



DEFENSE LOGISTICS AGENCY  
LAND AND MARITIME  
P.O. BOX 3990  
COLUMBUS, OHIO 43218-3990

April 7, 2016

MEMORANDUM FOR MILITARY/INDUSTRY DISTRIBUTION

SUBJECT: Initial Draft of DLA Land and Maritime drawing 85031B.  
Project Number: 5935-2016-E11

The initial draft for this subject document is now available for viewing and downloading from the DLA Land and Maritime-VA Web site:

<http://www.landandmaritime.dla.mil/programs/milspec/>

Major changes to this document include increasing the flange protrusion dimension and replacing canceled references.

Concurrence or comments are required at this Center within 30 days from the date of this letter. 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 or this office, as applicable, in sufficient time to allow for consolidating the department reply. Lack of response to this draft will be construed as concurrence.

If this document is of interest to you, please provide your comments or suggested changes. The point of contact for this document is Mr. Ranck, phone number 614-692-0645, e-mail [mitchell.ranck@dla.mil](mailto:mitchell.ranck@dla.mil), or may be mailed via the US Postal Service to DLA LAND AND MARITIME, ATTN: VAI (Attention: Mitchell Ranck), P.O. Box 3990, Columbus, OH 43218-3990.

Sincerely,

/ *SIGNED* /

ABDONASSER M. ABDOUNI  
Chief,  
Interconnection Branch

cc:  
FMVA (Dave Barman)  
[DSCC.Standardization@dla.mil](mailto:DSCC.Standardization@dla.mil)  
VQP (Alexander Baillieul)

REVISIONS			
LTR	DESCRIPTION	DATE	APPROVED
A	Add new part number for receptacle supplied with cap.	6 Dec 94	Charles W. Koeller
B	Updated to new DSCC drawing format. Remove references to canceled Military Specifications and add replacement Industry Specifications. Increase the flange protrusion max dimension. Add cadmium plating option.	29 Jun 16	Abdonasser M. Abdouni

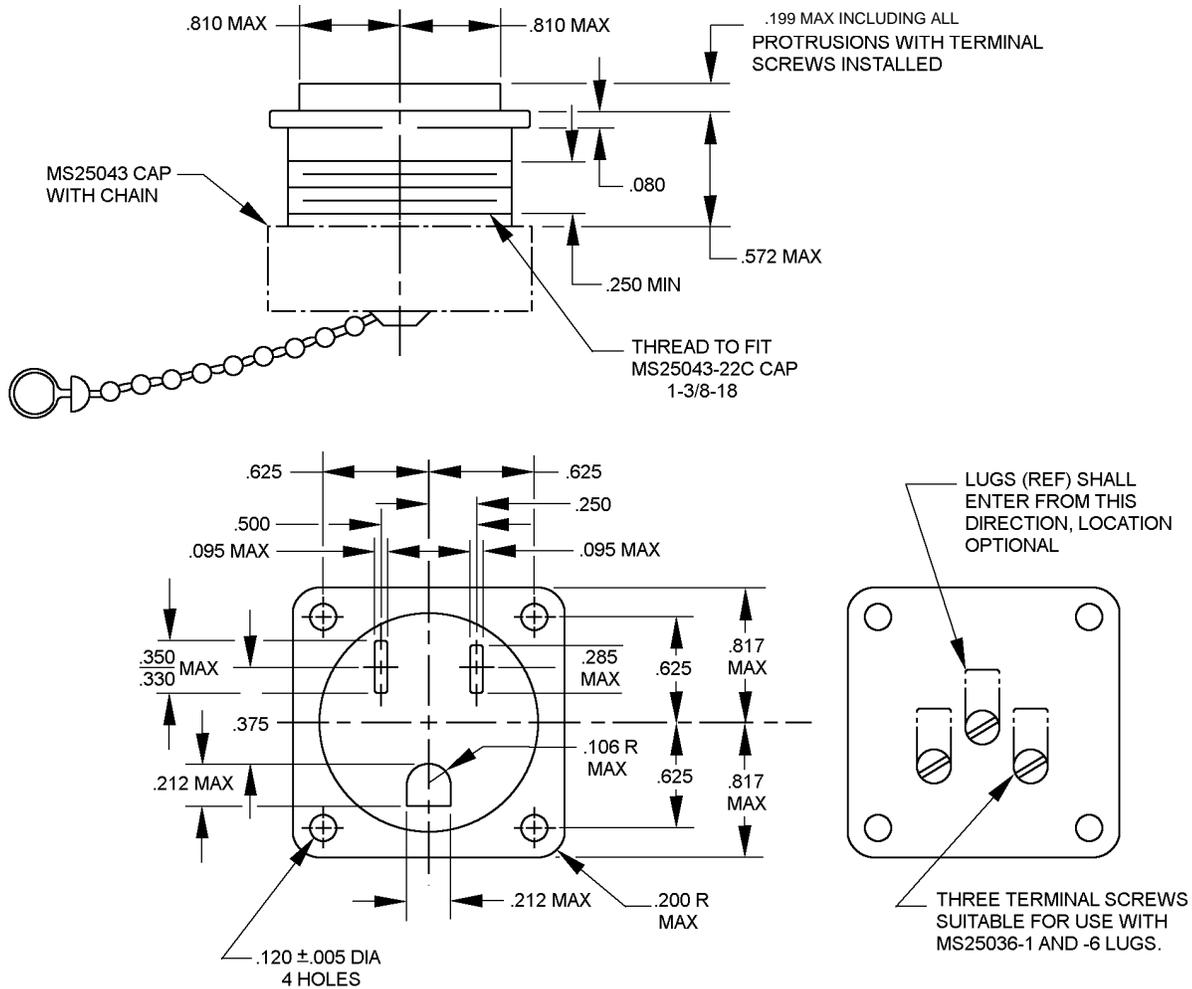
CURRENT DESIGN ACTIVITY CAGE CODE 037Z3 HAS CHANGED NAMES TO:  
DLA LAND AND MARITIME  
COLUMBUS, OHIO 43218-3990



Ancillary drawing

REV	A		A	A														
PAGE	1	2	3	4														
REV STATUS OF PAGES	REV		B	B	B													
	PAGE		1	2	3	4												

PMIC N/A	PREPARED BY Mitchell D. Ranck	DEFENSE SUPPLY CENTER, COLUMBUS COLUMBUS, OHIO 43218-3990
Original date of drawing  15 April 1986	CHECKED BY Jeremy M. Funk	TITLE CONNECTOR. RECEPTACLE, ELECTRICAL, GENERAL PURPOSE, SINGLE. GROUNDING, 2 POLE. 3 WIRE. 15 AMPERE. 125 VOLTS. ENVIRONMENTAL.
	APPROVED BY Abdonasser M. Abdouni	
	SIZE <b>A</b>	CAGE CODE <b>037Z3</b>
	REV <b>B</b>	PAGE <b>1</b> OF <b>4</b>



Inches	MM	Inches	MM
.005	0.13	.285	7.24
.080	2.03	.330	8.38
.095	2.41	.350	8.89
.106	2.69	.375	9.53
.120	3.05	.500	12.70
.200	5.08	.572	14.53
.212	5.39	.625	15.88
.250	6.35	.817	20.75

Figure 1. Screw Termination.

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**A**

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**89046**

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**REQUIREMENTS:**

Dimensions, configuration, and description: See figure 1.

Receptacle: Shall conform to the requirements of W-C-596 except as specified herein.

Ground pin:

Insertion: Shall establish contact at least .125 inch before contact is made by either of the power pins.

Insertion force: Shall not exceed 25 pounds.

Withdraw force: Shall be 15 pounds.

Minimum current: Shall have a continuous rating of 15 amperes at 120 volts, 60 hertz.

Potential voltage drop: Between the respective terminals of the connector shall not exceed 50 millivolts when carrying a current of 15 amperes when tested in accordance with W-C-596.

Color of terminals and heads of terminal screws:

Wide power terminal – White.

Narrow power terminal – Yellow.

Ground terminal – Green.

Materials:

Shells: Shall be of an aluminum alloy that meets the performance requirements of SAE AS50151 Class R. Shells shall be finished in accordance with SAE AS50151 Class R.

Contacts: Shall be made of suitably conductive copper alloys and shall be plated in accordance with ASTM B700. All contacting surfaces shall be smooth.

Connector inserts: Shall be in accordance with W-C-596.

Part or Identifying Number (PIN):

85031-1 (Connector only).

85031-2 (Connector and SAE AS25043-22 style Cap. With cadmium OD finish and sash chain will be supplied).

Cap: SAE AS25043-22DA Cap only.

Replacement data: Drawing 85031 replaces MS25199.

Intended use: Connectors conforming to this drawing are intended for use when military specifications do not exist and qualified devices that will perform the required function are not available for OEM application. This drawing is intended exclusively to prevent the proliferation of unnecessary duplicate specifications, drawings and stock catalog listings. When a military specification exists and the product covered by this drawing has been qualified for listing on the QPL-W-C-596 this drawing will become inactive for new designs. The QPL-W-C-596 product shall be the preferred item for all applications.

Comments: Comments on this drawing should be directed to DLA Land and Maritime -VAI, Columbus, Ohio 43218-3990, or telephone (614) 692-0576 or by e mail to [RFConnector@DLA.Land.and.Maritime.dla.mil](mailto:RFConnector@DLA.Land.and.Maritime.dla.mil).

<b>DEFENSE SUPPLY CENTER, COLUMBUS COLUMBUS, OH 43218-3990</b>	SIZE	CAGE CODE	DWG NO.
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		REV <b>D</b>	PAGE <b>3</b>

Approved sources of supply. Approved sources of supply are listed herein. Additional sources will be added as they become available. The vendors listed have agreed to the contents of this drawing and a certificate of compliance has been submitted to DLA Land and Maritime -VAI.

DLA Land and Maritime drawing PIN	Vendor CAGE number	Vendor similar PIN <u>1/</u>
85031-1	77820	7-8648
85031-2	77820	7-8648-5

1/ Caution. Parts must be purchased to this DLA Land and Maritime PIN to assure that all performance requirements and tests are met.

Vendor CAGE number	Vendor name and address
77820	Amphenol Corporation 40-60 Delaware Ave Sidney NY 13838

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