

AEROSPACE STANDARD AMENDMENT

SAE AS81659-A1

Issued 2004-08

Connector, Electrical, Rectangular Crimp Contacts
General Specification For

FSC 5935

1. Present Requirement: 2.1 Government documents, Page 6 and 13, respectively

MIL-STD-105 Sampling Procedures & Tables for Inspection Attributes
MIL-STD-45662 Calibration System Requirements
MIL-C-26074 Coating, Electroless Nickel, Requirement for

Change Requirement: 2.1 Government documents, Page 6 and 13, respectively

Delete MIL-STD-105, MIL-STD-45662, and MIL-C-26074 references

Rationale for Change: Incorporate Department of the Navy Engineering Position Letter Ser: 456300C60-BS50.93 dated SEP 29 1995, Ser: 456300C60-50.111 dated 1 October 1995, and 10380-444-JRM/m07.07 of SEP 10 1991, respectively.

2. Present Requirement: 2.2 Other publications, Page 13

Not specified

Change Requirement: 2.2 Other publications, Page 13 add after "(Copies-----officer)."

Other publications

The following document forms a part of this specification to the extent specified herein. Unless otherwise indicated, the issue in effect on date of invitation for bids or request for proposal shall apply:

AMERICAN NATIONAL STANDARDS INSTITUTE, ANSI/ISO 10012-1 Quality Assurance Requirements for Measuring Equipment

(Application for copies should be addressed to the American National Standards Institute, 11 West 42nd Street, New York, NY 10036)

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AMERICAN SOCIETY FOR QUALITY CONTROL, ASQC Z1.4, SAMPLING PROCEDURES AND TABLES FOR INSPECTION BY ATTRIBUTES

(Application for copies should be addressed to the American Society of Quality Control, PO Box 3005, 611 East Wisconsin Ave, Milwaukee, WI 53201-46004)

AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM), ASTM B 733-90, Nickel-Phosphorous Coatings on Metals

(Application for copies of ASTM publications should be addressed to the American Society for Testing and Materials, 1916 Race Street, Philadelphia, PA 19103.)

NATIONAL CONFERENCE OF STANDARDS LABORATORIES, NCSL Z540-1, - General Requirements for Calibration Laboratories and Measuring and Test Equipment

(Application for copies should be addressed to the National Conference of Standards Laboratories, 1800 30 th Street, 305B, Boulder, CO 80301-1032)

Rationale for Change: Incorporate Department of the Navy Engineering Position Letter Ser: 456300C60-BS50.93 dated SEP 29 1995, Ser: 456300C60-50.111 dated 1 October 1995, and 10380-444-JRM/m07.07 of SEP 10 1991.

3. Present Requirement: Section 3.3 Materials, 3.3.4.2 Class 2 "Finish" on Page 14

"Finish --- MIL-C-26074"

Change Requirement: Section 3.3 Materials, 3.3.4.2 Class 2 "Finish" on Page 14

"Finish --- ASTM B 733-90"

Rationale for Change: Incorporate Department of the Navy Engineering Position Letter Ser: 456300C60/50.110-1 dated 1 October 1995.

4. Present Requirement: Section 3.5 Performance, 3.5.8 Mating and unmating forces (connector assembly) on Page 18

"When tested --- shall not exceed 45 pounds per insert. (see 3.5)"

Change Requirement: Section 3.5 Performance, 3.5.8 Mating and unmating forces (connector assembly) on Page 18. Add to end of paragraph:

"When tested --- shall not exceed 45 pounds per insert except insert 104. (see 3.5)
For position insert 104, the engagement force prior to test conditioning shall not exceed 65 pounds and after test conditioning shall not exceed 75 pounds. (see 4.6)"

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Rationale for Change: Incorporate Department of the Navy Engineering Position Letter Ser: 456100C77DAL-M007009, 21 April 1997

5. Present Requirement: Section 4. QUALITY ASSURANCE PROVISIONS, 4.4.1 "Test equipment and inspection facility", last sentence on Page 19

"The ---- calibration ---- MIL-STD-45662."

Change Requirement: Section 4. QUALITY ASSURANCE PROVISIONS, 4.4.1 "Test equipment and inspection facility", last sentence on Page 19

"Calibration: ---- ANSI/NCSL Z540-1 or ISO 10012-1."

Rationale for Change: Incorporate Department of the Navy Engineering Position Letter Ser: 456300C60-50.111 dated 1 October 1995.

6. Present Requirement: 4.5.1.1.2 Sampling plan, Page 23

Sampling plan: Statistical sampling and inspection shall be in accordance with MIL-STD-105 for general inspection Level II. The acceptable quality level (AQL) shall be as specified in Table VI. Major and minor defects shall be as specified in MIL-STD-105.

Change Requirement: 4.5.1.1.2 Sampling plan, Page 23

Sampling plan: A random sample shall be selected from each inspection lot in accordance with Level II of ANSI/ASQC Z1.4 for inspection based on the specified AQL in Table II. Classification of defects shall be as specified in Table II and definitions in herein (see 6.8). A manufacturer's normal quality control tests and production tests may be used to fulfill Group A inspection, provided they at least equal the quality required by Table II.

Rationale for Change: Incorporate Department of the Navy Engineering Position Letter Ser: 456300C60-BS50.93 dated SEP 29 1995

7. Present Requirement: 6.2 Definitions, Page 28

Not required

Change Requirement: 6.2 Definitions, Page 28

c. CRITICAL DEFECTS - A critical defect is a defect that judgment and experience indicate would result in hazardous or unsafe conditions for individuals using, maintaining, or depending upon the product, or a defect that judgment and experience indicate is likely to prevent performance of the actual function of a major end item such as a ship, aircraft, tank, missile, or space vehicle.