

INCH-POUND

MIL-DTL-12883/50B  
18 February 2003  
SUPERSEDING  
MIL-PRF-12883/50A  
28 June 1996

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 and MIL-DTL-12883.

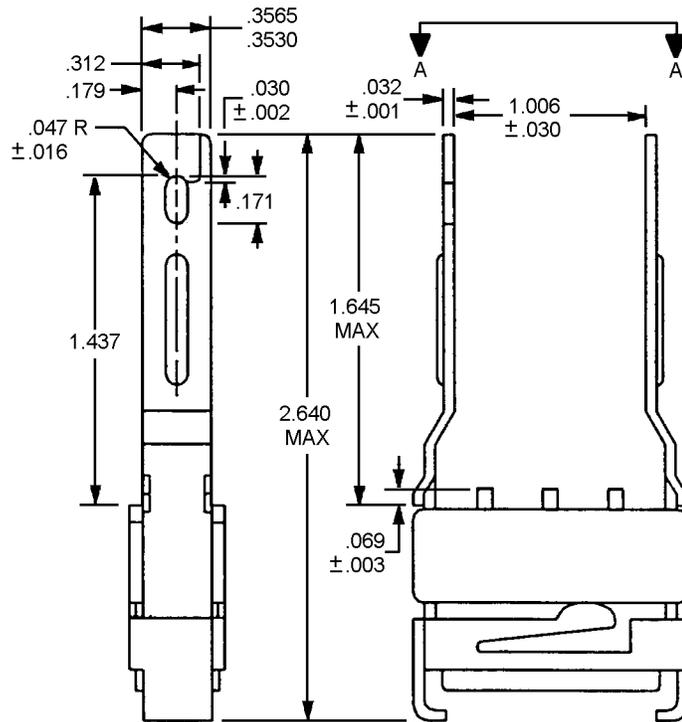
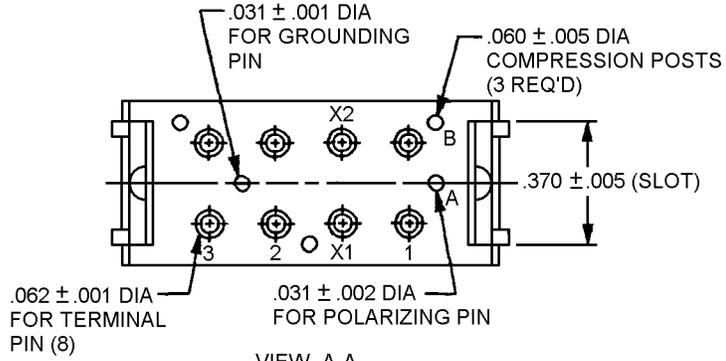
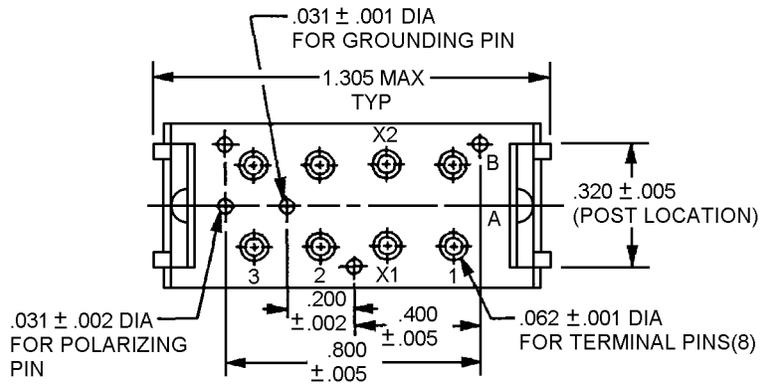


FIGURE 1. Dimensions and configurations.

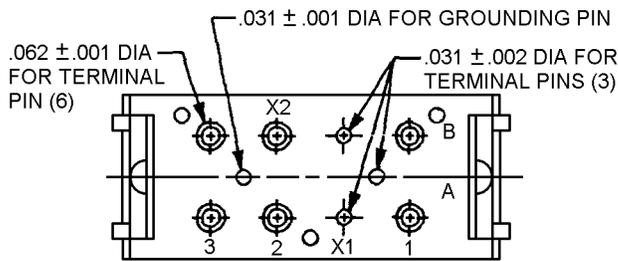
MIL-DTL-12883/50B



VIEW A-A  
CONFIGURATION I



VIEW A-A  
CONFIGURATION II



VIEW A-A  
CONFIGURATION III

FIGURE 1. Dimensions and configurations – Continued.

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	2.26	.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 general 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 per table I.

FIGURE 1. Dimensions and configuration – 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 AMS QQ-P-35.

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).

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:

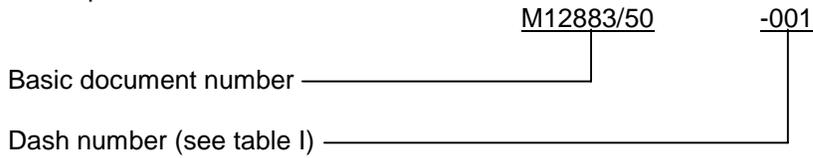


TABLE I. Dash number and characteristics. 1/

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

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

CONCLUDING MATERIAL

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

Preparing activity:  
DLA - CC

(Project 5935-4344-15)

Review activities:  
Army - MI  
Air Force - 99