

MIL-C-7078/15 (AS)

5 August 1970

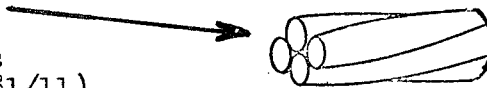
MILITARY SPECIFICATION SHEET

CABLE, ELECTRIC, AEROSPACE VEHICLE, MIL-W-81381/11 BASIC WIRES,  
UNSHIELDED, UNJACKETED 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-81381/11.

Silver-coated  
Polyimide  
Insulated  
Basic Wires  
(MIL-W-81381/11)

UNSHIELDED UNJACKETED CABLE

## REQUIREMENTS:

CONSTRUCTION DETAILS: See above Figure and Table 1

VOLTAGE RATING: 600 Volts (rms)

TEMPERATURE RATING: 200°C max. conductor temperature

COLD BEND: Not Applicable

THERMAL SHOCK TEST: Not applicable

HEAT RESISTANCE: Not applicable

JACKET FLAWS (SPARK TEST): Not applicable

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:

M7078/15

-

22

-

1

specification  
sheet number

size number  
, of basic wires

quantity of conductors  
(basic wires) in cable

FSC 6145

MIL-C-7078/15 (AS)

TABLE 1

Cable part no.	diameter of cable (in.)(max.)	Weight of cable (lb/1000 ft)	
		(nom.) $\frac{1}{2}$	(Max)
$\frac{2}{1}$ M7078/15 -24-2	.092	4.2	4.4
M7078/15 -24-3	.099	6.3	6.6
M7078/15 -24-4	.109	8.4	8.7
M7078/15 -24-5	.121	10.5	11.0
M7078/15 -24-6	.133	12.6	13.2
M7078/15 -24-7	.133	14.7	15.4
$\frac{2}{1}$ M7078/15 -22-2	.104	6.2	6.6
M7078/15 -22-3	.112	9.3	9.8
M7078/15 -22-4	.124	12.4	13.1
M7078/15 -22-5	.137	15.5	16.4
M7078/15 -22-6	.151	18.6	19.7
M7078/15 -22-7	.151	21.7	23.0
$\frac{2}{1}$ M7078/15 -20-2	.120	9.4	9.6
M7078/15 -20-3	.129	14.0	14.4
M7078/15 -20-4	.143	18.7	19.2
M7078/15 -20-5	.159	23.4	24.0
M7078/15 -20-6	.175	28.2	28.8
M7078/15 -20-7	.175	32.9	33.6
$\frac{2}{1}$ M7078/15 -18-2	.140	14.0	14.3
M7078/15 -18-3	.151	21.0	21.4
M7078/15 -18-4	.167	28.0	28.5
M7078/15 -18-5	.186	35.0	35.7
M7078/15 -18-6	.205	42.0	42.8
M7078/15 -18-7	.205	49.0	50.0
$\frac{2}{1}$ M7078/15 -16-2	.152	17.5	17.8
M7078/15 -16-3	.163	26.2	26.7
M7078/15 -16-4	.182	35.0	35.6
M7078/15 -16-5	.202	43.8	44.5
M7078/15 -16-6	.223	52.5	53.4
M7078/15 -16-7	.223	61.3	62.3
$\frac{2}{1}$ M7078/15 -14-2	.180	26.9	27.3
M7078/15 -14-3	.194	40.3	40.9
M7078/15 -14-4	.216	53.7	54.5
M7078/15 -14-5	.240	67.3	68.2
M7078/15 -14-6	.265	80.8	81.8
M7078/15 -14-7	.265	94.2	95.5

MIL-C-7078/15 (AS)

TABLE 1 (Continued)

Cable part no.	diameter of cable (in.)(max.)	Weight of cable (lb/1000 ft.)	
		(nom.) <u>1/</u>	(Max)
M7078/15 -12-2	.218	41.4	42.4
M7078/15 -12-3	.235	62.1	63.6
M7078/15 -12-4	.262	82.8	84.9
<u>2/</u> M7078/15 -12-5	.291	104.0	106.0
M7078/15 -12-6	.322	124.0	127.0
M7078/15 -12-7	.322	145.0	148.0
M7078/15 -10-2	.264	64.6	65.9
M7078/15 -10-3	.284	97.0	98.8
M7078/15 -10-4	.317	129.0	132.0
M7078/15 -10-5	.353	162.0	165.0
<u>2/</u> M7078/15 -10-6	.391	194.0	198.0
M7078/15 -10-7	.391	226.0	231.0

1/ Nominal values for weight of 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-N160)