

INCH-POUND

MIL-DTL-83723/98C
w/AMENDMENT 1
27 June 2011
SUPERSEDING
MIL-DTL-83723/98C
21 May 2010

DETAIL SPECIFICATION SHEET

CONNECTORS, ELECTRICAL, (CIRCULAR, ENVIRONMENT RESISTING),
PLUG, (THREADED COUPLING, SELF-LOCKING, R.F.I. GROUNDING,
CRIMP PIN CONTACT), (SERIES III, CLASSES N AND S FIREWALL)

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-83723.

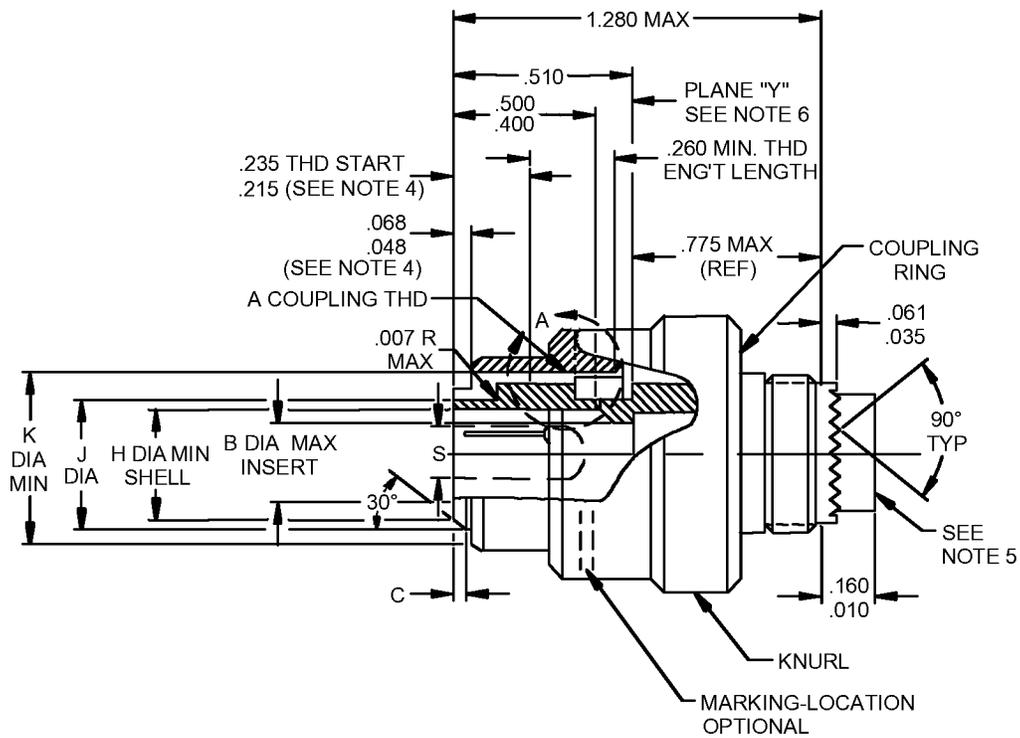


FIGURE 1. Dimensions and configurations.

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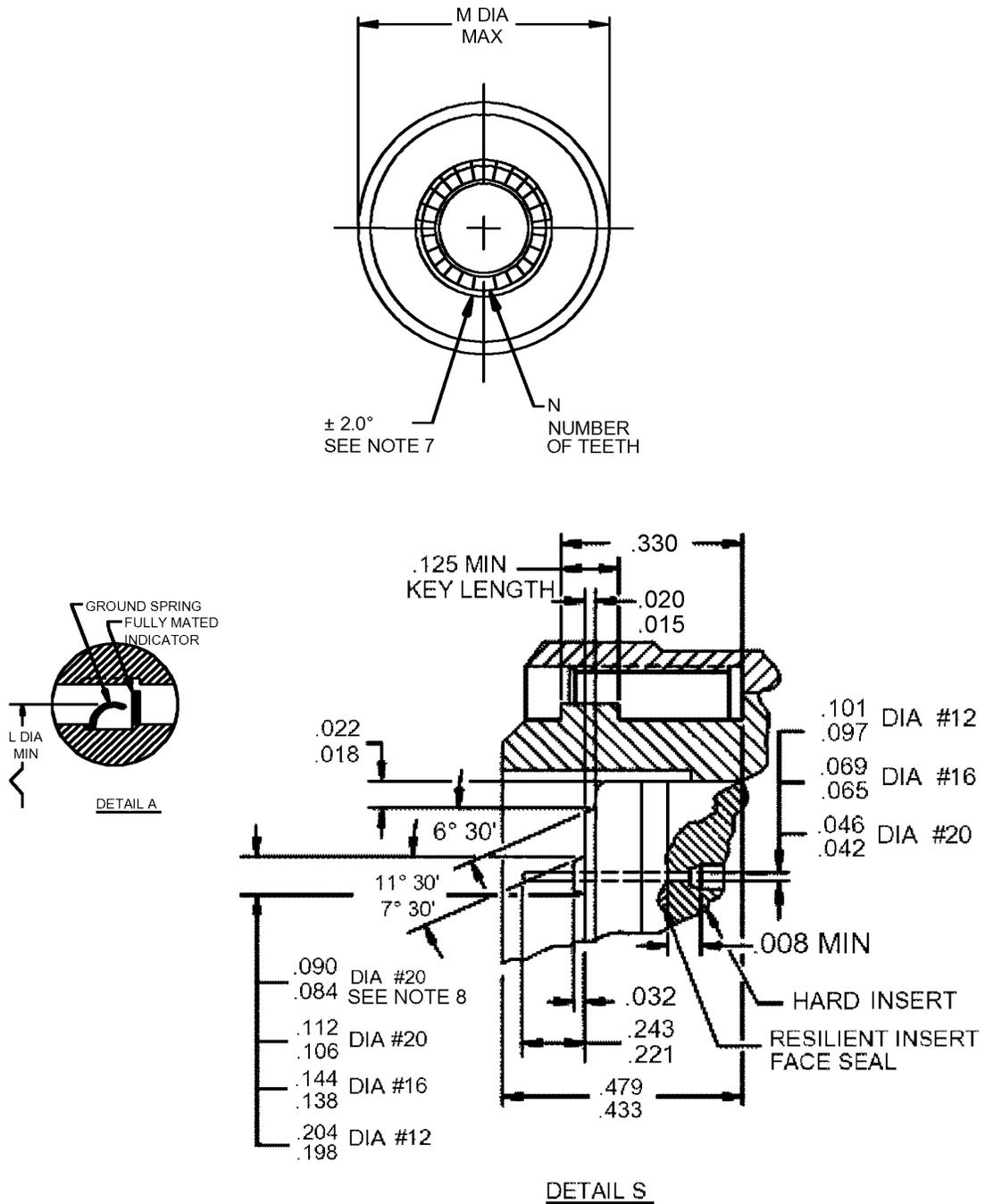


FIGURE 1. Dimensions and configurations – Continued.

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Shell size	A Thread UNEF-2B	B	C	H	J	K	L	M	N number of teeth
8	.562-24	.290	.025	.294	.405 .396	.575	.425	.967	12
10	.688-24	.388	.031	.428	.526 .517	.707	.546	1.093	15
12	.875-20	.558	.031	.598	.696 .687	.895	.711	1.170	21
14	.938-20	.627	.031	.667	.765 .756	.957	.785	1.310	24
16	1.062-18	.772	.031	.794	.892 .883	1.084	.912	1.500	30
18	1.188-18	.860	.031	.900	.998 .989	1.209	1.018	1.562	33
20	1.312-18	.985	.031	1.025	1.123 1.114	1.334	1.143	1.710	36
22	1.438-18	1.110	.031	1.150	1.248 1.239	1.459	1.268	1.812	39
24	1.562-18	1.235	.031	1.275	1.373 1.364	1.584	1.393	1.948	42

FIGURE 1. Dimensions and configurations – Continued.

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Inches	mm	Inches	mm	Inches	mm	Inches	mm
.005	0.13	.125	3.18	.517	13.13	.895	22.73
.007	0.18	.138	3.51	.526	13.36	.900	22.86
.008	0.20	.144	3.66	.558	14.71	.938	23.83
.015	0.38	.198	5.03	.562	14.27	.957	24.31
.018	0.46	.204	5.18	.575	14.60	.967	24.56
.020	0.51	.215	5.46	.598	15.19	.989	25.12
.022	0.56	.221	5.46	.627	15.93	.998	25.35
.025	0.64	.235	5.97	.667	16.94	1.081	27.53
.031	0.79	.243	6.17	.675	17.15	1.093	27.76
.032	0.81	.260	6.60	.687	17.45	1.110	28.19
.042	1.07	.290	7.37	.688	17.48	1.150	29.21
.046	1.17	.294	7.47	.696	17.68	1.170	29.71
.018	1.22	.330	8.38	.707	17.96	1.209	30.71
.065	1.65	.388	9.86	.756	19.20	1.239	31.47
.068	1.73	.396	10.05	.765	19.43	1.248	31.70
.069	1.75	.400	10.16	.772	19.61	1.280	32.51
.081	2.13	.405	10.29	.775	19.69	1.310	33.27
.090	2.29	.428	10.87	.794	20.17	1.459	37.06
.097	2.46	.433	11.00	.860	21.84	1.500	38.10
.101	2.57	.479	12.17	.875	22.23	1.562	39.67
.106	2.69	.500	12.70	.883	22.43	1.812	46.02
.112	2.84	.510	12.95	.892	22.66		

NOTES:

1. Dimensions are inches.
2. Metric equivalents are given for information only.
3. Unless otherwise specified, tolerances are .005 inches (0.13 mm) for three place decimals, .01 inches (0.25 mm) for two place decimals, and angular tolerance $\pm 1^{\circ}$ and $\pm 30'$.
4. The dimensions showing relationship of coupling ring to shell apply only when coupling ring is in the fully forward position.
5. Rear accessory interchangeability dimensions shall be in accordance with MIL-DTL-83723.
6. Shell size 8 will not mate with MIL-DTL-26500 connectors.
7. The centerline of indicated projection shall be located on vertical centerline within 2.0° .
8. See table 1 for contact cavities requiring these dimensions.

FIGURE 1. Dimensions and configurations - Continued.

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REQUIREMENTS:

Dimensions and configuration: See figure 1.

This connector mates with MIL-DTL-83723/82 and /84.

Insert arrangements and polarizing positions: See MIL-STD-1554 and table I.

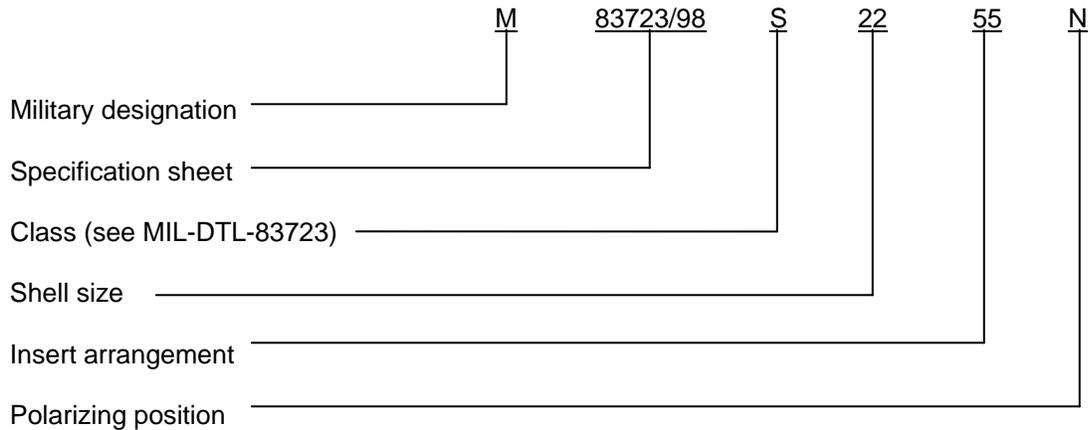
TABLE I. Insert arrangements requiring reduced diameters for raised seal barriers on outer row of the cavities as indicated.

Shell size	Insert arrangements	Contact cavities
8	03	1, 2, 3
10	06	1, 2, 3, 4, 5, 6

Connector accessories: See SAE-AS85049.

RFI spring strip shall have a minimum of six fingers per inch and shall point to the rear of the connector.

Part or Identifying Number (PIN) example.



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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

Referenced documents. In addition to MIL-DTL-83723, this document references the following:

MIL-STD-1554
MIL-DTL-26500
MIL-DTL-83723/82
MIL-DTL-83723/84
SAE-AS85049

CONCLUDING MATERIAL

Custodians:

Army - CR
Navy - AS
Air Force – 85
DLA – CC

Preparing activity:

DLA-CC

(Project 5935--2011-041)

Review activities:

Army - AR, MI
Navy - EC
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.daps.dla.mil>.