

INCH-POUND

MIL-P-642D
AMENDMENT 3
24 January 2000
SUPERSEDING
AMENDMENT 2
17 January 1992

MILITARY SPECIFICATION

PLUGS, TELEPHONE, AND ACCESSORY SCREWS, GENERAL SPECIFICATION FOR

This amendment forms a part of MIL-P-642D, dated 27 February 1979, and is approved for use by all Departments and Agencies of the Department of Defense.

PAGE 2

2.2, following entry for "NATIONAL BUREAU OF STANDARDS", add the following:

"AMERICAN SOCIETY FOR TESTING AND MATERIAL (ASTM)

D4673 - Standard Specifications for Acrylonitrile-Butadiene-Styrene (ABS) Molding and Extrusion Materials."

"(Application for copies should be addressed to the American Society for Testing and Materials, 1916 Race Street, Philadelphia, Pa 19103-1187.)"

3.4.2, delete and substitute the following:

"3.4.2 Shells. Unless otherwise specified (see 3.1), shells shall be plastic in accordance with ASTM D4066, form R or Tm, type PBE, of MIL-P-79; type II of ASTM D787; a substituted polyarylether material, such as a polysulfone; or acrylonitrile-butadiene-styrene (ABS) in accordance with ASTM D4673."

PAGE 9

4.6.8, delete and substitute the following:

"4.6.8 Vibration (see 3.6.7). Plugs shall be tested in accordance with method 2005 of MIL-STD-1344. The following details and exceptions shall apply:

- a. Method of mounting: Plugs shall be mounted with their longitudinal axis in a horizontal plane.
- b. Test condition: I.
- c. Direction of motion: Along the axis of the plug and then perpendicular to the axis of the plug.
- d. Measurements during vibration: Each plug shall be monitored for electrical continuity, using a test current of 100 ± 2 milliamperes dc. Loss of continuity for a period longer than 10 microseconds constitutes a failure.

MIL-P-642D
AMENDMENT 3

- e. Measurements after vibration: Contact resistance shall be measured as specified in 4.6.4.
- f. The vibration test shall be performed on plugs; both unmated (without the mating jack) and mated (with the mating jack).
- g. Mating jack: The applicable mating jack (see table IV) shall have a 3 foot ± 3 inch length of cord, of the type normally used with the jack, attached and hanging free. The plug shall be inserted into the mating jack and shall remain inserted through the mated portion of the test."

PAGE 10

* 6.4 and 6.4.1, delete and substitute:

"6.4 Qualification. With respect to products requiring qualification, awards will be made only for products which are, at the time of award of contract, qualified for inclusion in Qualified Products List (QPL-642) whether or not such products have actually been so listed by that date. The attention of the contractors is called to these requirements, and manufacturers are urged to arrange to have the products that they propose to offer to the Federal Government tested for qualification in order that they may be eligible to be awarded contracts or purchase orders for the products covered by this specification. Information pertaining to qualification of these products may be obtained from Defense Supply Center Columbus, DSCC-VQP, 3990 East Broad Street, Columbus, OH 43216-5000."

The margins of this amendment are marked with an asterisk to indicate where changes from the previous amendment were made. 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 and relationship to the last previous amendment.

CONCLUDING MATERIAL

Custodians:

Army – CR
Navy – EC
Air Force - 11
DLA – CC

Preparing activity:

DLA - CC

(Project 5935-4239)

Review activities:

Army - AR, AV, CR4, MI
Navy - AS, MC, OS, SH
Air Force - 99