

MIL-STD-1531A(USAF)
25 MAR 1988

SUPERSEDING
MIL-STD-1531(USAF)
1 OCTOBER 1972

MILITARY STANDARD

**INSERT ARRANGEMENTS
FOR
MIL-C-83733 RACK TO PANEL CONNECTORS,
SHELL SIZE A**



DEPARTMENT OF DEFENSE
Washington, D.C. 20301

Insert Arrangements for MIL-C-83733
Rack to Panel Connectors, Shell Size A

1. This Military Standard is approved for use by the Department of the Air Force.
2. Beneficial comments (recommendations, additions, deletions) and any pertinent data which may be of use in improving this document should be addressed to 2750 Air Base Wing (AFLC), ATTN: ES, Gentile Air Force Station, Dayton, Ohio 45444 by using the self-addressed Standardization Document Improvement Proposal (DD Form 1426) appearing at the end of this document or by letter.

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1. SCOPE

1.1 Scope. This standard covers insert arrangements for use with MIL-C-83733 rack to panel connectors, shell size A. It is used to control the dimensions and configuration of insert patterns and the contact sizes.

2. REFERENCED DOCUMENT

2.1 Government document.

2.1.1 Specification. The following specification forms a part of this standard to the extent specified herein. Unless otherwise specified, the issue of this document shall be that listed in the issue of the Department of Defense Index of Specifications and Standards (DODISS) and supplement thereto, cited in the solicitation.

SPECIFICATION

MILITARY

MIL-C-83733 Connectors, Electrical, Miniature, Rectangular Type, Rack to Panel, Environment Resisting, 200 °C Total Continuous Operating Temperature, General Specification For.

(Copies of the specification required by contractors in connection with specific acquisition functions should be obtained from the contracting activity or as directed by the contracting activity.)

3. DEFINITIONS

3.1 Definitions. The terms used in this standard are generally accepted by the electrical and electronics industries and commonly used in electrical connector engineering practice.

4. GENERAL REQUIREMENTS: Not applicable.

5. DETAIL REQUIREMENTS

5.1 Dimensions. Dimensions shall be in accordance with figure 1.

5.2 Marking. Marking shall be in accordance with MIL-C-83733 and as shown on figure 1.

* 5.3 Drawing notes. Unless otherwise specified, the following information is applicable to all figures of this military standard.

- a. Dimensions are in inches.
- b. Metric equivalents are given for general information only.
- c. Unless otherwise specified, tolerances are ± 0.005 .

6. NOTES

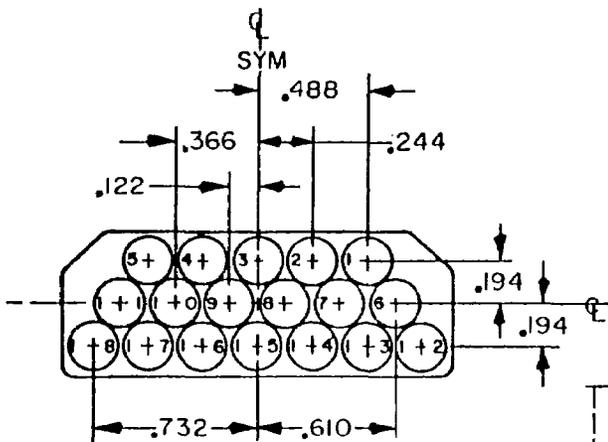
* 6.1 Subject term (key word) listing.

Connectors, rack to panel

Connectors, MIL-C-83733

Insert arrangements

6.2 Changes from previous issue. The margins of this standard are marked with asterisks to indicate where changes (additions, modifications, corrections, deletions) 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.

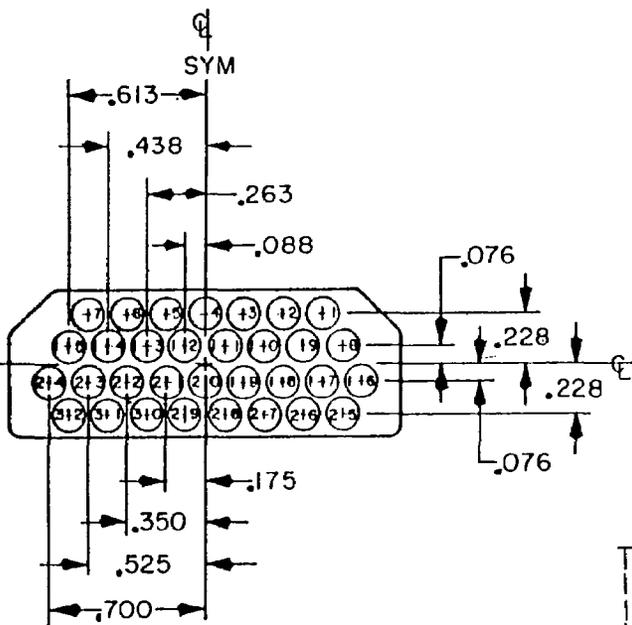


Inches	mm
.122	3.10
.194	4.93
.244	6.20
.366	9.30
.488	12.40
.610	15.49
.732	18.59

O18 LAYOUT

FACE VIEW PIN INSULATOR

Quantity	Service rating	Contact	Size	Shell size
18	I	A11	#12	A



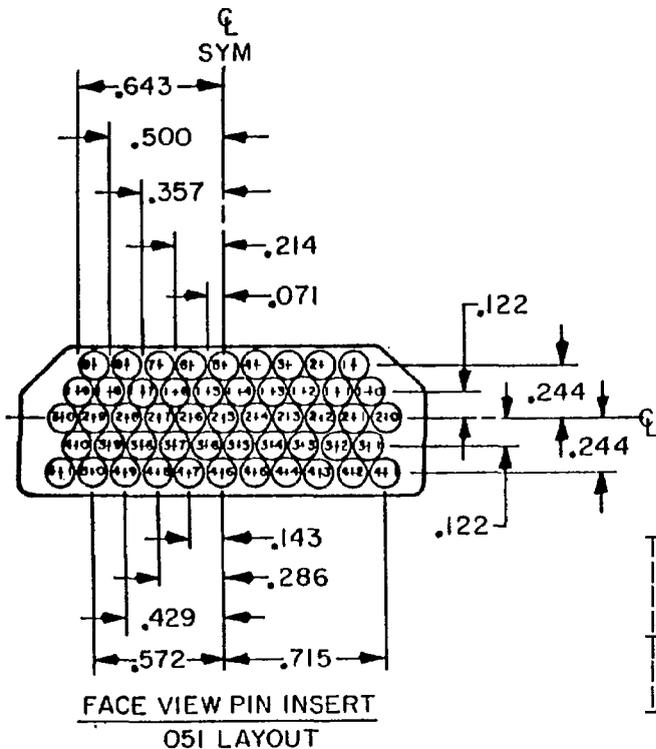
Inches	mm
.076	1.93
.088	2.24
.175	4.44
.228	5.79
.263	6.68
.350	8.89
.438	11.13
.525	13.34
.613	15.57
.700	17.78

O32 LAYOUT

FACE VIEW PIN INSULATOR

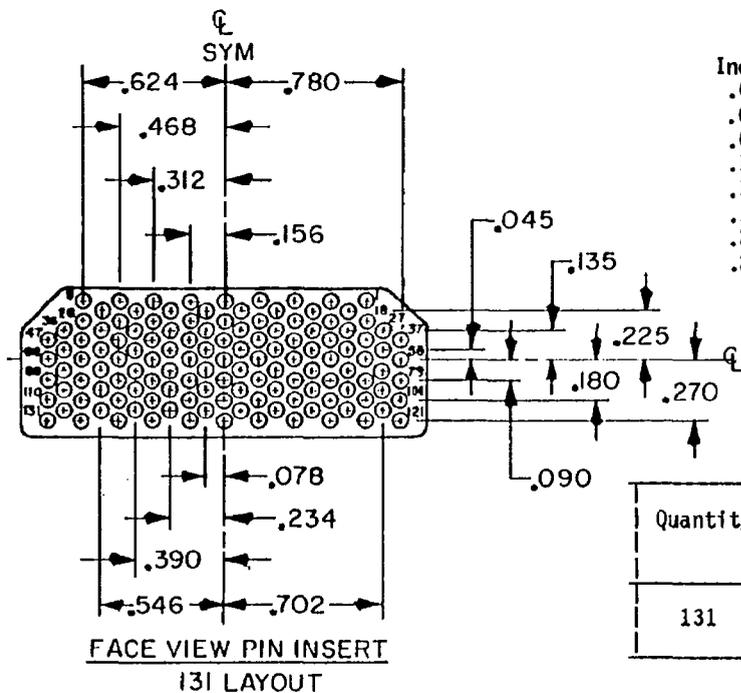
Quantity	Service rating	Contact	Size	Shell size
32	I	A11	#16	A

FIGURE 1. Dimensions and configurations.



Inches	mm	Inches	mm
.071	1.80	.357	9.07
.122	3.10	.429	10.90
.143	3.63	.500	12.70
.214	5.44	.572	14.53
.244	6.20	.643	16.33
.286	7.26	.715	18.16

Quantity	Service rating	Contact	Size	Shell size
51	I	All	#20	A



Inches	mm	Inches	mm
.045	1.14	.270	6.86
.078	1.98	.312	7.92
.090	2.29	.390	9.91
.135	3.43	.468	11.89
.156	3.96	.546	13.87
.180	4.57	.624	15.85
.225	5.72	.702	17.83
.235	5.97	.780	19.81

Quantity	Service rating	Contact	Size	Shell size
131	M	All	#22D	A

FIGURE 1. Dimensions and configurations - Continued.

Custodian:
Air Force - 85

Review activities:
Air Force - 70, 82, 99

User activity:
Air Force - 11

Preparing activity:
Air Force - 85

Agent:
DLA - ES

(Project 5935-F296)