

INCH-POUND

MIL-DTL-83723/93C  
23 May 2003  
SUPERSEDING  
MIL-C-83723/93B  
24 April 1992

DETAIL SPECIFICATION SHEET

CONNECTORS, ELECTRICAL, (CIRCULAR, ENVIRONMENT RESISTING), RECEPTACLE,  
(SOLDER FLANGE MOUNT, BAYONET COUPLING, STRAIGHT PIN CONTACT),  
(SERIES III, CLASSES H, AND Y)

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 and MIL-DTL-83723.

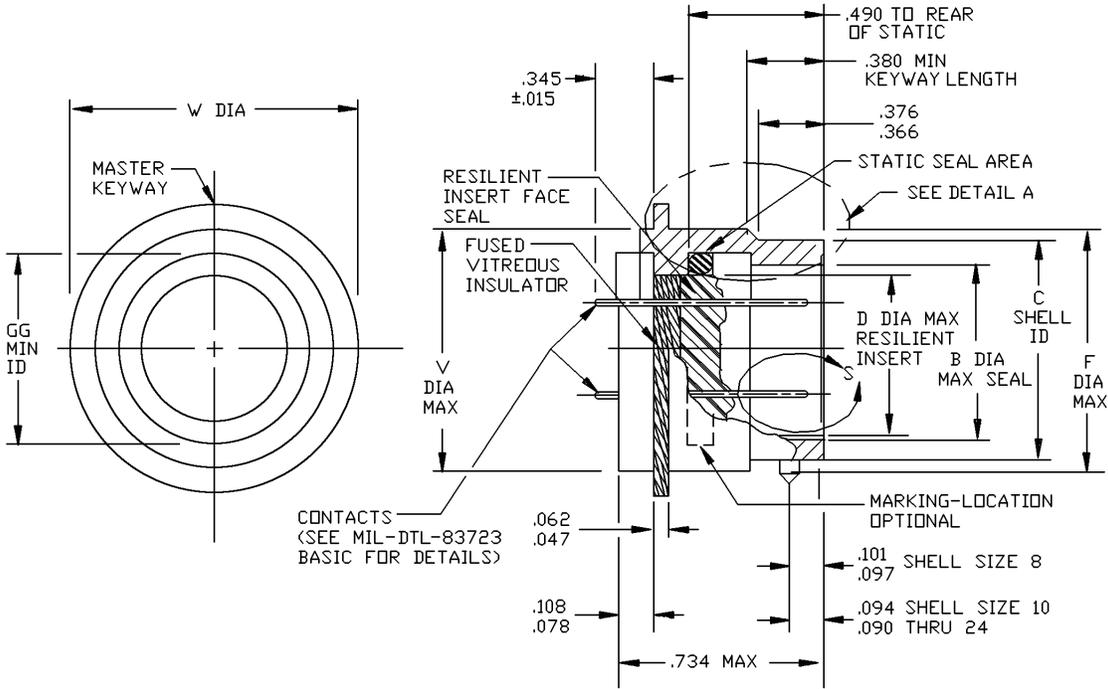


FIGURE 1. Dimensions and configurations.

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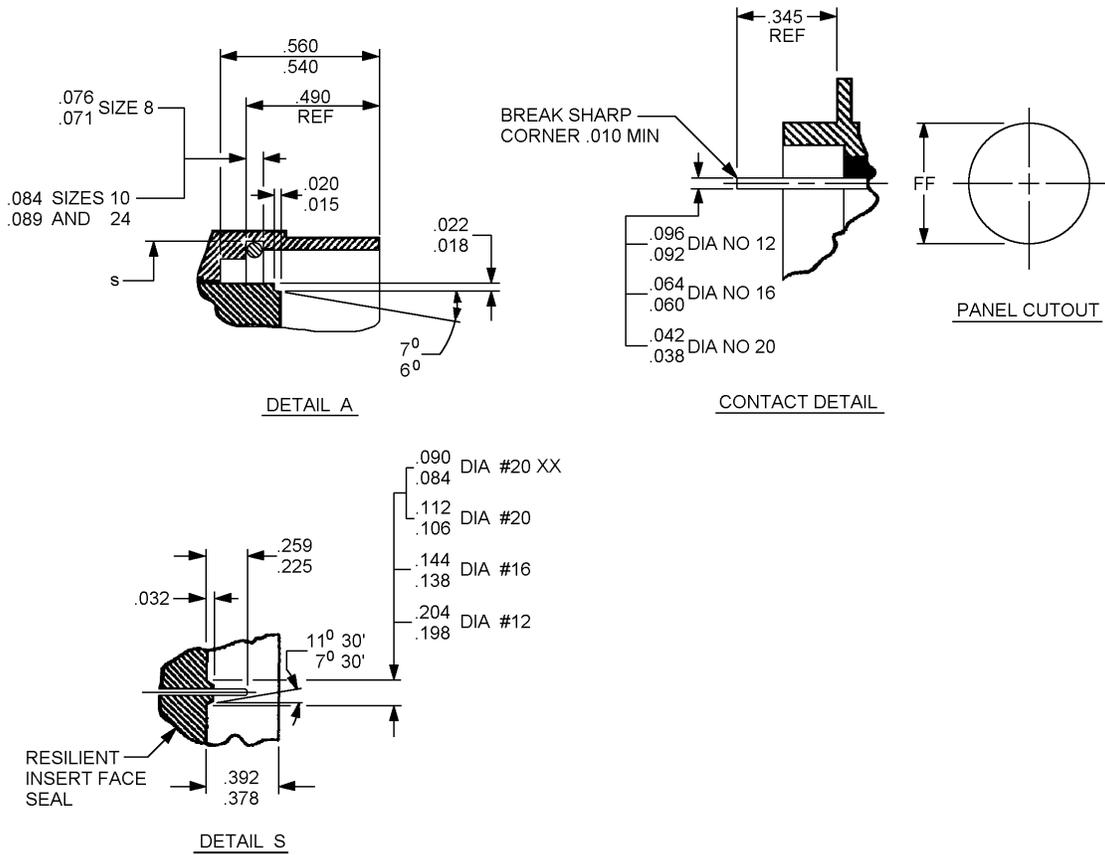


FIGURE 1. Dimensions and configurations – Continued.

Shell size	C	D	E	F	S		V	W	FF	GG
					+ .005	- .000				
8	.428		.536					.760	.505	
	.433	.312	.531	.561	.508	.500	.720	.515	.406	
10	.530		.659					.860	.567	
	.535	.388	.654	.696	.636	.562	.820	.577	.443	
12	.700		.829					1.065	.755	
	.705	.558	.824	.875	.806	.750	1.025	.765	.668	
14	.769		.898					1.110	.817	
	.774	.627	.893	.935	.875	.812	1.070	.827	.668	
16	.896		1.025					1.230	.942	
	.901	.772	1.020	1.062	1.002	.937	1.190	.952	.763	
18	1.002		1.131					1.360	1.067	
	1.007	.860	1.126	1.187	1.108	1.062	1.320	1.077	.862	
20	1.127		1.256					1.450	1.192	
	1.132	.985	1.251	1.312	1.233	1.187	1.410	1.202	1.108	
22	1.252		1.381					1.610	1.317	
	1.257	1.110	1.376	1.437	1.358	1.312	1.570	1.327	1.204	
24	1.377		1.506					1.730	1.442	
	1.382	1.235	1.501	1.562	1.483	1.437	1.690	1.452	1.388	

FIGURE 1. Dimensions and configurations – Continued.

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Inches	mm	Inches	mm	Inches	mm	Inches	mm
.00005	0.001	.406	10.31	.769	19.53	1.131	28.73
.003	0.08	.428	10.87	.772	19.61	1.132	28.75
.004	0.10	.433	11.00	.774	19.66	1.187	30.15
.005	0.13	.443	11.25	.806	20.47	1.190	30.23
.015	0.38	.490	12.45	.812	20.62	1.192	30.28
.020	0.51	.500	12.70	.817	20.75	1.202	30.53
.032	0.81	.505	12.83	.820	20.83	1.204	30.58
.048	1.22	.508	12.90	.824	20.94	1.230	31.24
.062	1.57	.515	13.08	.827	21.01	1.235	31.37
.071	1.80	.530	13.46	.829	21.06	1.251	31.78
.076	1.93	.531	13.49	.860	21.84	1.252	31.80
.078	1.98	.535	13.59	.862	21.89	1.256	31.90
.084	2.13	.536	13.61	.875	22.23	1.257	31.93
.089	2.26	.540	13.71	.893	22.68	1.312	33.32
.090	2.29	.558	14.17	.896	22.76	1.317	33.45
.094	2.39	.560	14.22	.898	22.81	1.327	33.71
.097	2.46	.561	14.25	.901	22.89	1.358	34.49
.101	2.57	.562	14.27	.935	23.75	1.376	34.95
.106	2.69	.567	14.40	.937	23.80	1.377	34.98
.108	2.74	.577	14.66	.942	23.93	1.381	35.08
.112	2.84	.627	15.93	.952	24.18	1.382	35.10
.138	3.51	.636	16.15	.985	25.02	1.388	35.26
.144	3.66	.654	16.61	1.002	25.45	1.410	35.81
.198	5.03	.659	16.74	1.007	25.58	1.422	36.12
.204	5.18	.668	16.97	1.020	25.91	1.437	36.50
.225	5.72	.696	17.68	1.025	26.04	1.450	36.83
.259	6.58	.700	17.78	1.062	26.97	1.452	36.88
.312	7.52	.705	17.91	1.065	27.05	1.483	37.67
.345	8.75	.720	18.29	1.067	27.10	1.501	38.13
.366	9.30	.734	18.64	1.070	27.18	1.506	38.25
.376	9.55	.750	19.05	1.077	27.36	1.562	39.67
.378	9.60	.755	19.18	1.108	28.14	1.570	39.88
.380	9.65	.760	19.30	1.110	28.19	1.610	40.89
.388	9.86	.763	19.38	1.126	28.60	1.690	42.93
.392	9.96	.765	19.43	1.127	28.63	1.730	43.94

FIGURE 1. Dimensions and configurations – Continued.

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NOTES:

1. Dimensions are inches.
2. Metric equivalents are given for general information only.
3. Unless otherwise specified, tolerances are .005 (0.13mm) for three place decimals and .01 (0.25mm) for two place decimals. Angles  $\pm 1^\circ$ .
4. Notes 5 through 10 applicable to contact only.
5. Dimensions apply after plating.
6. Contact finish: Gold plate .000050 inch min. In accordance with ASTM B488. A suitable underplating shall be used. Silver shall not be used. Finish is applied after sealing.
7. Surface finish—63 all over in accordance with ANSI B46.1-62 unless otherwise specified.
8. Remove all burrs and sharp edges .003 to .005 R.
9. Diameters to be concentric within .004 TIR.
10. Diameters in the same cross-sectional plane to be concentric with each other within .003 TIR.
11. Three (3) pins to be located within .004 either side of (TP) relative to master polarizing keyway.

FIGURE 1. Dimensions and configurations – Continued.

REQUIREMENTS

Dimensions and configuration: See figure 1.

This connector mates with MIL-DTL-83723/75 and 77.

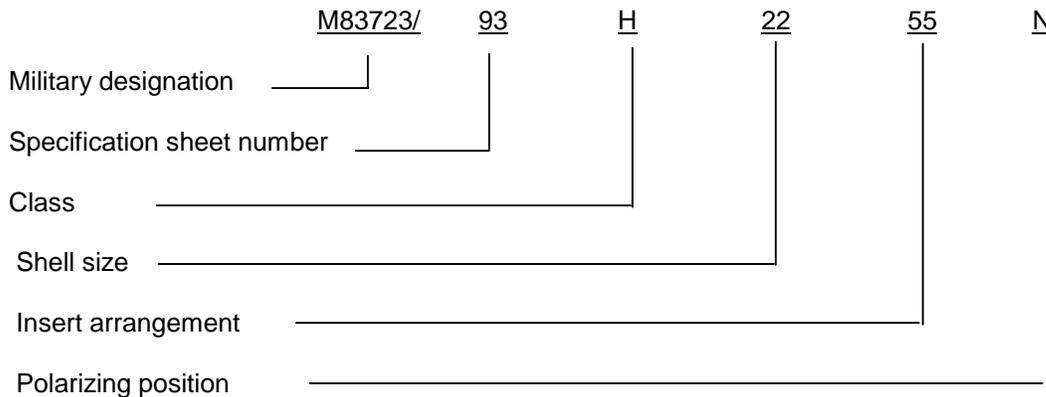
Insert arrangements and polarizing positions: See MIL-STD-1554 and table I.

TABLE I. Insert arrangements requiring reduced diameters for raised barriers on contact cavities as indicated.

Shell size	Insert arrangements	Contact cavities
8	03, 98	1, 2, 3
10	06	1, 2, 3, 4, 5, 6

Connector accessories: See MIL-C-85049.

Part or Identifying Number (PIN) example:



CONCLUDING MATERIAL

Custodians:

- Army – CR
- Navy – AS
- Air Force – 11
- DLA – CC

Preparing activity:

DLA – CC

(Project 5935-415-007)

Review activities:

- Army – AR, MI
- Navy – EC
- Air Force – 19, 80

## STANDARDIZATION DOCUMENT IMPROVEMENT PROPOSAL

### INSTRUCTIONS

1. The preparing activity must complete blocks 1, 2, 3, and 8. In block 1, both the document number and revision letter should be given.
2. The submitter of this form must complete blocks 4, 5, 6, and 7, and send to preparing activity.
- 3 The preparing activity must provide a reply within 30 days from receipt of the form.

NOTE: This form may not be used to request copies of documents, nor to request waivers, or clarification of requirements on current contracts. Comments submitted on this form do not constitute or imply authorization to waive any portion of the referenced document(s) or to amend contractual requirements.

I RECOMMEND A CHANGE:	1. DOCUMENT NUMBER <b>MIL-DTL-83723/93C</b>	2. DOCUMENT DATE (YYYYMMDD) <b>2003/05/23</b>
3. DOCUMENT TITLE <b>CONNECTORS, ELECTRICAL, (CIRCULAR, ENVIRONMENT RESISTING), RECEPTACLE, (SOLDER FLANGE MOUNT, BAYONET COUPLING, STRAIGHT PIN CONTACT), (SERIES III, CLASSES H, AND Y)</b>		
4. NATURE OF CHANGE ( <i>Identify paragraph number and include proposed rewrite, if possible.</i> <i>Attach extra sheets as needed.</i> )		
5. REASON FOR RECOMMENDATION		
6. SUBMITTER		
a. NAME ( <i>Last, First, Middle Initial</i> )	b. ORGANIZATION	
c. ADDRESS ( <i>Include zip code</i> )	d. TELEPHONE ( <i>Include Area Code</i> ) (1) Commercial (2) DSN ( <i>if applicable</i> )	7. DATE SUBMITTED (YYYYMMDD)
8. PREPARING ACTIVITY		
a. NAME Defense Logistics Agency Defense Supply Center, Columbus	b. TELEPHONE ( <i>Include Area Code</i> ) (1) Commercial <b>614-692-0565</b> (2) DSN <b>850-0565</b>	
c. ADDRESS ( <i>Include Zip Code</i> )  DSCC-VAI 3990 E. Broad St. Columbus, Ohio 43213	IF YOU DO NOT RECEIVE A REPLY WITHIN 45 DAYS, CONTACT: Defense Standardization Program Office (DLSC-LM) 8725 John J. Kingman Road, Suite 2533 Fort Belvoir, Virginia 22060-6621 Telephone (703) 767-6888      DSN 427-6888	