

SAE Executive Standards Committee Rules provide that: " This report is published by SAE to advance the state of technical and engineering sciences. The use of this report is entirely voluntary, and its applicability and suitability for any particular use, including any patent infringement arising therefrom, is the sole responsibility of the user."

SAE reviews each technical report at least every five years at which time it may be revised, reaffirmed, stabilized, or cancelled. SAE invites your written comments and suggestions.

REV.
C

AS5756™/4

FEDERAL SUPPLY CLASS
6145

RATIONALE

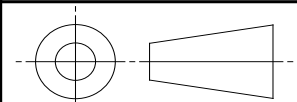
AS5756/4C IS BEING STABILIZED BECAUSE THE PROCESSES/PRODUCT IS CONSIDERED MATURE AND THE COMMITTEE DOES NOT ANTICIPATE FUTURE TECHNICAL CHANGES. STABILIZATION DOES NOT IMPLY THE PROCESS OR PRODUCT IS UNACCEPTABLE FOR APPLICATIONS FOR WHICH IT IS DESIGNED. ANY TECHNICAL CHANGES NOTED BY A SUPPLIER OR USER WHICH RESULTS IN A PRODUCT OR REQUIREMENT CHANGE WILL BE ADDRESSED BY A NEW REVISION. A QUALIFIED SUPPLIER IS MAINTAINED.

STABILIZED NOTICE

THIS DOCUMENT HAS BEEN DECLARED "STABILIZED" BY SAE AE-8D 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.

For more information on this standard, visit
<https://www.sae.org/standards/content/AS5756/4C/>

THIRD ANGLE PROJECTION



CUSTODIAN: AE-8D

PROCUREMENT SPECIFICATION: AS5756



AEROSPACE STANDARD

CABLE, ELECTRICAL,
600 VOLTS, PORTABLE,
MULTICONDUCTOR, OZONE RESISTANT

AS5756™/4

REV.
C



Documents

Copyright © 2025 SAE International

All rights reserved. No part of this publication may be reproduced, stored in a retrieval system, transmitted, in any form or by any means, electronic, mechanical, photocopying, recording, or otherwise, or used for text and data mining, AI training, or similar technologies, without the prior written permission of SAE.

TO PLACE A DOCUMENT ORDER: Tel: 877-606-7323 (inside USA and Canada)

Fax: 724-776-0790

Tel: +1 724-776-4970 (outside USA)

Email: CustomerService@sae.org

SAE WEB ADDRESS: <http://www.sae.org>

NOTICE

THE COMPLETE REQUIREMENTS FOR PROCURING THE PRODUCT DESCRIBED HEREIN SHALL CONSIST OF THIS DOCUMENT AND THE LATEST ISSUE OF AS5756.

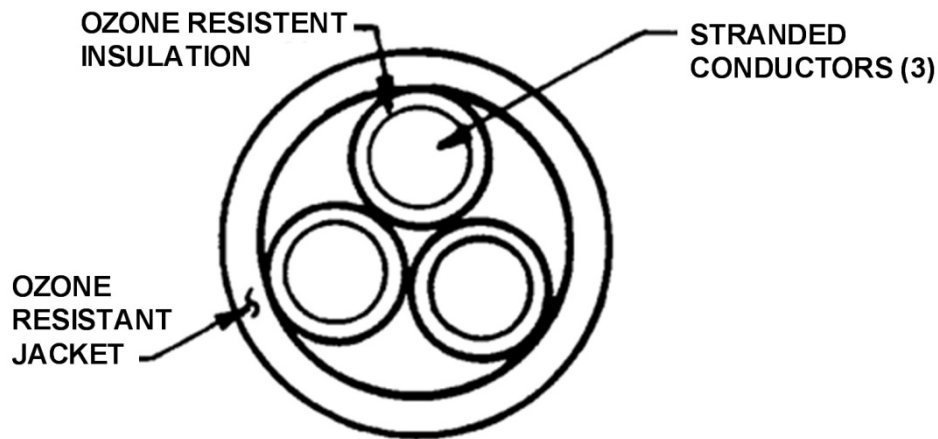


FIGURE 1 – EXAMPLE OF 3 CONDUCTOR CABLE

REQUIREMENTS: ALL REQUIREMENTS SHALL CONSIST OF THIS DOCUMENT AND THE LATEST ISSUE OF A5756.

QUALIFICATION: REQUIRED.

CONSTRUCTION: (SEE TABLE 1)

FIRST - COPPER CONDUCTOR, SEE TABLE 1 OF AS5756 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 1 FOR THICKNESS), COLOR CODED PER 3.4.6 OF AS5756.

FOURTH - THE REQUIRED NUMBER OF CONDUCTORS CABLED TOGETHER WITH A LEFT-HAND LAY NOT GREATER THAN 16 TIMES THE DIAMETER UNDER THE JACKET. WHEN NEEDED, FILLERS SHALL BE EMPLOYED TO OBTAIN A FIRM, WELL-ROUNDED ASSEMBLY.

FIFTH - BINDER TAPE APPLIED HELICALLY WITH OVERLAP.

SIXTH - JACKET OF OZONE RESISTANT SYNTHETIC RUBBER (SEE TABLE 1 FOR THICKNESS), COLORED BLACK. CABLE SURFACE MARKING REQUIRED.

OZONE RESISTANCE: REQUIRED.

	AEROSPACE STANDARD	AS5756™/4 SHEET 1 OF 4	REV. 6
	CABLE, ELECTRICAL, 600 VOLTS, PORTABLE, MULTICONDUCTOR, OZONE RESISTANT		



Documents

Document Sharing Hub