

**INCH-POUND**  
MIL-DTL-2726/25B  
01 September 2006  
SUPERSEDING  
MIL-R-2726/25A(SH)  
3 July 1986

DETAIL SPECIFICATION SHEET

RECEPTACLE, ELECTRICAL, CONNECTOR, 25-AMPERE,  
500-VOLT, 3-PHASE GROUNDED (SYMBOL NO. 722.1)

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.

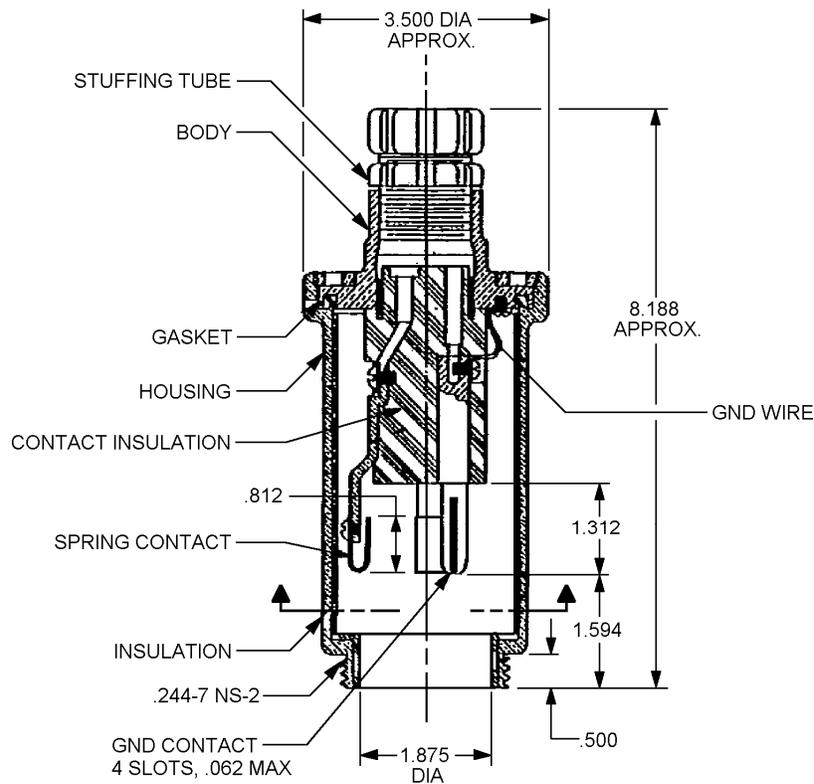
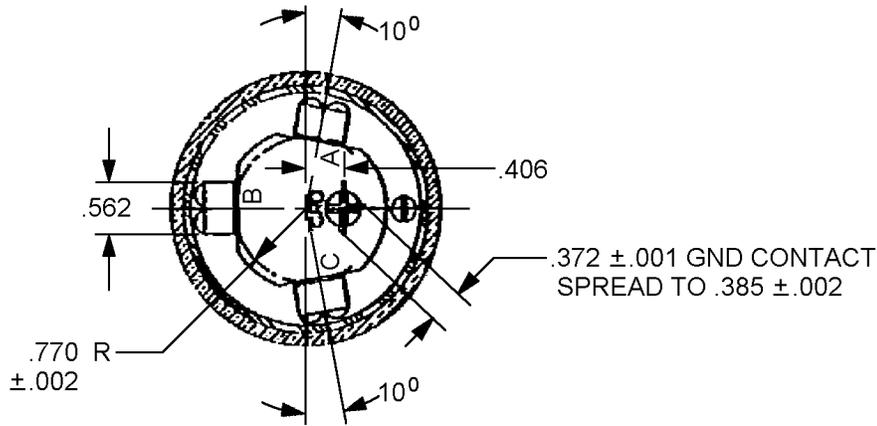


FIGURE 1. Dimensions and configurations.

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Inches	mm
.001	0.02
.002	0.05
.062	1.57
.372	9.45
.385	9.78
.406	10.31
.500	12.70
.562	14.27
.770	19.56
.812	20.62
1.312	33.32
1.594	40.49
1.875	47.62
2.44	62.0
3.500	88.90
8.188	207.97

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for information only.
3. Unless otherwise specified, tolerances are  $\pm .016$  (0.41mm) and  $\pm .5^\circ$  on angles.
4. Supersedes: Drawing 9-S-5537-L, symbol 722.
5. Use for replacement only.

FIGURE 1. Dimensions and configurations - Continued.

REQUIREMENTS

Dimensions and configurations: See figure 1.

Effectiveness of enclosure: Submersible (15-foot) in accordance with MIL-STD-108 when coupled with mating plug.

Strain relief: 30 - Pounds.

Material: Body housing brass.  
Spring contacts phosphor bronze, spring temper.

Insulation: In accordance with MIL-I-24768/8 type GMG.

Contact insulation: In accordance with ASTM-D5948 type MAI 60.

Stuffing tube: MIL-S-19622/3, Part or Identifying Number (PIN): M19622/3-004.

Packing assembly: MIL-S-19622/19, PIN M19622/19-0005 is inactive for new design and is no longer used, except for replacement purposes. For future use should be made under ASTM-F1836M.

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Mating plug: MIL-DTL-2726/24, PIN M2726/24-001.

Test cable: MIL-DTL-24643 and MIL-DTL-24643/3.

Design: Binding head screws may be used. Individual pathways through the contact Insulation shall be provided to each contact, of ample size to accept the insulated conductors.

PIN: M2726/25-001.

Electrical rating: 25-ampere, 500-volt, alternating current, 60 hertz.

Cap for maintaining submersible integrity shall be furnished.

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 quality conformance inspection.

Inspection	First article	Conformance
Examination	X	X
Insulation resistance	X	X
Dielectric withstanding voltage	X	X
Contact resistance	X	X
Endurance	X	
Salt spray	X	
Contact resistance	X	
Current load	X	
Vibration	X	
Shock	X	
Effectiveness of Enclosure	X	X
Dielectric withstanding voltage	X	
Rockwell hardness	X	

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
- MIL-DTL-24643
- MIL-DTL-24643/3
- MIL-DTL-2726/24
- MIL-I-24768/8
- MIL-S-19622/3
- MIL-S-19622/19
- MIL-STD-108

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CONCLUDING MATERIAL

Custodians:  
Navy - SH  
DLA - CC

Preparing activity  
DLA - CC

(Project 5935-4617-018)

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>.