

MIL-W-5424B
 AMENDMENT 1 (USAF)
 10 January 1972

MILITARY SPECIFICATION

INTERIM AMENDMENT

WIRE ROPE, STEEL, (CORROSION-RESISTING) FLEXIBLE,
 PREFORMED (FOR AERONAUTICAL USE)

This Interim Amendment is issued for use by the Department
 of the Air Force with Military Specification
 MIL-W-5424B dated 26 March 1970.

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Table II: Delete and substitute:

TABLE II - BREAKING STRENGTH AFTER ENDURANCE TEST

Cable Diameter	Tension <u>1/</u>	Number of Reversals	Breaking Strength (Min) <u>2/</u>
Inch	Pounds		Pounds
1/16 7 by 19	5.0	70,000	288
3/32 7 by 19	9.0	70,000	552
1/8 7 by 19	18.0	70,000	1,056
5/32 7 by 19	24.0	150,000	1,440
3/16 7 by 19	37.0	150,000	2,220
7/32 7 by 19	50.0	150,000	3,000
1/4 7 by 19	64.0	150,000	3,840
9/32 7 by 19	78.0	130,000	4,680
5/16 7 by 19	90.0	130,000	5,400
<u>1/</u> Tension is equal to half of weight which includes idler sheave and hanger as shown in Figure 2.			
<u>2/</u> 60 percent of Minimum Breaking Strength from TABLE I.			

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3.10.2: Delete and substitute:

3.10.2 Cable identification. Each manufacturer shall identify every cable he manufactures by color coding one or more outer strands, not adjacent, continuously in the cable. This requirement is mandatory for those cable sizes listed in Table II and optional for all others. The preparing activity will assign a color, or combination of colors, to each manufacturer who desires to furnish cable under this specification. The method of coloring shall be at the option of the manufacturer within the limitations of 3.10.2.1 and 3.10.2.2.

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"3.10.2.1 The method of coloring shall not degrade the performance of the cable in any manner.

"3.10.2.2 The coloring medium shall not be rendered unidentifiable by soaking in JP-4 fuel, aircraft cleaning solvents, lubricants, or hydraulic fluid. Cable may be separated to make identification if all color has been washed or rubbed off external surface."

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4.1.1: Delete and substitute:

"4.1.1 One time low temperature test. Each manufacturer desiring to furnish cable to this specification will first furnish one sample of his product to the preparing activity for low temperature testing. This test will consist of endurance test described in 4.3.3 and 4.3.4, conducted at -40°F. The sample for this test will consist of one piece of 1/8 inch diameter cable, 100 feet long.

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TABLE III: Delete and substitute:

TABLE III - DIMENSIONS OF STEEL PULLEYS USED IN ENDURANCE TESTS

Cable Diameter	Pulley Ratio 1/	PULLEY DIMENSIONS				
		C±1/64	+ .005 D - .000	+ .002 E _R - .000	F _R	G±1/64
Inch		Inches	Inches	Inch	Inch	Inch
1/16 7 by 19	7.0	11/16	.438	.036	1/16	3/8
3/32 7 by 19	7.0	31/32	.656	.052	1/16	3/8
1/8 7 by 19	7.0	1 1/4 *	.875	.069	1/16	3/8
5/32 7 by 19	9.5	2	1.484	.086	1/16	3/8
3/16 7 by 19	9.5	2 3/8	1.781	.102	1/16	1/2
7/32 7 by 19	9.5	2 3/4	2.078	.118	1/16	1/2
1/4 7 by 19	9.5	3 1/8	2.375	.134	1/16	1/2
9/32 7 by 19	9.5	3 1/2	2.671	.150	1/16	1/2
5/16 7 by 19	9.5	3 7/8	2.969	.167	1/16	9/16

1. Ratio of pulley diameter "D" to nominal wire rope diameter.

Custodian:
Air Force - 82

Preparing Activity:
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Review Activities:
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