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-26482.

NOTE: For "XX", see note 6 and table I for contact cavities requiring reduced dimensions.

FIGURE 1. Receptacle, dimensions and configurations.
FIGURE 1. Receptacle, dimensions and configurations - Continued.
FIGURE 1. Receptacle, dimensions and configurations - Continued.
MS3470E
w/AMENDMENT 2

ASSEMBLED TO STRAIGHT BACKSHELL WITH STRAIN RELIEF
SEE NOTE 7

ASSEMBLED TO 90° BACKSHELL WITH STRAIN RELIEF
SEE NOTE 7

ASSEMBLED TO RFI BACKSHELL
SEE NOTE 7
CRIMP SLEEVE NOT SUPPLIED WITH CONNECTOR

FIGURE 1. Receptacle, dimensions and configurations - Continued.
<table>
<thead>
<tr>
<th>Shell size</th>
<th>A</th>
<th>B</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>H</th>
<th>K</th>
</tr>
</thead>
<tbody>
<tr>
<td>8</td>
<td>0.828 (21.03)</td>
<td>0.594 (15.09)</td>
<td>0.589 (14.96)</td>
<td>0.599 (15.21)</td>
<td></td>
<td></td>
<td>0.563 (14.30)</td>
</tr>
<tr>
<td>10</td>
<td>0.954 (24.23)</td>
<td>0.719 (18.26)</td>
<td>0.714 (18.14)</td>
<td>0.724 (18.39)</td>
<td></td>
<td></td>
<td>0.680 (17.27)</td>
</tr>
<tr>
<td>12</td>
<td>1.047 (26.59)</td>
<td>0.812 (20.62)</td>
<td>0.807 (20.50)</td>
<td>0.817 (20.75)</td>
<td>0.462 (11.73)</td>
<td></td>
<td>0.859 (21.82)</td>
</tr>
<tr>
<td>14</td>
<td>1.141 (28.98)</td>
<td>0.906 (23.01)</td>
<td>0.901 (22.89)</td>
<td>0.911 (23.14)</td>
<td>0.431 (10.95)</td>
<td>0.078 (1.98)</td>
<td></td>
</tr>
<tr>
<td>16</td>
<td>1.234 (31.34)</td>
<td>0.969 (24.61)</td>
<td>0.964 (24.49)</td>
<td>0.974 (24.74)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>18</td>
<td>1.328 (33.73)</td>
<td>1.062 (26.97)</td>
<td>1.057 (26.85)</td>
<td>1.067 (27.10)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>20</td>
<td>1.453 (36.91)</td>
<td>1.156 (29.36)</td>
<td>1.151 (29.24)</td>
<td>1.161 (29.49)</td>
<td>0.587 (14.91)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>22</td>
<td>1.578 (40.08)</td>
<td>1.250 (31.75)</td>
<td>1.245 (31.62)</td>
<td>1.255 (31.88)</td>
<td>0.556 (14.12)</td>
<td></td>
<td>0.110 (2.79)</td>
</tr>
<tr>
<td>24</td>
<td>1.703 (43.26)</td>
<td>1.375 (34.93)</td>
<td>1.370 (34.80)</td>
<td>1.380 (35.05)</td>
<td>0.620 (15.75)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**FIGURE 1.** Receptacle, dimensions and configurations - Continued.
FIGURE 1. Receptacle, dimensions and configurations - Continued.
NOTES:
1. Dimensions are in inches. Metric equivalents are given for information only.
2. Unless otherwise specified, tolerances are ± .005 (0.13 mm) for 3 place decimals, ± .01 (0.3 mm) for 2 place decimals, and ± 1° for all angles.
3. True position (TP) tolerances specified are in accordance with ASME Y14.5.
4. Polarizing stripes, color optional.
5. Color bands: .070 ± .031 (1.78 ± 0.79 mm) wide, color blue. Band location must be such that it is visible when mounting.
6. Insert arrangements requiring reduced diameters for raised seal barriers on outer row of contact cavities as indicated.
7. Connector assembly must be used with a backshell. Backshells must be procured separately. See SAE-AS85049 for applicable backshells.

FIGURE 1. Receptacle, dimensions and configurations - Continued.

TABLE I. Contact cavities requiring reduced diameters (XX) for pins and sockets in outer row of contact cavities. 1/

<table>
<thead>
<tr>
<th>Shell size</th>
<th>Insert arrangement</th>
<th>Contact cavities</th>
</tr>
</thead>
<tbody>
<tr>
<td>8</td>
<td>-33 &amp; -98</td>
<td>A, B, C</td>
</tr>
<tr>
<td>12</td>
<td>-10</td>
<td>C, G</td>
</tr>
<tr>
<td>14</td>
<td>-12</td>
<td>A, B, C, D, E, F, G, H</td>
</tr>
<tr>
<td>14</td>
<td>-18</td>
<td>A, C, E, G, J, L</td>
</tr>
<tr>
<td>14</td>
<td>-19</td>
<td>B, D, F, H, K, M</td>
</tr>
</tbody>
</table>

1/ The reduced diameter “XX” refers to the diameters of the raised seal barriers (pin barrier rings) or lead-in chamfers (socket entry holes) to ensure proper sealing of pin and socket after mating. See MIL-DTL-26482, connector intermateability control dimensions figure (series 1 and series 2) for reduced diameter “XX” for contact size 20 only.
REQUIREMENTS:

Dimensions and configuration: See figure 1 and table I.
Connector mating: This connector mates with MS3475 and MS3476.
For insert arrangements: See MIL-STD-1669.
Connector identification marking shall be in accordance with MIL-DTL-26482. Example: MS3470L--,
(minimum height does not apply to shell sizes 8, 10 and 12).
Class E is cancelled and superseded by class L. Class Z is cancelled and superseded by class K.
Intermateability and rear accessory interchangeability dimensions shall be in accordance with
MIL-DTL-26482.
This MS sheet supersedes MS3470 (Navy), MIL-C-83723/1 and MIL-C-83723/2.

Part or Identifying Number (PIN) example:

MS3470 L 24 - 61 P W

MS number
Class
Shell size
Insert arrangement
Contact style
Insert position

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-26482, this document references the following:

MS3475
MS3476
MIL-STD-1669
ASME Y14.5
SAE-AS85049
Custodians:  
Army - CR  
Navy - AS  
Air Force - 85  
DLA - CC  

Preparing activity: 
DLA - CC  

Review activities: 
Army – AR, AV  
Navy - EC, MC, SH  
Air Force - 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.