

Wire, Electric, Polyvinyl Chloride Insulated,
Copper or Copper Alloy

FSC 6145

This amendment forms a part of AS50861 dated 1998-03

1. Present Requirement: 2.2 Other publications, Page 5

Not specified

Change Requirement: 2.2 Other publications, Page 5 add after "ANSI/ASTM D 3032"

ASTM D 4066-94B Nylon, Injection and Extrusion Materials (PA)

Rationale for Change: Editorial (see amendment 1 below)

2. Present requirement:

4.3 qualification inspection:

Qualification inspection shall consist of all the tests of this specification.

Change requirement:

4.3 qualification inspection:

Qualification inspection shall consist of all the tests of this specification. Only the qualifying activity is designated to perform those tests specified in table III and table VII for initial qualification and retention of qualification. The qualifying activity shall provide the data package to the supplier. The supplier is not required to perform the tests.

Rationale for change:

The preparing activity has determined that third party testing is needed for the specified tests and that the qualifying activity should perform those tests independent of the supplier.

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3. Present requirement:

Table III quality conformance inspection

Conductor Diameter
Finished Wire Diameter
Elongation and Tensile Strength
Corrosive Effect of Insulation
Durability of Identification
Low Temperature (Cold Bend)
Wrap Test
Flammability
Life Cycle
Smoke Test

Table VII tests applicable only to qualification inspection and qualification re-evaluation

Corrosive Effect of Insulation
Life Cycle
Smoke Test

Change requirement:

Add to the bottom of table III and table VII the footnote "1/ test performed by the qualifying activity for qualification (see 4.3). Supplier is still required to perform the tests as part of quality conformance". Also add "1" to each test as follows:

Table III quality conformance inspection

Conductor Diameter 1/
Finished Wire Diameter 1/
Elongation and Tensile Strength 1/
Corrosive Effect of Insulation 1/
Durability of Identification 1/
Low Temperature (Cold Bend) 1/
Wrap Test 1/
Flammability 1/
Life Cycle 1/
Smoke Test 1/

Table VII tests applicable only to qualification inspection and qualification re-evaluation

Corrosive Effect of Insulation 1/
Life Cycle 1/
Smoke Test 1/

Rationale for change:

The preparing activity has determined that third party testing is needed for the specified tests and that the qualifying activity should perform those tests independent of the supplier.

4. Present requirement (4.3.1 “shall be submitted”):

As shown

Change requirement:

Change “shall be submitted” in all cases to “shall be submitted to qualification tests as specified”

Rational for change:

Clarification of sample testing

5. Present requirement (4.3.2 “and the manufacturer’s certified test reports”):

As shown

Change requirement

Delete “and the manufacturer’s certified test reports”

Rationale for change

Clarification

6. Present requirement (4.3.3 Test report):

To be added

Change requirement:

4.3.2 Test report: The manufacturer’s test report shall be submitted with the test samples (see 4.3.2). The test report shall contain all required manufacturer certified tests and requirements specified in the authorization letter. Upon request the qualifying activity will provide to the manufacturer a certified data package of the designated tests specified in Tables III and VII. The test report(s) will be returned to manufacturer and retained for six years.

Rationale for change:

Clarification of test report submittal.

7. Present requirement (4.6 Retention of qualification “two-year”)

As shown

Change requirement (4.6 Retention of qualification “two-year”)

Change “two-year” to “three-year”

Rationale for change

Extend the retention period

Amendment 1 12-2004

1. Present Requirement: 2.1 Government documents, Page 3

MIL-M-20693

Change Requirement: 2.1 Government documents, Page 3

Delete MIL-M-20693

Rationale for Change: Navy EPL letter 10380, SER44400C77DAL-M13005 of 28 August 1999

2. Present Requirement: 2.1 Government documents, Page 3

Not specified

Change Requirement: 2.1 Government documents, Page 3 after MIL-L-23699 add

MIL-T-83133 Turbine Fuel, Aviation, Kerosene Types, NATO F-34 (JP-8) and NATO F-35

MIL-W-29606 Wire, Electrical, Stranded, Uninsulated Copper, Copper Alloy, or Aluminum, or Thermocouple Extension, General Specification For

Rationale for Change: Incorporate Department of the Navy Engineering Position Letter Ser.: 10380 444-CBH/dj/oa M50.80-1 of AUG 17 and 197210380 DP704N/M-60 M13.03 of 11 July 1994

3. Present Requirement: 2.1 Government documents, Page 4

MIL-STD-105 Sampling Procedures & Tables for Inspection Attributes

Change Requirement: 2.1 Government documents, Page 4

Delete MIL-STD-105

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

4. Present Requirement: 2.1 PUBLICATIONS, Page 4

Not specified

Change Requirement: 2.1 PUBLICATIONS, Page 4 after "(Copies --- officer)"

SD-6 Provisions Governing Qualification

(Application for copies should be addressed to the Standardization Documents Order Desk, Building 4D, 700 Robbins Avenue, Philadelphia, PA 19111-5094.)

Rationale for Change: To include Qualification Activity requirement

5. Present Requirement: 2.2 Other publications, Page 5

Not specified

Change Requirement: 2.2 Other publications, Page 5 add after "ANSI/ASTM D 1371-78"

ANSI/ASTM D 3032 Standard Test Methods for Hookup Wire Insulation

Rationale for Change: Navy letter 10380 DP704n-CBH/AT50.93 of 16 March 1993

6. Present Requirement: 2.2 Other publications, Page 5

Not specified

Change Requirement: Other publication on Page 5 after "(Copies --- 19103.)".

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)

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

7. Present Requirement: 3.4.2.3.1 Polyamide (nylon) on Page 7

When an extruded polyamide jacket is specified, it shall be made of clear Type III, Grade E molding plastic of MIL-M-20693.

Change Requirement: 3.4.2.3.1 Polyamide (nylon) on Page 7

When an extruded polyamide jacket is specified, it shall be made of clear ASTM D 4066 Type PA 0611, PA0612, PA0621 or equivalent material as approved by the Qualifying Activity (see 6.4).

8. Present Requirement: Table 1 on Page 9 footnote 1

1/ Nominal values are for information only. Nominal values are not requirements

Change Requirement: Table 1 on Page 9 change footnote 1 to the following:

1/ Nominal values are for information only. Conductor circular mil area requirements are in accordance with MIL-W-29606.

Rationale for Change: Navy letter 10380 444-CBH/dj/0a M50.80-1 of AUG 17 1992