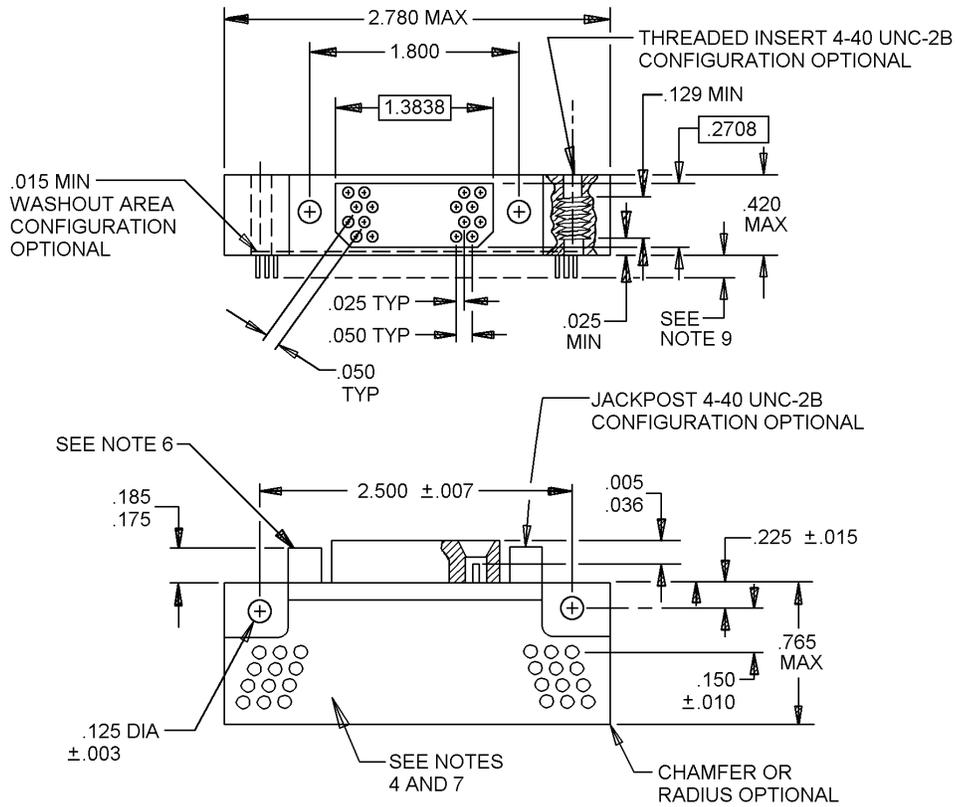


DETAIL SPECIFICATION SHEET

CONNECTORS, ELECTRICAL, RECTANGULAR, PLUG, MICROMINIATURE,
 POLARIZED SHELL, RIGHT ANGLE, PIN CONTACTS, 4 ROW, SOLDER TYPE,
 STANDARD PROFILE, 100 CONTACTS, PRINTED CIRCUIT BOARD

This specification is approved for use by all Departments and
 Agencies of the Department of Defense.

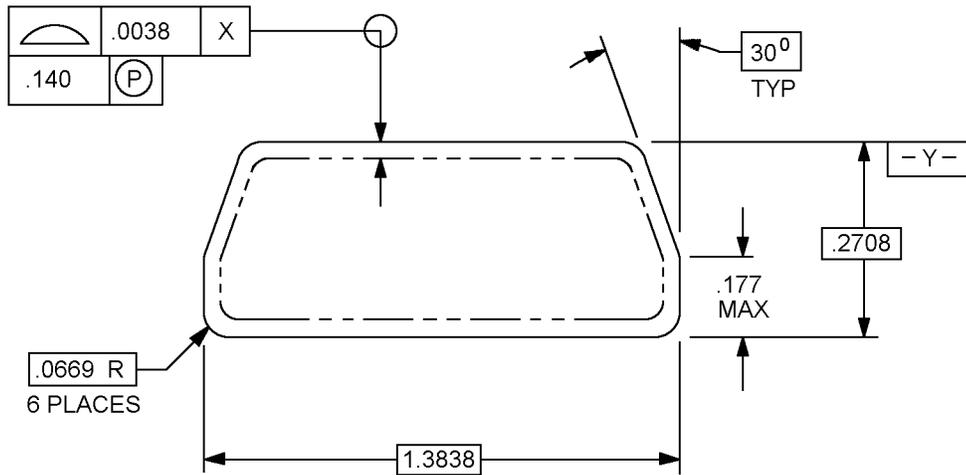
The requirements for acquiring the product described herein
 shall consist of this specification and MIL-DTL-83513.



Inches	mm	Inches	mm	Inches	mm	Inches	mm
.003	0.08	.050	1.27	.177	4.50	1.3838	35.148
.007	0.18	.0669	1.699	.185	4.70	1.800	45.72
.0038	0.097	.125	3.18	.225	5.72	2.500	63.50
.010	0.25	.140	3.56	.2708	6.878	2.780	70.61
.015	0.38	.150	3.81	.420	10.67		
.025	0.64	.175	4.45	.765	19.43		

FIGURE 1. Connector, plug, .050 inch (1.27mm) spacing.

MIL-DTL-83513/18C



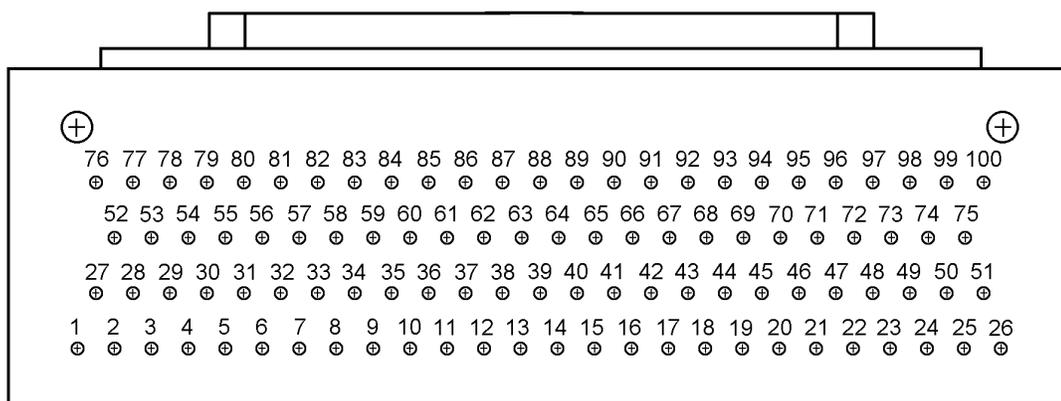
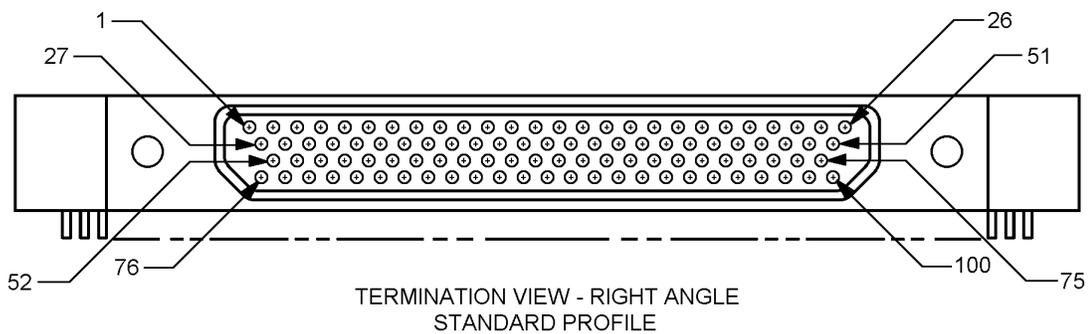
DETAIL OF INTERFACE

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for information only.
3. Unless otherwise specified, tolerances are $\pm .005$ (0.13 mm).
4. Termination organization area to be optionally molded or filled with a potting fill material capable of passing the electrical and environmental requirements of MIL-DTL-83513. Plastic molding shall conform to type GDI-30F or type SDG-F in accordance with ASTM D5948 or GCT-30F in accordance with ASTM D5927 or MIL-M-24519 or GST-40F in accordance with ASTM D4067 or MIL-M-24519 or GLCP-30F or GLCP-50 in accordance with ASTM D5138 or MIL-M-24519.
5. Metal shell shall be of material in accordance with MIL-DTL-83513 for class M parts.
6. Jackpost (permanently attached), when specified: Corrosion resistant steel in accordance with ASTM A484 and ASTM A582, 300 series stainless steel, passivated in accordance with SAE-AMS-QQ-P-35.
7. Separately molded plastic body (if used) shall conform to type GDI-30F or type SDG-F in accordance with ASTM D5948 or GCT-30F in accordance with ASTM D5927 or MIL-M-24519 or GST-40F in accordance with ASTM D4067 or MIL-M-24519 or GLCP-30F or GLCP-50 in accordance with ASTM D5138 or MIL-M-24519.
8. Wire termination pins shall conform to A-A-59551, number 24 AWG copper.
9. Termination lengths available: .109 (2.77 mm), .140 (3.56 mm) or .172 (4.37 mm). The tolerance shall be $\pm .015$ (0.381 mm) for all termination lengths.
10. Threaded insert, when specified: Corrosion resistant steel in accordance with ASTM A484 and ASTM A582, 300 series stainless steel, passivated in accordance with SAE-AMS-QQ-P-35.

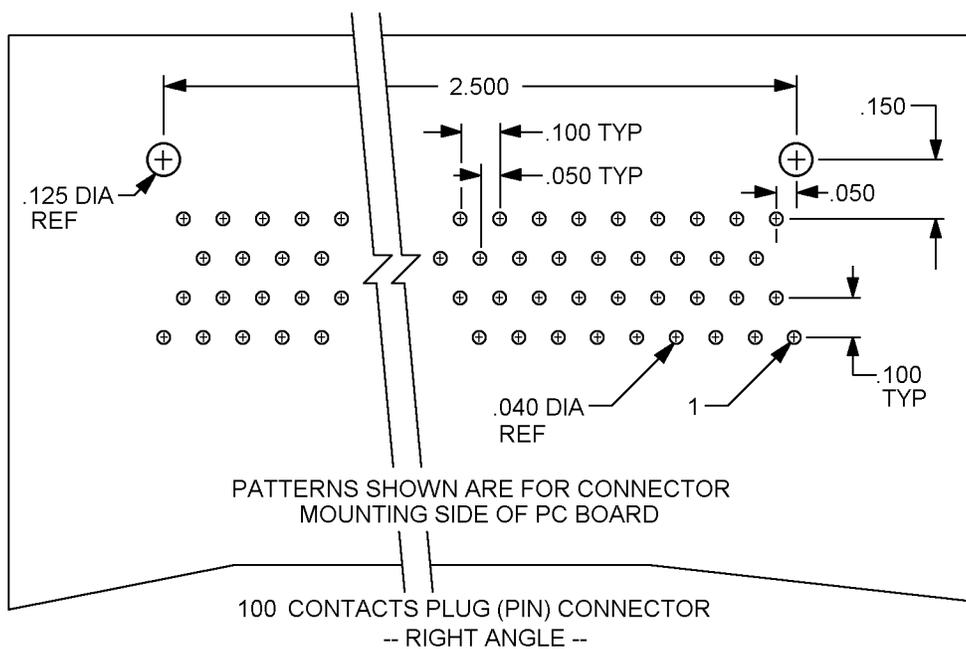
FIGURE 1. Connector, plug, .050 inch (1.27mm) spacing - Continued.

MIL-DTL-83513/18C



NOTE: Engaging face of pin insert shown, cavity identification numbers are for reference only and do not appear on the part.

FIGURE 2. Insert arrangement.



Inches	mm
.050	1.27
.100	2.54
.150	3.81
2.500	63.50

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for information only.

FIGURE 3. Layout arrangement.

MIL-DTL-83513/18C

REQUIREMENTS:

Dimensions and configurations: See figures 1, 2 and 3.

Current rating, maximum: 3 amperes per contact.

Materials:

Termination organization area: Potting fill material capable of passing the electrical and environmental requirements of MIL-DTL-83513.

Shell: The requirements for shell materials shall be in accordance with MIL-DTL-83513.

Plastic body or plastic molding: Shall conform to the requirements of GDI-30F or type SDG-F in accordance with ASTM D5948 or GCT-30F in accordance with ASTM D5927 or MIL-M-24519 or GST-40F in accordance with ASTM D4067 or MIL-M-24519 or GLCP-30F or GLCP-50 in accordance with ASTM D5138 or MIL-M-24519.

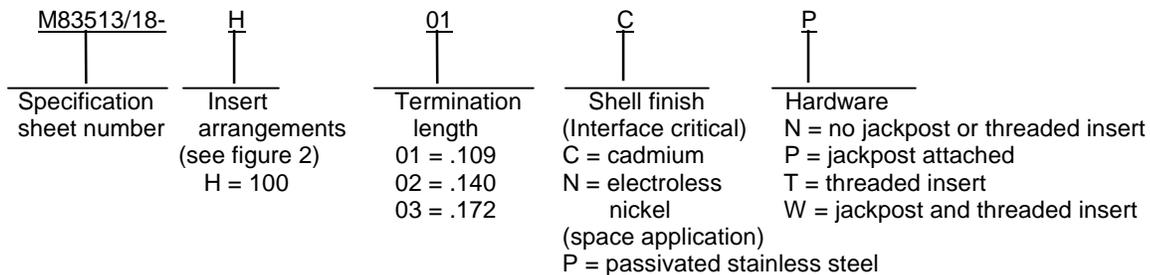
Jackpost: Corrosion resistant steel in accordance with ASTM A484 and ASTM A582, 300 series stainless steel, passivated in accordance with SAE-AMS-QQ-P-35.

Wire termination pins: Wire termination pins shall conform to A-A-59551, no. 24 AWG copper.

Mating connector: Shall conform to MIL-DTL-83513/2 and MIL-DTL-83513/4.

Plating of termination leads: Solder dipping of termination leads will be accomplished in SN60 PB40 or SN63 PB37 in accordance with J-STD-006.

Part or Identifying Number (PIN): PIN shall consist of the letter M, the basic number of the specification sheet, a letter from the insert, a numerical code for the termination length, and a letter code for the shell finish and hardware column.



CONCLUDING MATERIAL

Custodians:

- Army - CR
- Navy - EC
- Air Force - 11
- NASA - NA
- DLA - CC

Preparing activity:

DLA - CC

(Project 5935-4310-018)

Review activities:

- Army - AT, MI
- Navy - AS, CG, MC, SH
- Air Force - 99