

INCH-POUND

MIL-C-5756/1  
10 April 1990

## MILITARY SPECIFICATION SHEET

CABLE, POWER, ELECTRICAL, 600 VOLTS,  
PORTABLE, SINGLE CONDUCTOR, NON-OZONE RESISTANT

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

The requirements for acquiring the cable described herein shall consist of this specification sheet and the issue of the following specification listed in that issue of the Department of Defense Index of Specifications and Standards (DODISS) specified in the solicitation: MIL-C-5756.

## REQUIREMENTS:

Qualification required.

Construction

- First - Copper conductor, see Table I of MIL-C-5756 for requirements, sizes 10 AWG and smaller shall be tin-coated, sizes 8 AWG and larger shall be uncoated.
- Second - Separator, required where uncoated conductors are used, optional where tin-coated conductors are used.
- Third - Insulation of synthetic or natural rubber (see Table I for thickness), colored black.
- Fourth - Jacket of synthetic or natural rubber (see Table I for thickness), colored black. Cable surface marking required.

NOTE: Insulation and jacket may be combined at manufacturer's option.

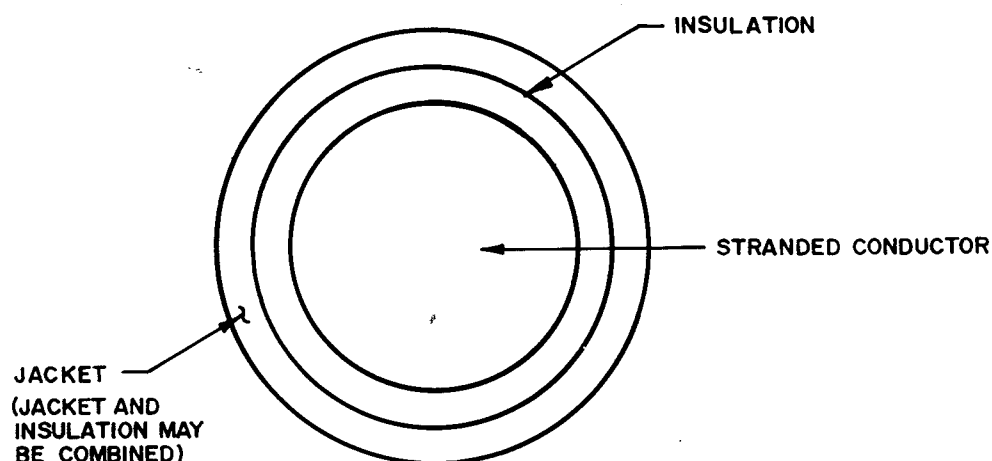


FIGURE 1. Conductor example.

AMSC N/A

FSC 6145

DISTRIBUTION STATEMENT A. Approved for public release; distribution is unlimited.

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TABLE I. Details of construction.

Military Part No. M5756/1	Conductor Size	Nominal Insulation Thickness (Inch) <u>1/</u>	Nominal Jacket Thickness (Inch) <u>2/</u>	Overall Diameter of Jacketed Cable		Conductor Resistance Per 1000 Feet (Max) @ 20°C (ohms)	Nominal Weight Per 1000 Feet (Pounds) <u>3/</u>
				Min (Inches)	Max (Inches)		
-001	18	.031	.0625	.214	.265	7.13	30.7
-002	16	.031	.0625	.225	.277	4.48	35.9
-003	14	.047	.0625	.271	.327	2.82	53.1
-004	12	.047	.0625	.292	.350	1.77	66.3
-005	10	.047	.0625	.317	.375	1.14	88.2
-006	8	.063	.0625	.379	.443	.666	124.5
-007	6	.063	.078	.429	.527	.423	183.1
-008	4	.063	.078	.509	.581	.266	248.2
-009	2	.063	.094	.603	.681	.169	364.7
-010	1	.078	.094	.667	.750	.134	454.5
-011	1/0	.078	.109	.738	.837	.106	562.0
-012	2/0	.078	.125	.819	.954	.0850	710.9
-013	3/0	.078	.125	.913	1.030	.0674	858.3
-014	4/0	.078	.141	1.010	1.130	.0535	1056.3
-015	250	.094	.156	1.080	1.250	.0453	1283.2

1/ The minimum insulation thickness shall be at least 90% of the nominal.2/ The minimum jacket thickness shall be at least 90% of the nominal.3/ The nominal weight is for information only.

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REQUIREMENTS:

Ozone resistance - not required.

NOTES:

1. The cables specified under this specification sheet may be insulated with any number of insulating materials that will meet the limited performance requirements of this particular specification sheet. There are no performance requirements for weathering or ozone resistance on wire covered by this specification sheet. This cable is not recommended for use where it will be exposed to these conditions.
2. Cables covered under this specification sheet are general purpose single conductor cables that were previously specified in MIL-C-5756B. The cables specified in this specification sheet are not authorized for use in MIL-C-7974 cable assemblies.

Custodians:

Air Force - 85  
Navy - AS

Preparing Activity:

Navy - AS

Review Activities:

Army - CR  
DLA - IS

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