

INCH-POUND

MIL-DTL-83723/65F
w/AMENDMENT 1
1 February 2024
SUPERSEDING
MIL-DTL-83723/65F
1 October 2010

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.

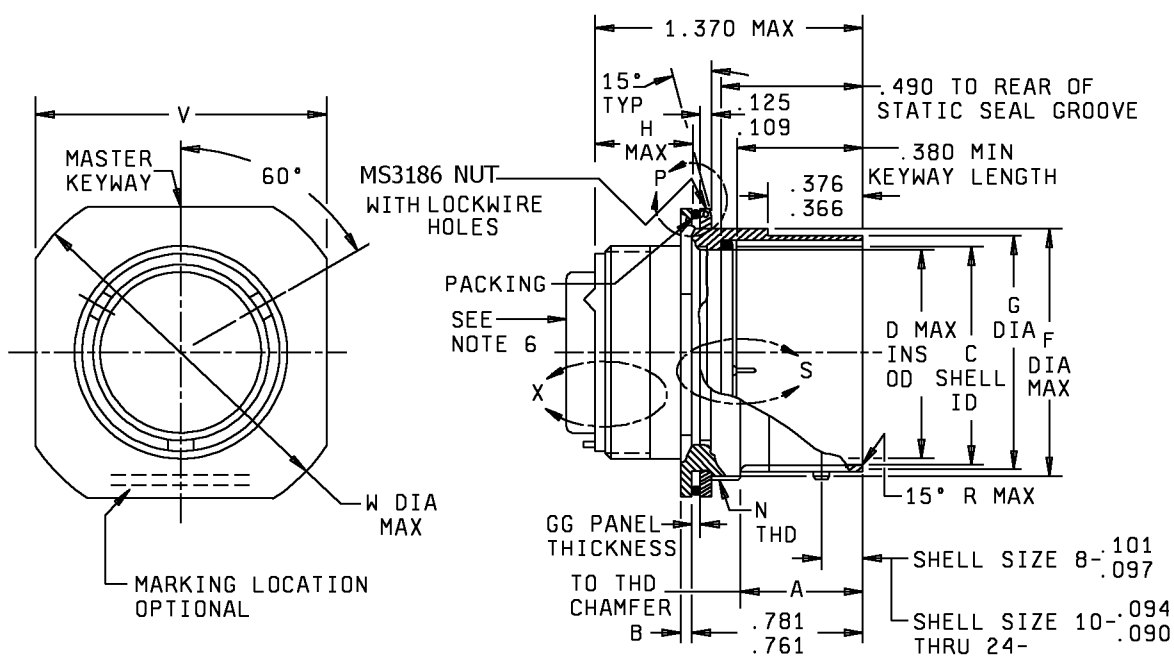


FIGURE 1. Dimensions and configurations.

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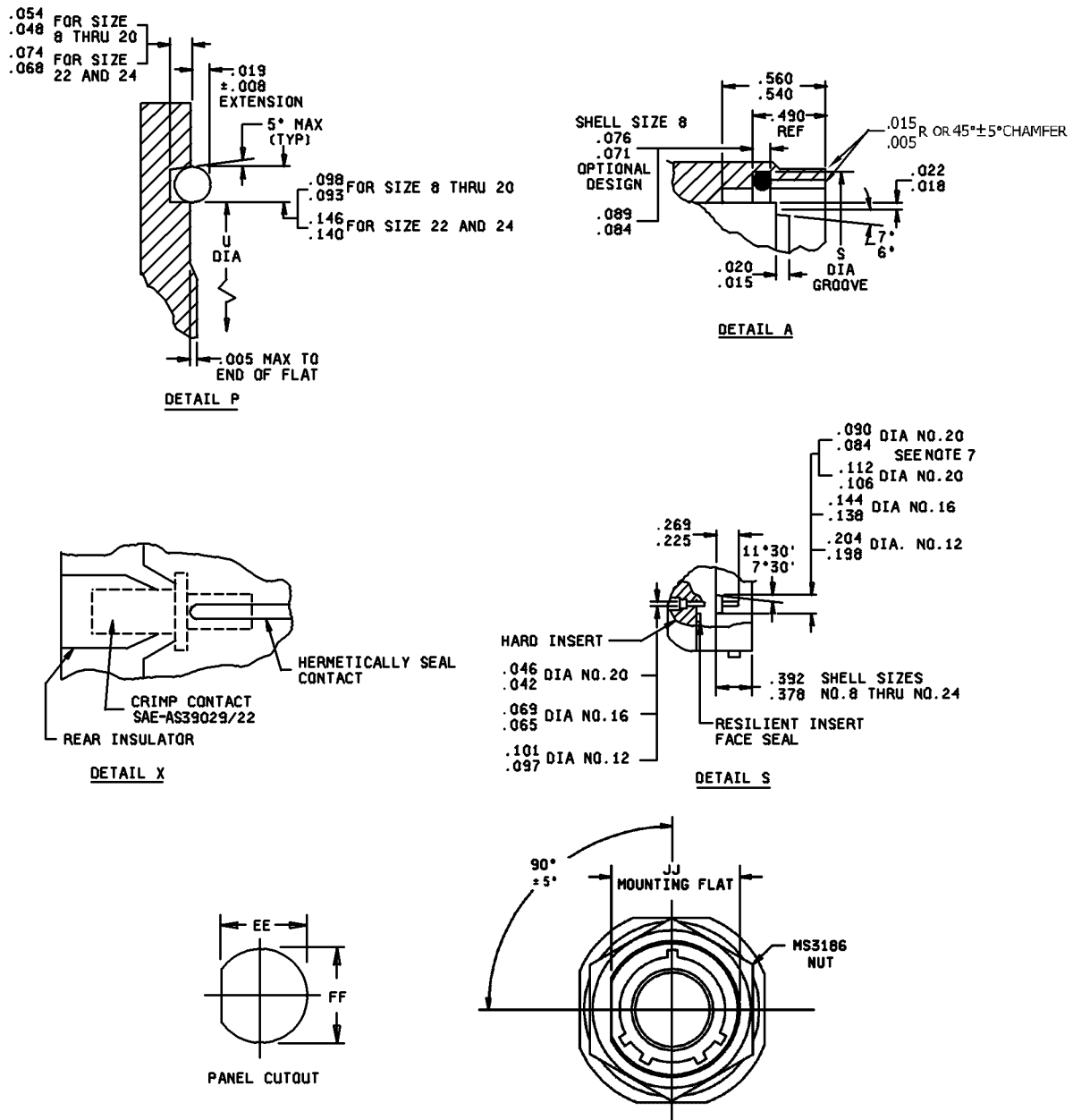


FIGURE 1. Dimensions and configurations - Continued.

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Shell size	A	B	C	D	F	G	H	N thread UNEF-2A
08	.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

Shell size	U	V	S +.005 - .000	W	EE	FF	GG	JJ
08	.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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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 ± 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.

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
08	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:

M 83723/65 H 08 55 N

M Military designation
83723/65 Specification sheet number
H Class
08 Shell size
55 Insert arrangement
N Polarizing position

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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

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.

CONCLUDING MATERIAL

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

Preparing activity:
DLA - CC

Review activities:
Air Force - 19

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