

INCH-POUND

MIL-DTL-55302/134B

18 February 2005

SUPERSEDING

MIL-C-55302/134A

9 April 1986

DETAIL SPECIFICATION SHEET

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

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 sheet and MIL-DTL-55302.

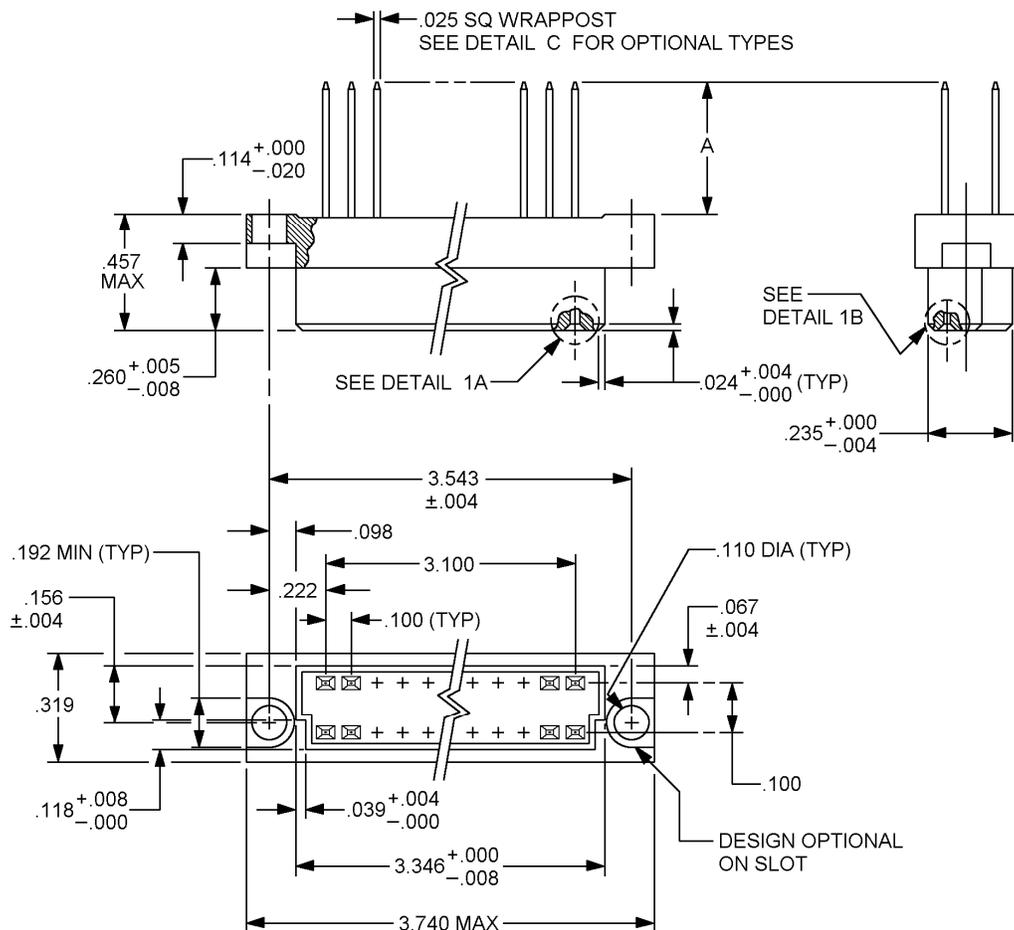


FIGURE 1. Connector, receptacle, .100 (2.54 mm) spacing.

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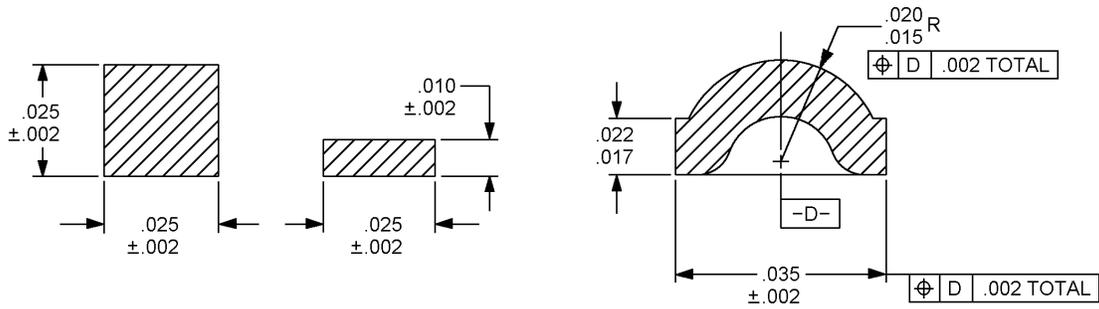
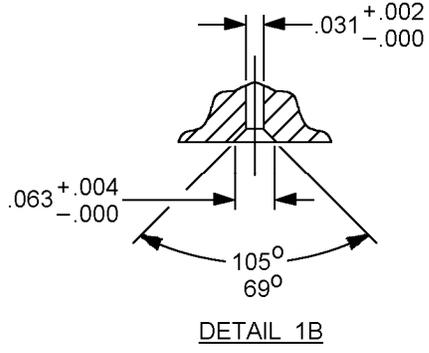
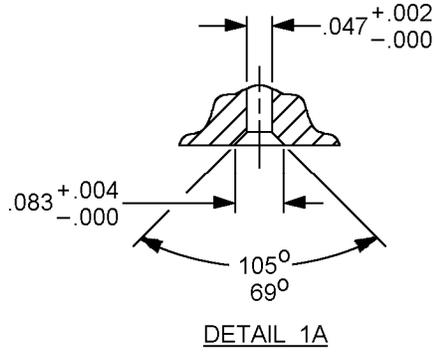
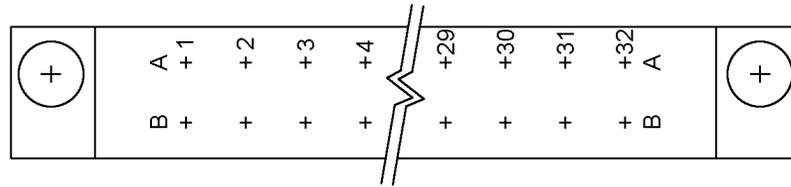
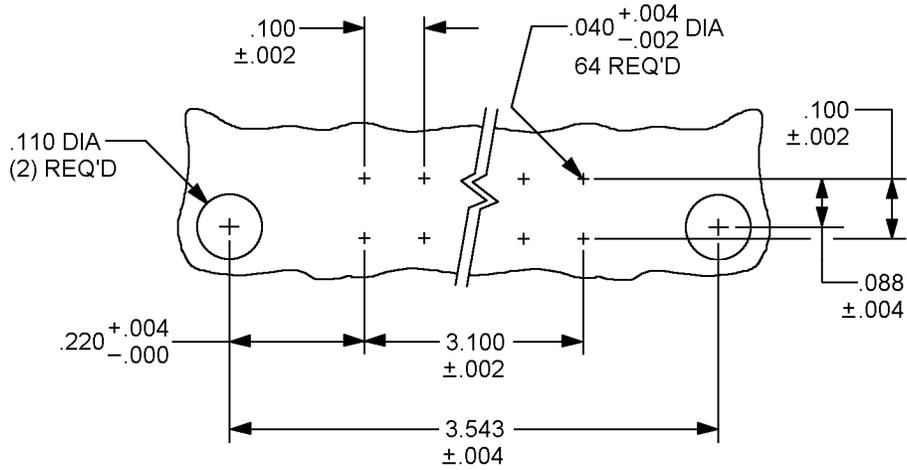


FIGURE 1. Connector, receptacle, .100 (2.54 mm) spacing – Continued.



VIEW FROM TERMINATION END
CONNECTOR MARKING



RECOMMENDED MOUNTING PATTERN 64 CONTACTS

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

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Part or Identifying Number (PIN)	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 ± .020
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/}

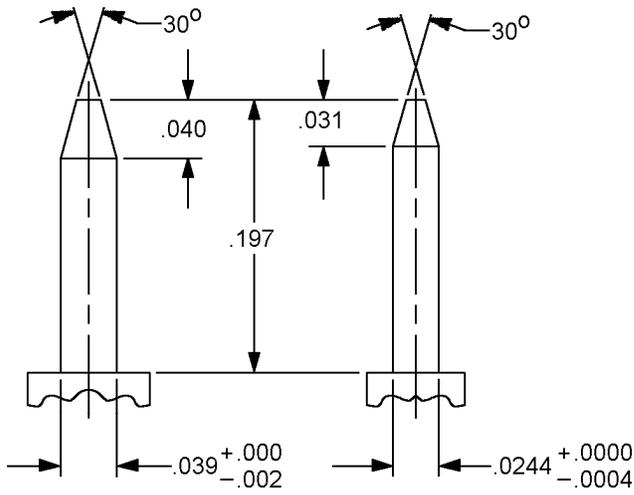
- ^{1/} This dimension is suitable for 2 wraps of 26, 28, or 30 AWG.
^{2/} This dimension is suitable for 3 wraps of 26, 28, or 30 AWG.
^{3/} These connectors have the row A contacts excluded.
^{4/} These connectors have the row B contacts excluded.

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:

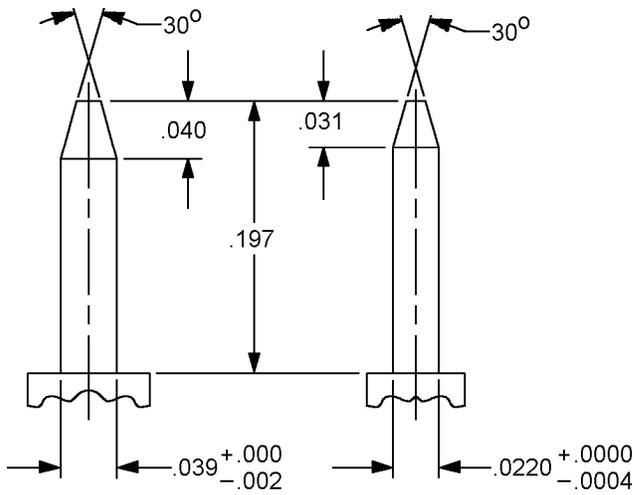
1. Dimensions are in inches.
2. Metric equivalents are given for information only.
3. Unless otherwise specified, tolerance is ± .010 (0.25 mm).
4. These connectors mate with connectors specified in MIL-DTL-55302/133.

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

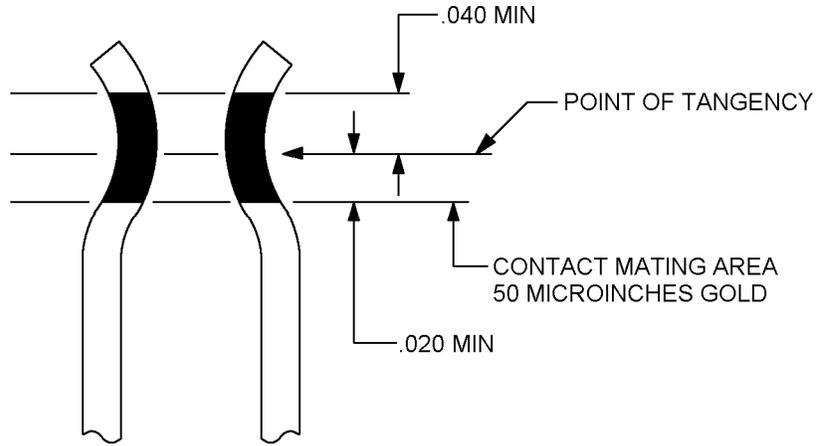


TEST PIN B

NOTES:

1. Dimensions are in inches
2. Metric equivalents are given for information only.
3. Unless otherwise specified, tolerances are $\pm .008$ (0.20 mm) on decimals and 2° on angles.

FIGURE 2. Test pins.



NOTES:

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

FIGURE 3. Contact plating.

REQUIREMENTS:

Dimensions and configurations: See figure 1.

Materials and finishes:

Contact plating: The contact mating area shall be gold in accordance with ASTM B488, type II, code C or D, class 1.27, over nickel plating in accordance with SAE-AMS-QQ-N-290, 30 to 150 microinches. The contact mating area is defined on figure 3.

Nonfunctional area: Any portion of the contact other than the contact mating area or termination area can be plated in accordance with MIL-DTL-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.

- a. Insert and withdraw test pin A (see figure 2).
- b. Insert 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 exceed the measured insertion force, when the housing is loaded with contacts and mating with connector specified in MIL-DTL-55302/133.

Contact rating: 3.0 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.

Previous note: Marginal notations are not used in this revision to identify changes with respect to the previous issue due to the extent of the changes.

MIL-DTL-55302/134B

Referenced documents. In addition to MIL-DTL-55302, this document references the following:

MIL-DTL-55302/133
ASTM B488
SAE-AMS-QQ-N-290

CONCLUDING MATERIAL

Custodians:

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

Preparing activity:
DLA - CC

(Project 5935-4483-000)

Review activities:

Army - AR, AT, AV, CR4, MI
Navy - AS, MC, OS, SH
Air Force - 19, 99

NOTE: The activities listed above were interested in this document as of the date of this document. Since organizations and responsibilities can change, you should verify the currency of the information above using the ASSIST Online database at <http://assist.daps.dla.mil>.