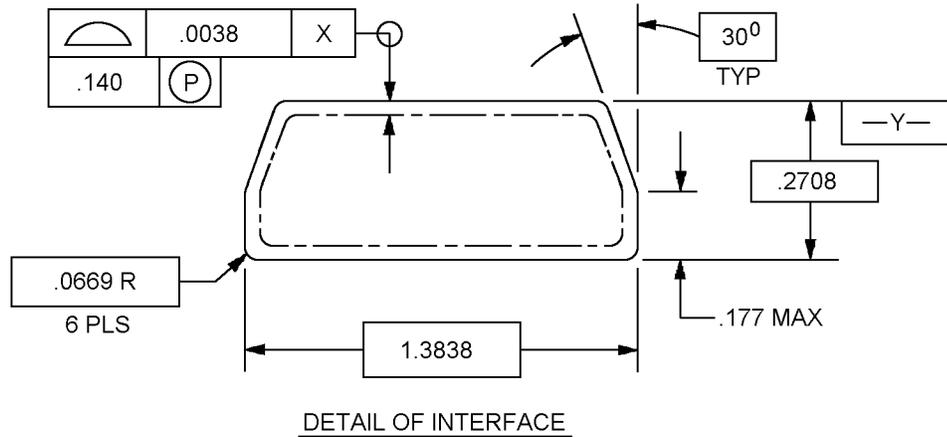




MIL-DTL-83513/12C



| Inches | mm    | Inches | mm    |
|--------|-------|--------|-------|
| .0020  | 0.05  | .185   | 4.70  |
| .003   | 0.08  | .199   | 5.06  |
| .0038  | 0.097 | .200   | 5.08  |
| .005   | 0.13  | .2708  | 6.88  |
| .010   | 0.25  | .400   | 10.16 |
| .015   | 0.38  | .420   | 10.67 |
| .036   | 0.91  | .590   | 14.99 |
| .0669  | 1.699 | 1.010  | 25.65 |
| .109   | 2.77  | 1.383  | 35.15 |
| .125   | 3.18  | 1.500  | 38.10 |
| .140   | 3.56  | 1.800  | 45.72 |
| .175   | 4.45  | 1.825  | 46.36 |
| .177   | 4.50  | 2.175  | 55.25 |

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 spacing – Continued.



MIL-DTL-83513/12C

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.

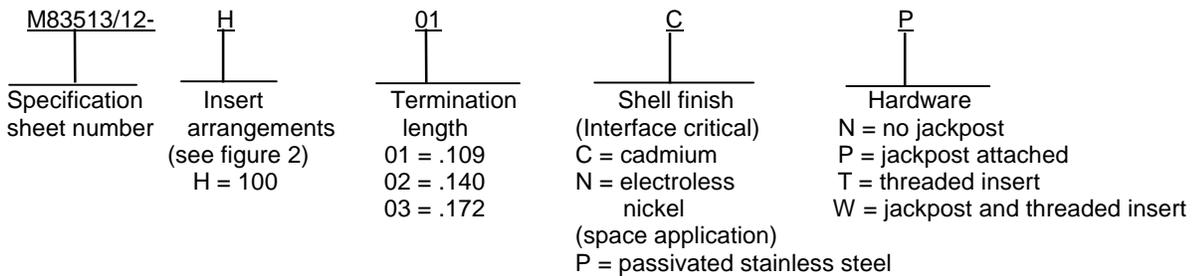
Jackpost: Corrosion resistant steel in accordance with ASTM A484 and ASTM A582, 300 series stainless steel, passivated in accordance with SAE-AMS-QQ-P-35.

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

Mating connector receptacle: 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 consists 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 MATERIALS

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

Preparing activity:  
DLA - CC  
  
(Project 5935-4310-012)

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