

MIL-C-3849/9C

21 February 1973

SUPERSEDING

MIL-C-3849A/9B

23 May 1962

MILITARY SPECIFICATION SHEET

CORD, ELECTRICAL (TINSEL)
CLASS NSL, NATURAL RUBBER INSULATED, STYRENE
BUTADIENE RUBBER (SBR) 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 II per MIL-W-3795.

Second - A separator applied over the tinsel wire conductor.

Third - Natural rubber insulation, type IR 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 - An SBR jacket, type JS-L per MIL-I-3930, applied over the cabled tinsel wire conductors.

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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	1.0	0.011	0.176	0.195	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

Applicable tests

Materials inspection.

Visual and dimensional inspection.

Dielectric withstanding voltage.

Insulation resistance, 1,000 megohms - 1,000 ft., min.

Continuity.

DC resistance.

Breaking load (see table I).

Cold bend at -55°C. / 2°C.

Custodians:

Army - EL

Navy - SH

Air Force - 17

Preparing activity:

Army - EL

Project No. 6145-0624-9

Review activities:

Army - EL

Navy - SH, YD

Air Force - 17, 80

NSA

IS

User activities:

Army - MU

Navy - MC, MS, SA

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