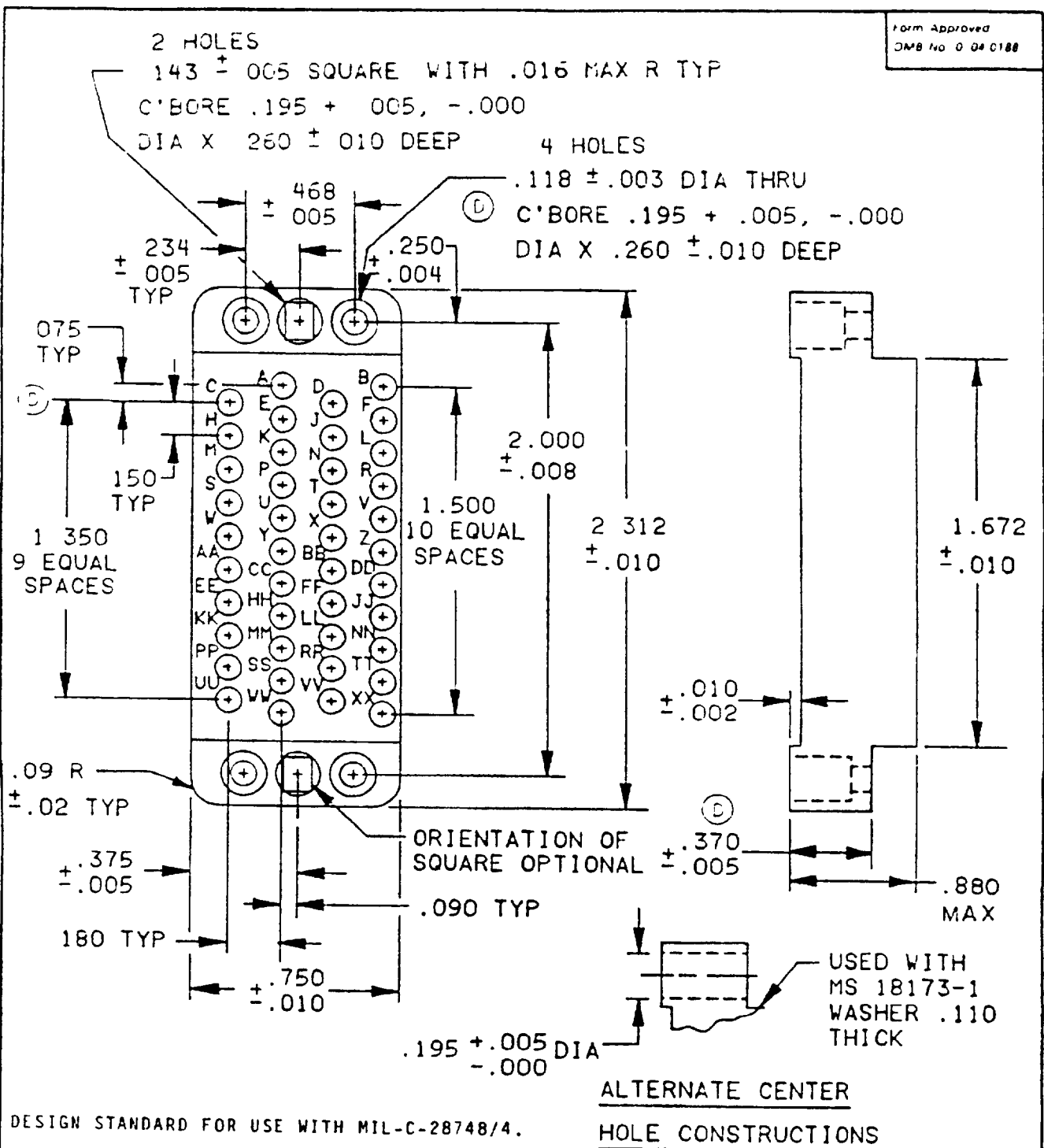


REQUIREMENTS FOR ACQUIRING THE PRODUCT(S) DESCRIBED HEREIN SHALL CONSIST OF THIS SPECIFICATION SHEET AND THE ISSUE OF THE FOLLOWING SPECIFICATION LISTED IN THAT ISSUE OF THE DODDS SPECIFIED IN THE SOLICITATION MIL-C-28748

APPROVED FOR USE BY all Departments and Agencies of the Departments of Defense



MS Part No. MS18181-1 - Suitable for all applications  
 MS Part No. MS18181-2 - For long jackscrews and hood only (thru hole alternate construction)

(D) denotes changes

|   |   |  |
|---|---|--|
| PREPARING ACTIVITY EC<br>CUSTODIANS ARMY CR NAVY EC<br>AIR FORCE BS DLA<br>Review Army - MI, AT<br>Navy - AS, SH, AF - 11, DLA - ES<br>User Army - AM, AR, ME,<br>Navy - M, OS<br>PROJECT NUMBER 5025-104 | <b>MILITARY SPECIFICATION SHEET</b><br>TITLE<br>Insert (Insulator), Rectangular<br>Connector, Electrical, 42 (Size<br>16 and 20 Crimp Removable Socket<br>Contacts) | SPECIFICATION SHEET NUMBER<br><b>MS18181D</b> 27 Nov 90<br>SUPERSEDING<br>MS18181 18 March 1985<br>AMSC 1/A FSC 5935 |
| DISTRIBUTION STATEMENT A Approved for public release, distribution is unlimited   |   |  |

THE REQUIREMENTS FOR ACQUIRING THE PRODUCT(S) DESCRIBED HEREIN SHALL CONSIST OF THIS SPECIFICATION SHEET AND THE ISSUE OF THE FOLLOWING SPECIFICATION LISTED IN THAT ISSUE OF THE BOOKS SPECIFIED IN THE SOLICITATION MIL-C-28748

Form Approved  
OMB No. 0704-0188

| Inches | mm    |
|--------|-------|
| .002   | 0.05  |
| .003   | 0.08  |
| .004   | 0.10  |
| .005   | 0.13  |
| .010   | 0.25  |
| .016   | 0.41  |
| .02    | 0.51  |
| .075   | 1.91  |
| .090   | 2.29  |
| .110   | 2.79  |
| .118   | 3.00  |
| .143   | 3.63  |
| .150   | 3.81  |
| .180   | 4.57  |
| .195   | 4.95  |
| .234   | 5.94  |
| .250   | 6.35  |
| .260   | 6.60  |
| .370   | 9.40  |
| .375   | 9.53  |
| .468   | 11.13 |
| .51    | 12.95 |
| .750   | 19.05 |
| .856   | 21.74 |
| 1.350  | 34.29 |
| 1.500  | 38.10 |
| 1.672  | 42.47 |
| 2.000  | 50.80 |
| 2.290  | 58.17 |
| 2.312  | 58.72 |

#### NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for general information only.
3. Unless otherwise specified, tolerance is  $\pm 0.015$  (0.38 mm).
4. Tolerance between any two adjacent contact centers shall be  $\pm 0.004$  (0.10 mm). Tolerance between any two contact centers, other than adjacent contacts, shall be  $\pm 0.006$  (0.15 mm).
5. Contact identification may be located on either side of the hole but shall appear on the front and rear of each insert.
6. For design feature purposes, this standard takes precedence of acquisition documents referenced herein.
7. Referenced documents shall be of the issue in effect on date of invitation for bid.
8. Designed for use with MIL-C-39029/35 contacts
9. Contact hole details shall be in accordance with MIL-C-28748.
10. The maximum insertion and withdrawal force (connector assembly) shall be 52.5 pounds.
11. Insert material shall be in accordance with MIL-C-28748.

THIS SPECIFICATION IS APPROVED FOR USE BY ALL Departments and Agencies of the Department of Defense

|   |  |  |  |  |  |
|---|--|--|--|--|--|
| <b>PREPARING ACTIVITY</b><br>CUSTODIANS: ARMY CR NAVY - EC<br>AIR FORCE 85 DLA<br>Review: Army - MI, AT,<br>Navy - AS, SH, AF - 11, DLA - E<br>User: Army - AM, AR, ME, Navy -<br>PROJECT NUMBER: 5935-3794 MC OS |  | <b>MILITARY SPECIFICATION SHEET</b><br>TITLE: Insert (Insulator), Rectangular<br>(Connector, electrical), 42 Size<br>16 and 20 Grip Removable Socket<br>(Contacts) |  | <b>SPECIFICATION SHEET NUMBER</b><br><b>MS18181D</b> 27 Nov 90<br>SUPERSEDING<br>MS18181C 18 March 1985<br>AMSC N/A FSC 5935 |  |
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