

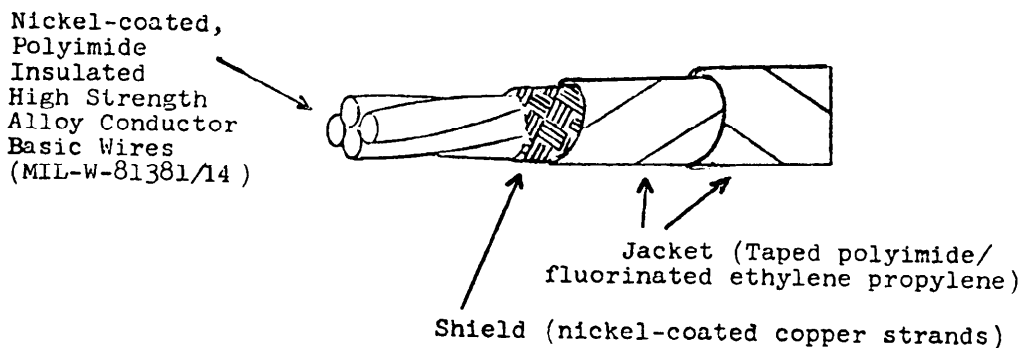
MIL-C-7078/14 (AS)
5 August 1970

MILITARY SPECIFICATION SHEET

CABLE, ELECTRIC, AEROSPACE VEHICLE, MIL-W-81381/14 BASIC WIRES,
COPPER SHIELD, POLYIMIDE TAPE JACKET, 500-VOLT, 200°C

This specification has been approved by the Naval Air Systems
Command, Department of the Navy.

The complete requirements for procuring the cable described herein
shall consist of this document and the issues in effect of Specifi-
cation MIL-C-7078 and Specification Sheet MIL-W-81381/14.



SHIELDED JACKETED CABLE

REQUIREMENTS:

CONSTRUCTION DETAILS: See above Figure and Table I

VOLTAGE RATING: 500 Volts (rms)

TEMPERATURE RATING: 200°C max. conductor temperature

WET DIELECTRIC TEST AFTER COLD BEND:

Required: Test voltage, 1000 volts (rms)

THERMAL SHOCK TEST: Required. Test temperature $230 \pm 3^\circ\text{C}$

HEAT RESISTANCE: Required. Test temperature $230 \pm 3^\circ\text{C}$

Supplementary wet dielectric test not required.

JACKET FLAWS (SPARK TEST): 1500 volts (rms)

DRY DIELECTRIC: 2500 volts (rms)

RESISTANCE: The increase in resistance of the cabled basic wires due to the lay of the cable shall not be greater than 3% of the maximum value specified for that wire by the basic wire specification.

PART NUMBER: Part numbers in this specification sheet are coded as in the following example:

<u>M7078/14</u>	-	<u>24</u>	-	<u>1</u>
specification sheet number		size number of basic wire		quantity of conductors (basic wires) in cable

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TABLE 1

Cable part no.	Gage of shield strands (AWG)	Thickness of taped jacket (in.)(min.)	diameter of shielded jacketed cable (in.)(max.)	Weight of shielded jacketed cable (lb./1000 ft.)	
				(nom.) $\frac{1}{2}$	(Max.)
M7078/14 -26-1	38	.0035	.067	4.3	4.6
M7078/14 -26-2	38	.0035	.110	7.2	7.7
M7078/14 -26-3	38	.0035	.116	9.2	9.9
M7078/14 -26-4	38	.0035	.125	12.0	12.9
M7078/14 -26-5	38	.0035	.136	14.0	15.2
2/ M7078/14 -26-6	38	.0035	.147	16.2	17.6
M7078/14 -26-7	38	.0035	.147	17.7	19.3
M7078/14 -24-1	38	.0035	.072	5.2	5.5
M7078/14 -24-2	38	.0035	.120	9.7	9.5
M7078/14 -24-3	38	.0035	.127	11.6	12.5
M7078/14 -24-4	38	.0035	.138	15.2	16.3
M7078/14 -24-5	38	.0035	.150	17.9	19.3
2/ M7078/14 -24-6	38	.0035	.162	20.8	22.4
M7078/14 -24-7	38	.0035	.162	23.0	24.7
M7078/14 -22-1	38	.0035	.078	6.6	6.9
M7078/14 -22-2	38	.0035	.132	11.5	12.2
M7078/14 -22-3	38	.0035	.140	15.3	16.3
M7078/14 -22-4	38	.0035	.152	20.0	21.5
M7078/14 -22-5	38	.0035	.166	24.0	25.6
2/ M7078/14 -22-6	38	.0035	.180	27.9	29.9
M7078/14 -22-7	38	.0035	.180	31.0	33.3
M7078/14 -20-1	38	.0035	.087	8.7	9.1
M7078/14 -20-2	38	.0035	.150	15.6	16.4
M7078/14 -20-3	38	.0035	.159	21.1	22.3
M7078/14 -20-4	38	.0035	.174	27.7	29.4
M7078/14 -20-5	38	.0035	.187	33.3	35.4
2/ M7078/14 -20-6	38	.0035	.204	39.0	41.5
M7078/14 -20-7	38	.0035	.204	43.7	46.6

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- 1/ Nominal values for weight of shielded jacketed cable are given for information only. Nominal values are not requirements.
- 2/ Six-conductor cables to this specification sheet will not be procured or stocked by the Department of Defense. Seven-conductor cables will be used in lieu of six-conductor constructions.

Preparing activity:
Navy - AS

(Project 6145-N159)