

MIL-C-7078/26 (AS)

6 April 1972

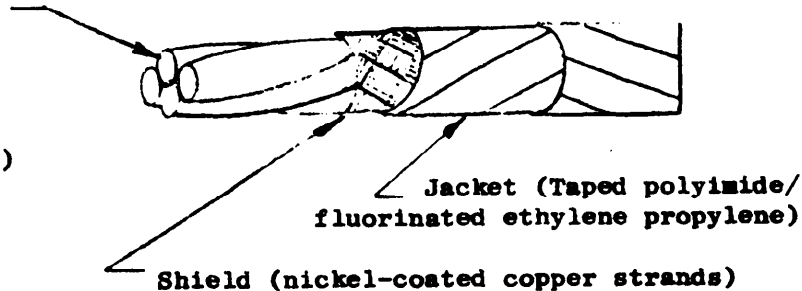
MILITARY SPECIFICATION SHEET

CABLE, ELECTRIC, AEROSPACE VEHICLE, MIL-W-81381/8 BASIC WIRES,
COPPER SHIELD, POLYIMIDE TAPE JACKET, 600-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-81381/8.

Nickel-coated
Polyimide
Insulated
Basic Wires
(MIL-W-81381/8)



Jacket (Taped polyimide/
fluorinated ethylene propylene)

Shield (nickel-coated copper strands)

SHIELDED JACKETED CABLE**REQUIREMENTS:**

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 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:

M7078/26

-

24

-

1

specification
sheet number

size number
of basic wire

quantity of conductors
(basic wires) in cable

FSC 6145

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TABLE I

Cable part no.	Gage of shield strands (AWG)	Thickness of taped jacket (in.) (min)	Major diameter of shielded jacketed cable (in.) (max)	Weight of shielded jacketed cable (lb/1000 ft)	
				(nom.) 1/	(max)
M7078/26-24-1	38 ↑	.0035 ↑	.069	4.7	5.3
M7078/26-24-2			.106	7.9	8.5
M7078/26-24-3			.112	10.7	11.4
M7078/26-24-4			.121	13.5	14.5
M7078/26-24-5			.132	16.0	17.5
M7078/26-24-6			.143	18.6	20.1
M7078/26-24-7			.143	20.5	22.2
M7078/26-22-1			.076	6.1	6.8
M7078/26-22-2			.120	10.9	11.6
M7078/26-22-3			.127	14.8	15.8
M7078/26-22-4			.138	18.6	19.7
M7078/26-22-5			.151	22.6	24.3
M7078/26-22-6			.164	26.4	28.3
M7078/26-22-7			.164	29.1	31.5
M7078/26-20-1	↓ 38	↓ .0035	.084	8.1	8.7
M7078/26-20-2			.136	14.4	15.4
M7078/26-20-3			.144	20.4	21.7
M7078/26-20-4			.158	25.3	26.9
M7078/26-20-5			.172	31.3	33.3
M7078/26-20-6			.188	36.7	38.9
M7078/26-20-7			.188	41.1	43.6
M7078/26-18-1			.094	10.9	11.7
M7078/26-18-2			.156	19.9	21.1
M7078/26-18-3			.166	28.2	29.6
M7078/26-18-4			.182	35.9	37.7
M7078/26-18-5			.199	44.2	46.6
M7078/26-18-6			.218	52.1	54.8
M7078/26-18-7			.218	58.5	61.9

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TABLE I (CONTINUED)

Cable part no.	Gage of shield strands (AWG)	Thickness of taped jacket (in.) (min)	Major diameter of shielded jacketed cable (in.) (max)	Weight of shielded jacketed cable (lb/1000 ft)	
				(nom.) $\frac{1}{2}$	(max)
M7078/26-16-1	38 ↑	.0035 ↑	.100	12.9	13.8
M7078/26-16-2			.168	24.2	25.5
M7078/26-16-3			.178	34.3	36.1
M7078/26-16-4			.196	43.8	46.5
M7078/26-16-5			.216	53.5	56.9
M7078/26-16-6			.236	63.3	67.2
M7078/26-16-7			.236	71.8	76.1
M7078/26-14-1	38 ↓	.0035 ↓	.114	18.3	19.4
M7078/26-14-2			.196	34.2	36.1
M7078/26-14-3			.209	49.9	52.8
M7078/26-14-4			.230	64.4	68.4
M7078/26-14-5			.259	82.4	86.7
M7078/26-14-6			.284	97.9	103.1
M7078/26-14-7			.284	111.5	117.4
M7078/26-12-1	38	.0035 ↓	.133	26.2	27.8
M7078/26-12-2	38		.234	50.4	53.3
M7078/26-12-3	38		.250	73.2	77.0
M7078/26-12-4	36		.282	98.1	103.3
M7078/26-12-5	36		.311	120.6	127.0
M7078/26-12-6	36		.341	144.0	151.6
M7078/26-12-7	36		.341	164.6	173.3
M7078/26-10-1	38	.0035 ↓	.156	38.7	40.9
M7078/26-10-2	36		.286	78.2	82.3
M7078/26-10-3	36		.305	113.2	119.2
M7078/26-10-4	36		.337	147.7	155.5
M7078/26-10-5	36		.373	181.0	192.5
M7078/26-10-6	36		.410	215.7	229.5
M7078/26-10-7	36		.410	247.1	262.4

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

Preparing activity:
Navy - AS
(Project No. 6145-N219)