DETAIL SPECIFICATION SHEET

RECEPTACLE, PLUG, ELECTRICAL, 3 - PIN GROUNDED,
50 - AMPERE, 250 - VOLT, DIRECT CURRENT (SYMBOL NO. 716.1)

Inactive for new design after 28 June 1999.

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-2726.

NOTES:
1. Dimensions are in inches.
2. Metric equivalents are given for information only.
3. Unless otherwise specified, tolerances are ± .016 (0.41mm) and ± .5° on angles.
5. See detail “A” on MIL-DTL-2726/13.

FIGURE 1. Dimensions and configurations.
MIL-DTL-2726/2C

 FIGURE 1. Dimensions and configurations - Continued.

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 NOTES:
 1. Dimensions are in inches.
 2. Metric equivalents are given for information only.
 3. Unless otherwise specified, tolerances are ± .010 (0.25mm) per linear inch, whichever is greater.
 4. Angular dimensions are ± 0°30’.
 6. Tube size 4T.
 7. Marking: Part or Identifying Number (PIN), tube size and manufacturer’s logo or name .125 inch high raised letters on face of cup (see ASTM-F1836M).

 FIGURE 2. Packing cap.
REQUIREMENTS

Dimensions and configurations: See figures 1 and 2.

Effectiveness of enclosure: Watertight in accordance with MIL-STD-108 when coupled with mating receptacle.

Strain relief: 30 pounds.

Material: Housing and retainer polyamide (nylon)

Plug insulation and cap in accordance with ASTM-D5948 type MAI-60.

Compression washer beryllium copper (spring grade).

Contact hardness: Minimum of Rockwell 80F.

Packing assembly: MIL-S-19622/19, PIN M19622/19-0007 is inactive for new design and is no longer used, except for replacement purposes. For future use should be made in accordance with ASTM-F1836M.

Mating receptacle: In accordance with MIL-DTL-2726/8, PIN M2726/8-001 or PIN M2726/8-002.

Test cable: In accordance with MIL-DTL-24643 and MIL-DTL-24643/3.

Assembly: Tapping of insulation (inserts not required) for assembly with housing is permitted.

Packing cap: See figure 2.

PIN: M2726/2-001.

Electrical rating: 50 - amperes, 250 - volt, direct current.

Contact finish: Silver plate.

Verification

Verification shall be as specified in MIL-DTL-2726 and table I herein. The first article and conformance inspections shall consist of the inspections as specified in table I, in the order shown.
TABLE I. First article and conformance inspection.

<table>
<thead>
<tr>
<th>Inspection</th>
<th>First article</th>
<th>Conformance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Examination</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Insulation resistance</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Dielectric withstand voltage</td>
<td>X</td>
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<tr>
<td>Contact resistance</td>
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<td>Vibration</td>
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<tr>
<td>Shock</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>Effectiveness of enclosure</td>
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<td>X</td>
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<tr>
<td>Dielectric withstand voltage</td>
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<tr>
<td>Mechanical abuse</td>
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<td></td>
</tr>
<tr>
<td>Ball drop impact</td>
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</tr>
<tr>
<td>Strain relief</td>
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<td></td>
</tr>
<tr>
<td>Rockwell hardness</td>
<td></td>
<td>X</td>
</tr>
</tbody>
</table>

Marginal notations are not used in this revision to identify changes with respect to the previous issue due to the extent of the changes.

Referenced documents. In addition to MIL-DTL-2726, this document references the following:

ASTM-D5948
ASTM-F1836M
FED-STD-H28/2
MIL-DTL-24643
MIL-DTL-24643/3
MIL-DTL-2726/8
MIL-DTL-2726/13
MIL-S-19622/19
MIL-STD-108

CONCLUDING MATERIAL

Custodians: Navy - SH  DLA - CC
Preparation activity: DLA - CC
(Project 5935-4617-002)

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 http://assist.daps.dla.mil.

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