## NOTICE

THIS DOCUMENT HAS BEEN TAKEN DIRECTLY FROM U.S. MILITARY SPECIFICATION MIL-C-81582/8B AND CONTAINS ONLY MINOR EDITORIAL AND FORMAT CHANGES REQUIRED TO BRING IT INTO CONFORMANCE WITH THE PUBLISHING REQUIREMENTS OF SAE TECHNICAL STANDARDS. THE INITIAL RELEASE OF THIS DOCUMENT IS INTENDED TO REPLACE MIL-C-81582/8B. ANY PART NUMBERS ESTABLISHED BY THE ORIGINAL SPECIFICATION REMAIN UNCHANGED.

THE ORIGINAL MILITARY SPECIFICATION WAS ADOPTED AS AN SAE STANDARD UNDER THE PROVISIONS OF THE SAE TECHNICAL STANDARDS BOARD (TSB) RULES AND REGULATIONS (TSB 001) PERTAINING TO ACCELERATED ADOPTION OF GOVERNMENT SPECIFICATIONS AND STANDARDS. TSB RULES PROVIDE FOR (A) THE PUBLICATION OF PORTIONS OF UNREVISED GOVERNMENT SPECIFICATIONS AND STANDARDS WITHOUT CONSENSUS VOTING AT THE SAE COMMITTEE LEVEL, AND (B) THE USE OF THE EXISTING GOVERNMENT SPECIFICATION OR STANDARD FORMAT.

UNDER DEPARTMENT OF DEFENSE POLICIES AND PROCEDURES, ANY QUALIFICATION REQUIREMENTS AND ASSOCIATED QUALIFIED PRODUCTS LISTS APE MANDATORY FOR DOD CONTRACTS. ANY REQUIREMENT RELATING TO QUALIFIED PRODUCTS LISTS (QPL'S) HAS NOT BEEN ADOPTED BY SAE AND IS NOT PART OF THIS TECHNICAL REPORT.

CITIZANO VIEW HER PRODUCTS LISTS (COLOR OF THE PROPERTY OF TH

THIRD ANGLE PROJECTION

ED 2004-04

ISSN

CUSTODIAN: AE-8/AE-8C1

PROCUREMENT SPECIFICATION: MIL-C-81582



## **AEROSPACE STANDARD**

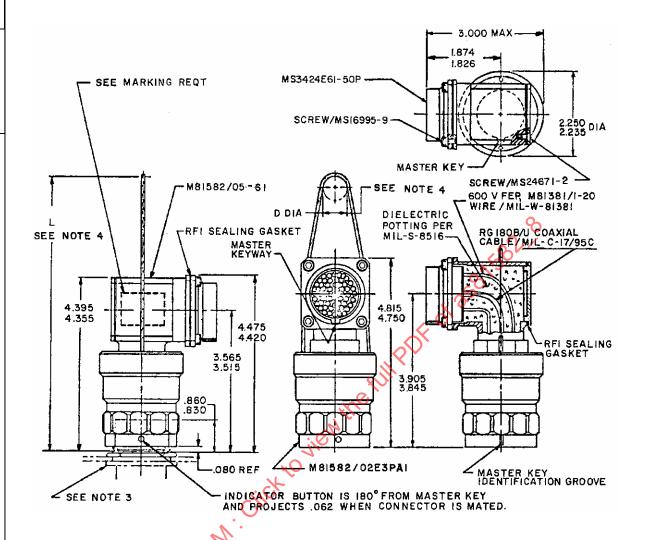
CONNECTOR, ADAPTER ASSEMBLY, UMBILICAL CABLE TO STORES INTERFACE, LANYARD RELEASE **AS81582/8** SHEET 1 OF 5

Copyright 2004 SAE International

All rights reserved. No part of this publication may be reproduced, stored in a retrieval system or transmitted, in any form or by any means, electronic, mechanical, photocopying, recording, or otherwise, without the prior written permission of SAE.

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

Tel: 724-776-4970 (outside USA)

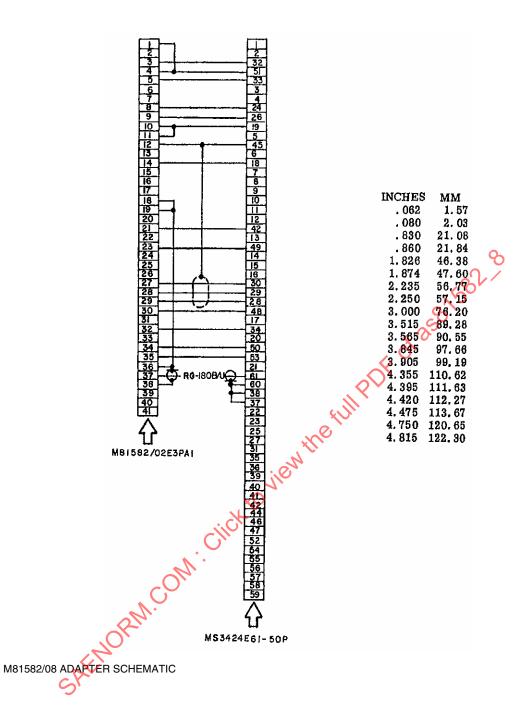


## NOTES:

- 1. ALL DIMENSIONS ARE IN INCHES.
- 2. ALL DIMENSIONS ARE AFTER PLATING.
- 3. MATING RECEPTACLE (M81582/01E03SA) IS SHOWN TO ESTABLISH OVERALL DIMENSIONS IN MATED CONDITION.
- 4. L AND D ARE DETERMINED BY THE MIL-C-81582/2 CONNECTOR USED.

SAFAerospace An SAE International Group
---

Δ	F	R	n	2	P	Δ	C	F	2	ГΑ	N	п	Δ	R	ח
$\boldsymbol{-}$	_	17	v	J	Г,	_	v	_	J		ľ	$\boldsymbol{L}$	_	17	$\boldsymbol{L}$



**SAE** Aerospace

AEROSPACE STANDARD

CONNECTOR, ADAPTER ASSEMBLY, UMBILICAL CABLE TO STORES INTERFACE, LANYARD RELEASE

AS81582/8 SHEET 3 OF 5

## REQUIREMENTS:

CONTACTS: CONTACTS SHALL CONFORM TO THE APPROPRIATE MILITARY SPECIFICATION CONNECTOR REQUIREMENTS.

FINISH: THE ADAPTER FINISH SHALL BE AS SPECIFIED IN MIL-C-81582.

SERVICE RATING: I.

GROUP B INSPECTION: NOT APPLICABLE.

QUALIFICATION: MAJOR COMPONENTS USED IN THE ADAPTER ASSEMBLY SHALL BE QUALIFIED TO THEIR RESPECTIVE PROCUREMENT DOCUMENTS. QUALIFICATION TESTING OF THE ADAPTER ASSEMBLY SHALL BE CONDUCTED ON TWO SAMPLES IN ACCORDANCE WITH TABLE II.

TABLE II. SEQUENTIAL TEST SCHEDULE.

TEST	SPECIFICATION
EXAMINATION OF PRODUCT	MIL-C-81582
DIELECTRIC WITHSTANDING VOLTAGE	MIL-C-81582/8
CIRCUIT RESISTANCE	MIL-C-81582/8
CONTACT RETENTION	MIL-C-81582
TEMPERATURE ALTITUDE	MIL-C-81582/8
VIBRATION	MIL-C-81582/8
SHOCK	MIL-C-81582/8
HUMIDITY	MIL-C-81582
SALT SPRAY (CORROSION)	MIL-C-81582
LOW TEMPERATURE, HIGH HUMIDITY	MIL-C-81582
LANYARD RELEASE FORCE	MIL-C-81582
CIRCUIT RESISTANCE	MIL-C-81582/8
CONTACT RETENTION	MIL-C-81582
DIELECTRIC WITHSTANDING VOLTAGE 😭	MIL-C-81582/8
EXAMINATION OF PRODUCT	MIL-C-81582

ACCEPTANCE TESTING: EACH ADAPTER SUBMITTED FOR ACCEPTANCE SHALL BE SUBJECTED TO THE FOLLOWING TESTS:

- a. DIELECTRIC WITHSTANDING VOLTAGE AS SPECIFIED IN MIL-C-81582/8.
- b. CIRCUIT RESISTANCE AS SPECIFIED IN MIL-C-81582/8, AND WIRING CONFORMANCE.
- c. CONTACT RETENTION AS SPECIFIED IN MIL-C-81582.

PERFORMANCE: THE PERFORMANCE OF EACH CONNECTOR USED ON THE ADAPTER SHALL BE AS SPECIFIED IN THE RESPECTIVE PROCUREMENT DOCUMENTS. THE ADAPTER ASSEMBLY SHALL PERFORM AS STATED HEREIN.

- a. DIELECTRIC WITHSTANDING VOLTAGE A TEST VOLTAGE OF 600 ±30 VOLTS DC SHALL BE APPLIED BETWEEN EACH CONTACT AND ALL OTHERS TIED IN COMMON WITH THE SHELL FOR 15 SECONDS MINIMUM. THE MAXIMUM ALLOWABLE LEAKAGE SHALL BE 25 MICROAMPERES STEADY STATE.
- b. CIRCUIT RESISTANCE WHEN MATED, THE CIRCUITS SPECIFIED IN M81582/08, ADAPTER SCHEMATIC (SHEET 2), SHALL NOT EXCEED THE MAXIMUM MILLIVOLT DROP SHOWN IN TABLE I.

