MILITARY SPECIFICATION SHEET

CORD, ELECTRICAL (TINSEL), CLASS PSB, POLYAMIDE INSULATED (EXTRUDED), STYRENE BUTADIENE RUBBER (SBR) JACKETED AND POLYAMIDE BRAIDED

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 V per MIL-W-3795.

Second - Polyamide insulation per MIL-P-20693, Composition A, Type III, Grade E, extruded over the tinsel wire conductor; thickness of insulation - 0.003 inch min., 0.005 inch max. Insulation color coded per 3.2.3.3.

Third - Fillers, if necessary, to make a circular cross-section.

Fourth - The three insulated tinsel wire conductors twisted together with the length of lay specified in Table I below.

Fifth - An open binder applied over the cabled tinsel wire conductors (optional).

Sixth - An SBR jacket, Type JS per MIL-I-3930, applied over the cabled tinsel wire conductors; wall thickness as specified in Table I below.

Seventh - A tight fitting polyamide braid, Type P per MIL-C-572, applied over the cables tinsel conducrors. The braid shall be composed of 210 denier/34 filament yarn, 16 carrier, 2 ends per carrier, 29 picks per inch. Braid color coded dark red unless otherwise specified (see 6.2(d)).

Eight - Outside diameter of finished cord as specified in Table I below.

TABLE I - CONSTRUCTION REQUIREMENTS

Style	No. of Conductors	Length of lay (Inch)		Jacket (SBR) wall thickness (Inch)		Outside dia of finished cord (Inch)		Breaking load (Pounds)
		Nom.	Max.	Min.	Nom.	Min.	Max.	Min.
I	3	3/8	7/16	0.007	0.010	0.102	0.110	50

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 -40°C ± 2°C (with ½" mandrel)

Custodians:
Army - EL

Preparing activity:
Army - EL

Project No. 6145 A030