

INCH - POUND

MIL-DTL-83723/79E
w/AMENDMENT 1
8 March 2024
SUPERSEDING
MIL-DTL-83723/79E
1 October 2010

DETAIL SPECIFICATION SHEET

CONNECTORS, ELECTRICAL, (CIRCULAR, ENVIRONMENT RESISTING),
RECEPTACLE, (FLANGE MOUNT, BAYONET COUPLING, SOLDER PIN
CONTACT), (SERIES III, CLASSES H, J, L, P 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 sheet and MIL-DTL-83723.

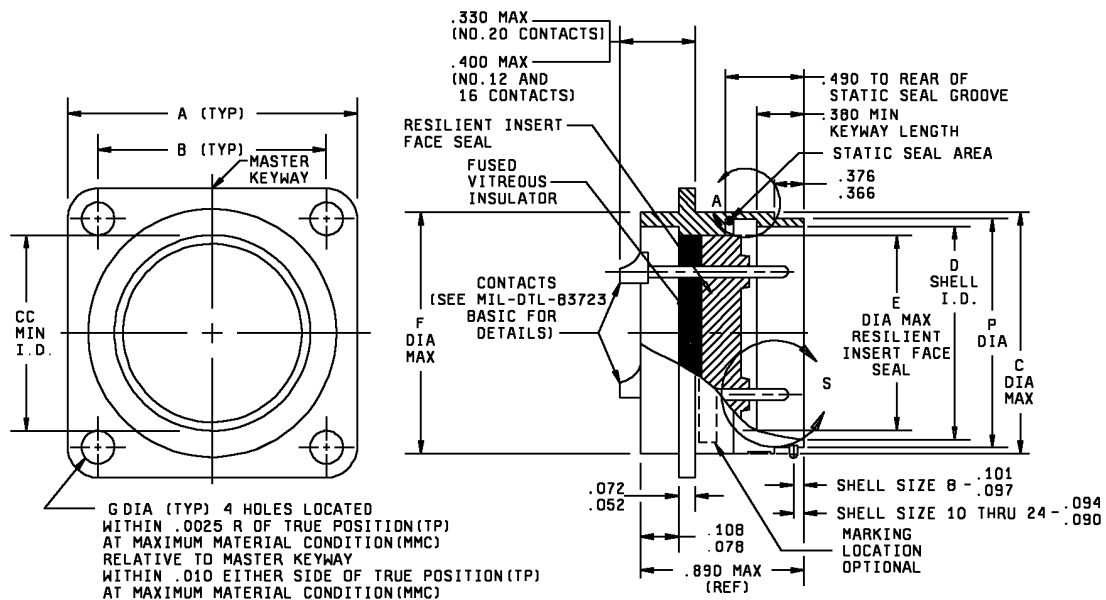


FIGURE 1. Dimensions and configurations.

MIL-DTL-83723/79E
w/AMENDMENT 1

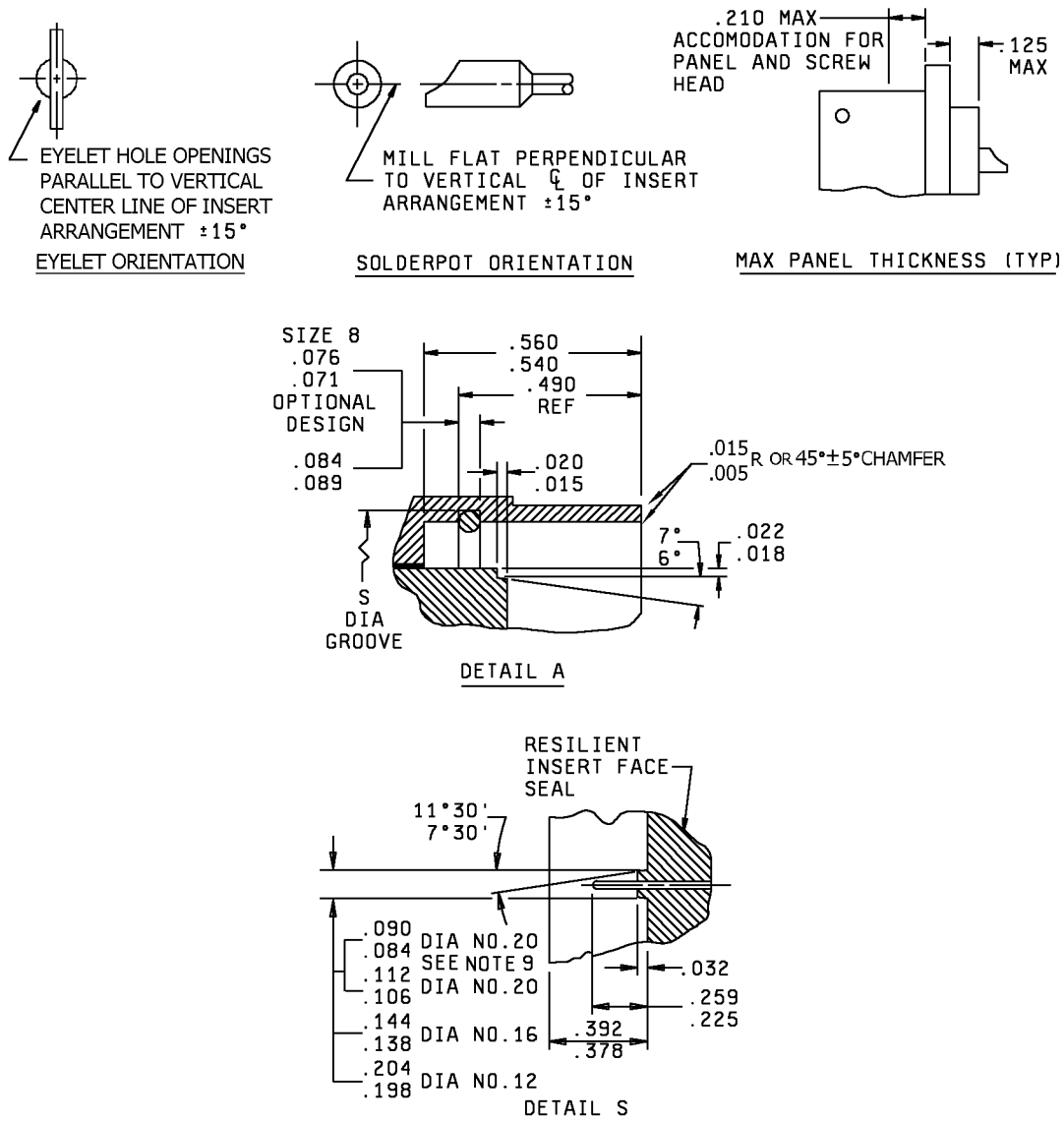


FIGURE 1. Dimensions and configurations - Continued.

MIL-DTL-83723/79E
w/AMENDMENT 1

Shell size	A	B	C dia	D dia	E dia	F dia	G dia
08	.812	.594	.561	.428 .433	.312	.500	.120
10	.937	.719	.696	.530 .535	.388	.562	.120
12	1.031	.812	.875	.700 .705	.558	.750	.120
14	1.125	.906	.935	.769 .774	.627	.812	.120
16	1.250	.969	1.062	.896 .901	.772	.937	.120
18	1.343	1.062	1.187	1.002 1.007	.860	1.062	.120
20	1.437	1.156	1.312	1.127 1.132	.985	1.187	.120
22	1.562	1.250	1.437	1.252 1.257	1.110	1.312	.120
24	1.703	1.375	1.562	1.377 1.382	1.235	1.437	.149

FIGURE 1. Dimensions and configurations - Continued.

MIL-DTL-83723/79E
w/AMENDMENT 1

Shell size	P dia	S +.005/ -.000	Panel cutout for C dia	Panel cutout for F dia	CC
08	.536 .531	.508	.630 .620	.515 .505	.406
10	.659 .654	.636	.758 .748	.582 .572	.443
12	.829 .824	.806	.923 .913	.770 .760	.668
14	.898 .893	.875	.990 .980	.832 .822	.668
16	1.025 1.020	1.002	1.117 1.107	.958 .948	.763
18	1.131 1.126	1.108	1.219 1.209	1.082 1.072	.862
20	1.256 1.251	1.233	1.347 1.337	1.202 1.192	1.108
22	1.381 1.376	1.358	1.462 1.452	1.332 1.322	1.204
24	1.506 1.501	1.483	1.587 1.577	1.452 1.442	1.388

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. Dimensions apply after plating.
5. Surface finish: 63 () all over in accordance with ASME-B46.1, unless otherwise specified.
6. Remove all burrs and sharp edges .003 to .005 inches (0.076 to 0.127 mm) R.
7. Diameters to be concentric within .004 inches (0.102 mm) TIR.
8. Diameter in the same cross-sectional plane to be concentric with each other within .003 inches (0.076 mm) TIR.
9. See table I for contact cavities requiring this dimension.

FIGURE 1. Dimensions and configurations – Continued.

REQUIREMENTS:

Dimensions and configuration: See figure 1.

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

MIL-DTL-83723/79E
w/AMENDMENT 1

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, 98	1, 2, and 3
10	06	1, 2, 3, 4, 5, and 6

Connector accessories: See SAE-AS85049.

Part or Identifying Number (PIN) example:

M83723/ 79 H 08 55 N

<u>M83723/</u>	Military designation
<u>79</u>	Specification sheet number
<u>H</u>	Class
<u>08</u>	Shell size
<u>55</u>	Insert arrangement
<u>N</u>	Polarizing position

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-83723/75
MIL-DTL-83723/77
MIL-STD-1554
ASME-B46.1
SAE-AS85049

CONCLUDING MATERIAL

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

Preparing activity:
DLA - CC

(Project 5935-2024-058)

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

MIL-DTL-83723/79E
w/AMENDMENT 1

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.dla.mil>.