

SAE Technical Standards Board 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.
B**

AS81659™/56

FEDERAL SUPPLY CLASS
5935

RATIONALE

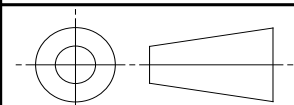
THE C1 COMMITTEE HAS RECOMMENDED STABILIZATION OF THIS DOCUMENT BASED ON NO QPL SOURCES. ANY EDITORIAL OR TECHNICAL CHANGES NEEDED TO ALIGN THIS DOCUMENT WITH SIMILAR CURRENTLY PUBLISHED DETAIL SHEETS SHALL BE MADE AT SUCH TIME A POTENTIAL SOURCE REQUESTS AUTHORIZATION TO QUALIFY TO THIS DOCUMENT.

STABILIZED NOTICE

THIS DOCUMENT HAS BEEN DECLARED "STABILIZED" BY THE SAE AE-8C1 CONNECTORS COMMITTEE AND WILL NO LONGER BE SUBJECTED TO PERIODIC REVIEWS FOR CURRENCY. USERS ARE RESPONSIBLE FOR VERIFYING REFERENCES AND CONTINUED SUITABILITY OF TECHNICAL REQUIREMENTS. NEWER TECHNOLOGY MAY EXIST.

SAE values your input. To provide feedback on this Technical Report, please visit
<http://standards.sae.org/AS81659/56E>

THIRD ANGLE PROJECTION



CUSTODIAN: AE-8/AE-8C1

PROCUREMENT SPECIFICATION: AS81659



AEROSPACE STANDARD

CONNECTORS, ELECTRICAL, RECTANGULAR, RECEPTACLE
 ENVIRONMENT RESISTANT, CRIMP CONTACTS, TRIPLE INSERT,
 TYPE II, CLASS 2 (-65 °C TO +200 °C), SERIES 2, SHELL DESIGNATOR B

AS81659™/56

**REV.
B**

Documents

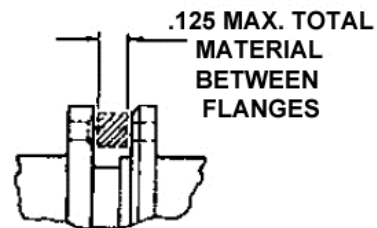
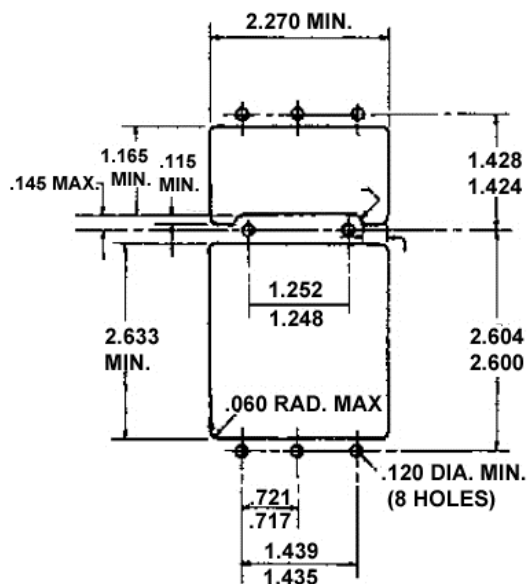
Copyright © 2017 SAE International
 All rights reserved. No part of this publication may be reproduced, stored in a retrieval system or transmitted, in any form or by any means, electronic, mechanical, photocopying, recording, or otherwise, without the prior written permission of SAE.

TO PLACE A DOCUMENT ORDER: Tel: 877-606-7323 (inside USA and Canada)
 Fax: 724-776-0790

Tel: +1 724-776-4970 (outside USA)
 Email: CustomerService@sae.org

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

ISSUED 2004-05 REVISED 2012-02 STABILIZED 2017-03



**RECOMMENDED
MATED POSITION**

SUGGESTED PANEL CUT-OUT DIMENSIONS

INCHES	MM	INCHES	MM	INCHES	MM	INCHES	MM	INCHES	MM
.055	1.397	.717	18.212	1.300	33.020	1.475	37.465	2.600	66.040
.060	1.524	.721	18.313	1.389	35.281	2.062	52.375	2.604	66.142
.065	1.651	.885	22.479	1.395	35.433	2.082	52.883	2.633	66.878
.110	2.794	.897	22.784	1.407	35.738	2.235	56.769	3.937	100.000
.115	2.921	1.010	25.654	1.413	35.890	2.245	57.023	4.226	107.442
.120	3.048	1.030	26.162	1.424	36.170	2.250	57.150	4.230	107.442
.125	3.175	1.165	29.591	1.428	36.271	2.270	57.658	4.506	114.452
.140	3.556	1.248	31.699	1.435	36.449	2.485	63.119	4.536	115.214
.145	3.683	1.252	31.801	1.439	36.551	2.515	63.881		

FIGURE 1 – CONNECTOR SUGGESTED PANEL CUTOUT/RECOMMENDED MATED POSITION



AEROSPACE STANDARD

CONNECTORS, ELECTRICAL, RECTANGULAR, RECEPTACLE
ENVIRONMENT RESISTANT, CRIMP CONTACTS, TRIPLE INSERT,
TYPE II, CLASS 2 (-65 °C TO +200 °C), SERIES 2, SHELL DESIGNATOR B

AS81659™/56

SHEET 1 OF 3

REV.



Documents

Document Sharing Hub