

INCH-POUND

MIL-DTL-55302/82C
w/AMENDMENT 2
11 February 2015
SUPERSEDING
MIL-DTL-55302/82C
w/AMENDMENT 1
14 March 2011

DETAIL SPECIFICATION SHEET

CONNECTORS, PRINTED CIRCUIT SUBASSEMBLY AND ACCESSORIES:
RECEPTACLE, SOCKET CONTACTS, 41, 66, 114 CONTACT POSITIONS:
FOR PRINTED WIRING BOARDS (.100 X .050 OFFSET GRID)

Inactive for new design after 1 July 1989.

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.

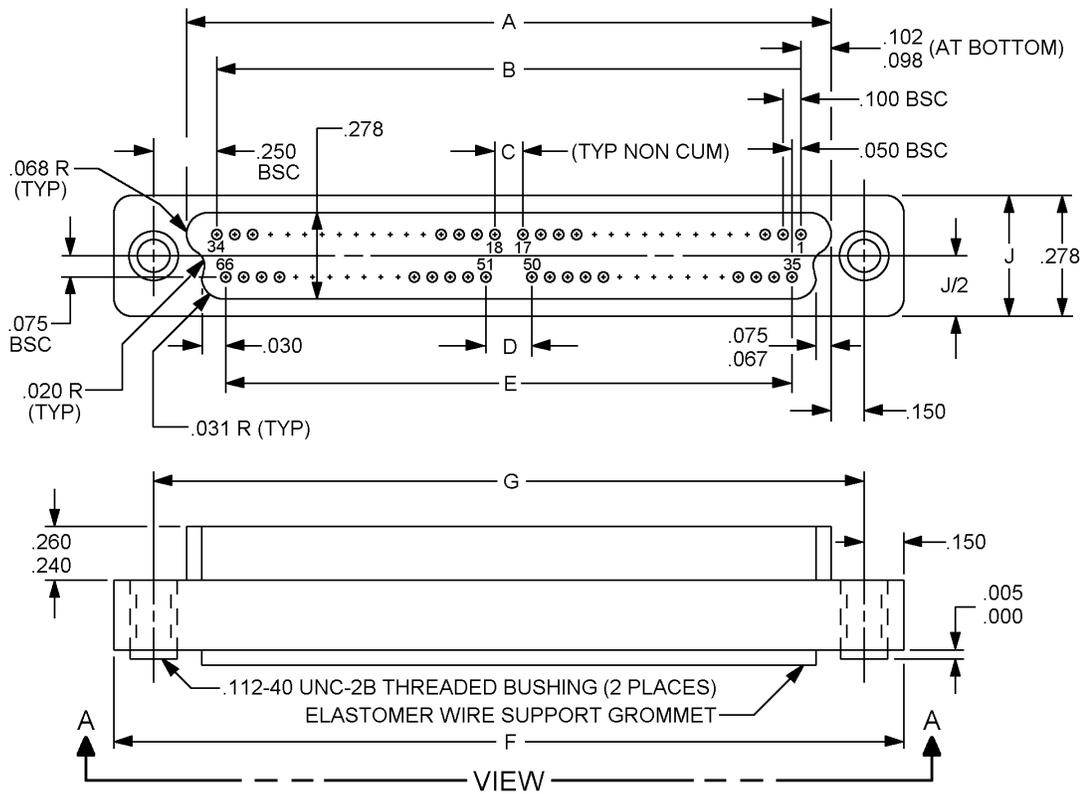
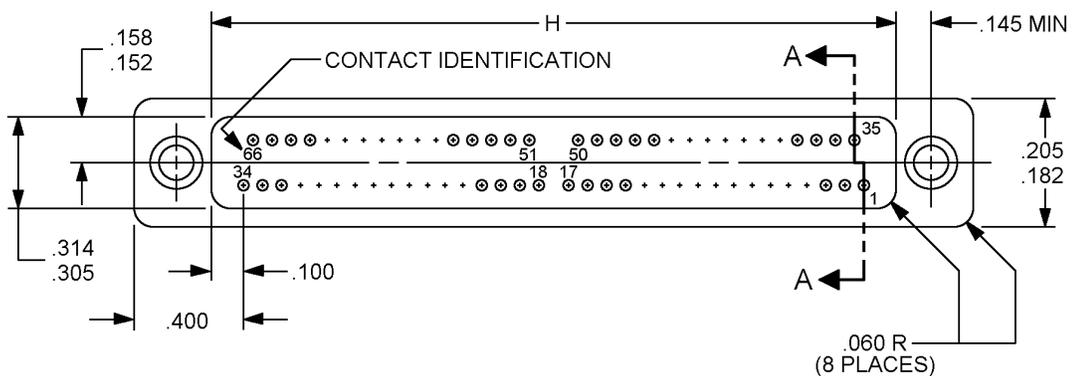


FIGURE 1. Connectors, receptacle (.100 x .050 offset grid).



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VIEW A - A

FIGURE 1. Connectors, receptacle (.100 x .050 offset grid) - Continued.

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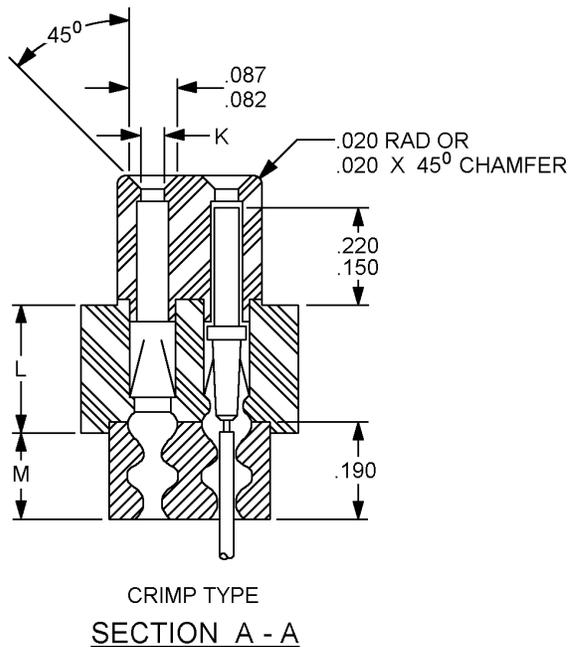
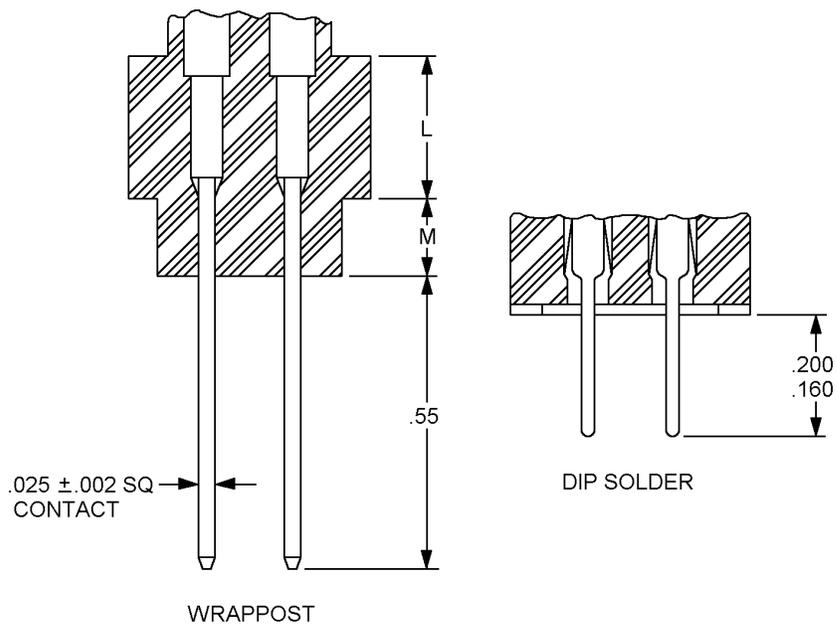


FIGURE 1. Connectors, receptacle (.100 x .050 offset grid) - Continued.

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Inches	mm	Inches	mm	Inches	mm	Inches	mm
.002	0.51	.075	1.91	.190	4.83	.500	12.70
.005	0.13	.076	1.93	.195	4.95	.550	13.97
.007	0.18	.082	2.08	.200	5.08	1.900	48.26
.010	0.25	.087	2.21	.205	5.21	2.000	50.80
.015	0.38	.098	2.49	.210	5.33	2.200	55.88
.020	0.51	.100	2.54	.211	5.36	2.500	63.50
.025	0.64	.102	2.59	.220	5.59	2.800	71.12
.030	0.76	.112	2.84	.240	6.10	3.400	86.36
.031	0.79	.129	3.28	.250	6.35	3.500	88.90
.032	0.81	.130	3.30	.260	6.60	3.700	93.98
.041	1.04	.145	3.68	.278	7.06	4.000	101.60
.042	1.07	.148	3.76	.280	7.11	4.300	109.22
.044	1.12	.150	3.81	.300	7.62	5.900	149.86
.046	1.17	.152	3.86	.305	7.75	6.000	152.40
.050	1.27	.154	3.91	.310	7.87	6.200	157.48
.055	1.40	.158	4.01	.314	7.98	6.500	165.10
.060	1.52	.160	4.06	.400	10.16	6.800	172.72
.067	1.70	.170	4.32	.415	10.54		
.068	1.73	.182	4.62	.450	11.43		
.074	1.88						

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) for three place decimals, $\pm .02$ (0.5 mm) for two place decimals, and $\pm 2^\circ$ on angles.
4. These connectors mate with connectors in accordance with MIL-DTL-55302/83.
5. Unless otherwise specified, contacts are shipped loose in a plastic bag.

FIGURE 1. Connectors, receptacle (.100 x .050 offset grid) - Continued.

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TABLE I. Dash number, contacts and dimensions.

Dash number	Number of contacts	Type of termination	Type of contact M55302/84	Number of contacts supplied	Dimensions												
					A	B	C	D	E	F	G	H +0.005 -0.010	J	K	L	M	
-01	66	Crimp removable	01	0	3.700	3.500	.300	.400	3.400	4.300 ±.007	4.000	3.700	.415	.044	.250	.17	
-02	66	Dip solder	03	0	"	"	"	"	"	"	"	N/A	"	"	"	N/A	
-03	66	Solder turret	04	0	"	"	"	"	"	"	"	3.700	"	"	"	.17	
-04	66	Wrappost	05	0	"	"	"	"	"	"	"	"	"	"	"	.129 ±.007	
-05	66	Crimp removable	02	0	"	"	"	"	"	"	"	"	"	"	"	.17	
-06	66	Crimp removable	01	66	"	"	"	"	"	"	"	"	"	"	"	"	
-07	66	Crimp removable	02	66	"	"	"	"	"	"	"	"	"	"	"	"	
-08	66	Dip solder	03	66	"	"	"	"	"	"	"	N/A	"	"	"	N/A	
-09	66	Solder turret	04	66	"	"	"	"	"	"	"	3.700	"	"	"	.17	
-10	66	Wrappost	05	66	"	"	"	"	"	"	"	3.700	"	"	"	.129 ±.007	
-11	41	Crimp removable	01	0	2.200	2.000	N/A	N/A	1.900	2.800	2.500	2.200	"	"	"	.17	
-12	41	Crimp removable	02	0	"	"	"	"	"	"	"	2.200	"	"	"	.17	
-13	41	Dip solder	03	0	"	"	"	"	"	"	"	N/A	"	"	"	N/A	
-14	41	Crimp removable	04	0	"	"	"	"	"	"	"	2.200	"	"	"	.17	
-15	41	Crimp removable	01	41	"	"	"	"	"	"	"	"	"	"	"	"	
-16	41	Crimp removable	02	41	"	"	"	"	"	"	"	"	"	"	"	"	
-17	41	Dip solder	03	41	"	"	"	"	"	"	"	N/A	"	"	"	N/A	
-18	41	Solder turret	04	41	"	"	"	"	"	"	"	2.200	"	"	"	.17	
-19	114	Crimp removable	01	0	6.200	6.000	.400	.500	5.900	6.800	6.500	6.200	.450 +0.010	.041	.280	.16	
-20	114	Crimp removable	02	0	"	"	"	"	"	"	"	6.200	-005	"	"	.16	
-21	114	Dip solder	03	0	"	"	"	"	"	"	"	N/A	"	"	"	N/A	
-22	114	Solder turret	04	0	"	"	"	"	"	"	"	6.200	"	"	"	.16	
-23	114	Wrappost	06	0	"	"	"	"	"	"	"	"	"	"	"	"	
-24	114	Crimp removable	01	114	"	"	"	"	"	"	"	"	"	"	"	"	
-25	114	Crimp removable	02	114	"	"	"	"	"	"	"	"	"	"	"	"	
-26	114	Dip solder	03	114	"	"	"	"	"	"	"	N/A	"	"	"	N/A	
-27	114	Solder turret	04	114	"	"	"	"	"	"	"	6.200	"	"	"	.16	
-28	114	Solder turret	06	114	"	"	"	"	"	"	"	6.200	"	"	"	.16	

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REQUIREMENTS

Dimensions and configuration: See figure 1 and table I.

Material:

Insulators: In accordance with MIL-DTL-55302.

Contact retention clips: Beryllium copper in accordance with ASTM B194.

Wire support: Elastomer in accordance with ASTM D2000.

Mounting bushings: Stainless steel in accordance with ASTM A582/A582M, series 300.

Contact identification: See figure 1 and table I.

Mating and unmating: The maximum mating force shall be the average mating force measured in five engagements and shall not exceed .5 times the number of contacts in pounds.

Contact resistance: The potential drop across a mated contact at 3.0 amperes test current shall not exceed 25 millivolts, and after corrosion test shall not exceed 30 millivolts.

Dielectric withstanding voltage:

Sea level: 1,500 V ac (rms) test.

50,000 feet altitude: 500 V ac (rms) test.

Current rating: 3.0 amperes maximum per contact. 2.25 continuous per contact per connector at room ambient.

Contact: See table I.

Keying plug: M55302/85.

Insertion and removal tool: M81969/10-01 and M81969/10-02.

Crimp tool: Hand crimp in accordance with M22520/1.

Part or Identifying Number (PIN): M55302/82-(dash number from table I).

Qualification: Qualification is not required for this specification sheet.

First article testing (FAT): FAT shall be in accordance with MIL-DTL-55302, qualification inspection.

Amendment notations. The margins of this specification are marked with vertical lines to indicate modifications generated by this amendment. This was done as a convenience only and the Government assumes no liability whatsoever for any inaccuracies in these notations. Bidders and contractors are cautioned to evaluate the requirements of this document based on the entire content irrespective of the marginal notations.

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

MIL-DTL-55302/83
ASTM A582/A582M
ASTM B194
ASTM D2000

CONCLUDING MATERIAL

Custodians:
Air Force - 85
DLA - CC

Preparing activity:
DLA - CC

(Project 5935-2015-002)

Review activities:
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 <https://assist.dla.mil/> .