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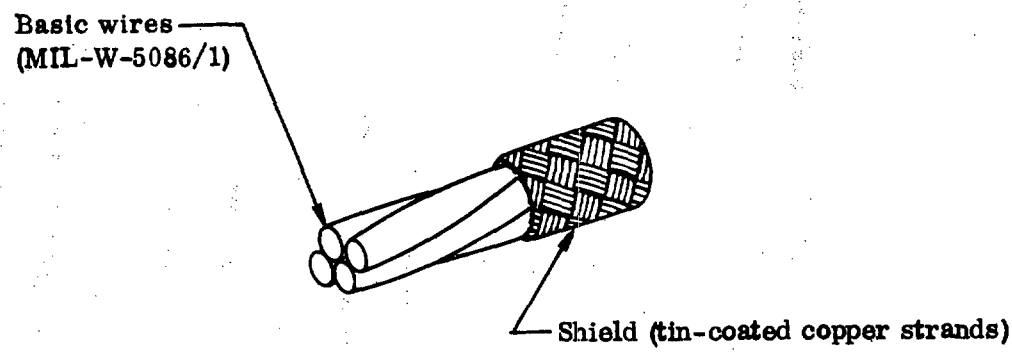
MIL-C-7078/2
12 August 1970
SUPERSEDING
See "Supersession Data"

MILITARY SPECIFICATION SHEET

CABLE, ELECTRIC, AEROSPACE VEHICLE, MIL-W-5086/1 BASIC WIRES, COPPER SHIELD, 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 Sheet MIL-W-5086/1.



SHIELDED CABLE

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

M7078/2	-	22	-	1
specification sheet number		size number of basic wires		quantity of conductors (basic wires) in cable

FSC 6145

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TABLE I

Cable part no.	Gage of shield strands (AWG)	Major diameter of shielded cable (in.)(max)	Weight of shielded cable (lb/1000 ft)	
			(nom.) 1/	(max)
M7078/2-22-1	36	.094	9.2	10.0
M7078/2-22-2		.166	16.4	17.7
M7078/2-22-3		.177	21.4	23.4
M7078/2-22-4		.196	26.9	29.4
M7078/2-22-5		.216	33.3	36.2
M7078/2-22-6		.238	38.9	42.3
M7078/2-22-7		.238	43.3	47.1
M7078/2-20-1	36	.104	11.3	12.4
M7078/2-20-2		.186	20.9	22.5
M7078/2-20-3		.199	28.1	30.4
M7078/2-20-4		.220	35.6	38.6
M7078/2-20-5		.243	43.9	47.7
M7078/2-20-6		.268	51.6	56.1
M7078/2-20-7		.268	57.9	62.9
M7078/2-18-1	36	.114	14.6	15.5
M7078/2-18-2		.206	26.9	28.1
M7078/2-18-3		.220	37.4	39.0
M7078/2-18-4		.244	48.1	50.2
M7078/2-18-5		.270	58.9	61.3
M7078/2-18-6		.298	69.4	72.4
M7078/2-18-7		.298	78.4	81.7
M7078/2-16-1	36	.124	17.3	18.3
M7078/2-16-2		.226	31.8	33.2
M7078/2-16-3		.242	45.1	46.9
M7078/2-16-4		.268	57.9	60.2
M7078/2-16-5		.298	70.9	73.9
M7078/2-16-6		.328	84.0	87.5
M7078/2-16-7		.328	94.9	98.9
M7078/2-14-1	36	.144	23.8	25.1
M7078/2-14-2		.266	45.1	46.9
M7078/2-14-3		.286	64.6	67.1
M7078/2-14-4		.317	83.7	87.2
M7078/2-14-5		.352	102.5	106.8
M7078/2-14-6		.388	121.9	127.0
M7078/2-14-7		.388	138.6	144.4

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TABLE I (Continued)

Cable part no.	Gage of shield strands (AWG)	Major diameter of shielded cable (in.)(max)	Weight of shielded cable (lb/1000 ft)	
			(nom.) 1/	(max)
M7078/2-12-1	36	.164	32.8	34.8
M7078/2-12-2		.306	63.6	66.5
M7078/2-12-3		.328	91.7	95.1
M7078/2-12-4		.365	119.6	124.6
M7078/2-12-5		.406	147.0	153.1
M7078/2-12-6		.448	175.5	182.8
M7078/2-12-7		.448	200.4	208.8
M7078/2-10-1	36	.186	46.0	48.4
M7078/2-10-2		.350	89.8	93.5
M7078/2-10-3		.375	130.1	135.5
M7078/2-10-4		.418	169.5	176.6
M7078/2-10-5		.465	209.1	217.8
M7078/2-10-6		.514	250.3	260.7
M7078/2-10-7		.514	287.1	299.1

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

SUPERSESSION DATA: This specification sheet includes the requirements for the "A" dash number cables of MS25192. The individual cables of the specification sheet replace and supersede the "A" dash number cables of corresponding basic wire size and quantity of conductors in MS25192. Examples: Part number M7078/2-22-1 cable of this specification sheet replaces and supersedes dash number -A221 cable of MS25192; part number M7078/2-20-7 cable of the specification sheet replaces and supersedes dash number -A207 cable of MS25192.

Custodians:
Navy - AS
Army - EL

Preparing activity:
Navy - AS
(Project No. 6145-0503)

Review activities:
Navy - EC, OS
Army - EL, MI
DSA - IS

User activities:
Army - AV, MU

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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.

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- ☐ USER
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5. PROBLEM AREAS

a. Paragraph Number and Wording:

b. Recommended Wording:

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