

MIL-C-7078/29 (AS)

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MILITARY SPECIFICATION SHEET

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

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

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:

<u>M7078/29</u>	-	<u>22</u>	-	<u>2</u>
specification sheet number		size number of basic wires		quantity of conductors (basic wires) in cable

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TABLE I

Cable part no.	Major diameter of cable (in.) (max.)	Weight of cable (lb/1000 ft)	
		(nom.) ^{1/}	(Max.)
M7078/29-26-2	.068	2.7	3.1
M7078/29-26-3	.073	4.1	4.7
M7078/29-26-4	.082	5.5	6.2
M7078/29-26-5	.092	6.9	7.8
M7078/29-26-6	.102	8.2	9.3
M7078/29-26-7	.102	9.6	10.9
M7078/29-24-2	.074	3.9	4.4
M7078/29-24-3	.080	5.9	6.5
M7078/29-24-4	.089	7.9	8.7
M7078/29-24-5	.100	10.0	10.9
M7078/29-24-6	.111	11.9	13.0
M7078/29-24-7	.111	13.9	15.4
M7078/29-22-2	.088	6.0	6.4
M7078/29-22-3	.095	9.0	9.6
M7078/29-22-4	.106	12.0	12.8
M7078/29-22-5	.119	15.1	16.0
M7078/29-22-6	.132	18.1	19.4
M7078/29-22-7	.132	21.1	22.4
M7078/29-20-2	.104	9.2	9.9
M7078/29-20-3	.112	13.9	14.8
M7078/29-20-4	.126	18.5	19.8
M7078/29-20-5	.140	23.3	24.8
M7078/29-20-6	.156	27.9	29.7
M7078/29-20-7	.156	32.6	34.7

^{1/} Nominal values for weight of cable are given for information only.
Nominal values are not requirements.

Cable application: Application of this cable should be in accordance with the "Intended Use" note for the component wires in Specification Sheet MIL-W-81381/10.

Preparing activity:
Navy - AS
(Project No. 6145-N222)

SPECIFICATION ANALYSIS SHEET		Form Approved Budget Bureau No. 22-R255
<p>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.</p>		
<p>SPECIFICATION</p> <p>MIL-C-7078/29 (As)</p> <p>CABLE, ELECTRIC, AEROSPACE VEHICLE, MIL-W-81381/10 BASIC WIRES, UNSHIELDED, UNJACKETED 600-VOLT, 200°C</p>		
<p>ORGANIZATION</p>		
<p>CITY AND STATE</p>		<p>CONTRACT NUMBER</p>
<p>MATERIAL PROCURED UNDER A</p> <p><input checked="" type="checkbox"/> DIRECT GOVERNMENT CONTRACT <input type="checkbox"/> SUBCONTRACT</p>		
<p>1. HAS ANY PART OF THE SPECIFICATION CREATED PROBLEMS OR REQUIRED INTERPRETATION IN PROCUREMENT USE?</p> <p>A. GIVE PARAGRAPH NUMBER AND WORDING</p>		
<p>B. RECOMMENDATIONS FOR CORRECTING THE DEFICIENCIES</p>		
<p>2. COMMENTS ON ANY SPECIFICATION REQUIREMENT CONSIDERED TOO RIGID</p>		
<p>3. IS THE SPECIFICATION RESTRICTIVE?</p> <p><input checked="" type="checkbox"/> YES <input type="checkbox"/> NO (If "yes", in what way?)</p>		
<p>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.)</p>		
<p>SUBMITTED BY (Printed or typed name and activity - Optional)</p>		<p>DATE</p>

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