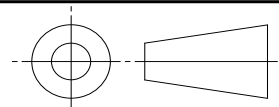


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|                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                     |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|
| REV.<br>A                                                                                                                                                                                                | FEDERAL SUPPLY CLASS<br>6145                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                     |
|                                                                                                                                                                                                          | <p>RATIONALE</p> <p>AS5756/5 IS STABILIZED. THESE CABLES HAVE NO QUALIFIED SUPPLIERS AND ARE NOT RECOMMENDED FOR NEW DESIGN. MISAPPLICATION OF THE CABLES MAY LEAD TO SAFETY ISSUES. SEE MIL-DTL-32180 FOR SIMILAR DESIGNS.</p> <p>STABILIZED NOTICE</p> <p>THIS DOCUMENT HAS BEEN DECLARED "STABILIZED" BY THE SAE AE8-D WIRE AND CABLE COMMITTEE AND WILL NO LONGER BE SUBJECT TO PERIODIC REVIEWS FOR CURRENCY. USERS ARE RESPONSIBLE FOR VERIFYING REFERENCES AND CONTINUED SUITABILITY OF TECHNICAL REQUIREMENTS. NEWER TECHNOLOGY MAY EXIST.</p> |                                                                                                                     |
| SAE AS5756/5                                                                                                                                                                                             | <p>SAENORM.COM : Click to view the full PDF of as5756_5a</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                     |
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| CUSTODIAN: AE-8/AE-8D                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | PROCUREMENT SPECIFICATION: NONE                                                                                     |
| <p><b>SAE Aerospace</b><br/>An SAE International Group</p>                                                                                                                                               | <p><b>AEROSPACE STANDARD</b></p> <p>CABLE, 3-PHASE POWER, ELECTRIC, PORTABLE, MULTICONDUCTOR, 90°C, 600V, OZONE RESISTANT, SPLIT NEUTRAL</p>                                                                                                                                                                                                                                                                                                                                                                                                           | <p><b>SAE AS5756/5</b></p> <p><b>REV. A</b></p>                                                                     |

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|                                                                                                                                  |                                                                                                            |                                     |                         |
|----------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|-------------------------------------|-------------------------|
| <br><small>An SAE International Group</small> | <b>AEROSPACE STANDARD</b>                                                                                  | <b>SAE AS5756/5</b><br>SHEET 1 OF 5 | <b>REV.</b><br><b>A</b> |
|                                                                                                                                  | CABLE, 3-PHASE POWER, ELECTRIC,<br>PORTABLE, MULTICONDUCTOR, 90°C, 600V,<br>OZONE RESISTANT, SPLIT NEUTRAL |                                     |                         |

THIS SPECIFICATION IS APPROVED FOR USE BY ALL DEPARTMENTS AND AGENCIES OF THE DEPARTMENT OF DEFENSE.

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.

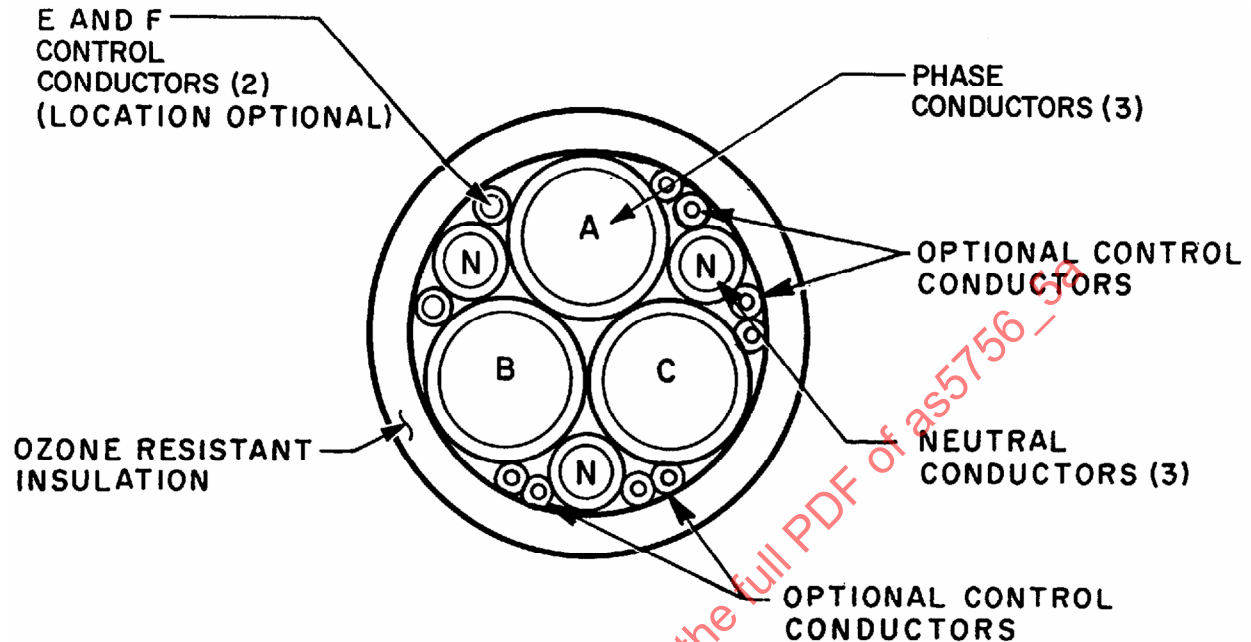


FIGURE 1. CONSTRUCTION OF PART NUMBER M5756/5-001 AND -002.

#### 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.

| <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.

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.