DETAIL SPECIFICATION SHEET

CONNECTORS, PLUG, ELECTRICAL, STRAIGHT, CRIMP
TYPE, BAYONET COUPLING, EMI, SERIES II

Reactivated after 24 May 2004 and may be used for new and existing designs and acquisitions.

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-38999.

FIGURE 1. Plug, classes E, P and T.
**FIGURE 1.** Plug, classes E, P and T – Continued.
### Table

<table>
<thead>
<tr>
<th>Shell size</th>
<th>( L ) (class E) max overall length</th>
<th>( L ) (class T) max overall length</th>
<th>( L ) (class P) max overall length</th>
</tr>
</thead>
<tbody>
<tr>
<td>8</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>12</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>14</td>
<td>1.016</td>
<td>.766</td>
<td>1.020</td>
</tr>
<tr>
<td>16</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>18</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>20</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>22</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>24</td>
<td>1.094</td>
<td>.844</td>
<td>1.080</td>
</tr>
</tbody>
</table>

### Notes:

1. Dimensions are in inches.
2. Metric equivalents are given for information only.
3. For main key and key positions, see MIL-DTL-38999.
4. The gauge feature for GG shall be .004 inch (0.10 mm) larger than the MMC size at base location.
5. Design contour of grounding spring (i.e., EMI band) cutouts optional. Cutouts to accommodate receptacle projections (i.e., receptacle bayonet pins).

FIGURE 1. **Plug, classes E, P and T** – Continued.
REQUIREMENTS:

Dimensions and configuration: See figure 1.
Interface dimensions shall be in accordance with MIL-DTL-38999.
Mating connectors: MIL-DTL-38999/10, MS27472, MS27474, MS27475, MS27476, MS27477, MS27478, MS27479, MS27497, MS27499, MS27508 and MS27513.
Procurement specification: MIL-DTL-38999.
Insert arrangements: See MIL-STD-1560.
For class E, compression nut in accordance with SAE-AS85049/27 shall be included.

Part or Identifying Number (PIN) example:

<table>
<thead>
<tr>
<th>MS number</th>
<th>Class</th>
<th>Shell size</th>
<th>Finish</th>
<th>Insert arrangement</th>
<th>Contact style</th>
<th>Polarizing positions</th>
</tr>
</thead>
<tbody>
<tr>
<td>MS27484</td>
<td>T</td>
<td>12</td>
<td>F</td>
<td>98</td>
<td>P</td>
<td>A</td>
</tr>
</tbody>
</table>

Note: For the normal position only, no letter designator is marked on the part, and no letter designator is included in the PIN to indicate the “normal” position. A letter designator is required for all other polarization positions.

Restrictions.
Class E is inactive for new design.
Class P is inactive for new design for the Air Force.
Finish F is not for Navy use. Finish F is inactive for new design for the Air Force.

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.
Referenced documents. In addition to MIL-DTL-38999, this document references the following:

MIL-DTL-38999/10
MIL-STD-1560
MS27472
MS27474
MS27475
MS27476
MS27477
MS27478
MS27479
MS27497
MS27499
MS27508
MS27513
SAE-AS85049/27
SAE-AS85049/58
SAE-AS85049/75

CONCLUDING MATERIAL

Custodians: Preparing activity:
Army – CR DLA – CC
Navy – AS
Air Force – 85 (Project 5935-2017-026)
DLA – CC

Review activities:
Army – AR, MI
Navy – EC
Air Force – 19, 99

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.