

INCH-POUND

MIL-DTL-83723/78E  
19 August 2009  
SUPERSEDING  
MIL-DTL-83723/78D  
15 September 2006

DETAIL SPECIFICATION SHEET

CONNECTORS, ELECTRICAL, (CIRCULAR, ENVIRONMENT RESISTING),  
PLUG, (RFI, BAYONET COUPLING, CRIMP PIN CONTACT),  
(SERIES III, CLASSES G, M, R, T, W, AND Z)

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.

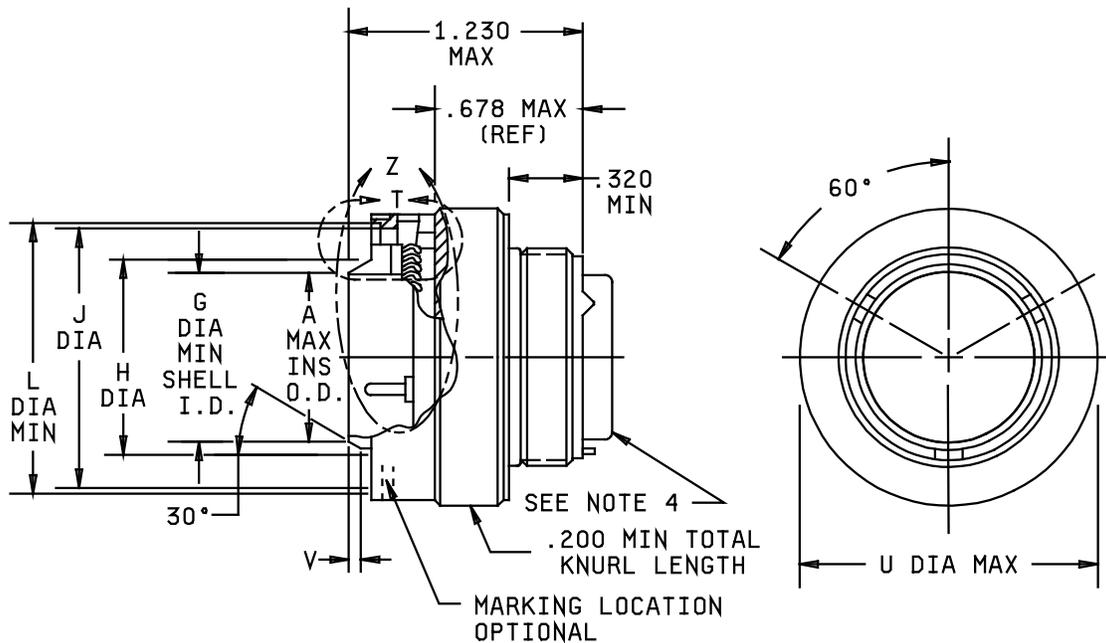


FIGURE 1. Dimensions and configurations.

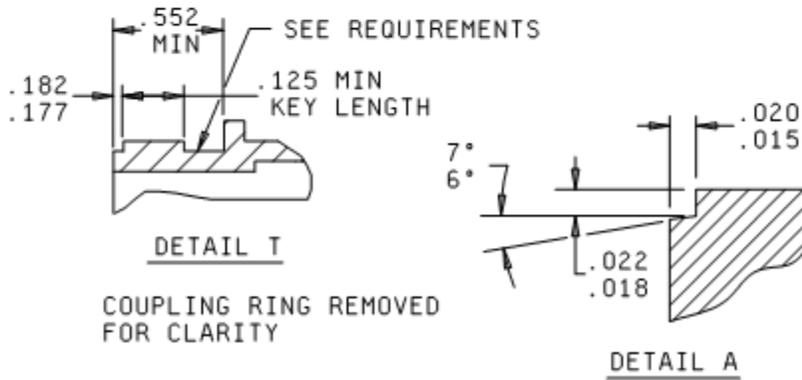
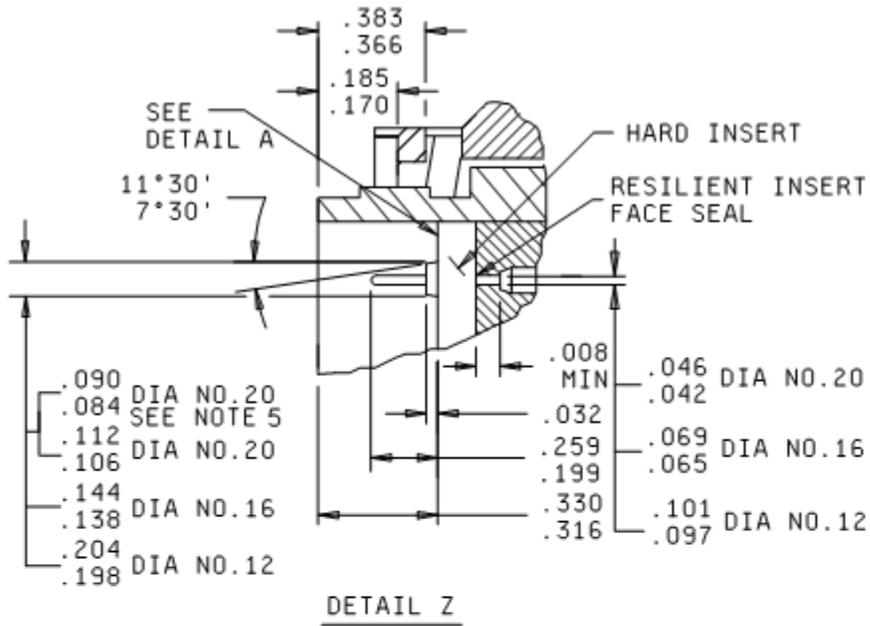


FIGURE 1. Dimensions and configurations - Continued.

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Shell size	A max	G min	H	J	L min	U max	V
8	.312	.352	.415 .424	.540 .545	.632	.776	.025
10	.388	.428	.517 .526	.662 .667	.760	.906	.031
12	.558	.598	.687 .696	.832 .837	.930	1.078	.031
14	.627	.667	.756 .765	.901 .906	.999	1.141	.031
16	.772	.794	.883 .892	1.028 1.033	1.126	1.266	.031
18	.860	.900	.989 .998	1.134 1.139	1.232	1.375	.031
20	.985	1.025	1.114 1.123	1.261 1.266	1.357	1.510	.031
22	1.110	1.150	1.239 1.248	1.384 1.389	1.482	1.625	.031
24	1.235	1.275	1.364 1.373	1.511 1.516	1.607	1.760	.031

FIGURE 1. Dimensions and configurations - Continued.

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Inches	mm	Inches	mm	Inches	mm	Inches	mm	Inches	mm
.008	0.20	.177	4.50	.552	14.20	.900	22.86	1.232	31.29
.015	0.38	.182	4.62	.558	14.17	.901	22.89	1.235	31.37
.018	0.48	.185	4.70	.598	15.19	.906	23.01	1.239	31.47
.020	0.51	.200	5.08	.627	15.93	.930	23.62	1.248	31.70
.022	0.56	.204	5.18	.632	16.05	.985	25.02	1.261	32.03
.025	0.64	.259	6.58	.662	16.81	.989	25.12	1.266	32.16
.031	0.79	.312	7.92	.667	16.94	.998	25.35	1.275	32.39
.032	0.81	.316	8.03	.678	17.22	.999	25.37	1.357	34.47
.042	1.07	.320	8.13	.687	17.45	1.025	26.04	1.373	34.87
.046	1.17	.330	8.38	.696	17.68	1.028	19.84	1.375	34.93
.065	1.65	.352	8.94	.756	19.20	1.033	26.24	1.384	35.15
.069	1.75	.366	9.30	.760	19.30	1.078	27.38	1.389	35.28
.090	2.29	.383	9.73	.765	19.43	1.110	28.19	1.482	37.64
.097	2.46	.388	9.86	.772	19.61	1.114	28.30	1.510	38.35
.101	2.57	.415	10.54	.776	19.71	1.123	28.52	1.511	38.38
.106	2.69	.424	10.77	.794	20.17	1.126	28.60	1.516	38.51
.112	2.84	.428	10.87	.832	21.13	1.134	28.80	1.607	40.82
.125	3.18	.517	13.13	.837	21.26	1.139	28.93	1.625	41.28
.138	3.51	.526	13.36	.860	21.84	1.141	28.98	1.760	44.70
.144	3.66	.540	13.72	.883	22.43	1.150	29.21		
.170	4.32	.545	13.84	.892	22.66	1.230	31.24		

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for information only.
3. Unless otherwise specified, tolerances are  $\pm .005$  (0.13 mm) for three place decimals and  $\pm .01$  (0.25 mm) for two place decimals and  $\pm 1^\circ$  for all angles.
4. Rear accessory interchangeability dimensions shall be in accordance with MIL-DTL-83723.
5. See table I for contact cavities requiring this dimension.

FIGURE 1. Dimensions and configurations - Continued.

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REQUIREMENTS:

Dimensions and configurations: See figure 1.

For insert arrangements, see MIL-STD-1554 and table I.

TABLE I. Inserts requiring reduced diameters for raised seal barriers on contact cavities.

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

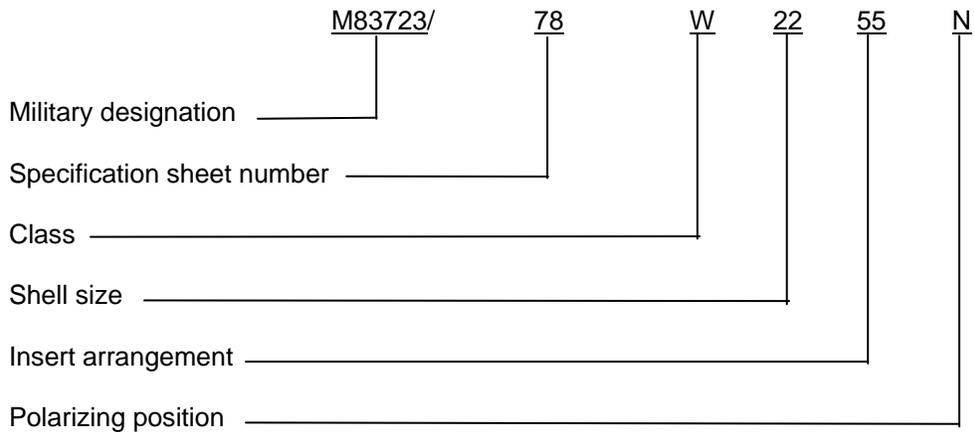
For connector accessories, see SAE-AS85049.

This connector mates with MIL-DTL-83723/71 and MIL-DTL-83723/73.

Mating force: Shall not exceed the values specified in the procurement document by more than 20 percent.

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

Part or Identifying Number (PIN) example:



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

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

MIL-DTL-83723/71  
MIL-DTL-83723/73  
MIL-STD-1554  
SAE-AS85049

CONCLUDING MATERIAL

Custodians:

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

Preparing activity:

DLA - CC

Review activities:

Army - AR, MI  
Navy - EC  
Air Force - 19, 99

(Project 5935-2008-160)

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>.