

INCH-POUND

MIL-DTL-12883/50B  
w/AMENDMENT 2  
17 August 2012  
SUPERSEDING  
MIL-DTL-12883/50B  
w/AMENDMENT 1  
29 March 2010

DETAIL SPECIFICATION SHEET

SOCKETS AND ACCESSORIES FOR PLUG-IN ELECTRONIC COMPONENTS, BRACKETS AND  
SOCKET ASSEMBLY FOR RELAYS, 2-POLE, 10 AMPERES  
(MIL-PRF-6106 AND MIL-PRF-83536)

This specification is approved for use by all Departments and Agencies of the Department of Defense.

The requirements for acquiring the product described herein shall consist of this specification sheet and MIL-DTL-12883.

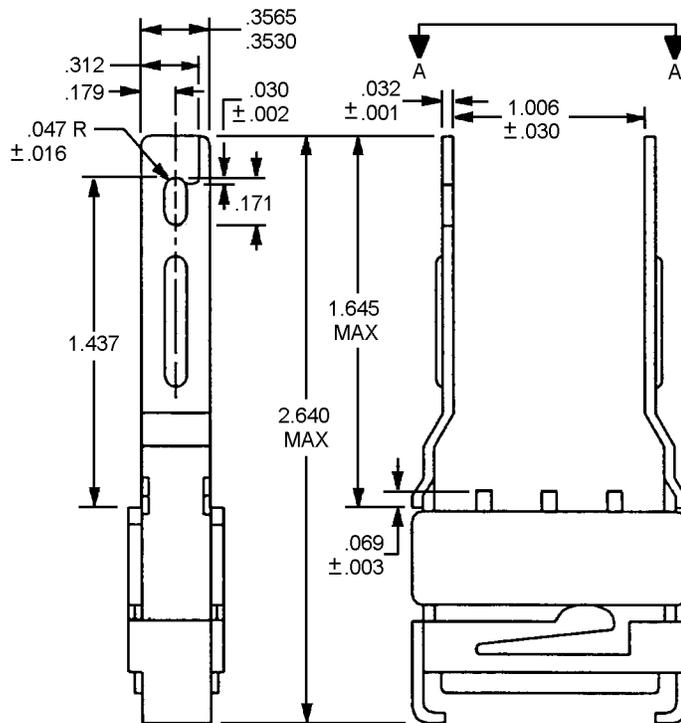


FIGURE 1. Dimensions and configurations.

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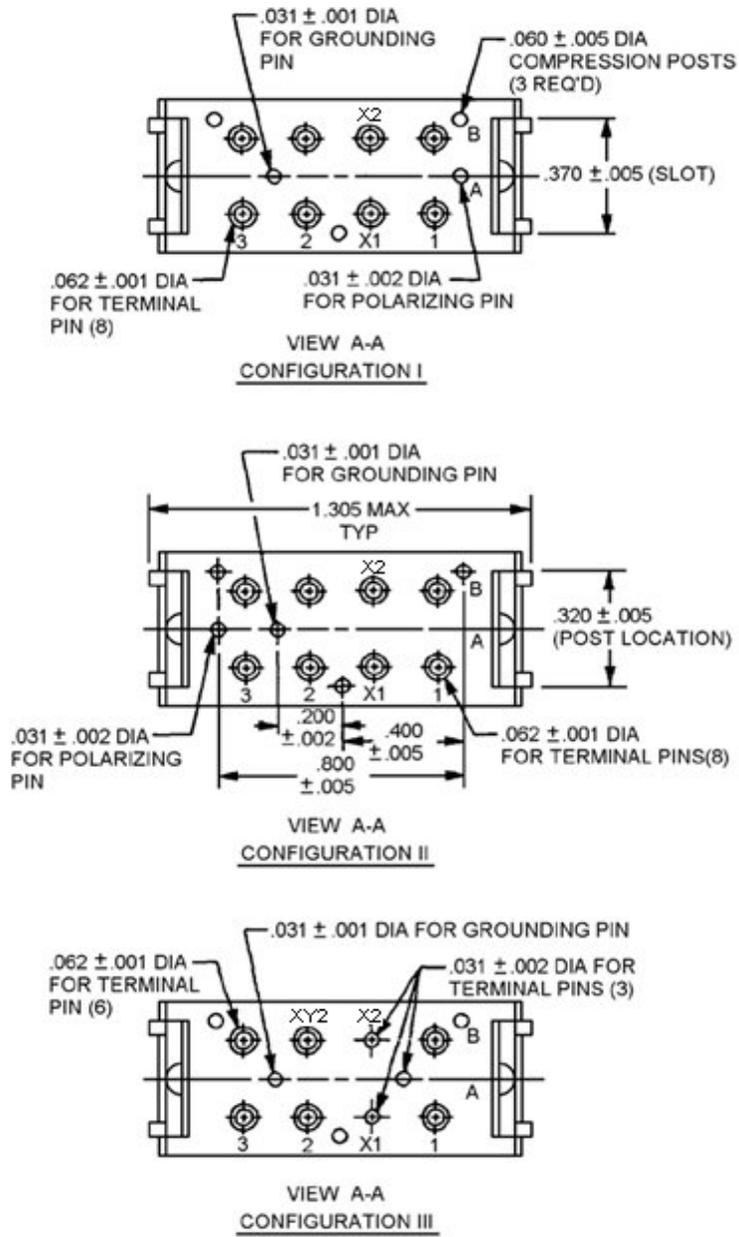


FIGURE 1. Dimensions and configurations – Continued.

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Inches	mm	Inches	mm	Inches	mm	Inches	mm
.001	0.03	.032	0.81	.200	5.08	.800	20.32
.002	0.05	.047	1.19	.312	7.92	1.006	25.55
.003	0.08	.060	1.52	.320	8.13	1.305	33.15
.005	0.13	.062	1.57	.3530	8.97	1.437	36.50
.016	0.41	.069	1.75	.3565	9.06	1.645	41.78
.030	0.76	.171	4.34	.370	9.40	2.640	67.06
.031	0.79	.179	4.55	.400	10.16		

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for information only.
3. Unless otherwise specified, tolerances are  $\pm .010$  inch (0.25 mm).
4. Terminal markings shall be of a contrasting color to the socket surface and shall appear on both the bottom and top surface per the applicable specification.
5. Color code, top surface of socket as specified in table I.

FIGURE 1. Dimensions and configurations – Continued.

REQUIREMENTS:

Dimensions and configurations: See figure 1.

Weight: .045 pound (20.41 grams) maximum.

Material:

Body: Polyetherimide.

Bracket: 17-7 ph cres passivated in accordance with SAE AMS2700.

Plating: Sulfamate nickel in accordance with SAE AMS-QQ-N-290, 100 microinches minimum.

Grommet: Silicone rubber.

Terminal/ground pins:

Use M39029/57-354 for 22 gage (.031) terminal/ground pins.

Use M39029/57-358 for 16 gage (.062) terminal pins.

Note: Neither contact is furnished with the socket module.

Minimum holding force: 3 lbs (13.34 Newton) when assembled to track (MIL-DTL-12883/49).

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Part or Identifying Number (PIN): The PIN shall consist of the basic number of this specification sheet and the dash number from table I.

Example:

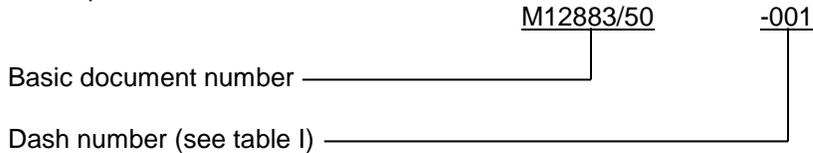


TABLE I. Dash number and characteristics. 1/

Dash number <u>2/</u>	Socket configuration	Applicable relay <u>3/ 4/</u>	Color code
001	I (ac)	MIL-PRF-83536/11-012	FED-STD-595/36231
002	II (dc)	MIL-PRF-83536/10-028	FED-STD-595/37038
003	III (dc latch)	MIL-PRF-83536/13-010	FED-STD-595/30252

1/ Reference MIL-PRF-83536 for supersession data on MIL-PRF-6106 relays.

2/ To be used in conjunction with relay mounting track MIL-DTL-12883/49 and applicable relay.

3/ Each socket module delivered shall have a hole pattern that:

- a. Permits installation of the mating relay into the socket module when the relative orientation of the two is correct.
- b. Prevents installation of this mating relay into the socket module when the relative orientation of the two is not correct.
- c. Prevents installation of all other relays into the socket module regardless of the orientation of the socket module and the relay.

4/ Any hole molded into the socket module that results in a pattern that is not consistent with 3/ shall be filled. The filling means shall exhibit the following characteristics:

- a. If a nonmetal, the fill material shall be proved to comply with the reversion resistance and hydrolytic stability requirements of MIL-HDBK-454, requirement 47.
- b. Shall be restrained from motion relative to the module material into which it is inserted.
- c. Shall have hardness comparable to that of the module material into which it is inserted.

Supersession data: See table II.

TABLE II. Supersession data. 1/

Superseded dash number M6106/4-	Superseding PIN
001	M12883/50-001
002	M12883/50-002
003	M12883/50-003

1/ For Government logistics support, supersession data becomes applicable when a qualified products list becomes available.

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The Government PIN, specified in table III, supersedes the following commercial PINs.

TABLE III. Supersession and cross reference.

Active Government PIN	Superseded manufacturers PIN
	CAGE 99699
M12883/50-001	BSE210-9
M12883/50-002	BSE210-8
M12883/50-003	BSEL210-2

Amendment notations. The margins of this specification are marked with vertical lines to indicate modifications generated by this amendment. 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.

Referenced documents. In addition to MIL-DTL-12883, this document references the following:

FED-STD-595/36231  
FED-STD-595/37038  
FED-STD-595/30252  
MIL-DTL-12883/49  
MIL-HDBK-454  
MIL-PRF-6106  
MIL-PRF-83536  
SAE AMS2700  
SAE AMS-QQ-N-290

CONCLUDING MATERIAL

Custodians:  
Army - CR  
Navy - EC  
Air Force - 85  
DLA -CC

Preparing activity:  
DLA - CC  
  
(Project 5935-2012-140)

Review activities:  
Army - MI  
Air Force - 99

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>.