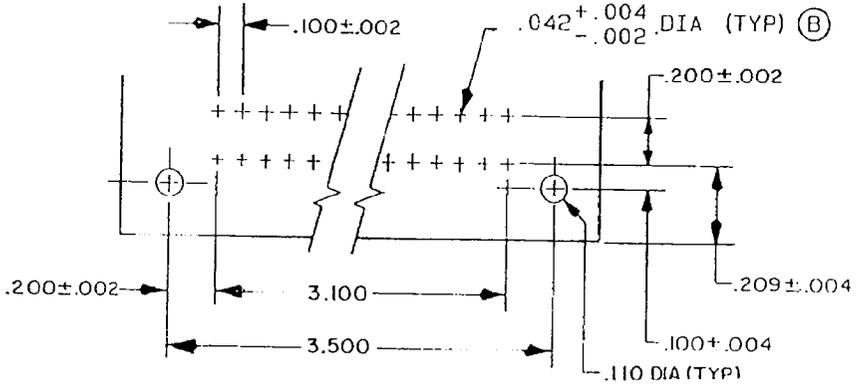
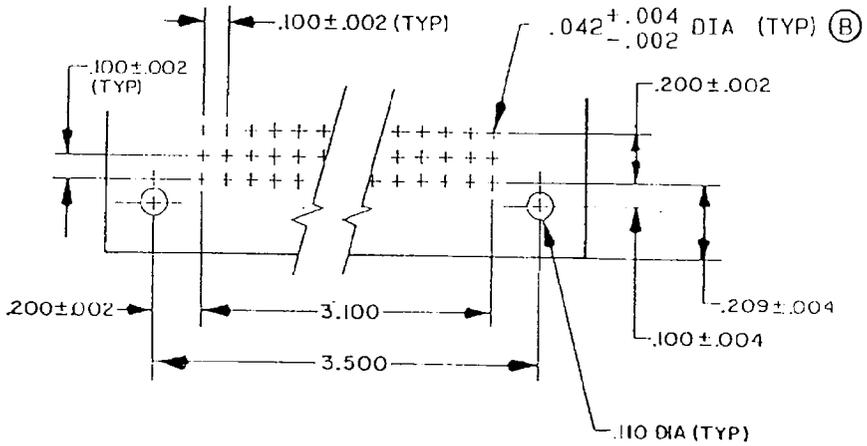


VIEW FROM TERMINATION END  
CONNECTOR MARKING



RECOMMENDED MOUNTING PATTERN 64 CONTACTS



RECOMMENDED MOUNTING PATTERN 96 CONTACTS

FIGURE 1. Connector, plug, .100 (2.54 mm) spacing - Continued.

Part or Identifying Number (PIN)	Number of Contacts	Type of termination
M55302/131-01	96	Printed circuit tails
M55302/131-02	64	Printed circuit tails

NOTE: PIN -02 connectors have the middle row (row B) of contacts excluded.

Inches	mm	Inches	mm	Inches	mm	Inches	mm
.001	0.03	.024	0.61	.102	2.59	.343	8.71
.002	0.05	.025	0.64	.104	2.64	.433	11.00
.004	0.10	.027	0.69	.110	2.79	.500	12.70
.005	0.13	.035	0.89	.127	3.23	.735	18.67
.008	0.20	.039	0.99	.146	3.71	3.100	78.74
.010	0.25	.040	1.02	.189	4.80	3.354	85.19
.015	0.38	.047	1.19	.200	5.08	3.500	88.90
.017	0.43	.070	1.78	.209	5.31	3.700	93.98
.020	0.51	.098	2.49	.236	5.99		
.022	0.56	.100	2.54	.252	6.40		

## NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for general information only.
3. Unless otherwise specified, tolerance is  $\pm 0.005$  (0.13 mm).
4. These connectors mate with connectors specified in MIL-C-55302/132.

FIGURE 1. Connector, plug, .100 (2.54 mm) spacing - Continued.

REQUIREMENTS:

Design and construction:

Dimensions and configuration: See figure 1.

Plating:

- Ⓑ Contact plating. The plating in the engagement area for .170 inch minimum length from the tip of the contact shall be gold in accordance with MIL-G-45204, type II, grade C or D, class I, over nickel plating in accordance with QQ-N-290, class 2, 30 to 150 microinches. The plating on the contact termination end for .170 inch minimum length from the end of the contact shall be tin lead in accordance with MIL-C-55302.
- Ⓑ Nonfunctional areas: Any portion of the contact other than the contact mating area or termination area can be plated in accordance with MIL-C-55302.

Contact identification: See figure 1.

Contact separation forces:

- Ⓑ Mating and unmating. The maximum mating force, in pounds, shall not exceed a value equal to .25 times the number of contacts, and the withdrawal force, in pounds, shall be a minimum of .025 times the number of contacts and shall exceed the measured insertion force, when the housing is loaded with contacts and mating with connector specified in MIL-C-55302/134.

Contact rating: 3 amperes maximum per contact.

Contact resistance: No individual contact pair shall have a resistance exceeded .020 ohm.

Contact retention: 3 pounds minimum per contact.

Dielectric withstanding voltage:

Sea level: 1,000 volts rms, 50 or 60 hertz.

High altitude: 300 volts rms, 50 or 60 hertz.

Oversize pin exclusion: Not applicable.

PIN: See figure 1.

CONCLUDING MATERIAL

Custodians:

Army - CR  
Navy - EC  
Air Force - 17

Preparing activity  
Army - CR

Agent:  
DLA - ES

Review activities:

Army - AR, AT, AV, MI  
Navy - AS, OS, SH  
Air Force - 11, 85, 99  
DLA - ES

(Project 5935-3796-01)

User activities:

Army - ME  
Navy - MC  
Air Force - 19