

MIL-C-3849/6C

21 February 1973

SUPERSEDING

MIL-C-3849A/6B

23 May 1962

## MILITARY SPECIFICATION SHEET

### CORD, ELECTRICAL (TINSEL) CLASS SPL, STYRENE BUTADIENE RUBBER (SBR) INSULATED, POLYCHLOROPRENE JACKETED

This specification is approved for use by all Departments and Agencies of the Department of Defense.

The complete requirements for procuring the cords described herein shall consist of this document and the latest issue of specification MIL-C-3849.

#### Materials and construction -

First - An uncoated tinsel wire conductor, type I per MIL-W-3795.

Second - A separator applied over the tinsel wire conductor.

Third - SBR insulation, type IS-L per MIL-I-3930.

Fourth - A staycord.\*

Fifth - Fillers, if necessary, to make a circular cross-section.\*

Sixth - The required number of insulated tinsel wire conductors twisted around a staycord, with the length of lay as specified in table I.\*

Seventh - A close binder applied over the cabled tinsel wire conductors.

Eighth - A polychloroprene jacket, type JN-L per MIL-I-3930, applied over the cabled tinsel wire conductors.

\*Not applicable to style III.

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Table I. Constructional requirements

Style	No. of conductors	Length of lay	Jacket wall thickness (min.)	Outside diameter of finished cord		Breaking load (min.)
				Min.	Max.	
I	2	<u>Inch</u> 1.0	<u>Inch</u> 0.011	<u>Inch</u> 0.176	<u>Inch</u> 0.195	<u>Pounds</u> 60
	3	1.0	.011	.176	.195	60
II	2	1.0	.020	.230	.255	60
	3	1.0	.020	.230	.255	60
	4	1.5	.020	.252	.280	80
	5	2.0	.020	.275	.305	100
II	2	-	.015	0.108 x 0.216(laid parallel).	0.120 x 0.240(laid parallel).	60

Applicable tests

Materials inspection.  
 Visual and dimensional inspection.  
 Dielectric withstanding voltage.  
 Insulation resistance, 200 megohms -  
 1,000 ft., min.

Continuity.  
 DC resistance.  
 Breaking load (see table I).  
 Cold bend at -55°C. / 2°C..  
 Sea-water resistance.

Custodians:  
 Army - EL  
 Navy - SH  
 Air Force - 17

Preparing activity:  
 Army - EL

Project No. 6145-0624-6

Review activities:  
 Army - EL  
 Navy - SH, YD  
 Air Force - 17, 80  
 NSA  
 IS

User activities:  
 Army - MU  
 Navy - MC, MS, SA

## SPECIFICATION ANALYSIS SHEET

Form Approved  
Budget 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-3849/6C CORD, ELECTRICAL (TINSEL) CLASS SPL, STYRENE BUTADIENE RUBBER (SBR) INSULATED, POLYCHOROPRENE JACKETED

**ORGANIZATION**

**CITY AND STATE**

**CONTRACT NUMBER**

**MATERIAL PROCURED UNDER A**

☐ DIRECT GOVERNMENT CONTRACT ☐ 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?**

☐ YES ☐ 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**  
1 JAN 66

REPLACES EDITION OF 1 OCT 64 WHICH MAY BE USED.

**ESC-FM 1068-68**

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U.S. Army Electronics Command  
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