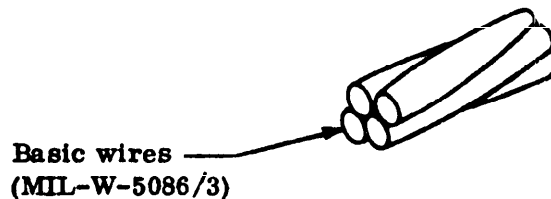


MIL-C-7078/25

9 August 1971

MILITARY SPECIFICATION SHEET**CABLE, ELECTRIC, AEROSPACE VEHICLE, MIL-W-5086/3 BASIC WIRES,
UNSHIELDED, UNJACKETED, 600-VOLT, 105° C****This specification is mandatory for use by all Depart-
ments 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 Specifica-
tion Sheet MIL-W-5086/3.****INACTIVE FOR NEW DESIGN IN AIRCRAFT
APPLICATIONS AFTER DATE OF ISSUE****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>M7078/25</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) $\frac{1}{2}$	(max.)
M7078/25-22-2	.180	11.0	11.6
M7078/25-22-3	.194	16.7	17.6
M7078/25-22-4	.217	22.3	23.5
M7078/25-22-5	.243	27.9	29.4
M7078/25-22-6	.270	33.8	35.6
M7078/25-22-7	.270	39.4	41.5
M7078/25-20-2	.200	14.7	15.5
M7078/25-20-3	.215	22.3	23.5
M7078/25-20-4	.241	29.7	31.3
M7078/25-20-5	.270	37.1	39.1
M7078/25-20-6	.300	45.0	47.4
M7078/25-20-7	.300	52.5	55.3
M7078/25-18-2	.230	21.3	22.4
M7078/25-18-3	.248	32.3	34.0
M7078/25-18-4	.278	43.0	45.3
M7078/25-18-5	.311	53.9	56.7
M7078/25-18-6	.345	65.2	68.6
M7078/25-18-7	.345	76.1	80.1
M7078/25-16-2	.260	27.2	28.6
M7078/25-16-3	.280	41.1	43.3
M7078/25-16-4	.314	54.8	57.7
M7078/25-16-5	.351	68.5	72.1
M7078/25-16-6	.390	83.0	87.4
M7078/25-16-7	.390	96.8	101.9
M7078/25-14-2	.300	38.8	40.8
M7078/25-14-3	.323	58.7	61.8
M7078/25-14-4	.362	78.3	82.4
M7078/25-14-5	.405	97.9	103.0
M7078/25-14-6	.450	118.6	124.8
M7078/25-14-7	.450	138.3	145.6
M7078/25-12-2	.340	54.8	57.7
M7078/25-12-3	.366	83.1	87.5
M7078/25-12-4	.410	110.8	116.6
M7078/25-12-5	.459	138.5	145.8
M7078/25-12-6	.510	167.8	176.6
M7078/25-12-7	.510	195.7	206.0

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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.)
M7078/25-10-2	.400	85.3	89.8
M7078/25-10-3	.431	129.2	136.0
M7078/25-10-4	.483	172.2	181.3
M7078/25-10-5	.540	215.3	226.6
M7078/25-10-6	.600	260.9	274.6
M7078/25-10-7	.600	304.3	320.3
M7078/25-8-2	.510	135.7	142.8
M7078/25-8-3	.549	205.5	216.3
M7078/25-8-4	.616	274.0	288.4
M7078/25-6-2	.620	219.0	230.5
M7078/25-6-3	.668	331.7	349.2
M7078/25-6-4	.748	442.3	465.6
M7078/25-4-2	.740	329.5	346.8
M7078/25-4-3	.797	499.0	525.3
M7078/25-4-4	.893	665.4	700.4
M7078/25-2-2	.890	484.5	510.0
M7078/25-1-2	.990	600.8	632.4
M7078/25-01-2	1.100	775.2	816.0
M7078/25-02-2	1.220	969.0	1020.0
M7078/25-03-2	1.360	1200.0	1265.0
M7078/25-04-2	1.500	1521.0	1601.0

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. 6145-0515)

Review activities:

Navy -
 Army - EL, MI, MU
 Air Force -11
 DSA - IS

User activity:

Army - AV

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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.

STANDARDIZATION DOCUMENT IMPROVEMENT PROPOSAL*(See Instructions - Reverse Side)*

1. DOCUMENT NUMBER

2. DOCUMENT TITLE

3a. NAME OF SUBMITTING ORGANIZATION

4. TYPE OF ORGANIZATION (Mark one)

 VENDOR USER MANUFACTURER OTHER (Specify): _____

b. ADDRESS (Street, City, State, ZIP Code)

5. PROBLEM AREAS

a. Paragraph Number and Wording:

b. Recommended Wording:

c. Reason/Rationale for Recommendation:

6. REMARKS

7a. NAME OF SUBMITTER (Last, First, MI) - Optional

8. WORK TELEPHONE NUMBER (Include Area Code) - Optional

c. MAILING ADDRESS (Street, City, State, ZIP Code) - Optional

9. DATE OF SUBMISSION (YYMMDD)

(TO DETACH THIS FORM, CUT ALONG THIS LINE.)