

INCH-POUND

MIL-DTL-83723/65F
1 October 2010
SUPERSEDING
MIL-DTL-83723/65E
15 September 2006

DETAIL SPECIFICATION SHEET

CONNECTOR, ELECTRIC, (CIRCULAR, ENVIRONMENT RESISTING),
RECEPTACLE, (SINGLE HOLE MOUNT, BAYONET COUPLING, PIN CONTACT),
(SERIES III, CLASS H)

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.

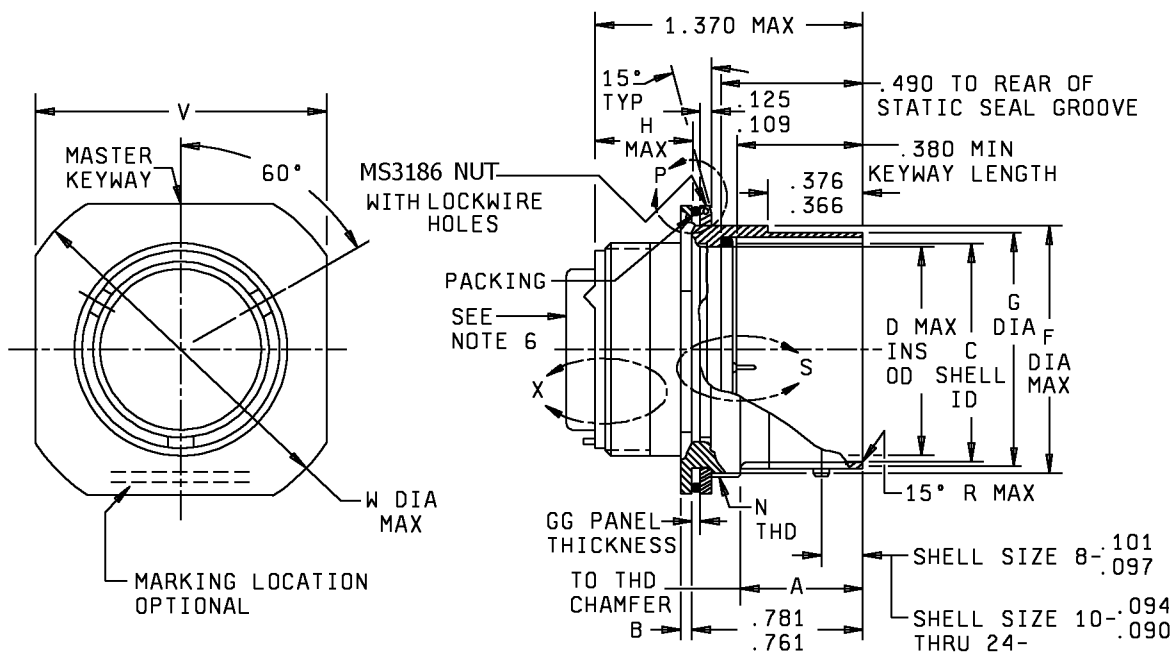


FIGURE 1. Dimensions and configurations.

AMSC N/A

FSC 5935

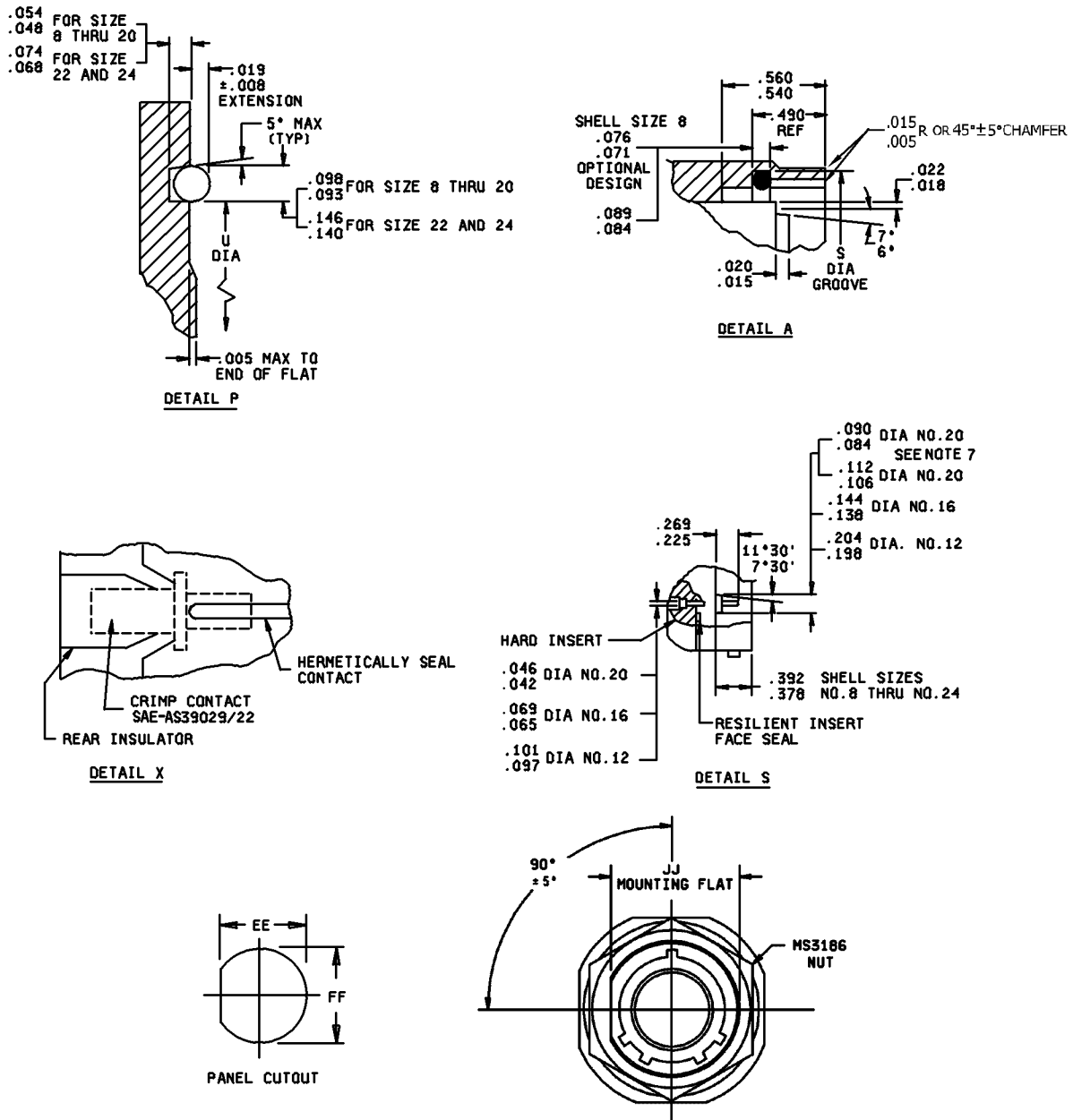


FIGURE 1. Dimensions and configurations - Continued.

MIL-DTL-83723/65F

Shell size	A	B	C	D	F	G	H	N thread UNEF-2A
8	.481 .461	.137 .097	.428 .433	.312	.561	.536 .531	.589	.625-20
10	.481 .461	.137 .097	.530 .535	.388	.696	.659 .654	.589	.750-20
12	.481 .461	.137 .097	.700 .705	.558	.875	.829 .824	.589	.9375-20
14	.481 .461	.137 .097	.769 .774	.627	.935	.898 .893	.589	1.000-20
16	.481 .461	.137 .097	.869 .901	.772	1.062	1.025 1.020	.589	1.125-18
18	.481 .461	.137 .097	1.002 1.007	.860	1.187	1.131 1.126	.589	1.250-18
20	.481 .461	.137 .097	1.127 1.132	.985	1.312	1.256 1.251	.589	1.375-18
22	.481 .461	.168 .128	1.252 1.257	1.110	1.437	1.381 1.376	.589	1.500-18
24	.481 .461	.168 .128	1.377 1.382	1.235	1.562	1.506 1.501	.589	1.625-18

FIGURE 1. Dimensions and configurations - Continued.

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Shell size	U	V	S +.005 - .000	W	EE	FF	GG	JJ
8	.670	.979	.508	1.068	.605	.635	.125 .062	.596 .590
10	.777	1.104	.636	1.192	.730	.760	.125 .062	.721 .715
12	.965	1.291	.806	1.380	.917	.947	.125 .062	.908 .902
14	1.090	1.391	.875	1.505	.980	1.010	.125 .062	.971 .965
16	1.215	1.516	1.002	1.630	1.105	1.135	.125 .062	1.096 1.090
18	1.340	1.641	1.108	1.756	1.225	1.260	.125 .062	1.220 1.214
20	1.465	1.766	1.233	1.860	1.350	1.385	.125 .062	1.345 1.339
22	1.574	1.954	1.358	2.086	1.475	1.510	.125 .062	1.470 1.464
24	1.669	2.079	1.483	2.160	1.600	1.635	.125 .062	1.595 1.589

FIGURE 1. Dimensions and configurations - Continued.

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Inches	mm	Inches	mm	Inches	mm	Inches	mm	Inches	mm
.005	0.13	.204	5.18	.700	17.78	1.062	26.97	1.377	34.98
.008	0.20	.225	5.72	.705	17.91	1.068	27.13	1.380	35.05
.015	0.38	.269	6.83	.715	18.16	1.090	27.69	1.381	35.08
.018	0.46	.312	7.92	.721	18.31	1.096	27.84	1.382	35.10
.019	0.48	.366	9.30	.730	18.44	1.104	28.04	1.385	35.18
.020	0.51	.376	9.55	.760	19.30	1.105	28.07	1.391	35.33
.022	0.56	.378	9.60	.761	19.33	1.108	28.14	1.437	36.50
.032	0.81	.380	9.65	.769	19.53	1.110	28.19	1.455	36.96
.048	1.22	.388	9.86	.772	19.61	1.126	28.60	1.464	37.19
.054	1.37	.392	9.96	.774	19.66	1.127	28.63	1.465	37.21
.062	1.57	.428	10.87	.777	19.74	1.131	28.73	1.470	37.34
.068	1.73	.433	11.00	.781	19.84	1.132	28.75	1.475	37.47
.071	1.80	.461	11.71	.806	20.47	1.135	28.83	1.483	37.67
.074	1.88	.481	12.22	.824	20.93	1.142	29.01	1.501	38.13
.076	1.93	.490	12.45	.829	21.06	1.187	30.15	1.505	38.23
.084	2.13	.508	12.90	.860	21.84	1.192	30.28	1.506	38.25
.089	2.26	.530	13.46	.875	22.23	1.214	30.84	1.510	38.35
.090	2.29	.531	13.49	.893	22.68	1.215	30.86	1.516	38.51
.091	2.31	.535	13.59	.896	22.76	1.220	30.99	1.562	39.67
.093	2.36	.536	13.61	.898	22.81	1.223	31.06	1.574	39.98
.094	2.39	.539	13.69	.901	22.89	1.225	31.12	1.589	40.36
.097	2.46	.540	13.92	.902	22.91	1.235	31.37	1.595	40.51
.098	2.49	.558	14.17	.908	23.06	1.251	31.78	1.600	40.64
.101	2.57	.560	14.22	.917	23.29	1.252	31.80	1.630	41.40
.106	2.69	.561	14.25	.935	23.75	1.256	31.90	1.635	41.53
.109	2.77	.589	14.96	.947	24.05	1.257	31.93	1.641	41.68
.112	2.84	.590	14.99	.965	24.51	1.260	32.00	1.669	42.39
.125	3.18	.596	15.14	.971	24.66	1.291	32.79	1.756	44.60
.128	3.25	.625	15.88	.979	24.87	1.312	33.32	1.766	44.86
.137	3.48	.627	15.93	.980	24.89	1.339	34.01	1.860	47.24
.138	3.51	.635	16.13	.985	25.02	1.340	34.04	1.954	49.63
.140	3.56	.636	16.15	1.002	25.45	1.345	34.16	2.068	52.53
.144	3.66	.654	16.61	1.007	25.58	1.350	34.29	2.079	52.81
.146	3.71	.659	16.74	1.010	25.65	1.358	34.49	2.160	54.86
.168	4.27	.670	17.02	1.020	25.91	1.370	34.80		
.198	5.03	.696	17.68	1.025	26.04	1.376	34.95		

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for information only.
3. Unless otherwise specified, tolerances are $\pm .005$ inches (0.13 mm) for three place decimals, $\pm .01$ inches (0.25 mm) for two place decimals, and $\pm 1^\circ$ for all angles.
4. Fully coupled indicator grooves shall be color coded blue, $.025 \pm .010$ inches (0.635 $\pm$ 0.254 mm) wide.
5. Three pins to be within .004 inches (0.102 mm) either side of true position (TP) relative to master polarizing keyway.
6. Rear accessory interchangeability dimensions shall be in accordance with MIL-DTL-83723.
7. See table I for contact cavities requiring these dimensions.

FIGURE 1. Dimensions and configurations - Continued.

MIL-DTL-83723/65F

REQUIREMENTS:

Dimensions and configuration: See figure 1.

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

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

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

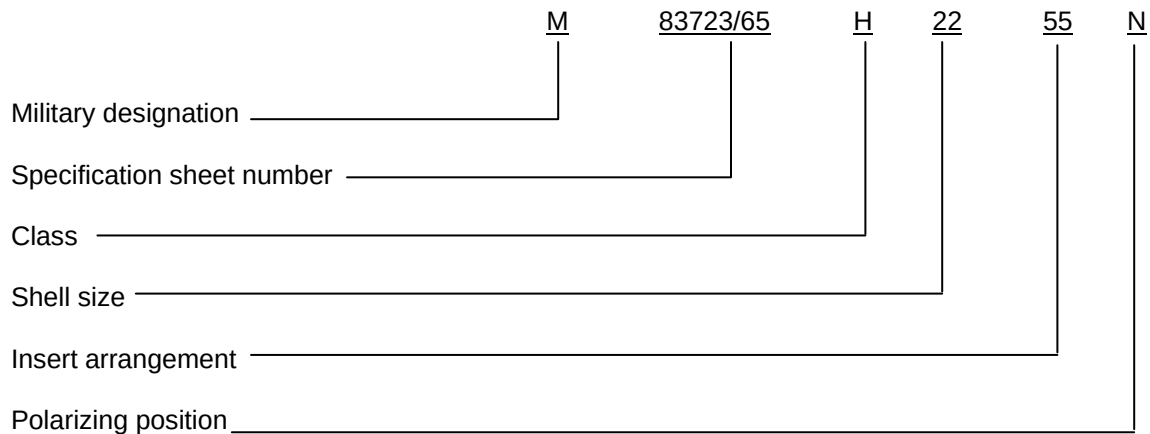
Shell size	Insert arrangements	Contact cavities
8	03	1, 2, 3
10	06	1, 2, 3, 4, 5, 6

Contacts: Crimp socket termination in accordance with SAE-AS39029/22.

Connector accessories: SAE-AS85049.

O-ring shall be furnished with connector.

Part or Identifying Number (PIN) example:



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-83723/75
MIL-DTL-83723/77
MIL-STD-1554
MS3186
SAE-AS39029/22
SAE-AS85049

MIL-DTL-83723/65F

CONCLUDING MATERIAL

Custodians:

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

Preparing activity:

DLA - CC

Review activities:

Air Force - 19, 99

(Project 5935- 2010-046)

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>.