METRIC

MIL-DTL-83527/1C
w/AMENDMENT 1
15 April 2014
SUPERSEDING
MIL-DTL-83527/1C
13 January 2004

DETAIL SPECIFICATION SHEET

# CONNECTOR, PLUG, ELECTRICAL, RECTANGULAR, MULTIPLE INSERT TYPE, RACK TO PANEL, ENVIRONMENT RESISTING, 150°C CONTINUOUS OPERATING TEMPERATURE, SHELL SIZE 2

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-83527.

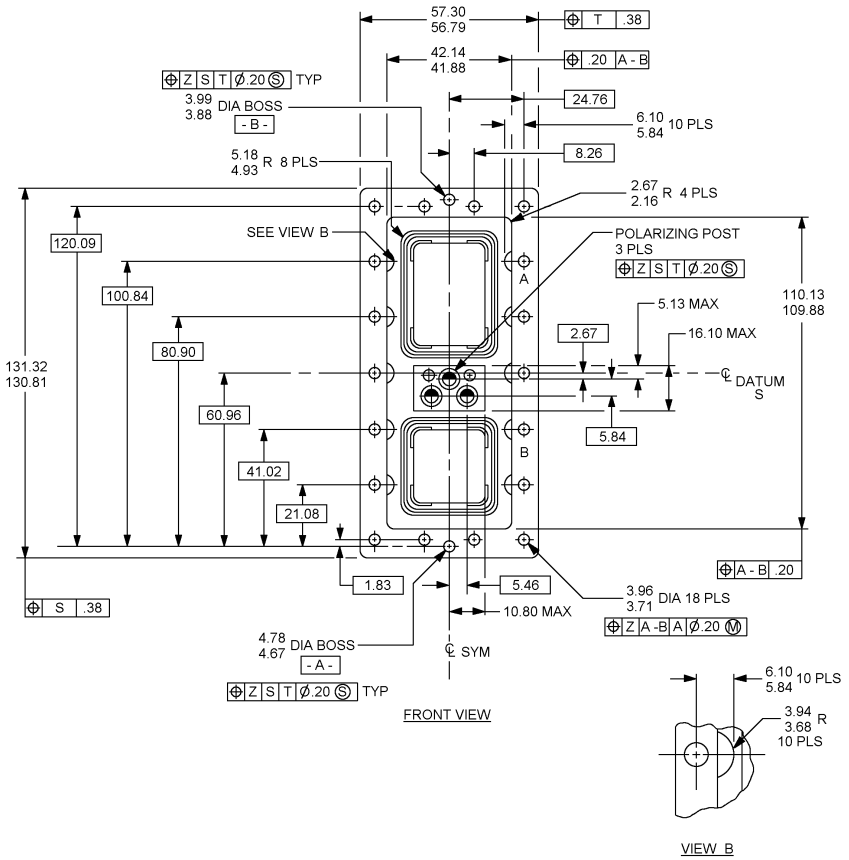



FIGURE 1. Connector, plug.

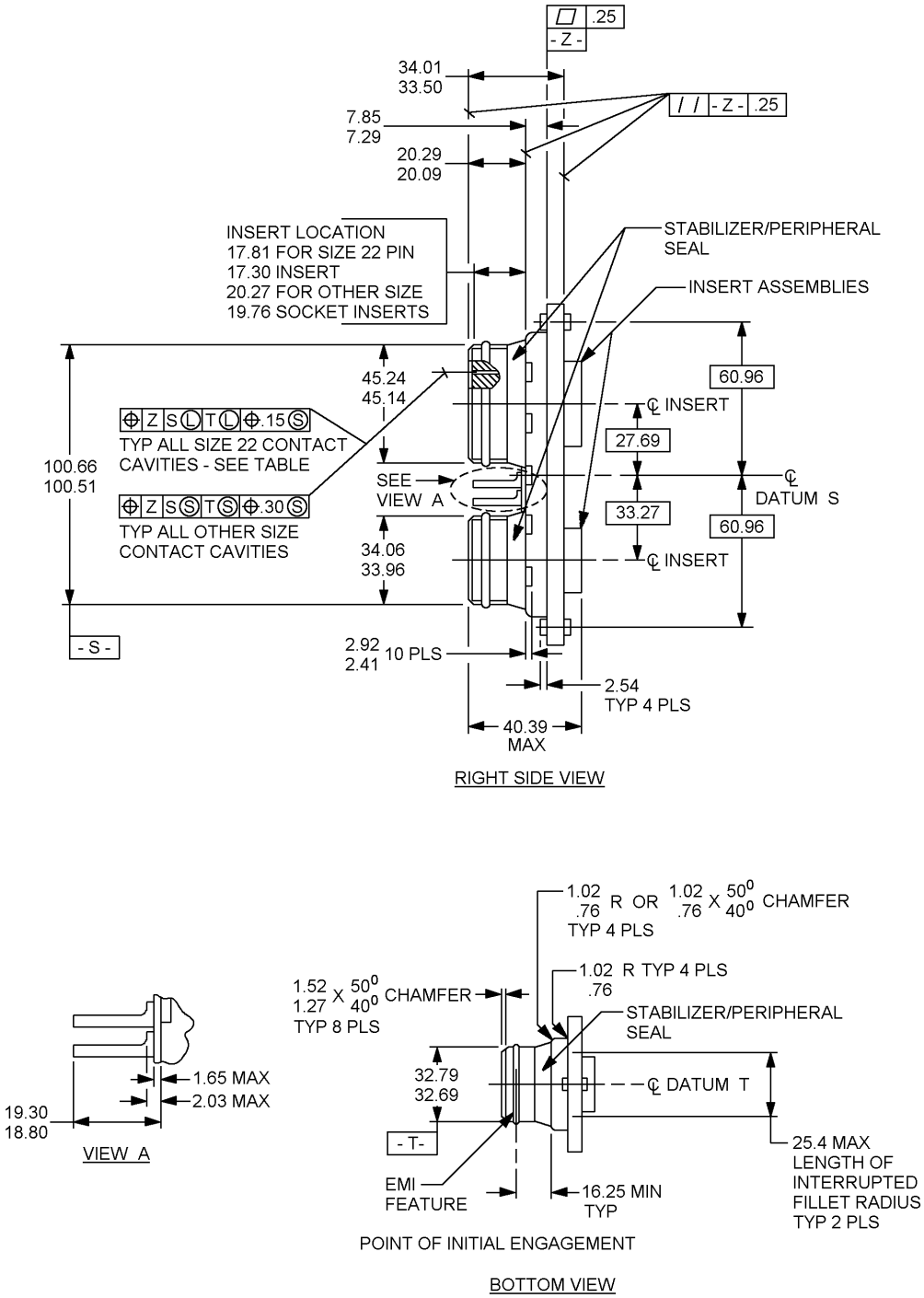
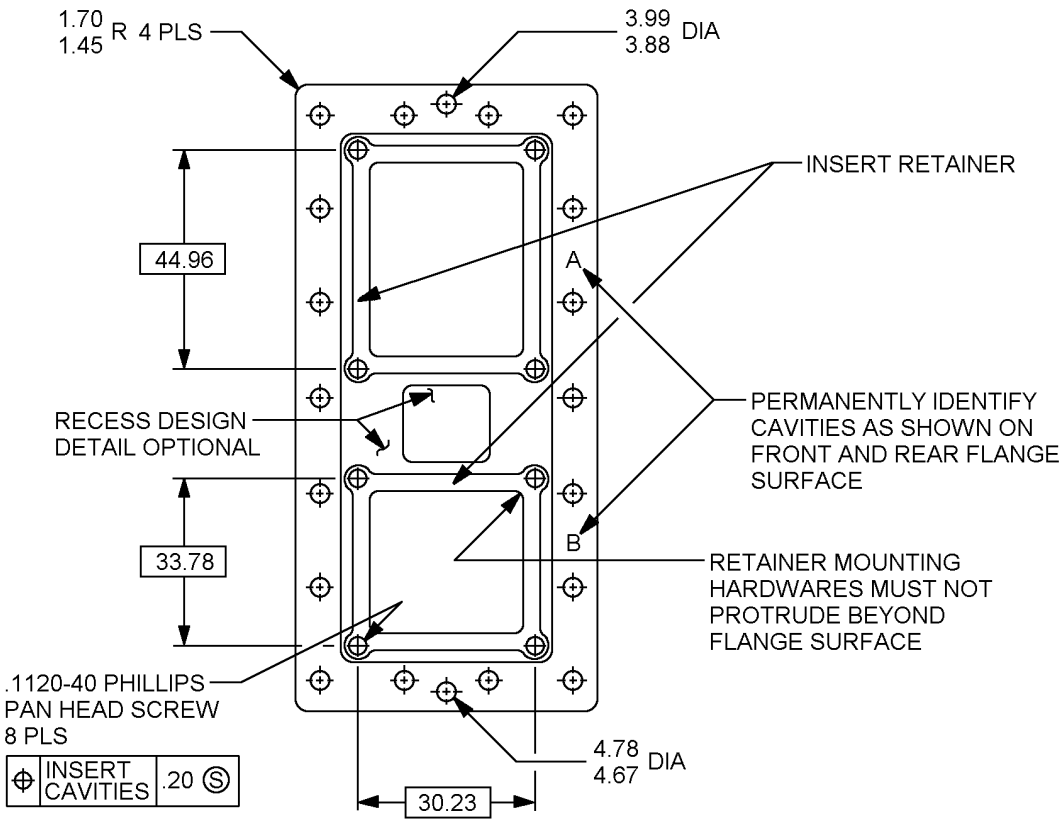



FIGURE 1. Connector, plug - Continued.




REAR VIEW

FIGURE 1. Connector, plug - Continued.

| Datum T | Datum S | | |
|---|---|---|---|
| | 100.66 (3.963) | 100.64 (3.962) | 100.61 (3.961) |
| 32.79 (1.291) | 0.30 (.012) | 0.30 (.012) | 0.30 (.012) |
| 32.77 (1.290) | 0.28 (.011) | 0.28 (.011) | 0.28 (.011) |
| 32.74 (1.289) | 0.25 (.010) | 0.25 (.010) | 0.25 (.010) |
| 32.72 (1.288) | 0.23 (.009) | 0.23 (.009) | 0.23 (.009) |
| 32.69 (1.287) | 0.20 (.008) | 0.20 (.008) | 0.20 (.008) |
| 100.58 (3.960) | 100.56 (3.959) | 100.53 (3.958) | 100.51 (3.957) |
| Datum S | | | |
| 0.28 (.011) | 0.25 (.010) | 0.23 (.009) | 0.20 (.008) |
| 0.25 (.010) | 0.23 (.009) | 0.23 (.009) | 0.20 (.008) |
| 0.23 (.009) | 0.23 (.009) | 0.20 (.008) | 0.18 (.007) |
| 0.23 (.009) | 0.20 (.008) | 0.18 (.007) | 0.18 (.007) |
| 0.20 (.008) | 0.18 (.007) | 0.18 (.007) | 0.15 (.006) |

| mm | Inches | mm | Inches | mm | Inches | mm | Inches |
|---|---|---|---|---|---|---|---|
| 0.15 | .006 | 3.07 | .120 | 13.54 | .533 | 40.39 | 1.590 |
| 0.18 | .007 | 3.71 | .146 | 14.05 | .553 | 41.02 | 1.615 |
| 0.20 | .008 | 3.88 | .153 | 16.10 | .634 | 41.88 | 1.649 |
| 0.25 | .010 | 3.91 | .154 | 17.91 | .705 | 42.14 | 1.659 |
| 0.30 | .012 | 3.96 | .156 | 18.67 | .735 | 45.14 | 1.777 |
| 0.38 | .015 | 3.99 | .157 | 19.18 | .755 | 45.24 | 1.781 |
| 0.58 | .023 | 4.67 | .184 | 20.70 | .815 | 54.79 | 2.157 |
| 0.76 | .030 | 4.70 | .185 | 21.08 | .830 | 57.30 | 2.256 |
| 1.02 | .040 | 4.78 | .188 | 24.76 | .975 | 60.96 | 2.400 |
| 1.45 | .057 | 4.93 | .194 | 27.69 | 1.090 | 80.90 | 3.185 |
| 1.70 | .067 | 5.13 | .202 | 27.74 | 1.092 | 100.51 | 3.957 |
| 1.78 | .070 | 5.18 | .204 | 28.24 | 1.112 | 100.61 | 3.961 |
| 1.83 | .072 | 5.44 | .214 | 32.69 | 1.287 | 100.66 | 3.963 |
| 1.88 | .074 | 5.46 | .215 | 32.79 | 1.291 | 100.71 | 3.965 |
| 2.03 | .080 | 5.84 | .230 | 33.27 | 1.310 | 100.84 | 3.970 |
| 2.16 | .085 | 5.94 | .234 | 33.76 | 1.329 | 109.88 | 4.326 |
| 2.54 | .100 | 8.26 | .325 | 33.96 | 1.337 | 110.13 | 4.336 |
| 2.62 | .103 | 10.80 | .425 | 34.06 | 1.341 | 120.09 | 4.728 |
| 2.67 | .105 | 12.78 | .503 | 34.46 | 1.357 | 120.19 | 4.732 |
| | | 13.28 | .523 | | | 130.81 | 5.150 |
| | | | | | | 131.32 | 5.170 |

NOTES:
1. Dimensions are in millimeters.
2. Inch equivalents are in parentheses.
3. Inch equivalents are given for information only.

FIGURE 1. Connector, plug - Continued.

REQUIREMENTS

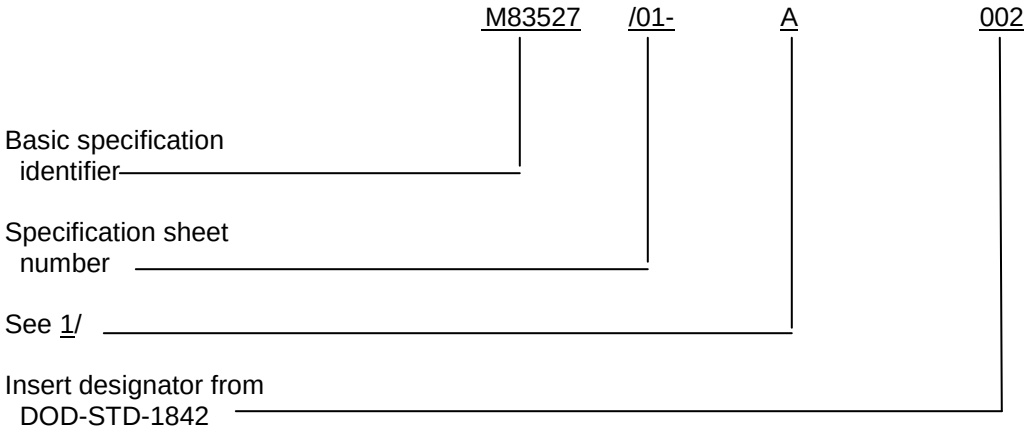
Dimensions and configuration: Shall be in accordance with figure 1.

Contacts: See SAE AS39029/93, /94, /98.

Inserts: See DOD-STD-1842 and MIL-C-83527/7.

Mating connector: See MIL-DTL-83527/2.

Part or Identifying Number (PIN) example:




1/ "A" designator for insert with contacts, "B" designator for insert without contacts.

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.

Reference documents. In addition to MIL-DTL-83527, this document references the following:

MIL-DTL-83527/2
MIL-C-83527/7
DOD-STD-1842
SAE AS39029/93
SAE AS39029/94
SAE AS39029/98

CONCLUDING MATERIAL

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

Preparing activity:
DLA - CC

(Project 5935-2013-185)

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

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