





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

MIL-C-55302/157A

Part number	Number of contacts	Type of termination	"A" Dimension
M55302/157-01	96	Wire wrap	.533 <u>3/</u>
M55302/157-02	96	Printed circuit (solder)	.180
M55302/157-03	64	Wire wrap	.533 <u>3/ 5/</u>
M55302/157-04	64	Printed circuit (solder)	.180 <u>5/</u>
M55302/157-05	96	Compliant pin	.250 <u>1/</u>
M55302/157-06	96	Compliant pin with wire wrap	.733 <u>2/</u>
M55302/157-07	64	Compliant pin	.250 <u>1/ 5/</u>
M55302/157-08	64	Compliant pin (wire wrap)	.733 <u>2/ 5/</u>

- 1/ Compliant pin suitable for .093 and .125 thick printed circuit board.
- 2/ Compliant pin suitable for .093 and .125 thick printed circuit board and .025<sup>2</sup> post for 3 wraps of 30 AWG or 2 wraps of 26 or 28 AWG.
- 3/ Wire wrap .025<sup>2</sup> post for 3 wraps of 30 AWG or 2 wraps of 26 or 28 AWG.
- 4/ Solder contact suitable for .062 or .093 thick printed circuit board.
- 5/ These connectors have middle row (row B) of contacts excluded.

INCHES	MM								
.001	0.03	.017	0.43	.040	1.02	.125	3.18	.250	6.35
.002	0.05	.020	0.51	.073	1.85	.127	3.23	.343	8.71
.004	0.10	.022	0.56	.088	2.24	.157	3.99	.437	11.10
.005	0.13	.024	0.61	.093	2.36	.180	4.57	.533	13.54
.008	0.20	.025	0.64	.098	2.49	.189	4.80	3.100	78.74
.010	0.25	.027	0.69	.100	2.54	.200	5.08	3.354	85.19
.012	0.30	.035	0.89	.110	2.79	.220	5.59	3.358	85.29
.015	0.38	.039	0.99	.114	2.90	.222	5.64	3.543	89.99
								3.740	95.00

NOTES:

- 1. Dimensions are in inches.
- 2. Metric equivalents are given for general information only.
- 3. Unless otherwise specified, tolerance is ±.005 (.13 mm).
- 4. These connectors mate with connectors specified in MIL-C-55302/158.
- 5. Wrap post contacts shall be in accordance with MIL-STD-1130.
- 6. Holes for compliant pin shall be manufactured as follows: .0453 ±.0010 drilled hole (1.15 mm drill) .001/.003 thick copper on wall, .0003 min. tin lead plating, finished hole diameter .037-.043 after plating, .036-.043 after reflow, copper hardness (Knoop) 150 max.

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

REQUIREMENTS:

Design and construction:

Dimensions and configuration: See figure 1.

Material and finish:

- Ⓐ Contact plating: Wrappost contacts shall be gold plated in accordance with MIL-G-45204, class 1, over nickel in accordance with QQ-N-290. Thickness of nickel plating shall be a minimum of 30 microinches. Printed circuit contacts in the engagement area for .200 inch minimum length from the top of the contact shall be gold plated per MIL-G-45204, type II, grade C or D, class 1, over nickel plating per QQ-N-290, 30 to 150 microinches. The plating on the remainder of the printed circuit contact shall be tin-lead per MIL-P-81728, type I, 100 microinches minimum over nickel plating per QQ-N-290, 30 to 150 microinches.

Contact identification: See figure 1.

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 not exceed the measured insertion force, when the housing is loaded with contacts and mated with connector specified in MIL-C-55302/158.

Contact rating: 3.0 amperes maximum per contact.

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

Contact retention: 3 pounds minimum per contact.

Dielectric withstanding voltage:

Oversize pin exclusion - Not applicable.

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

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

- Ⓐ Compliant pin contacts: Compliant pin contacts shall meet the performance requirements of MIL-STD-2166.

Part number: M55302/157- (dash number from figure 1).

Custodians:

Army - CR  
Navy - EC  
Air Force - 17

Review activities:

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

User activities:

Army - ME  
Navy - MC  
Air Force - 19

Preparing activity:

Army - CR

Agent:

DLA - ES

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