basic CID.

MILITARY INTERESTS:

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

CIVIL AGENCY COORDINATING ACTIVITY:

GSA – 7FXE
 Preparing Activity:
 DLA – CC
 Project 5998–0117