

INCH-POUND

MIL-DTL-55302/56H
3 February 2004
SUPERSEDING
MIL-C-55302/56G
23 September 1992

DETAIL SPECIFICATION SHEET

CONNECTORS, PRINTED CIRCUIT SUBASSEMBLY AND ACCESSORIES:
RECEPTACLE, PIN CONTACTS, DECADE INCREMENTS 10 THRU 70 CONTACT POSITIONS AND
INTERMEDIATE POSITIONS OF 14, 24, 44, 54 AND 26, 36, 56, 66
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.

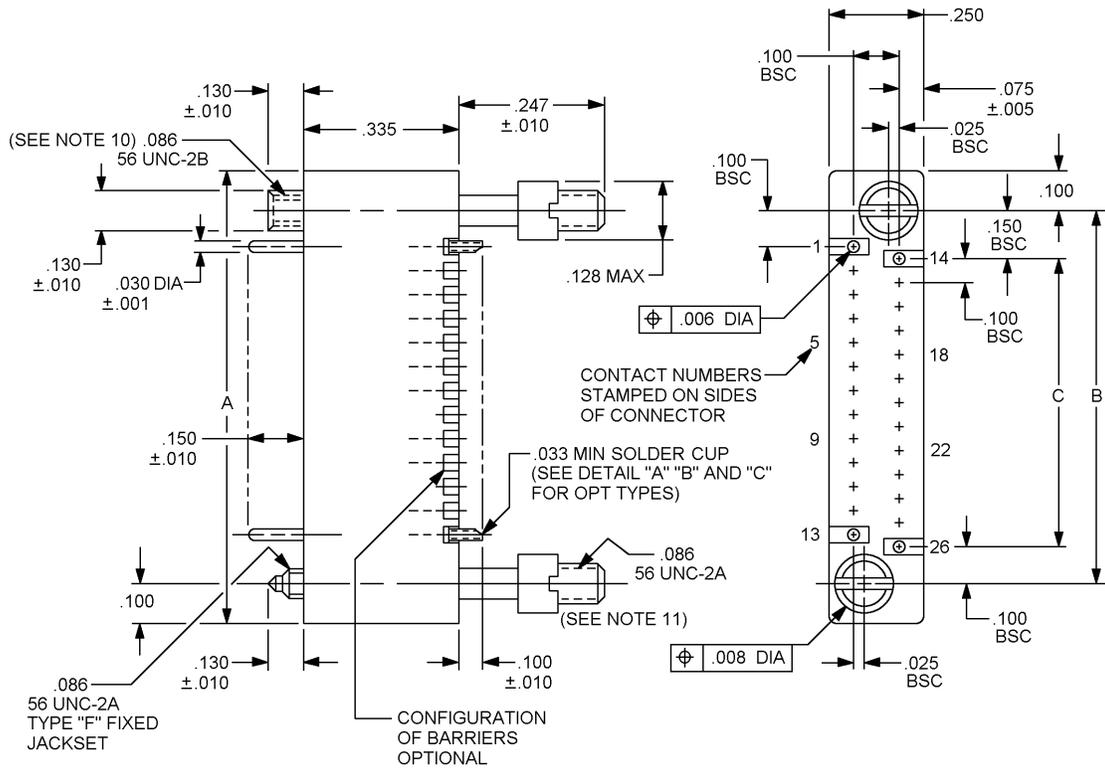
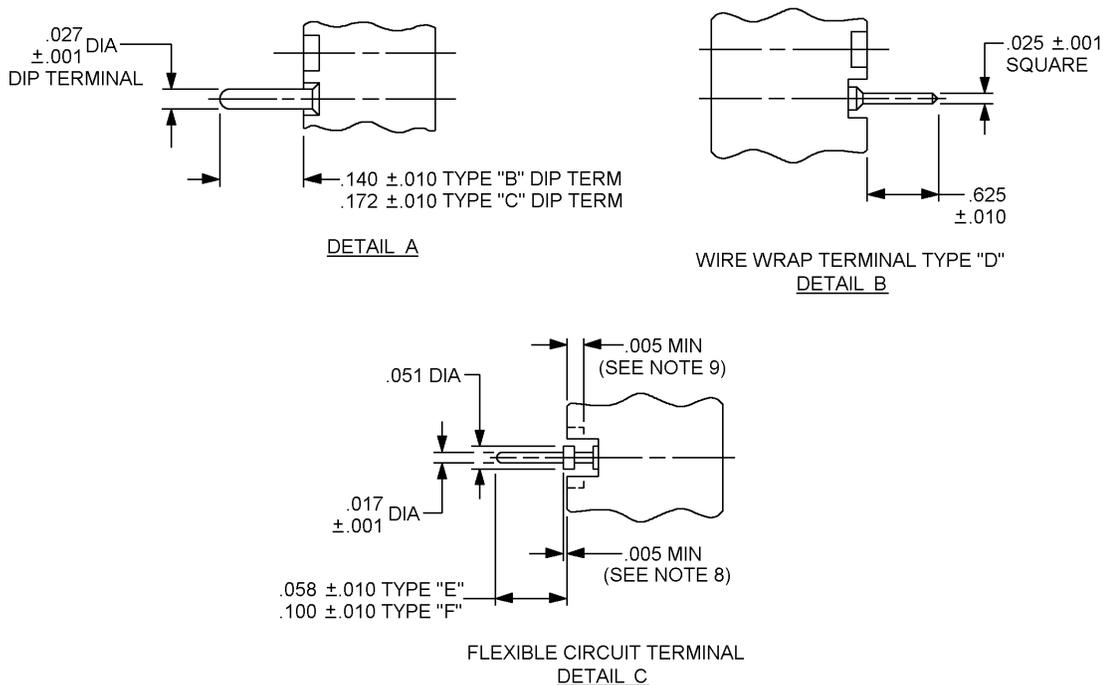


FIGURE 1. Connectors, receptacle, .100 (2.54 mm) spacing.

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Number of contacts	Dimensions			Number of contacts	Dimensions		
	A ±.010	BSC B	REF C		A ±.010	BSC B	REF C
10	.850 (21.59)	.650 (16.51)	.400 (10.16)	44	2.550 (64.77)	2.350 (56.69)	2.100 (53.35)
14	1.050 (26.67)	.850 (21.59)	.600 (15.24)	50	2.850 (72.39)	2.650 (67.31)	2.400 (60.96)
20	1.350 (34.29)	1.150 (29.21)	.900 (22.86)	54	3.050 (85.09)	2.850 (72.39)	2.600 (66.04)
24	1.550 (39.37)	1.350 (34.29)	1.100 (27.94)	56	3.150 (80.01)	2.950 (74.93)	2.700 (68.58)
26	1.650 (41.91)	1.450 (36.83)	1.200 (30.48)	60	3.350 (85.09)	3.150 (80.01)	2.900 (73.66)
30	1.850 (46.99)	1.650 (41.91)	1.400 (35.56)	66	3.650 (92.71)	3.450 (87.63)	3.200 (81.28)
36	2.150 (54.61)	1.950 (49.53)	1.700 (43.18)	70	3.850 (97.79)	3.650 (92.71)	3.400 (86.36)
40	2.350 (56.69)	2.150 (54.61)	1.900 (48.26)				

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

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Inches	mm	Inches	mm
.001	0.03	.075	1.91
.005	0.13	.086	2.18
.006	0.15	.100	2.54
.008	0.20	.128	3.25
.010	0.25	.130	3.30
.017	0.43	.140	3.56
.025	0.64	.150	3.81
.027	0.69	.172	4.37
.030	0.76	.247	6.27
.035	0.89	.250	6.35
.051	1.30	.325	8.51
.058	1.47	.626	15.88

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for information only.
3. Unless otherwise specified, tolerances are ± 0.005 (0.13 mm).
4. These connectors mate with connectors specified in MIL-DTL-55302/55.
5. Numbers indicating the first and last position in each row and every fourth contact position in between shall be marked on the side(s) of the connector. As an option to the above, numbers indicating every fourth cavity may be stamped on the side of the connector, with the exception that the number one contact shall be marked.
6. Termination layout on .025 (0.64 mm) modular grid.
7. Metric equivalents are in parentheses.
8. Conformal coating clearances shall be .005 (0.13 mm) minimum (not required for optional design).
9. Optional design conformal coating clearance.
10. Hole depth to female guide hardware is .282 min (7.16 mm). Full thread depth to female threaded hardware is .240 min (6.1 mm).
11. Accessory mounting hardware is optional and may be supplied separately (see figure 1).

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

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Requirements:

Dimensions and configuration: See figure 1.

Material: Jackscrews and jack sockets shall be made of corrosion resisting stainless steel in accordance with ASTM A581 or ASTM A582 passivated in accordance with SAE-AMS-QQ-P-35 or shall be corrosion resistant copper nickel alloy (61 ±2% nickel, 2.5% max. other, and the balance zinc and shall have a brinell hardness of 145 to 175.

Plating: The contact plating shall be in accordance with MIL-DTL-55302 or gold in accordance with ASTM B488 type II, code C, class 1.27, over nickel plating in accordance with SAE-AMS-QQ-N-290, class 2, 50 to 150 microinches in the engaging area and gold in accordance with ASTM B488 type II, code C, class 0.51, or type III, code A, 0.051 over nickel plating in accordance with SAE-AMS-QQ-N-290, class 2, 50 to 150 microinches in the termination area and gold in accordance with.

Contact identification: See figure 1.

Contact resistance: The average contact resistance of all contacts measured shall not exceed 0.010 ohm, and no individual contact pair shall have a resistance exceeding 0.020 ohm.

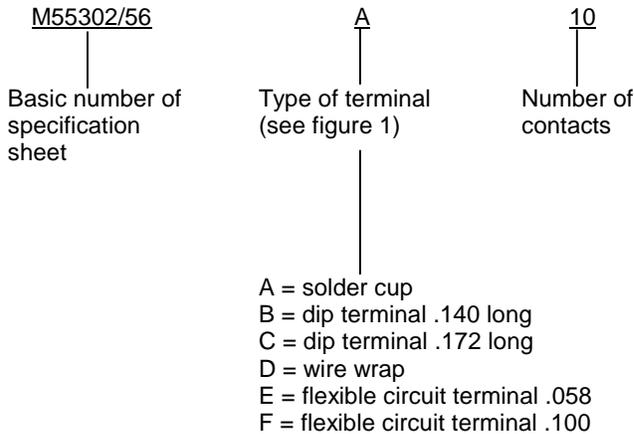
Dielectric withstanding voltage:

Sea level: 1,000 volts rms.

High altitude: 300 volts rms.

Current rating: 5.0 amperes maximum in accordance with contact.

Example of Part or Identifying Number (PIN):



Supersession data: See table I.

TABLE I. Supersession data.

New PIN	Superseded PIN
M55302/56***	M55302/56-***

MIL-DTL-55302/56H

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

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

MIL-DTL-55302/55
ASTM A581
ASTM A582
ASTM B488
SAE-AMS-QQ-P-35
SAE-AMS-QQ-N-290

CONCLUDING MATERIAL

Custodians:
Army - CR
Navy - EC
Air Force - 11
NASA - NA
DLA - CC

Preparing activity:
DLA - CC

(Project 5935-4414-003)

Review activities:
Army - AR, AT, AV, CR4, MI
Navy - AS, MC, OS, TD
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://www.dodssp.daps.mil>.