

This amendment forms a part of AS85485, dated 2004-06

AS85485 Amendment 2

1. Present Requirement: 4.3 Qualification inspection, Page 15

Qualification inspection shall consist of the examination and tests listed in Tables III and IV of this specification as applicable to the component wire or finished cable. Qualification approval for finished cable must be obtained both for the components and for the finished construction.

Change Requirement: 4.3 Initial Qualification inspection, Page 15

Initial Qualification inspection shall consist of the examination and tests listed in Table III of this specification as applicable to the component wire or finished cable. Qualification approval for finished cable must be obtained both for the components and for the finished construction. The qualifying activity (see 6.3) is required to perform tests in indicated in Table III as noted. The qualifying activity shall provide a data package to the manufacturer for inclusion in the final test report.

Rationale for Change: Define qualifying activity requirements

2. Present Requirements: Table III, Page 17

As shown

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Change Requirement: Table III, Page 17, add footnote 1 to tests as shown

COMPONENT WIRE

Adhesion of nickel coating 1/
Attenuation (insertion loss) 1/
Blocking 1/
Durability of marking and color striping 1/
Cross linking proof test 1/
Humidity resistance 1/
Identification of product 1/
Insulation thickness 1/
Life cycle 1/
Low temperature (cold bend) 1/
Shrinkage 1/
Thermal shock resistance 1/
Thermal stability 1/
Wrap test 1/

FINISH CABLE

Blocking 1/
Durability of marking and color striping 1/
Cross linking proof test 1/
Finished cable diameter 1/
Humidity resistance 1/
Identification of product 1/
Jacket elongation and tensile strength 1/
Jacket resistivity 1/
Jacket thickness 1/
Life cycle 1/
Low temperature (cold bend) 1/
Shield coverage and angle 1/
Surface transfer impedance, effective 1/
Thermal stability 1/
Weight 1/

1/ Tests shall be performed by the qualifying activity.

Rationale for Change: Define qualifying activity requirements

3. Present Requirement: 4.6 Retention of qualification, Page 23

Periodic qualification re-evaluations shall be made at two-year intervals after the date of the qualification test reference specified in the letter of notification of the product's acceptability for qualification. If the manufacturer receives no prior instructions from the qualification activity, materials from current production shall be evaluated against the requirements of Table VI in addition to the quality conformance requirements and process control requirements of Table IV and Table V.

Change Requirement: 4.6 Retention of qualification, Page 23

Periodic qualification re-evaluations shall be made at three-year intervals after the date of the qualification test reference specified in the letter of notification of the product's acceptability for qualification. The manufacturer shall not begin retention of qualification until notified by the qualifying activity. The manufacturer shall perform the tests in Tables IV and V. The qualifying activity shall perform the retention of qualification tests in Table VI.

Rationale for Change: Define qualifying activity requirements

4. Present Requirement: Table VI, Page 24

As shown

Change Requirement: Add tests and footnotes in Table VI, Page 24

Blocking <u>1/</u>			
Humidity resistance <u>1/</u>			
Immersion <u>1/</u>			
Smoke <u>1/</u>			
Vacuum stability <u>1/</u>			
Component Wire			
Cross linking proof test	3.6.4	4.7.10	
Insulation elongation and tensile strength		specification sheet	4.7.16
Shrinkage		specification sheet	4.7.21
Finished Cable			
Cross linking proof test	3.6.4	4.7.10	
Durability of marking and color striping		3.6.3 & 3.6.7.3	4.7.11
Jacket elongation and tensile strength		specification sheet	4.7.16
Jacket resistivity	3.6.11	4.7.1	
Low temperature (cold bend)	3.6.12	4.7.19	

1/ Tests shall be performed by the qualifying activity. If all materials for initial qualification are unchanged, material certifications from the manufacturer may be used as an alternative to these tests.

Rationale: Reduce qualification testing without compromising quality and add qualifying activity tests.

5. Present Requirement: 4.6.1 Re-evaluation procedure, Page 24

It shall be the responsibility of the qualified supplier to furnish to the Government, at two year intervals, the data necessary to establish the continued conformity of the product to all qualification requirements.

Change Requirement: 4.6.1 Re-evaluation procedure, Page 24

It shall be the responsibility of the qualified supplier to furnish to the qualifying activity, at three year intervals, the data necessary to establish the continued conformity of the product to all qualification requirements.

Rationale: Define re-evaluation period.

AS85485 Amendment 1 dated 2004-12

1. Present Requirement: 2.1 Government documents, Page 5

Not specified

Change Requirement: 2.1 Government documents, Page 5 before "MIL-C-43616 Cleaning --- Surface" add

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

and after "MIL-C-43616 Cleaning --- Surface" add

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

Rationale for Change: Incorporate Department of the Navy Engineering Position Letter Ser: 10380 DP704N/M-60 M51.05 of 11 July 1994, and 10380 444-CBH/dj/oa M50.80-1 of AUG 17 1972, respectively

2. Present Requirement: 2.1 Government documents, Page 6

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

Change Requirement: 2.1 Government documents, Page 6

Delete MIL-STD-105

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

3. Present Requirement: 2.1.2 Other Government documents, drawings, and publications, Page 7

Not specified

Change Requirement: 2.1.2 Other Government documents, drawings, and publications, Page 7 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

4. Present Requirement: 2.2 Other publications, Page 7

Not specified

Change Requirement: 2.2 Other publications, Page 7 add after "D1133-77 Standard --- Ketone."

D3032 Standard Test Methods for Hookup Wire Insulation

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

5. Present Requirement: 2.2 Other publications, Page 7

Not specified

Change Requirement: Other publication on Page 7 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

6. Present Requirement: Table 1 on Page 11 footnote 1

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

Change Requirement: Table 1 on Page 11 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

7. Present Requirement: 4.4.1.4 Inspection levels and acceptable quality levels (AQL) (Groups I and II tests), Page 21

For Group I characteristics, including the insulation resistance test, the inspection level shall be S-2 and the AQL shall be 6.5 percent defective units in accordance with MILSTD-105. For Group II characteristics, the inspection level shall be S-3 and the AQL shall be 1.5 percent defective units.

Change Requirement: 4.4.1.4 Inspection levels and acceptable quality levels (AQL) (Groups I and II tests), Page 21

For Group I characteristics, including the insulation resistance test, the inspection level shall be S-2 and the AQL shall be 6.5 percent defective units in accordance with ANSI/ASQC Z1.4. For Group II characteristics, the inspection level shall be S-3 and the AQL shall be 1.5 percent defective units. Major and minor defects shall be as defined herein (see 6.4).

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

8. Present Requirement: 4.4.2 Nonconforming inspection lots, Page 22

Disposition of inspection lots found unacceptable under initial quality conformance inspection shall be in accordance with MIL-STD-105.

Change Requirement: 4.4.2 Nonconforming inspection lots, Page 22

Disposition of inspection lots found unacceptable under initial quality conformance inspection shall be in accordance with ANSI/ASQC Z1.4.

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

9. Present Requirement: TABLE VIII. Immersion test fluids, Item (d), Page 35

MIL-T-5624, Turbine Fuel, Aviation, Grade JP-4

Change Requirement: TABLE VIII. Immersion test fluids, Item (d), Page 35

MIL-T-5624, Turbine Fuel, Aviation, Grade JP-4 or MIL-T-83133, Turbine Fuel JP-8

Rationale for Change: Incorporate Department of the Navy Engineering Position Letter Ser: 10380 DP704N/M-60 M51.05 of 11 July 1994