

METRIC

MIL-DTL-83538/4D
7 January 2015
SUPERSEDING
MIL-DTL-83538/4C
30 October 2006

DETAIL SPECIFICATION SHEET

CONNECTORS AND ACCESSORIES, ELECTRICAL, CIRCULAR,
UMBILICAL, RECEPTACLE, LAUNCHER ASSEMBLY, REMOVABLE
CRIMP CONTACTS, SOCKETS FOR MIL-STD-1760 APPLICATIONS
(METRIC)

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-83538.

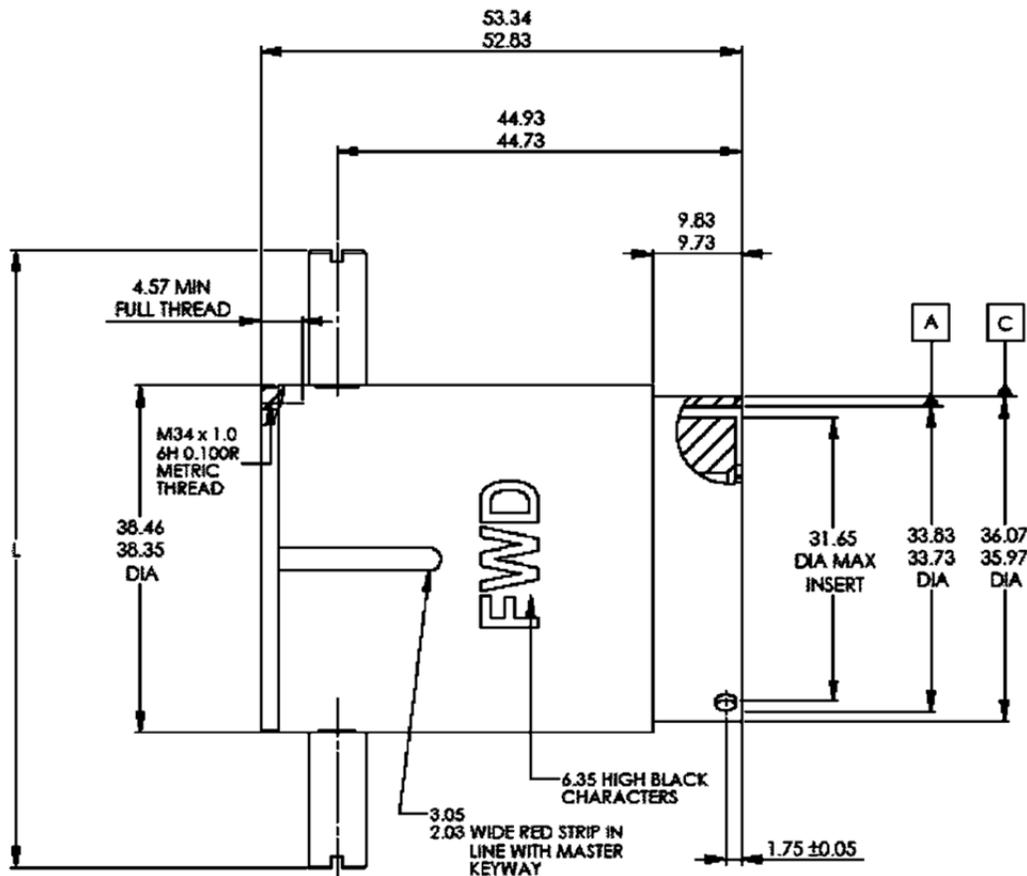


FIGURE 1. Launcher receptacle, style A.



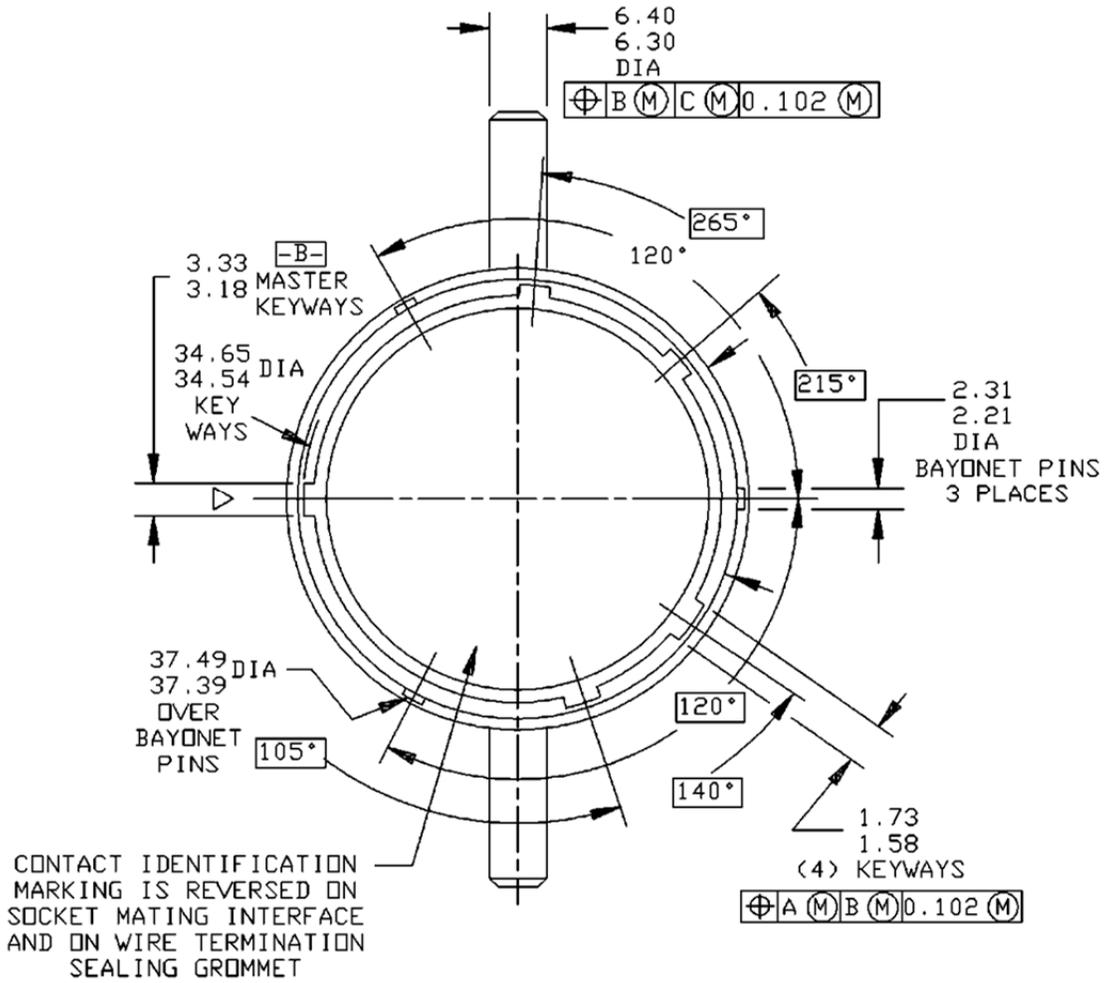


FIGURE 1. Launcher receptacle, style A - Continued.

MIL-DTL-83538/4D

CONTACT IDENTIFICATION
MARKING IS REVERSED ON
SOCKET MATING INTERFACE
AND ON WIRE TERMINATION
SEALING GROMMET

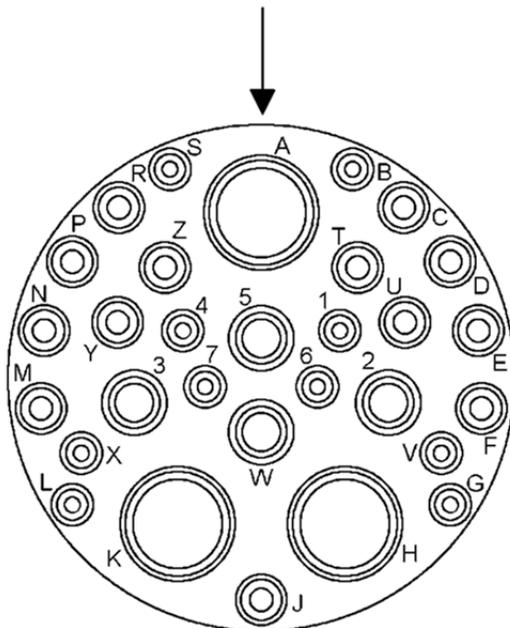
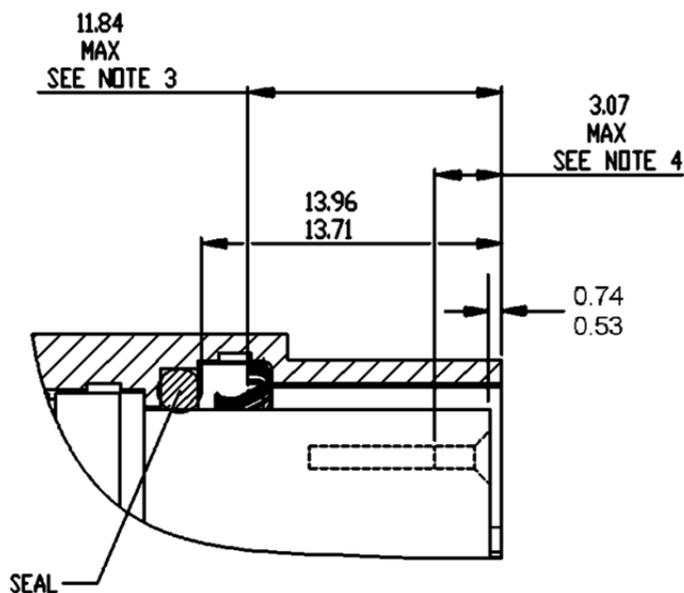


FIGURE 1. Launcher receptacle, style A - Continued.

MIL-DTL-83538/4D

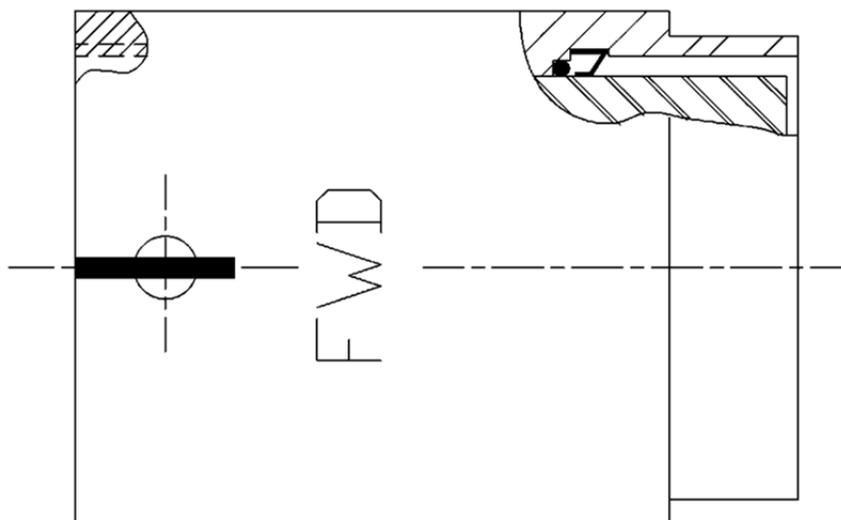


mm	Inches	mm	Inches	mm	Inches	mm	Inches	mm	Inches
0.05	.002	2.03	.080	6.30	.248	15.15	.596	37.49	1.476
0.10	.004	2.21	.087	6.35	.250	31.65	1.246	38.35	1.510
0.10	.004	2.31	.091	6.40	.252	33.73	1.328	38.46	1.514
0.53	.021	3.05	.120	9.73	.383	33.83	1.332	44.73	1.761
0.74	.029	3.07	.121	9.83	.387	34.54	1.360	44.93	1.769
1.58	.062	3.18	.125	11.84	.466	34.65	1.364	52.83	2.080
1.73	.068	3.33	.131	13.71	.540	35.97	1.416	53.34	2.100
1.75	.069	4.57	.180	13.96	.550	36.07	1.420	67.97	2.676
						37.39	1.472	68.68	2.704

NOTES:

1. Dimensions are in millimeters.
2. Inch equivalents are given for information only.
3. A point at which the mating shell first touches the ground spring.
4. A point at which a gauge pin, having the same basic diameter as the mating contact and a square face, touches the socket contact spring.

FIGURE 1. Launcher receptacle, style A - Continued.



Note: The spigots in styles B and D are rotated 90° from those in styles A and C.

FIGURE 2. Launcher receptacle, style B.

TABLE 1. Spigot styles.

Spigot style	L (mm) spigot span	Spigot angle
A	59.05 58.95	Normal
B	59.05 58.95	Rotated 90° to A
C	68.68 67.97	Normal
D	68.68 67.97	Rotated 90° to C

REQUIREMENTS:

Dimensions and configurations: See figures 1 and 2 and table 1.

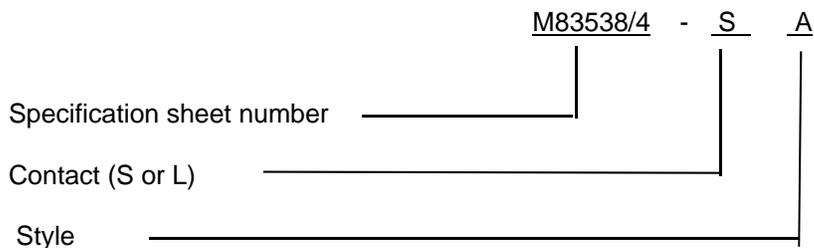
This connector mates with MIL-DTL-83538/3.

Insert arrangement shall be in accordance with MIL-STD-1560 (25-20).

The spigots shall be fitted in such a fashion as to meet the performance requirements in MIL-DTL-83538.

MIL-DTL-83538/4D

Part or Identifying Number (PIN) example:



Changes from previous issue. The margins of this specification are marked with vertical lines to indicate where changes from the previous issue were made. 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 and relationship to the last previous issue.

Referenced documents. In addition to MIL-DTL-83538, this document references the following:

- MIL-DTL-83538/3
- MIL-STD-1560

CONCLUDING MATERIAL

Custodians:

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

Preparing activity:

DLA – CC

Review activities:

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

(Project 5935–2014–112)

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>.