

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

AS34521™

FEDERAL SUPPLY CLASS
5935

RATIONALE

REVISION IS REQUIRED TO ADD AN APPLICATION NOTE TO CLARIFY THE ENVIRONMENT SEALING PROPERTIES OF THIS CONNECTOR.

NOTICE

THE COMPLETE REQUIREMENTS FOR PROCURING THE PRODUCT DESCRIBED HEREIN SHALL CONSIST OF THIS DOCUMENT AND THE LATEST ISSUE OF AS50151.

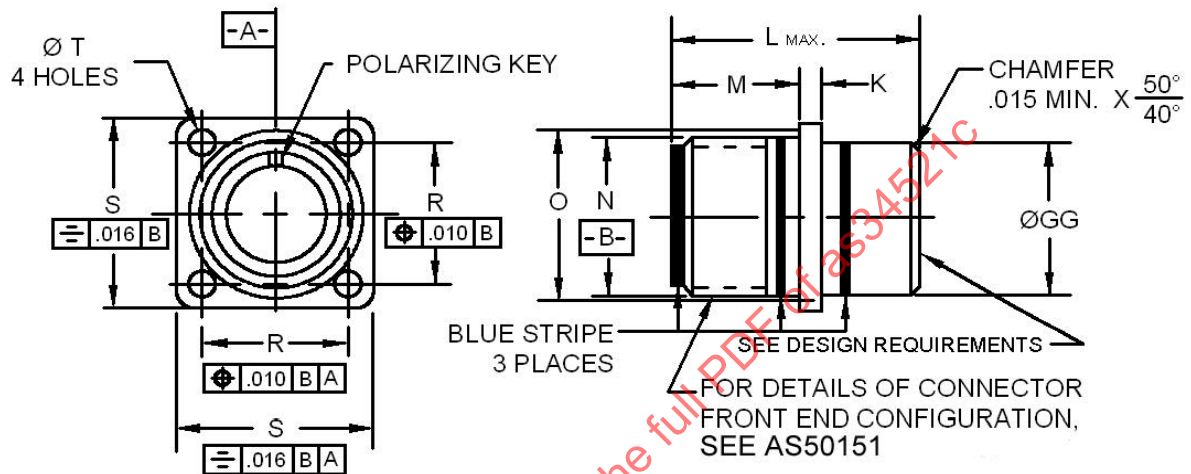
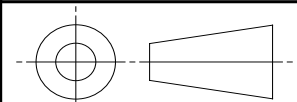


FIGURE 1 - CONNECTOR CONFIGURATION (CLASSES L, U, AND W ENVIRONMENT RESISTANT INTERFACE ONLY)

For more information on this standard, visit
<https://www.sae.org/standards/content/AS34521C/>

THIRD ANGLE PROJECTION



CUSTODIAN: AE-8/AE-8C1

PROCUREMENT SPECIFICATION: AS50151



AEROSPACE STANDARD

CONNECTOR, RECEPTACLE, ELECTRIC,
BOX MOUNTING, REAR RELEASE,
CRIMP CONTACT, AN TYPE

AS34521™
SHEET 1 OF 3

REV.
C

Copyright © 2021 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 2004-06 REVISED 2017-02 REAFFIRMED 2021-10

TABLE 1 - DIMENSIONS

SIZE	ØGG ±.016	K ±.015	L MAX		M +.031 −.000	N +.000 −.062	O (REF) MTG HOLES	R C ₁ C ₁	S ±.031	T +.010 −.005
			SIZE 16 & 12 CONTACTS	SIZE 8, 4 & 0 CONTACTS						
8S	.500	.083	1.662	N/A	.562	.532	.562	.594	.875	.120
10S	.625					.656	.688	.719	1.000	
10SL										
12S										
12										
14S	.750				.782	.812	.812	1.094		
14										
16S										
16										
18	.875	.906		.938	.906	1.188				
20										
22										
24										
28		1.032		1.062	.969	1.281				
32										
36										
40										
44	.750	1.156		1.188	1.062	1.375				
48										
1.282			1.312				1.156	1.500		
1.406			1.438				1.250	1.625		
1.532	1.562	1.375	1.750	.147						
1.782	1.812	1.562	2.000							
2.032	2.062	1.750	2.250		.173					
2.282	2.312	1.938	2.500							
2.532	2.562	2.188	2.750							
2.782	2.812	2.375	3.000							
3.032	3.062	2.625	3.250							

REQUIREMENTS: ALL REQUIREMENTS SHALL CONSIST OF THIS DOCUMENT AND THE LATEST ISSUE OF AS50151.

1. DESIGN:

CONNECTORS SHALL BE DESIGNED IN ACCORDANCE WITH FIGURE 1 AND TABLE 1. DIMENSIONS ARE IN INCHES. UNLESS OTHERWISE SPECIFIED, TOLERANCES: DECIMALS ±.016. DIMENSIONS AND TOLERANCING SHALL BE IN ACCORDANCE WITH ANSI/ASME Y14.5M-1994. AS50151 CRIMP CONTACT, FRONT AND REAR RELEASE CONNECTORS AND SOLDER CONTACT CONNECTORS ARE INTERMATEABLE. UNLESS OTHERWISE SHOWN, CORRESPONDING FEATURES OF PIN AND SOCKET CONTACT CONNECTORS ARE IDENTICAL. THE INSULATION MATERIAL SHALL BE ABOVE, FLUSH WITH, OR NO MORE THAN .015 INCH BELOW THE METAL SHELL AND ALL CONTACTS SHALL BE RECESSED BELOW THE INSULATION MATERIAL. TOOLS USED FOR INSERTING AND REMOVAL OF CONTACTS SHALL BE AS SPECIFIED IN AS50151.

2. FOR INSERT ARRANGEMENTS SEE MIL-STD-1651.