

MIL-C-7078/13 (AS)

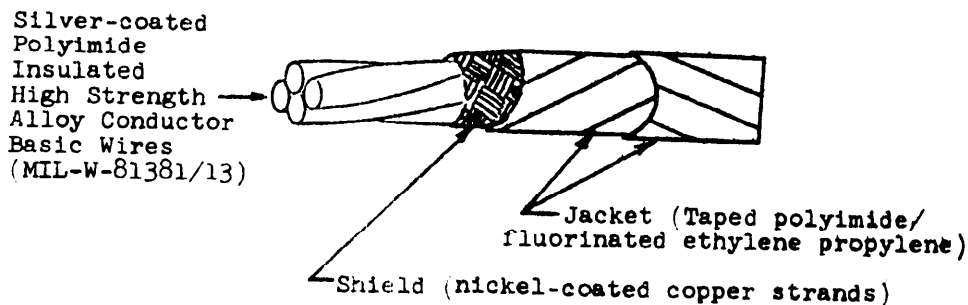
5 August 1970

MILITARY SPECIFICATION SHEET

CABLE, ELECTRIC, AEROSPACE VEHICLE, MIL-W-81381/13 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-81381/13.

SHIELDED JACKETED CABLEREQUIREMENTS:

CONSTRUCTION DETAILS: See above Figure and Table 1

VOLTAGE RATING: 600 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 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:

M7078/13241

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.) 1/	(max.)
2/ M7078/13 -26-1	38	.0035	.067	4.3	4.4
M7078/13 -26-2	38	.0035	.110	7.2	7.4
M7078/13 -26-3	38	.0035	.116	9.2	9.5
M7078/13 -26-4	38	.0035	.125	12.0	12.4
M7078/13 -26-5	38	.0035	.136	14.0	14.6
2/ M7078/13 -26-6	38	.0035	.147	16.2	16.8
M7078/13 -26-7	38	.0035	.147	17.7	18.4
M7078/13 -24-1	38	.0035	.072	5.2	5.4
M7078/13 -24-2	38	.0035	.120	9.7	10.1
M7078/13 -24-3	38	.0035	.127	11.6	12.7
M7078/13 -24-4	38	.0035	.138	15.2	15.8
2/ M7078/13 -24-5	38	.0035	.150	17.9	18.6
M7078/13 -24-6	38	.0035	.162	20.8	21.7
M7078/13 -24-7	38	.0035	.162	23.0	23.9
M7078/13 -22-1	38	.0035	.078	6.6	6.8
M7078/13 -22-2	38	.0035	.132	11.5	11.9
M7078/13 -22-3	38	.0035	.140	15.3	15.8
M7078/13 -22-4	38	.0035	.152	20.0	20.7
2/ M7078/13 -22-5	38	.0035	.165	24.0	24.7
M7078/13 -22-6	38	.0035	.180	27.9	28.8
M7078/13 -22-7	38	.0035	.180	31.0	32.1
M7078/13 -20-1	38	.0035	.086	8.7	8.9
M7078/13 -20-2	38	.0035	.148	15.6	16.0
M7078/13 -20-3	38	.0035	.157	21.1	21.6
M7078/13 -20-4	38	.0035	.172	27.7	28.5
2/ M7078/13 -20-5	38	.0035	.187	33.3	34.3
M7078/13 -20-6	38	.0035	.204	39.0	40.3
M7078/13 -20-7	38	.0035	.204	43.7	45.2

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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-N158)