

MIL-C-7078/28 (AS)

6 April 1972

MILITARY SPECIFICATION SHEET

CABLE, ELECTRIC, AEROSPACE VEHICLE, MIL-W-81381/10 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-81381/10.

Nickel-coated
Polyimide
Insulated
High Strength
Alloy Conductor
Basic Wires
(MIL-W-81381/10)



Jacket (Taped polyimide/
fluorinated ethylene propylene)

Shield (nickel-coated copper strands)

SHIELDED JACKETED CABLE**REQUIREMENTS:**

CONSTRUCTION DETAILS: See above Figure and Table I

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:

<u>M7078/ 28</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 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)
M7078/28-26-1	38	.0035	.066	4.1	4.7
M7078/28-26-2			.100	6.7	7.3
M7078/28-26-3			.105	9.1	9.9
M7078/28-26-4			.114	10.9	11.6
M7078/28-26-5			.124	13.2	14.3
M7078/28-26-6			.134	15.1	16.5
M7078/28-26-7			.134	16.6	18.1
M7078/28-24-1			.069	4.8	5.4
M7078/28-24-2			.106	8.1	8.7
M7078/28-24-3			.112	10.9	11.7
M7078/28-24-4			.121	13.8	14.7
M7078/28-24-5			.132	16.3	18.0
M7078/28-24-6			.143	19.1	20.8
M7078/28-24-7			.143	21.1	22.9
M7078/28-22-1	38	.0035	.076	6.1	6.8
M7078/28-22-2			.120	10.9	11.6
M7078/28-22-3			.127	14.8	15.8
M7078/28-22-4			.138	18.6	19.7
M7078/28-22-5			.151	22.6	24.3
M7078/28-22-6			.164	26.4	28.3
M7078/28-22-7			.164	29.1	31.5
M7078/28-20-1			.084	8.3	8.9
M7078/28-20-2			.136	14.8	15.8
M7078/28-20-3			.144	20.8	21.9
M7078/28-20-4			.158	26.1	27.7
M7078/28-20-5			.172	32.0	34.3
M7078/28-20-6			.188	37.6	40.1
M7078/28-20-7			.188	42.2	45.0

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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-N221)

SPECIFICATION ANALYSIS SHEET		Form Approved Dudget Bureau No. 22-R255
INSTRUCTIONS: This sheet is to be filled out by personnel, either Government or contractor, involved in the use of the specification in procurement of products for ultimate use by the Department of Defense. This sheet is provided for obtaining information on the use of this specification which will insure that suitable products can be procured with a minimum amount of delay and at the least cost. Comments and the return of this form will be appreciated. Fold on lines on reverse side, staple in corner, and send to preparing activity. Comments and suggestions submitted on this form do not constitute or imply authorization to waive any portion of the referenced document(s) or serve to amend contractual requirements.		
SPECIFICATION MIL-C-7078/28(AS) CABLE, ELECTRIC, AEROSPACE VEHICLE, MIL-W-81381/10 BASIC WIRES, COPPER SHIELD, POLYIMIDE TAPE JACKET, 600-VOLT, 200°C		
ORGANIZATION		
CITY AND STATE	CONTRACT NUMBER	
MATERIAL PROCURED UNDER A <input type="checkbox"/> DIRECT GOVERNMENT CONTRACT <input type="checkbox"/> SUBCONTRACT		
1. HAS ANY PART OF THE SPECIFICATION CREATED PROBLEMS OR REQUIRED INTERPRETATION IN PROCUREMENT USE? A. GIVE PARAGRAPH NUMBER AND WORDING.		
B. RECOMMENDATIONS FOR CORRECTING THE DEFICIENCIES		
2. COMMENTS ON ANY SPECIFICATION REQUIREMENT CONSIDERED TOO RIGID		
3. IS THE SPECIFICATION RESTRICTIVE? <input type="checkbox"/> YES <input type="checkbox"/> NO (If "yes", in what way?)		
4. REMARKS (Attach any pertinent data which may be of use in improving this specification. If there are additional papers, attach to form and place both in an envelope addressed to preparing activity)		
SUBMITTED BY (Printed or typed name and activity - Optional)		DATE

DD FORM 1426

REPLACES EDITION OF 1 OCT 64 WHICH MAY BE USED