

MILITARY SPECIFICATION SHEET

CONNECTORS, PRINTED CIRCUIT SUBASSEMBLY AND ACCESSORIES;
 RECEPTACLE SOCKET CONTACTS, STRAIGHT THRU, 32 OR 64 CONTACT POSITIONS,
 FOR PRINTED WIRING BOARDS (.100 INCH SPACING)

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

The complete requirements for acquiring the connectors described herein shall consist of this specification and the latest issue of MIL-C-55302.

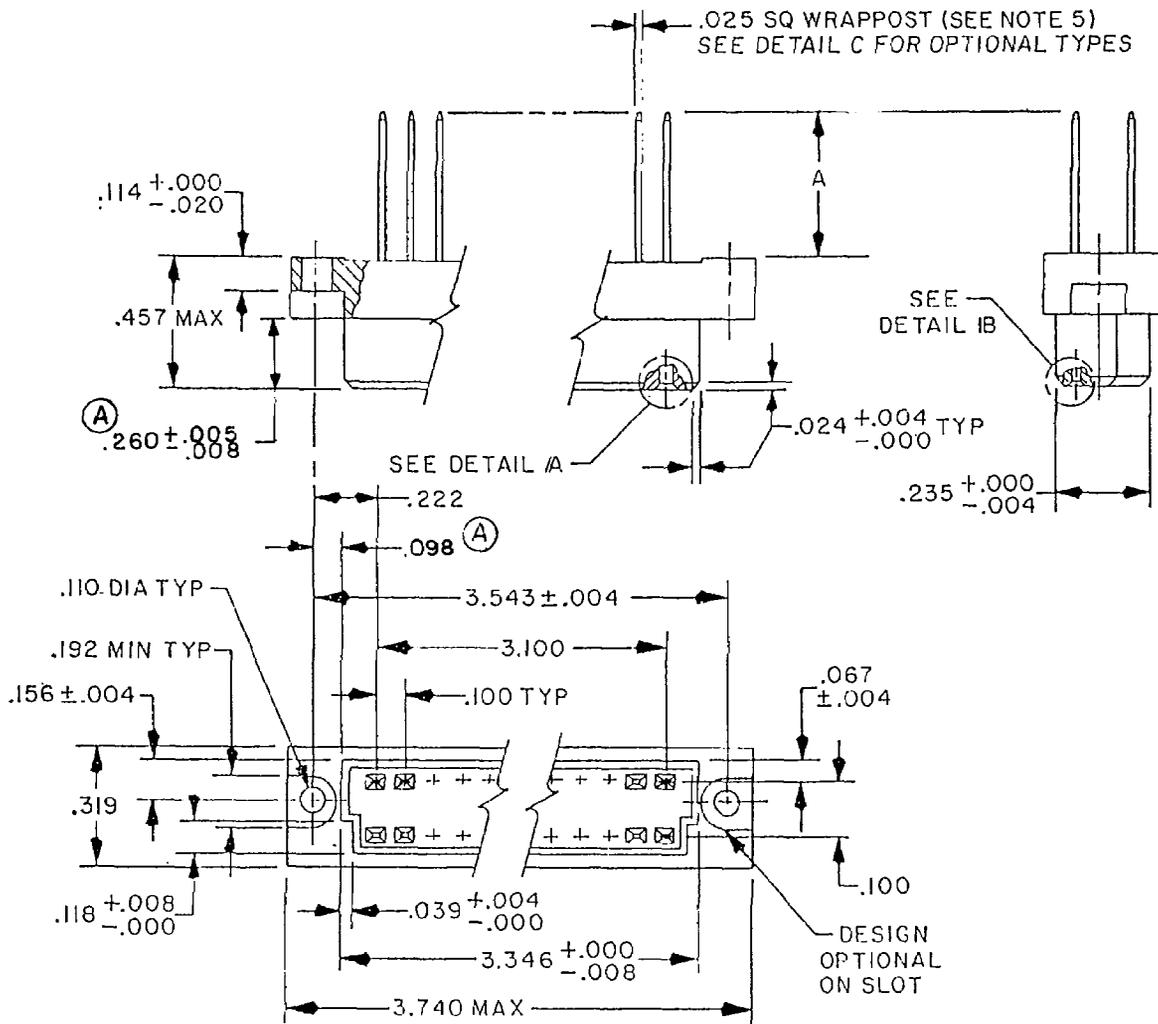


FIGURE 1. Connector, receptacle, .100 (2.54 mm) spacing.

\textcircled{A} denotes changes

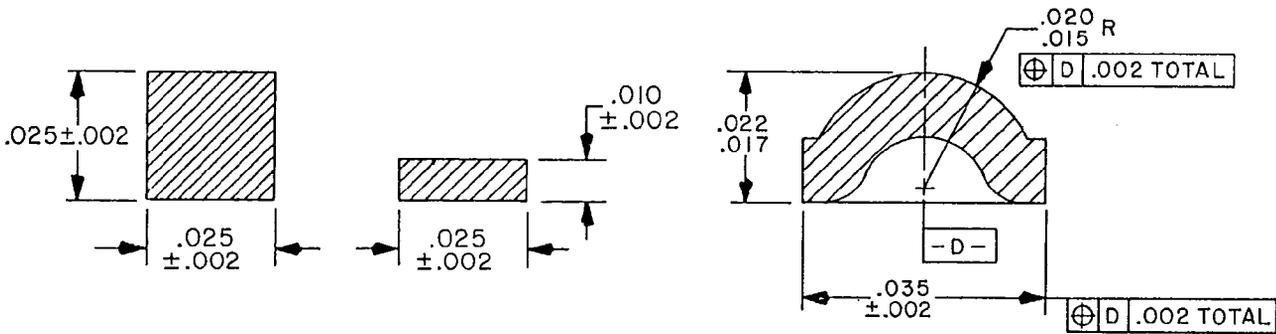
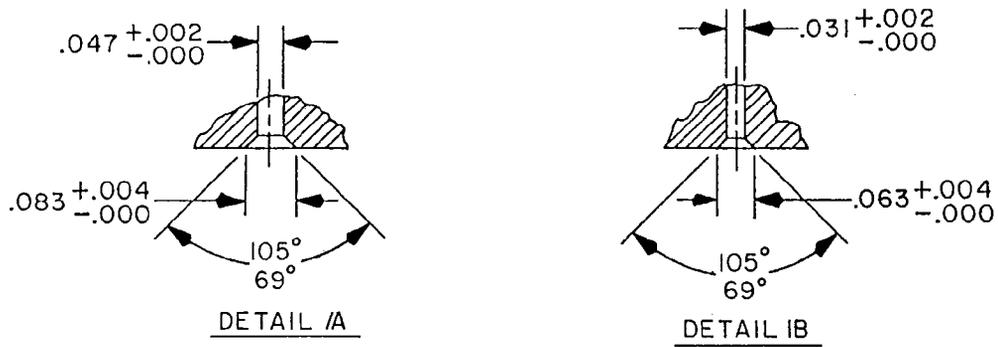
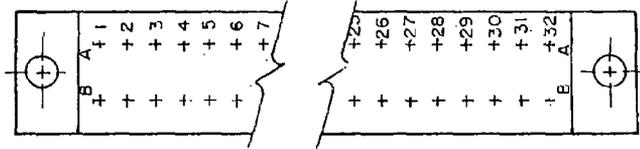
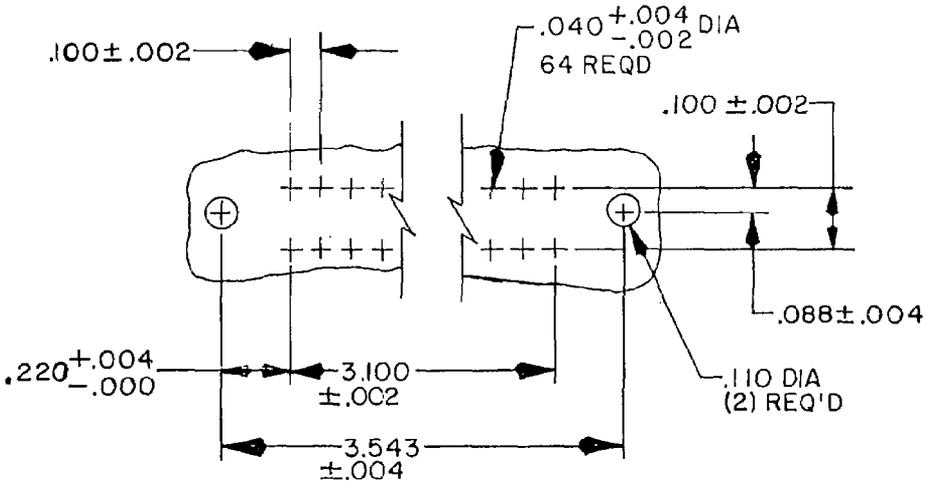


FIGURE 1. Connector, receptacle, .100 (2.54 mm) spacing - Continued.



VIEW FROM TERMINATION END
CONNECTOR MARKING



RECOMMENDED MOUNTING PATTERN 64 CONTACTS

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

Part number	Number of contacts	Type of termination	"A" dimension
M55302/134-01	64	Printed circuit	.104 ±.010
M55302/134-02	64	Wrappost	.520 ±.020 ^{1/}
M55302/134-03	64	Wrappost	.677 ±.020 ^{2/}
M55302/134-04	32	Printed circuit	.104 ±.010
M55302/134-05	32	Wrappost	.520 ±.020 ^{1/ 3/}
M55302/134-06	32	Wrappost	.677 ±.020 ^{2/ 3/}
M55302/134-07	32	Printed circuit	.104 ±.010
M55302/134-08	32	Wrappost	.520 ±.020 ^{1/ 4/}
M55302/134-09	32	Wrappost	.677 ±.020 ^{2/ 4/}

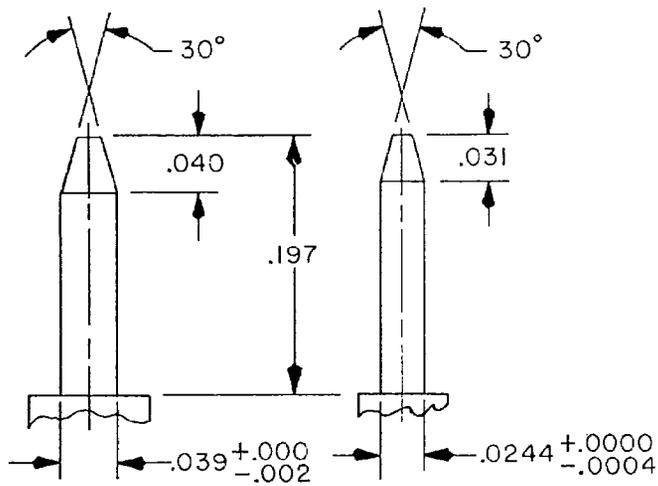
- ^{1/} This dimension is suitable for 2 wraps of 26, 28, or 30 AWG.
- ^{2/} This dimension is suitable for 3 wraps of 26, 28, or 30 AWG.
- ^{3/} These connectors have the row A contacts excluded.
- ^{4/} These connectors have the row B contacts excluded.

INCHES	MM	INCHES	MM	INCHES	MM	INCHES	MM
.002	0.05	.024	0.61	.083	2.11	.200	5.08
.004	0.10	.025	0.64	.088	2.24	.220	5.59
.008	0.20	.031	0.79	.091	2.31	.222	5.64
.010	0.25	.035	0.89	.100	2.54	.335	8.51
.012	0.30	.039	0.99	.110	2.79	.412	10.46
.015	0.38	.040	1.02	.114	2.90	.457	11.61
.017	0.43	.047	1.19	.118	3.00	3.100	78.74
.020	0.51	.063	1.60	.156	3.96	3.346	84.99
.022	0.56	.067	1.70	.192	4.88	3.543	89.99
						3.740	95.00

NOTES:

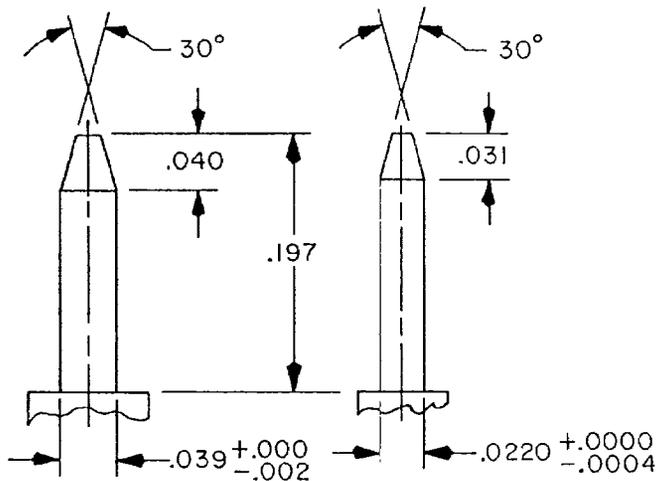
1. Dimensions are in inches.
2. Metric equivalents are given for general information only.
3. Unless otherwise specified, tolerance is ±.005 (.13 mm).
4. These connectors make with connectors specified in MIL-C-55302/133.
5. Wrappost contacts shall be in accordance with MIL-STD-1130.

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



TEST PIN A

Inches	mm
.0004	0.010
.002	0.05
.008	0.20
.0220	0.559
.0244	0.620
.031	0.79
.039	0.99
.040	1.02
.197	5.00

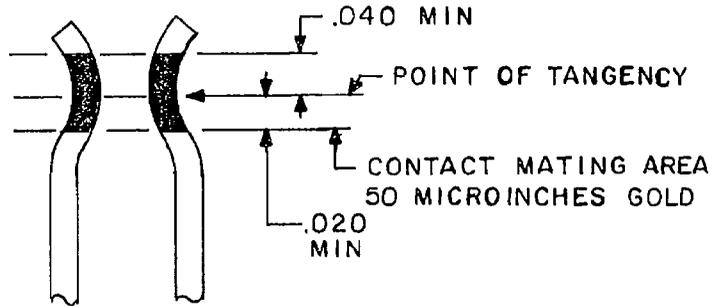


TEST PIN B

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for general information only.
3. Unless otherwise specified, tolerances are ± 0.008 (.20 mm) on decimals and 2° on angles.

FIGURE 2. Test pins.



NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for general information only.

FIGURE 3. Contact plating.

REQUIREMENTS:

Dimensions and configuration: See figure 1.

Ⓐ Materials and finishes:

Contact plating: The contact mating area shall be gold per MIL-G-45204, type II, grade C or D, class 2, and nickel plating per QQ-N-290, 30 to 150 microinches. The contact mating area is defined in figure III.

Ⓐ Nonfunctional area: Any portion of the contact other than the contact mating area or termination area can be plated in accordance with paragraph 3.3.3.4.3 section E of MIL-C-55302.

Contact identification: See figure 1.

Body design: The insulator body of each receptacle may be two-piece construction secured by mechanical means.

Contact separation force: Separation force shall be .5 ounce minimum, using the following test pins:

1. Insert and withdraw test pin A (see figure 2).
2. Insert test pin B (see figure 2) fully and withdraw test pin B .071 inch and measure the separation force.

Mating and unmating: The maximum mating force, in pounds, shall not exceed a value equal to 0.25 times the number of contacts, and the withdrawal force, in pounds, shall be a minimum of 0.025 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-55302/133.

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:

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

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

Ⓐ Oversize pin exclusion - Not applicable.

Part number: See 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, AT, AV, WC, AR
Navy - MC
Air Force - 19

Preparing activity:

Army - CR

Agent:

DLA - ES

(Project 5935-3496-4)