

INCH-POUND

MIL-DTL-28804/7E

28 October 2005

SUPERSEDING

MIL-C-28804/7D

12 April 1991

DETAIL SPECIFICATION SHEET

CONNECTORS, RECEPTACLE, ELECTRIC, RECTANGULAR, HIGH DENSITY, POLARIZED CENTER JACKSCREW, SOLDER SOCKET CONTACTS, CLASS S

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-28804.

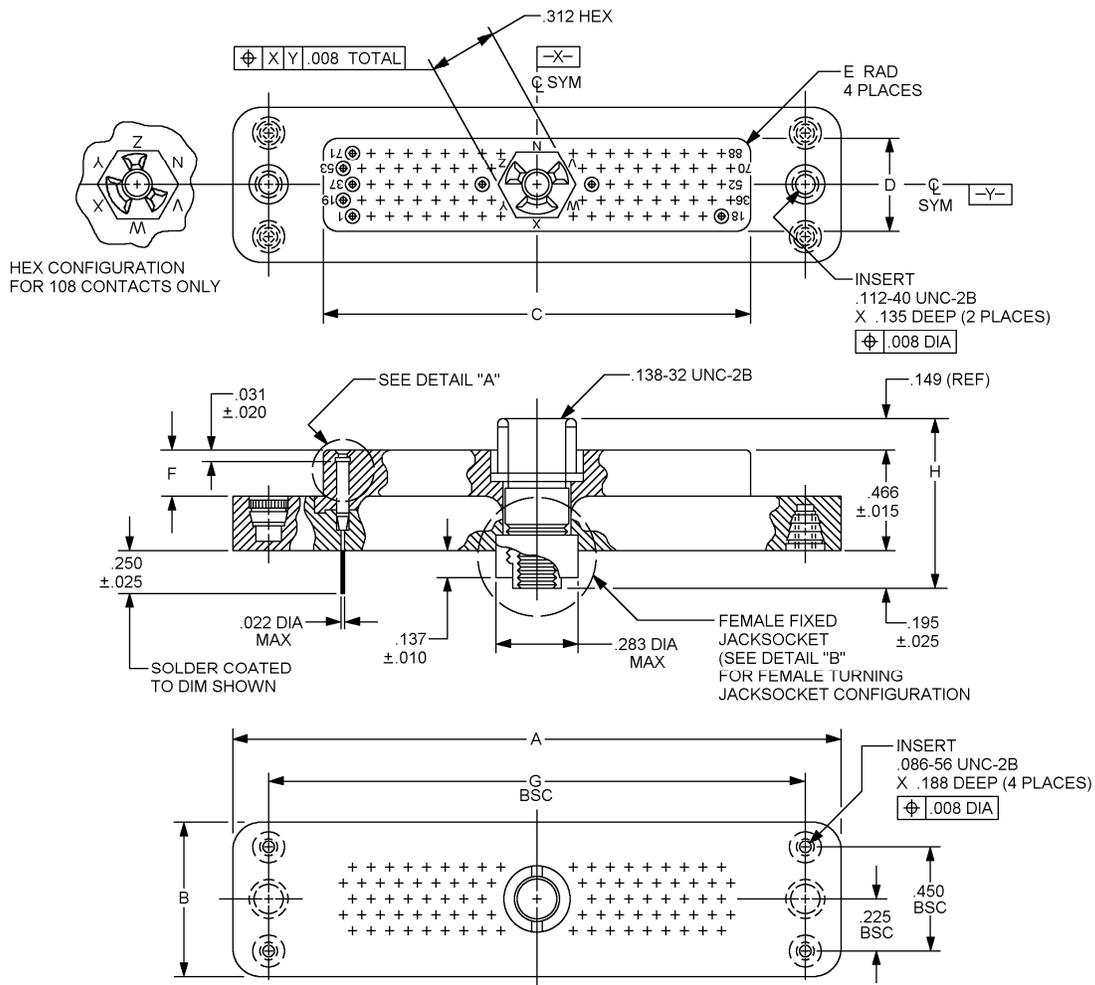
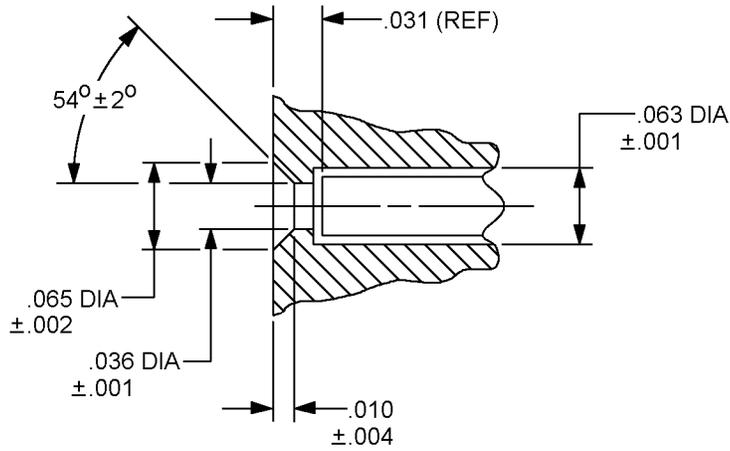
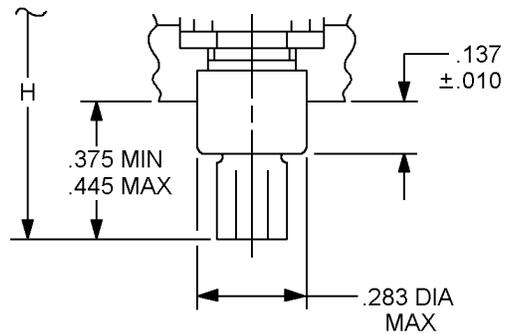


FIGURE 1. Connector, socket contacts, class S.

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DETAIL "A"



FEMALE TURNING JACKSOCKET

Inches	mm	Inches	mm	Inches	mm
.001	0.03	.031	0.79	.188	4.77
.002	0.05	.036	0.91	.195	4.95
.004	0.10	.063	1.60	.225	5.71
.005	0.13	.065	1.65	.250	6.35
.008	0.20	.086	2.18	.283	7.19
.010	0.25	.112	2.84	.312	7.92
.015	0.38	.135	3.42	.375	9.52
.020	0.51	.137	3.47	.445	11.30
.022	0.55	.138	3.51	.450	11.43
.025	0.63	.149	3.78	.466	11.83

FIGURE 1. Connector, socket contacts, class S – Continued.

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Dash number (see notes 4 and 5)	Shell size	Number of contacts	Insert arrangement number section (see note 6)	A ±.015 (0.38)	B ±.015 (0.38)	C ±.005 (0.12)	D ±.005 (0.12)	E ±.005 (0.12)	F ±.015 (0.38)	G BSC	H ±.025 (0.63)	Weight (max)(with contacts) grams
1	8	14	10 No. 1	1.520 (38.60)	.725 (18.41)	.674 (17.12)	.423 (10.74)	.056 (1.42)	.216 (5.18)	1.200 (30.48)	.810 (20.57)	13.5
2	10	38	20 No. 1	1.945 (49.40)	.725 (18.41)	1.095 (27.81)	.423 (10.74)	.056 (1.42)	.216 (5.18)	1.625 (41.27)	.810 (20.57)	20.0
3	12	88	30 No. 1	2.780 (70.61)	.725 (18.41)	1.935 (49.14)	.423 (10.74)	.056 (1.42)	.216 (5.18)	2.460 (62.48)	.810 (20.57)	27.0
4	14	108	40 No. 1	1.990 (50.54)	1.077 (27.35)	1.318 (33.47)	.772 (19.60)	.064 (1.62)	.216 (5.18)	1.718 (43.63)	.810 (20.57)	33.5
5	16	132	50 No. 1	2.790 (70.86)	.902 (22.91)	1.943 (49.35)	.607 (15.41)	.106 (2.69)	.216 (5.18)	2.470 (62.73)	.810 (20.57)	38.5
6	18	244	60 No. 1	4.128 (104.85)	.902 (22.91)	3.284 (83.41)	.610 (15.49)	.106 (2.69)	.216 (5.18)	3.808 (96.72)	.810 (20.57)	55.0
7	8	14	10 No. 1	1.520 (38.60)	.725 (18.41)	.674 (17.12)	.423 (10.74)	.056 (1.42)	.216 (5.18)	1.200 (30.48)	1.007 (25.58)	16.0
8	10	38	20 No. 1	1.945 (49.40)	.725 (18.41)	1.095 (27.81)	.423 (10.74)	.056 (1.42)	.216 (5.18)	1.625 (41.27)	1.007 (25.58)	22.5
9	12	88	30 No. 1	2.780 (70.61)	.725 (18.41)	1.935 (49.14)	.423 (10.74)	.056 (1.42)	.216 (5.18)	2.460 (62.48)	1.007 (25.58)	29.5
10	14	108	40 No. 1	1.990 (50.54)	1.077 (27.35)	1.318 (33.47)	.772 (19.60)	.064 (1.62)	.216 (5.18)	1.718 (43.63)	1.007 (25.58)	36.0
11	16	132	50 No. 1	2.790 (70.86)	.902 (22.91)	1.943 (49.35)	.607 (15.41)	.106 (2.69)	.216 (5.18)	2.470 (62.73)	1.007 (25.58)	41.0
12	18	244	60 No. 1	4.128 (104.85)	.902 (22.91)	3.284 (83.41)	.610 (15.49)	.106 (2.69)	.216 (5.18)	3.808 (96.72)	1.007 (25.58)	57.0

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for information only.
3. Millimeters are in parentheses.
4. Dash number shall include N, V, W, X, Y, or Z to indicate polarization.
5. Dash numbers 1 through 6 are supplied with female fixed jack sockets; dash numbers 7 through 12 are supplied with female turning jack sockets.
6. For insert arrangements, see MIL-STD-1632.

FIGURE 1. Connector, socket contacts, class S – Continued.

REQUIREMENTS:

Dimensions and configuration: See figure 1.

Mating end of the contacts: Shall be in accordance with MIL-DTL-28804/10. Solder contact may be stamp formed from strip material.

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Mating connectors: M28804/7-1 through -6 mates with M28804/2-1 through -6, M28804/4-1 through -6, M28804/6-1 through -6, M28804/8-1 through -6, and M28804/11-1 through -6. M28804/7-7 through -12, mates with M28804/2-7 through -12, M28804/4-7 through -12, M28804/6-7 through -12, M28804/8-7 through -12, and M28804/11-7 through -12.

Part or Identifying Number (PIN): M28804/7-(dash number from figure 1 and a suffix letter code to define polarization. See figure 1, note 4 herein, and MIL-DTL-28804.)

Dielectric withstanding voltage shall be in accordance with MIL-DTL-28804, except that the test voltages shall be as specified in table I.

TABLE I. Test voltage (rms 60 Hz ac volts). ^{1/}

Altitude (feet)	Moisture conditioned samples (see MIL-DTL-28804)	All other samples
Sea level (70,000)	600	1200 500

^{1/} These are not working voltages.

Referenced documents. In addition to MIL-DTL-28804, this document references the following:

MIL-DTL-28804/10
MIL-STD-1632

Changes from previous issue. The margins of this specification are marked with vertical lines to indicate where changes from the previous issue were made. 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 and relationship to the last previous issue.

CONCLUDING MATERIAL

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

Preparing activity:
DLA – CC

(Project 5935-4824-000)

Review activities:
Army – AM, AR, AT, CR4, MI
Navy – AS, MC
Air Force – 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>.