

INCH-POUND

MIL-C-49055B  
AMENDMENT 2  
16 February 1990  
~~SUPERSEDING~~  
AMENDMENT 1  
31 October 1988

MILITARY SPECIFICATION  
CABLES, ELECTRICAL,  
(FLEXIBLE, FLAT, UNSHIELDED), (ROUND CONDUCTOR),  
GENERAL SPECIFICATION FOR

This amendment forms a part of MIL-C-49055B, dated 8 October 1985,  
and is approved for use by all Departments and Agencies of the  
Department of Defense.

PAGE 1

- \* Above the specification identifier, add the following measurement identifier:

"  
INCH-POUND  
"

PAGE 2

- \* 2.2, add the following:

"AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI)

Y14.5 - Dimensioning and tolerancing; Errata (DOD Adopted)

(Application for copies should be addressed to the American National Standards  
Institute, 1430 Broadway, New York, NY 10018.)"

PAGE 6

- \* 3.25, delete and substitute the following:

"3.25 Shrinkage. When tested in accordance with 4.6.21, there shall be no  
separation of the insulation and the insulation shrinkage shall be not greater  
than that specified in the applicable specification sheet (see 3.1)."

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The attached insertable replacement pages listed below are replacements for  
stipulated pages. When the new pages have been entered in the document, insert  
the amendment as the cover sheet to the specification.

<u>Replacement page</u>	<u>Page replaced</u>
*3	3
*4	4
<u>New page</u>	
*4a	

AHSC N/A

DISTRIBUTION STATEMENT A.

1 of 4

Approved for public release; distribution is unlimited.

FSC 6145

4.4.1, last sentence, delete in its entirety. Add the following new paragraph:

"4.4.1.1 Qualification extension. Qualification shall extend to all cables of the same specification sheet with fewer conductors and the same type of construction and coating. When qualifying a different wire (AWG) size construction, the sample size shall consist of two specimens 30 linear feet (minimum) each of continuous unspliced cable. Each specimen shall be subjected to the qualification in table IIA."

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TABLE II, delete and substitute:

" TABLE II. Qualification inspection.

Inspection	Requirement paragraph	Test paragraph
<u>Group I</u>		
Visual and mechanical inspection, cable dimensions, and construction - - - - -	3.3 thru 3.4.3.3	4.6.1
Insulation flaws - - - - -	3.5	4.6.3
Dielectric withstanding voltage- - - - -	3.6	4.6.4
Insulation resistance- - - - -	3.7	4.6.5
Conductor continuity - - - - -	3.8	4.6.8
Conductor resistance - - - - -	3.9	4.6.6
Thermal shock- - - - -	3.10	4.6.7
Flammability - - - - -	3.11	4.6.9
Folding- - - - -	3.12	4.6.10
High-temperature aging - - - - -	3.13	4.6.11
Strippability- - - - -	3.14	4.6.12
Solderability- - - - -	3.15	4.6.13
Flexing endurance- - - - -	3.16	4.6.14
Moisture resistance- - - - -	3.17	4.6.15
Low pressure (maximum rated temperature) - - - -	3.18	4.6.16
Fungus resistance- - - - -	3.19	4.6.17
Fluid immersion- - - - -	3.20	4.6.18
Tear groove propagation- - - - -	3.21	4.6.19
Durability of identification - - - - -	3.23	4.6.20
Shrinkage- - - - -	3.25	4.6.21

MIL-C-49055B  
AMENDMENT 2

Add the following new table:

" TABLE IIA. Qualification inspection by extension.

Inspection	Requirement paragraph	Test paragraph
<u>Group 1</u>		
Visual and mechanical inspection, cable dimensions, and construction - - - - -	3.3 thru 3.4.3.3	4.6.1
Insulation flaws - - - - -	3.5	4.6.3
Dielectric withstanding voltage- - - - -	3.6	4.6.4
Insulation resistance- - - - -	3.7	4.6.5
Conductor continuity - - - - -	3.8	4.6.8
Conductor resistance - - - - -	3.9	4.6.6
Folding- - - - -	3.12	4.6.10
Strippability- - - - -	3.14	4.6.12
Solderability- - - - -	3.15	4.6.13
Flexing endurance- - - - -	3.16	4.6.14
Tear groove propagation- - - - -	3.21	4.6.19

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TABLE III, subgroup 1, visual and mechanical inspection, cable dimensions, and construction, requirement paragraph: Delete "3.3 thru 3.4.3.3" and substitute "3.3 thru 3.4.3.1, and 3.4.3.3".

TABLE III, subgroup 3, conductor size, requirement paragraph: Delete "3.3.1" and substitute "3.4.1".

TABLE III, subgroup 3, flammability, delete in its entirety.

TABLE IV, add the following:

Inspection	Requirement paragraph	Test paragraph
Flammability - - - - -	3.11	4.6.9

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4.6.4, line 2: Delete "section 8" and substitute "section 5".

PAGE 14

\* 4.6.11, first paragraph, last line: Delete "3.1" and substitute "table IA". In the second paragraph (on page 15), line 8, delete "3.1" and substitute "table IA".

PAGE 15

4.6.13, add the following:

"d. MIL-STD-202, method 208, 4.2 not applicable."

4.6.16, sentence 1, delete and substitute: "When running this test, the specimen length shall be  $26 \pm .062$  inches long, unless otherwise specified. When a specimen length other than  $26 \pm .062$  inches is used, the insulation resistance and dielectric withstanding voltage results shall be proportional to the specimen length. The specimen length shall be prepared by cutting both ends approximately square."

The margins of this amendment are marked with an asterisk to indicate where changes (additions, modifications, corrections, deletions) 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 - AS  
Air Force - 85

Review activities:

Army - AR, AV, MI  
Navy - EC, OS  
Air Force - 99  
DLA - ES, IS

User activities:

Army - AT, ME  
Navy - SH

Preparing activity:

Army - CR

Agent:

DLA - ES

(Project 6145-1163)