INCH-POUND

MIL-DTL-83723/97C
w/AMENDMENT 1
27 June 2011
SUPERSEDING
MIL-DTL-83723/97C
21 May 2010

DETAIL SPECIFICATION SHEET

CONNECTORS, ELECTRICAL, (CIRCULAR, ENVIRONMENT RESISTING), PLUG, (THREADED COUPLING, SELF-LOCKING, R.F.I. GROUNDING, CRIMP SOCKET CONTACTS), (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.

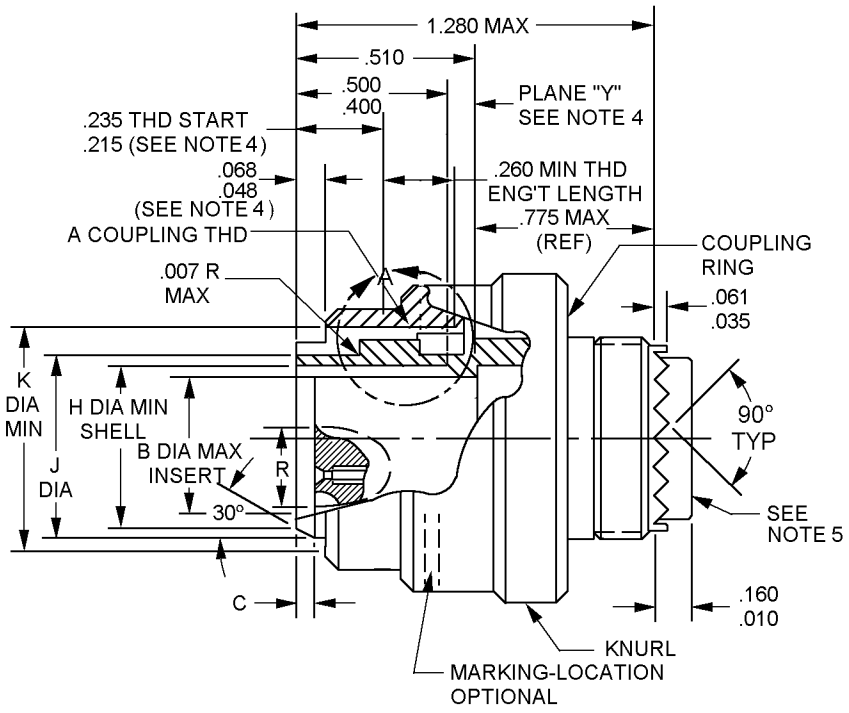


FIGURE 1. Dimensions and configurations.

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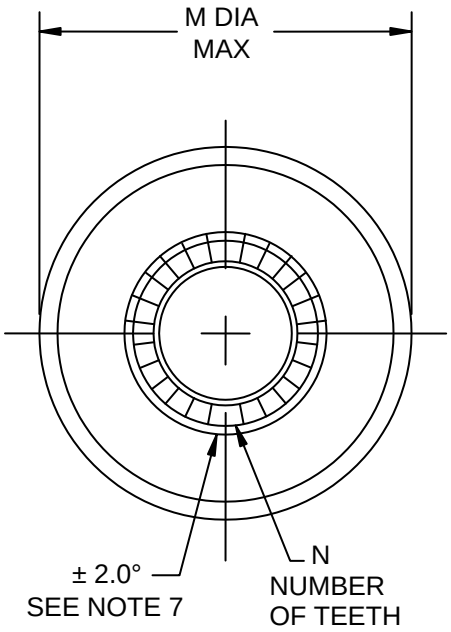
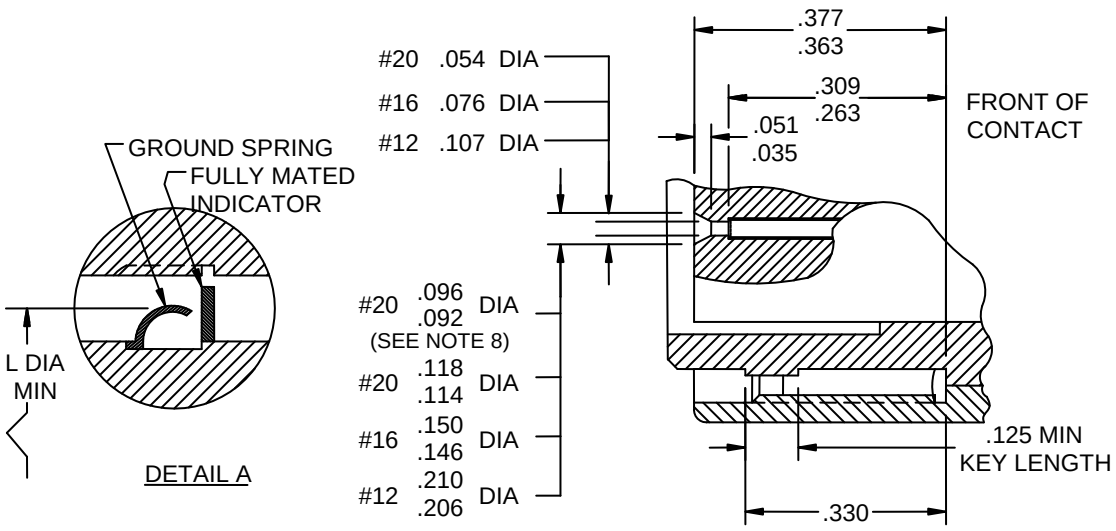


FIGURE 1. Dimensions and configurations – Continued.

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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	.210	5.33	.562	14.27	.967	24.56
.007	0.18	.215	5.46	.575	14.60	.989	25.12
.010	0.25	.235	5.97	.598	15.19	.998	25.35
.025	0.64	.260	6.60	.627	15.93	1.062	26,97
.031	0.79	.263	6.68	.667	16.94	1.084	27.53
.035	0.89	.290	7.37	.687	17.45	1.093	27.76
.048	1.22	.294	7.47	.688	17.48	1.110	28.19
.051	1.30	.309	7.85	.696	17.68	1.150	29.21
.054	1.37	.310	7.87	.707	17.96	1.170	29.71
.061	1.55	.330	8.38	.756	19.20	1.188	30.18
.068	1.73	.366	9.30	.765	19.43	1.209	30.71
.076	1.93	.377	9.58	.772	19.61	1.239	31.47
.092	2.34	.388	9.86	.775	19.69	1.248	31.70
.096	2.44	.396	10.05	.794	20.17	1.280	32.51
.107	2.71	.400	10.16	.860	21.84	1.310	33.27
.114	2.90	405	10.29	.875	22.23	1.438	36.53
.118	3.00	.428	10.87	.883	22.43	1.459	37.06
.125	3.18	.500	12.70	.892	22.66	1.500	38.10
.146	3.71	.510	12.95	.895	22.73	1.562	39.67
.150	3.81	.517	13.13	.900	22.86	1.812	46.02
.160	4.06	.526	13.36	.938	23.83		
.206	5.23	.558	14.71	.957	24.31		

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 and .01 inches (0.25 mm) for two place decimals, and angular tolerance +/- 1°0’ and +/- 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 I for contact cavities requiring these dimensions.

FIGURE 1. Dimensions and configurations - Continued.

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REQUIREMENTS:

Dimensions and configurations: See figure 1.

This connector mates with MIL-DTL-83723/83, /85, /88, /89 and /90.

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

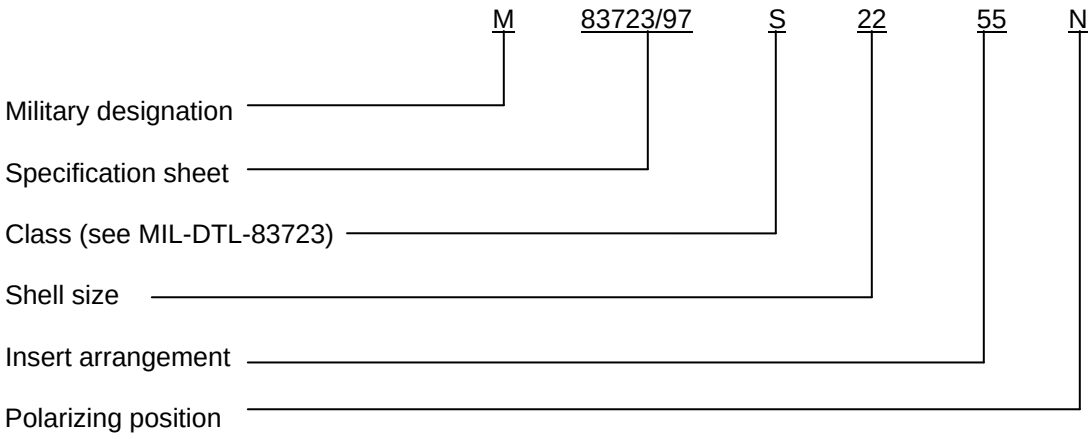
TABLE I. Insert arrangements requiring reduced diameter for lead-in chamfer on outer row of the cavities as indicated.

Shell size	Insert arrangement	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-DTL-26500
MIL-DTL-83723/83
MIL-DTL-83723/85
MIL-DTL-83723/88
MIL-DTL-83723/89
MIL-DTL-83723/90
MIL-STD-1554
SAE-AS85049

CONCLUDING MATERIAL

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

Review activities:
Army - AR, MI
Navy - EC
Air Force - 19, 99

Preparing activity:
DLA-CC

(Project 5935-2011-040)

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