

AS5756/2

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CUSTODIAN: SAE AE-8/AE-8D

SAE Aerospace
An SAE International Group**AEROSPACE STANDARD**CABLE, POWER, ELECTRICAL, 600 VOLTS,
PORTABLE, SINGLE CONDUCTOR,
OZONE RESISTANT**AS5756/2**
SHEET 1 OF 4

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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 OZONE RESISTANT SYNTHETIC RUBBER (SEE TABLE I FOR THICKNESS), COLORED BLACK OR GRAY.

FOURTH - JACKET OF OZONE RESISTANT SYNTHETIC RUBBER (SEE TABLE I FOR THICKNESS), COLORED BLACK. CABLE SURFACE MARKING REQUIRED.

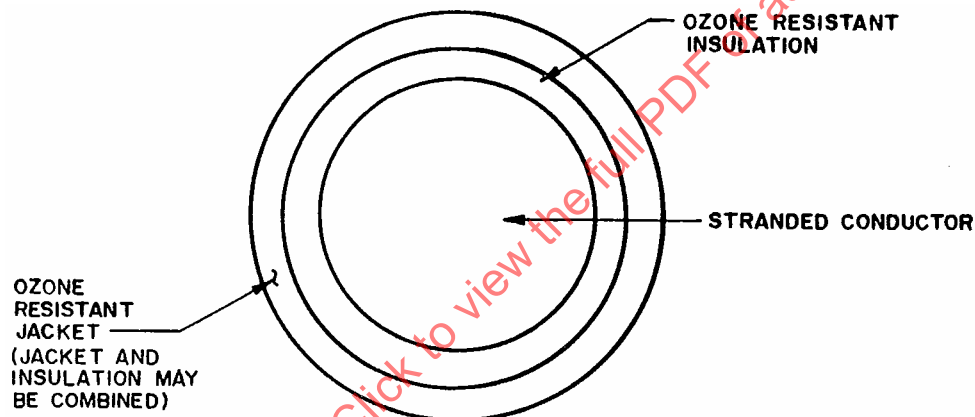


FIGURE 1. CONDUCTOR EXAMPLE.

TABLE I. DETAILS OF CONSTRUCTION.

MILITARY PART NO. M5756/2	CONDUCTOR SIZE	NOMINAL INSULATION THICKNESS (INCH) 1/	NOMINAL JACKET THICKNESS (INCH) 2/	OVERALL DIAMETER OF JACKETED CABLE		CONDUCTOR RESISTANCE PER 1000 FEET (MAX) @ 20°C (OHMS)	NOMINAL WEIGHT PER 1000 FEET (POUNDS) 3/
				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.