

MIL-C-7078/28(AS)

6 April 1972

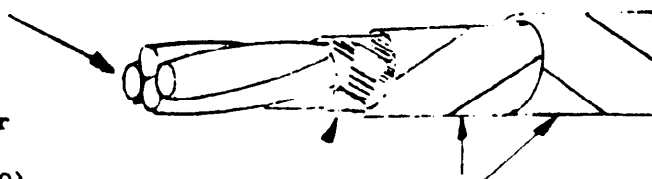
MILITARY SPECIFICATION SHEET

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:

M7078/28

-

24

-

1

specification  
sheet number

size number  
of basic wire

quantity of conductors  
(basic wires) in cable

FSC 6145



MIL-C-7078/28(AS)

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
<p><b>INSTRUCTIONS:</b> 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><b>SPECIFICATION</b></p> <p>MIL-C-7078/28(AS)</p> <p>CABLE, ELECTRIC, AEROSPACE VEHICLE, MIL-W-81381/10 BASIC WIRES, COPPER SHIELD, POLYIMIDE TAPE JACKET, 600-VOLT, 200°C</p>		
<p><b>ORGANIZATION</b></p>		
<p><b>CITY AND STATE</b></p>		<p><b>CONTRACT NUMBER</b></p>
<p><b>MATERIAL PROCURED UNDER A</b></p> <p><input type="checkbox"/> DIRECT GOVERNMENT CONTRACT      <input type="checkbox"/> SUBCONTRACT</p>		
<p><b>1. HAS ANY PART OF THE SPECIFICATION CREATED PROBLEMS OR REQUIRED INTERPRETATION IN PROCUREMENT USE?</b></p> <p><b>A. GIVE PARAGRAPH NUMBER AND WORDING.</b></p>		
<p><b>B. RECOMMENDATIONS FOR CORRECTING THE DEFICIENCIES</b></p>		
<p><b>2. COMMENTS ON ANY SPECIFICATION REQUIREMENT CONSIDERED TOO RIGID</b></p>		
<p><b>3. IS THE SPECIFICATION RESTRICTIVE?</b></p> <p><input type="checkbox"/> YES      <input type="checkbox"/> NO (If "yes", in what way?)</p>		
<p><b>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)</b></p>		
<p><b>SUBMITTED BY (Printed or typed name and activity - Optional)</b></p>		<p><b>DATE</b></p>

DD FORM 1426  
1 JAN 65

REF: AGES EDITION OF 1 OCT 64 WHICH MAY BE USED