

INCH-POUND

MIL-C-55074F
AMENDMENT 3
24 January 2000
SUPERSEDING
AMENDMENT 2
28 December 1993

MILITARY SPECIFICATION

CONNECTORS, PLUG AND RECEPTACLE, TELEPHONE, ELECTRICAL,
SUBASSEMBLY AND ACCESSORIES AND CONTACT ASSEMBLY, ELECTRICAL,
GENERAL SPECIFICATION FOR

This amendment forms a part of MIL-C-55074F(EL), dated 6 September 1977, and is approved for use by all Departments and Agencies of the Department of Defense.

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2.1, under military standards: Delete "MIL-STD-169" and "MIL-STD-170" and associated titles. Following entry for MIL-STD-417, add: "MIL-STD-810 - Environmental Test Methods and Engineering Guidelines."

2.1, under Army Electronics Command drawings: Delete "SC-GL-323007" and associated title. Add "GL-SC-B-323236 - Electrical Fixture for U-185()/G, U-186()/G, U-187()/G Connectors and Contact Assembly MX-3227()/G."

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4.7.2.1, lines 3 and 4: Delete "SC-GL-323007" (two places) and substitute "GL-SC-B-323236" (two places).

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4.7.9: Delete "SC-GL-323007" (four places) and substitute "GL-SC-B-323236" (four places).

4.7.10, line 3: Delete "200 cycles" and substitute "400 cycles".

4.7.12, line 2: Delete "200 cycles" and substitute "400 cycles".

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4.7.16, delete and substitute the following:

"4.7.16 Temperature cycling (contact assembly and connector) (see 3.18). Connectors, mated and prepared in accordance with 4.7.2.4, shall be subjected to the following temperature cycle consisting of 5 steps. The rate of temperature change between steps shall be as rapid as possible and is to be accomplished by moving the connectors within 5 minutes from one environmental chamber, which is at the temperature and humidity conditions of any given step to another environmental chamber, which is at the temperature and humidity conditions of the next step. Measurements shall be taken on steps 1, 3, and 5 and shall meet the requirements of 3.18. When measurements are taken on steps 1, 3, and 5, practical thermal equilibrium shall first be attained. Practical thermal equilibrium is attained when the temperature of any selected surface of the equipment changes less than 1°F during a 1/2 hour period while the ambient temperature is steady at specified temperature.

Step 1: Temperature 77°F ±3°F, relative humidity less than 75%; minimum exposure is the time necessary to reach practical thermal equilibrium. Measurements shall be taken.

Step 2: Temperature 163°F ±3°F, humidity is uncontrolled; minimum exposure is 24 hours or to practical thermal equilibrium, whichever occurs first. No measurements shall be taken.

Step 3: Same as step 1. Measurements shall be taken.

Step 4: Temperature -83°F ±3°F, humidity is uncontrolled; minimum exposure is 24 hours or to practical thermal equilibrium, whichever occurs first. No measurements shall be taken.

Step 5: Same as step 1. Measurements shall be taken."

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4.7.19, delete and substitute the following:

"4.7.19 Moisture resistance test (connector) (see 3.21). Connectors prepared in accordance with 4.7.2.4, mated, unmated with protective cover in place, and unmated without protective cover, shall be tested in accordance with method 507, procedure III of MIL-STD-810 for 30 continuous 24-hour cycles. Insulation resistance measurements shall be made at the required test steps. For step 7, insulation resistance measurements shall be made near the end of every fifth cycle while still at 30°C (86°F) and 95% relative humidity. The equipment shall meet the requirements of 3.21."

* 6.3, delete and substitute:

"6.3 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-55074) 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."

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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
DLA - CC

Preparing activity:
DLA - CC

(Project 5935-A610)