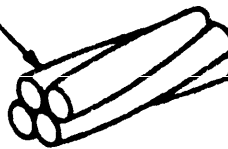


**MIL-C-7078/23**9 August 1971**MILITARY SPECIFICATION SHEET****CABLE, ELECTRIC, AEROSPACE VEHICLE, MIL-W-5086/1 BASIC WIRES,  
UNSHIELDED, UNJACKETED, 600-VOLT, 105° C**

This specification is mandatory for use by all Departments and Agencies of the Department of Defense.

The complete requirements for procuring the cable described herein shall consist of this document and the issues in effect of Specification MIL-C-7078 and Specification MIL-W-5086/1.

Basic wires  
(MIL-W-5086/1)

**UNSHIELDED UNJACKETED CABLE****REQUIREMENTS:****CONSTRUCTION DETAILS:** See above Figure and Table I**VOLTAGE RATING:** 600 Volts (rms) at sea level**TEMPERATURE RATING:** 105° C (221° F) max conductor temperature**COLD BEND:** Not applicable**THERMAL SHOCK TEST:** Not applicable**HEAT RESISTANCE:** Not applicable**DIELECTRIC FLAWS (SPARK TEST):** 5000 volts (rms)**DRY DIELECTRIC:** 1500 volts (rms)**PART NUMBER:** Part numbers in this specification sheet are coded as in the following example:

<u>M7078/23</u>	-	<u>22</u>	-	<u>2</u>
specification sheet number		size number of basic wires		quantity of conductors (basic wires) in cable

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TABLE I

CABLE PART NO.	MAJOR DIAMETER OF CABLE (in.) (max.)	WEIGHT OF CABLE (lb/1000 ft)	
		(nom) <u>1</u> /	(max.)
M7078/23-22-2	.144	8.6	9.0
M7078/23-22-3	.155	12.9	13.6
M7078/23-22-4	.174	17.2	18.1
M7078/23-22-5	.194	21.6	22.7
M7078/23-22-6	.216	26.1	27.5
M7078/23-22-7	.216	30.4	32.0
M7078/23-20-2	.164	12.3	12.9
M7078/23-20-3	.177	18.5	19.5
M7078/23-20-4	.198	24.7	26.0
M7078/23-20-5	.221	30.9	32.5
M7078/23-20-6	.246	37.3	39.3
M7078/23-20-7	.246	43.6	45.9
M7078/23-18-2	.184	16.6	17.5
M7078/23-18-3	.198	25.3	26.6
M7078/23-18-4	.222	33.6	35.4
M7078/23-18-5	.248	42.1	44.3
M7078/23-18-6	.276	51.0	53.7
M7078/23-18-7	.276	59.5	62.6
M7078/23-16-2	.204	20.7	21.8
M7078/23-16-3	.220	31.4	33.1
M7078/23-16-4	.246	41.9	44.1
M7078/23-16-5	.276	52.3	55.1
M7078/23-16-6	.306	63.5	66.8
M7078/23-16-7	.306	74.0	77.9
M7078/23-14-2	.244	31.8	33.5
M7078/23-14-3	.263	48.2	50.7
M7078/23-14-4	.295	64.2	67.6
M7078/23-14-5	.330	80.3	84.5
M7078/23-14-6	.366	97.2	102.3
M7078/23-14-7	.366	113.4	119.4
M7078/23-12-2	.284	47.9	50.4
M7078/23-12-3	.306	72.5	76.3
M7078/23-12-4	.343	96.7	101.8
M7078/23-12-5	.384	120.8	127.2
M7078/23-12-6	.426	146.4	154.1
M7078/23-12-7	.426	170.8	179.8

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TABLE I (Continued)

CABLE PART NO.	MAJOR DIAMETER OF CABLE (in.) (max.)	WEIGHT OF CABLE (lb/1000 ft)	
		(nom) <u>1/</u>	(max.)
M7078/23-10-2	.328	70.8	74.5
M7078/23-10-3	.353	107.2	112.8
M7078/23-10-4	.396	142.9	150.4
M7078/23-10-5	.443	178.6	188.0
M7078/23-10-6	.492	216.4	227.8
M7078/23-10-7	.492	252.4	265.7

1/ Nominal values for weight of cable are given for information only. Nominal values are not requirements.

**Custodians:**

Navy - AS

Army - EL

Air Force - 11

**Preparing activity:**

Navy - AS

(Project No. 6145-0513)

**Review activities:**

Navy -

Army - EL, MI, MU

Air Force - 11

DSA - IS

**User activity:**

Army - AV

Review/user information is current as of the date of this document. For future coordination of changes to this document, draft circulation should be based on the information in the current Federal Supply Classification Listing of DOD Standardization Documents.