

INCH-POUND

MIL-DTL-83723/71C  
18 August 2009  
SUPERSEDING  
MIL-C-83723/71B  
30 June 1992

DETAIL SPECIFICATION SHEET

CONNECTORS, ELECTRICAL, (CIRCULAR, ENVIRONMENT RESISTING),  
RECEPTACLE, (FLANGE MOUNT, BAYONET COUPLING, CRIMP SOCKET CONTACT),  
SERIES III, CLASSES A, 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.

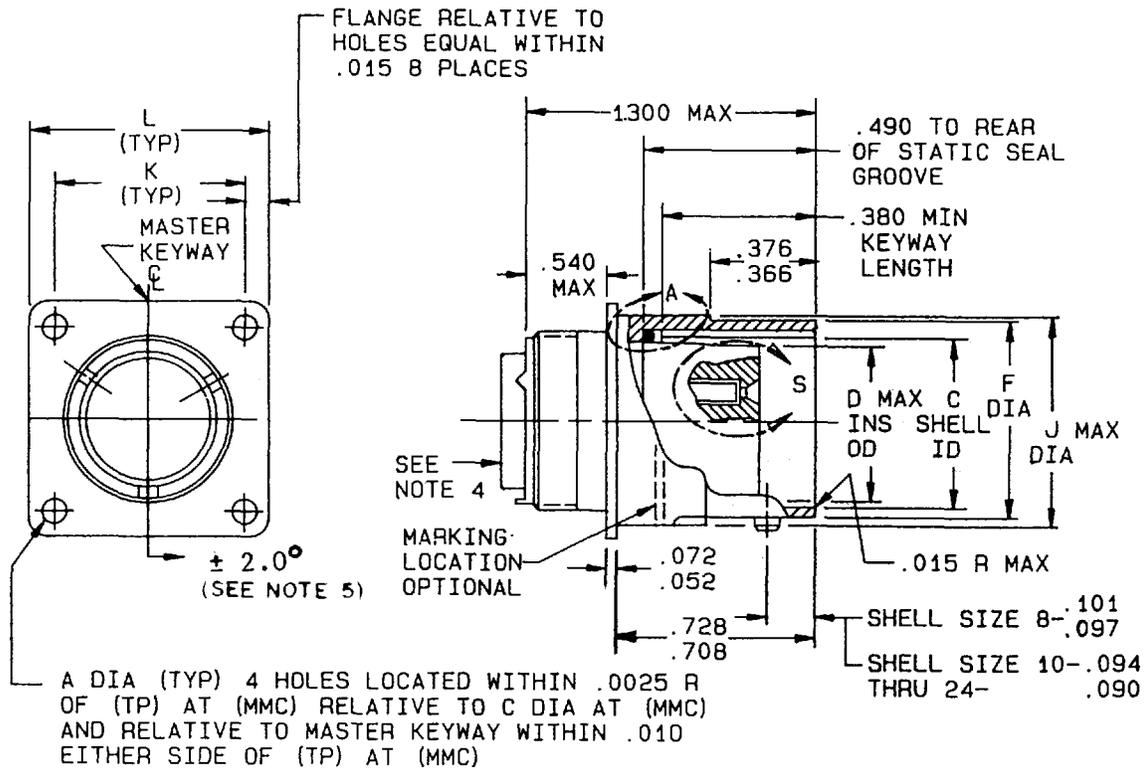
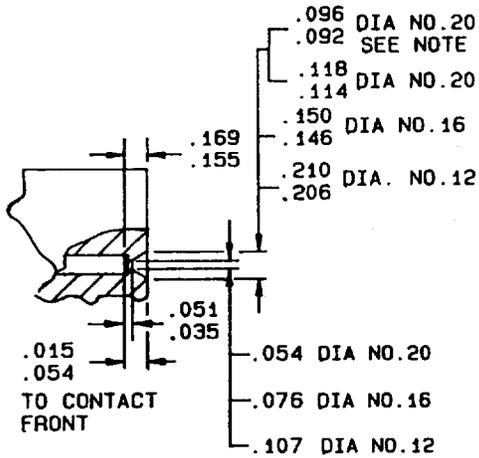
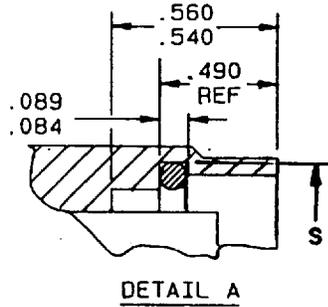
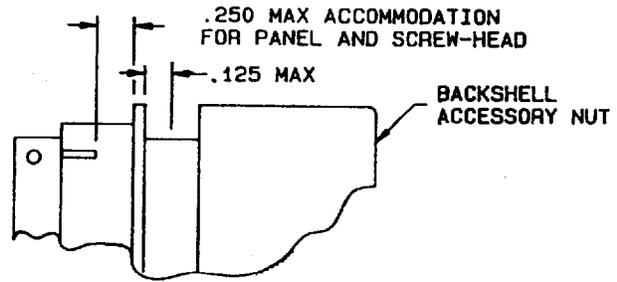


FIGURE 1. Receptacle, dimensions and configurations.

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NOTE: SEE TABLE I FOR CONTACT CAVITIES REQUIRING THIS DIMENSION



Inches		mm													
.015	.035	.051	.054	.076	.092	.096	.114	.118	.146	.150	.155	.169	.206	.210	.250
0.38	0.89	1.30	1.37	1.93	2.34	2.44	2.90	3.00	3.71	3.81	3.94	4.29	5.23	5.33	6.35

FIGURE 1. Receptacle, dimensions and configurations - Continued.

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Shell size	A	C	D	F	J	K	L	S + .005 (0.13) - .000
8	.120 (3.05)	.428 (10.87) .433 (11.00)	.312 (7.92)	.536 (13.61) .531 (13.49)	.561 (14.25)	.594 (15.09)	.812 (20.62)	.508 (12.90)
10	.120 (3.05)	.530 (13.46) .535 (13.59)	.388 (9.86)	.659 (16.74) .654 (16.61)	.696 (17.68)	.719 (18.26)	.937 (23.80)	.636 (16.15)
12	.120 (3.05)	.700 (17.78) .705 (17.91)	.558 (14.17)	.829 (21.06) .824 (20.93)	.875 (22.23)	.812 (20.62)	1.031 (26.19)	.806 (20.47)
14	.120 (3.05)	.769 (19.53) .774 (19.66)	.627 (15.93)	.898 (22.81) .893 (22.68)	.935 (23.75)	.906 (23.01)	1.125 (28.58)	.875 (22.23)
16	.120 (3.05)	.869 (22.07) .901 (22.89)	.772 (19.61)	1.025 (26.04) 1.020 (25.91)	1.062 (26.97)	.969 (24.61)	1.250 (31.75)	1.002 (25.45)
18	.120 (3.05)	1.002 (25.45) 1.007 (25.58)	.860 (21.84)	1.131 (28.73) 1.126 (28.60)	1.187 (30.15)	1.062 (26.97)	1.343 (34.11)	1.108 (28.14)
20	.120 (3.05)	1.127 (28.63) 1.132 (28.75)	.985 (25.02)	1.256 (31.90) 1.251 (31.78)	1.312 (33.32)	1.156 (29.36)	1.437 (36.50)	1.233 (31.32)
22	.120 (3.05)	1.252 (31.80) 1.257 (31.93)	1.110 (28.19)	1.381 (35.08) 1.376 (34.95)	1.437 (36.50)	1.250 (31.75)	1.562 (39.67)	1.358 (34.49)
24	.149 (3.78)	1.377 (34.98) 1.382 (35.10)	1.235 (31.37)	1.506 (38.25) 1.501 (38.13)	1.562 (39.67)	1.375 (34.93)	1.703 (43.26)	1.483 (37.67)

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for information only. Metric equivalents are in parentheses.
3. Unless otherwise specified, tolerances shall be  $\pm .005$  (0.13) for three place decimal places,  $\pm .01$  (0.25) for two place decimal places and  $\pm 1^\circ$  for all angles.
4. Rear accessory interchangeability dimensions shall be in accordance with MIL-DTL-83723 and SAE-AS85049.
5. The centerline of indicated projection shall be located on the vertical centerline within  $\pm 2^\circ$ .

FIGURE 1. Receptacle, dimensions and configurations - Continued.

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REQUIREMENTS:

Dimensions and configurations: See figure 1.

For insert arrangement, see MIL-STD-1554.

For connector accessories, see SAE-AS85049.

This connector mates with MIL-DTL-83723/76 and MIL-DTL-83723/78.

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

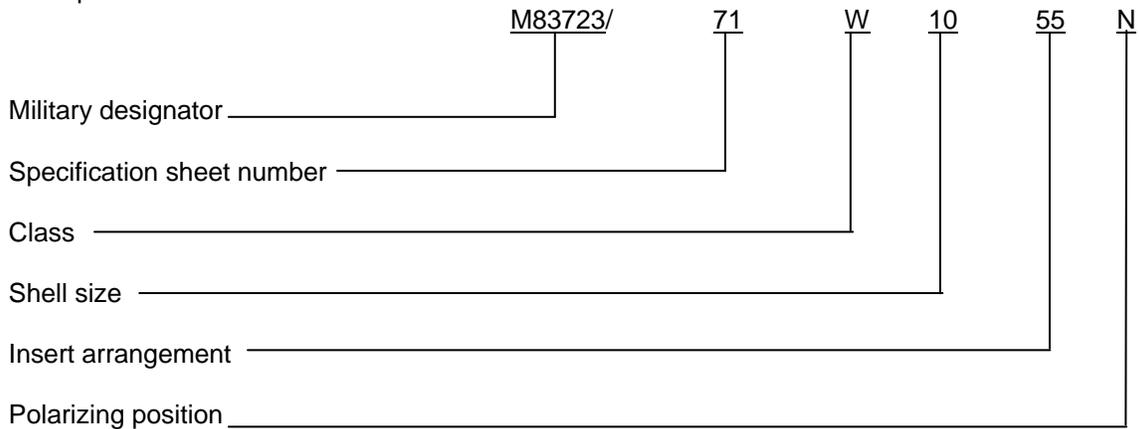
TABLE I. Inserts requiring reduced diameters for lead-in chamfers on contact cavities.

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

Marking:

Part or Identifying Number (PIN): M83723/71 – X (where “X” represents the dash number from figure 1), shell size, and the applicable code for finish.

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-83723/76  
MIL-DTL-83723/78  
MIL-STD-1554  
SAE-AS85049

CONCLUDING MATERIAL

Custodians:

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

Preparing activity:

DLA - CC

(Project 5935-2008-125)

Review activities:

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

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>.