

MIL-C-3432E  
AMENDMENT 3

8 October 1985

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SUPERSEDING  
AMENDMENT 2  
12 July 1984

## MILITARY SPECIFICATION

CABLE, (POWER AND SPECIAL PURPOSE) AND WIRE, ELECTRICAL  
(300 AND 600 VOLTS)

This Amendment forms a part of Military Specification MIL-C-3432E, dated 30 June 1981, and is approved for use by all Departments and Agencies of the Department of Defense.

PAGE 1

Supersession data: Delete "and MIL-C-5756" and "8 October 1954"

PAGE 7

TABLE III, Conductor Size 12 and 14, semiflexible, delete and substitute:

Conductor Size MGM and AWG	Conductor dc resistance at 25°C Max. ohms/1,000 ft.	Semiflexible		Number of Strands
		Type	Class	
12	1.81	B	J	41
14	2.82	B	J	26

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TABLE V, Duty column, medium, after last entry, add the following:

Duty (see table 1)	Rubber		
	Conductor size, inclusive AWG and MCM	Insulation thickness	
		Nominal	Minimum
medium	2/0	<u>inch</u> .063	<u>inch</u> .056

PAGE 11

Paragraph 3.2.7, Delete the sixth sentence, "The jacket thickness shall be as specified in Table VIII", and substitute the following: "The jacket thickness shall be as specified in Table VIII, unless special outside diameters are required."

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PAGE 12

Paragraph 3.9 Delete in its entirety.

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TABLE XI, Delete the following:

Inspection	Requirement Paragraph	Test Method Paragraph
Bend	3.9	4.6.9

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Paragraph 4.6.2, Add new paragraph:

"f. Spark test voltage shall be in accordance with TABLE XIII".

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TABLE XIII, Delete in its entirety and substitute:

TABLE XIII. Spark test, dielectric withstanding and impulse dielectric voltage

Spark Test Voltage	Dielectric Withstanding Voltage			Impulse Dielectric Voltage	
Rubber and all jackets				Polyethylene and all jackets	
Specified nominal insulation thickness incl (inch)	Applied Spark Test Voltage (Volts, rms)	Specified nominal insulation thickness incl (inch)	Applied DW Voltage (Volts,rms)	Specified nominal insulation incl (inch)	Applied impulse voltage (KVP)
.010 and under	3,000	.020 and under	1,000	0.011 & under	8.5
.011 to .016	5,000	.021 to .031	1,500	.012 to 0.15	10.0
.017 to .030	7,500	.032 to .047	3,000	.016 to 0.20	11.3
.031 to .052	10,000	.048 to .063	3,500	.021 to .040	12.5
.053 and up	15,000	.064 to .077	4,000	.041 to .062	13.8
		.078 to .094	5,000	.063 to .074	15.0
				.075 and up	17.5

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Paragraph 4.6.9, Delete in its entirety.

PAGE 20

FIGURE 1, Delete the following: "3 samples for Bend, L = 42.00".

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FIGURE 2, Delete in its entirety.

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FIGURE 3, Delete in its entirety.

PAGE 24

Paragraph 6.3, Delete in its entirety.

PAGE 24

Paragraph 6.3.1, Delete in its entirety.

Custodians:

Army - CR  
Navy - YD  
Air Force - 85

Review activities:

Army - AR, MI  
Navy - AS, SH  
Air Force - 99  
DLA - IS

User activities:

Navy - MC  
Air Force - 11, 15

Preparing activity:  
Army - CR  
(Project 6145-1017)