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**REV.
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SAE AS5756/5

FEDERAL SUPPLY CLASS
6145

RATIONALE

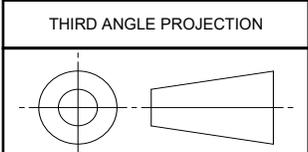
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CUSTODIAN: AE-8/AE-8D

PROCUREMENT SPECIFICATION: NONE



AEROSPACE STANDARD

CABLE, 3-PHASE POWER, ELECTRIC, PORTABLE, MULTICONDUCTOR, 90°C, 600V, OZONE RESISTANT, SPLIT NEUTRAL

SAE AS5756/5

**REV.
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ISSUED 2004-06 STABILIZED 2013-06

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 An SAE International Group	AEROSPACE STANDARD CABLE, 3-PHASE POWER, ELECTRIC, PORTABLE, MULTICONDUCTOR, 90°C, 600V, OZONE RESISTANT, SPLIT NEUTRAL	SAE AS5756/5 SHEET 1 OF 5	REV. A
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THE REQUIREMENTS FOR ACQUIRING THE PRODUCT 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.

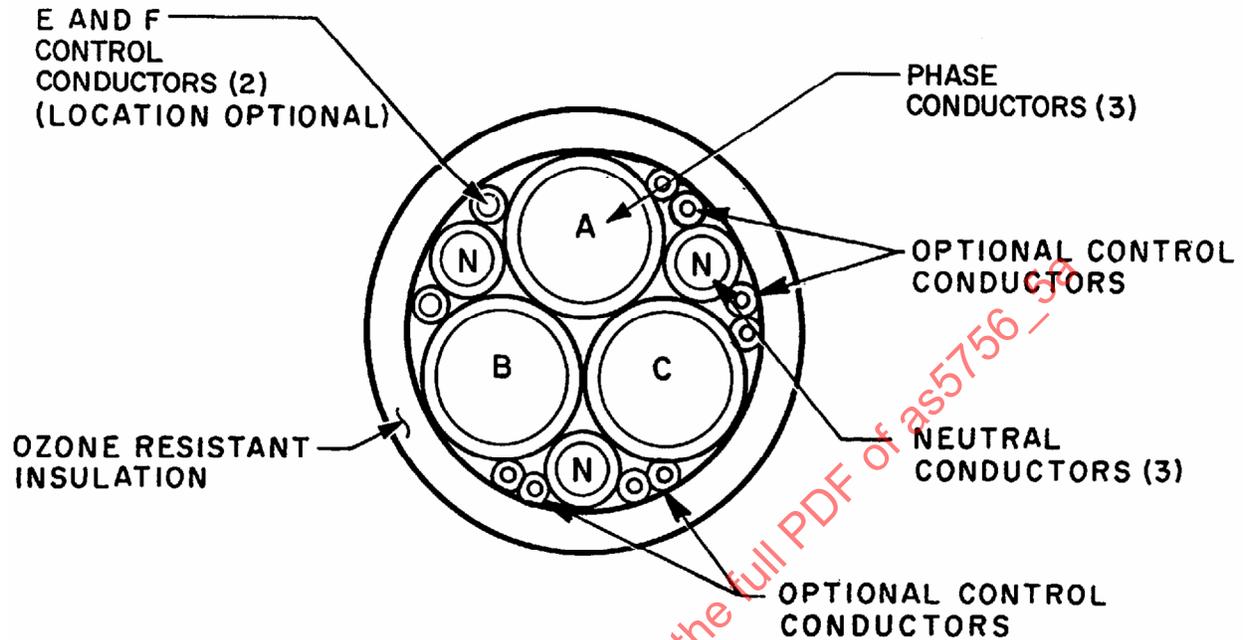


FIGURE 1. CONSTRUCTION OF PART NUMBER M5756/5-001 AND -002.

CONSTRUCTION OF M5756/5-001

PHASE CONDUCTORS SIZE 1/0 (3 REQUIRED)

COPPER CONDUCTOR, SIZE 1/0, PER MIL-C-5756 UNCOATED.

SEPARATOR REQUIRED.

OZONE RESISTANT INSULATION

COLOR OF PHASE CONDUCTORS PRINTED LETTER *

1 BLACK	"A"
2 BLACK	"B"
3 BLACK	"C"

* IDENTIFICATION REPEATS AT INTERVALS NOT TO EXCEED 2 INCHES. LETTERS SHALL BE PRINTED USING WHITE INK.

NEUTRAL CONDUCTORS SIZE 6 (3 REQUIRED)

COPPER CONDUCTOR, SIZE 6, PER MIL-C-5756 UNCOATED.

SEPARATOR REQUIRED.

OZONE RESISTANT INSULATION.

<u>COLOR OF NEUTRAL CONDUCTORS</u>	<u>PRINTED LETTER *</u>
1 WHITE	"N"
2 WHITE	"N"
3 WHITE	"N"

* IDENTIFICATION REPEATS AT INTERVALS NOT TO EXCEED 2 INCHES. LETTERS SHALL BE PRINTED USING BLACK INK.

CONTROL CONDUCTORS SIZE 12 (2 REQUIRED)

COPPER CONDUCTOR, SIZE 12, PER MIL-C-5756 UNCOATED OR TIN-COATED COPPER.

SEPARATOR REQUIRED.

OZONE RESISTANT INSULATION WITH OPTIONAL JACKET.

<u>COLOR OF CONTROL CONDUCTORS</u>	<u>PRINTED LETTER *</u>
1 WHITE	"E"
2 BLACK	"E"

* IDENTIFICATION REPEATS AT INTERVALS NOT TO EXCEED 2 INCHES. LETTERS SHALL BE PRINTED USING WHITE INK ON BLACK AND BLACK INK ON WHITE.

THE CABLE MANUFACTURER MAY INCLUDE, AT THEIR OPTION, 4 PAIRS OF ADDITIONAL CONTROL CONDUCTORS. IF USED, THE INSULATION COLORS SHALL NOT BE WHITE OR BLACK. THE OPTIONAL CONTROL CONDUCTORS ARE NOT USED BY THE MILITARY, BUT MAY BE INCLUDED TO ALLOW MILITARY USE OF A SIMILAR COMMERCIAL CABLE THAT USES THE ADDITIONAL CONTROL CONDUCTORS.

ASSEMBLY

EIGHT CONDUCTORS (SEE FIGURE 1 FOR ARRANGEMENT) SHALL BE CABLED TOGETHER WITH A LAY NOT GREATER THAN 16 TIMES THE CABLE DIAMETER.

BINDER TAPE, CONSISTING OF SYNTHETIC RUBBER, REINFORCED WITH POLYESTER. THICKNESS ".010" NOMINAL.

OZONE RESISTANT JACKET, REINFORCED. REINFORCEMENT SHALL BE APPLIED NEAR THE MIDDLE OF THE JACKET SO AS NOT TO SHOW OR DISTORT THE OVERALL CABLE MARKING.

CONSTRUCTION OF M5756/5-002

PHASE CONDUCTORS SIZE 2/0 (3 REQUIRED)

COPPER CONDUCTOR, SIZE 2/0, PER MIL-C-5756 UNCOATED.

SEPARATOR REQUIRED.

OZONE RESISTANT INSULATION.

<u>COLOR OF PHASE CONDUCTORS</u>	<u>PRINTED LETTER *</u>
1 BLACK	"A"
2 BLACK	"B"
3 BLACK	"C"

* IDENTIFICATION REPEATS AT INTERVALS NOT TO EXCEED 2 INCHES. LETTERS SHALL BE PRINTED USING WHITE INK.