

FEDERAL SUPPLY CLASS
5935

RATIONALE

AS34641 IS WRITTEN TO PERMIT CANCELATION AND SUPERSESION OF MS3464

NOTIFICATION

THE REQUIREMENTS FOR ACQUIRING THE COMPONENTS DESCRIBED HEREIN SHALL CONSIST OF THIS SPECIFICATION AND THE LATEST ISSUE OF AS81703

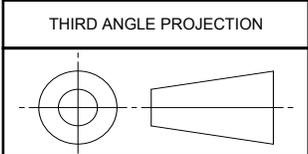
SAE AS34641

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 reaffirmed, revised, or cancelled. SAE invites your written comments and suggestions.

SAENORM.COM : Click to view the full PDF of as34641

SAE values your input. To provide feedback on this Technical Report, please visit <http://www.sae.org/technical/standards/AS34641>



ISSUED 2011-08

CUSTODIAN: AE-8/AE-8C1

PROCUREMENT SPECIFICATION: AS81703



AEROSPACE STANDARD
CONNECTOR, RECEPTACLE, ELECTRIC, CRIMP TYPE, JAM NUT MOUNTING, PUSH-PULL COUPLING, SERIES 3 (CLASS L AND E)

SAE AS34641
SHEET 1 OF 5

Copyright 2011 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>

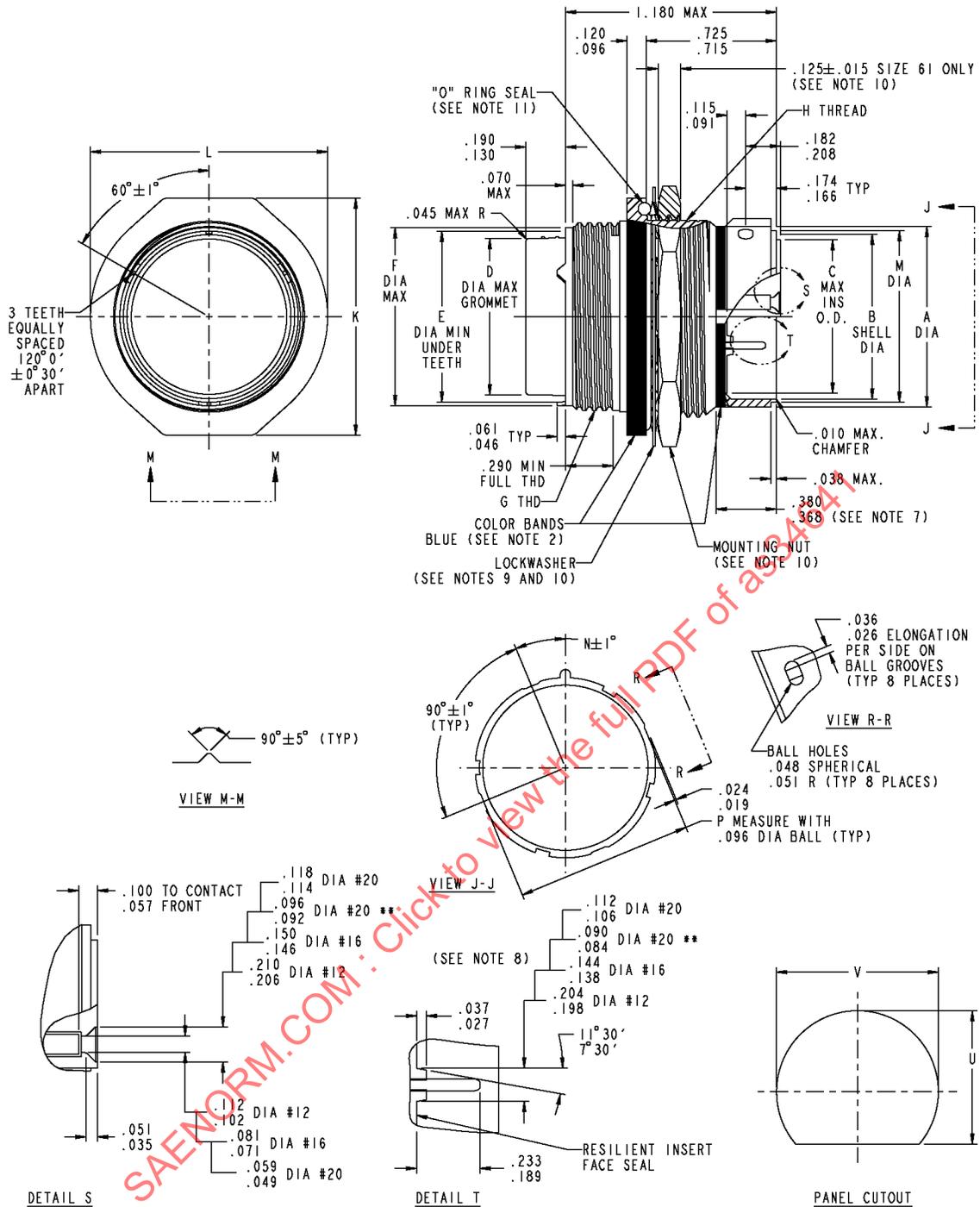


FIGURE 1 - CONNECTOR CONFIGURATIONS AND DIMENSIONS

PART NUMBER
 EXAMPLE: **MS3464** E 19 - 50 P B

MS NUMBER
 CLASS
 SHELL SIZE
 INSERT ARRANGEMENT

ALTERNATE INSERT POSITION
 CONTACT STYLE

** ON OUTER ROW CONTACTS OF INSERT ARRANGEMENTS INDICATED IN CHART.

INSERT ARRANGEMENTS REQUIRING REDUCED DIAMETERS FOR SOCKET CONTACT CHAMFER LEAD-INS AND PIN CONTACT RAISED SEAL BARRIERS.

SHELL SIZE	INSERT ARRANGEMENT	CONTACT CAVITIES
12	12-50	5, 6, 8, 9, 11 AND 12

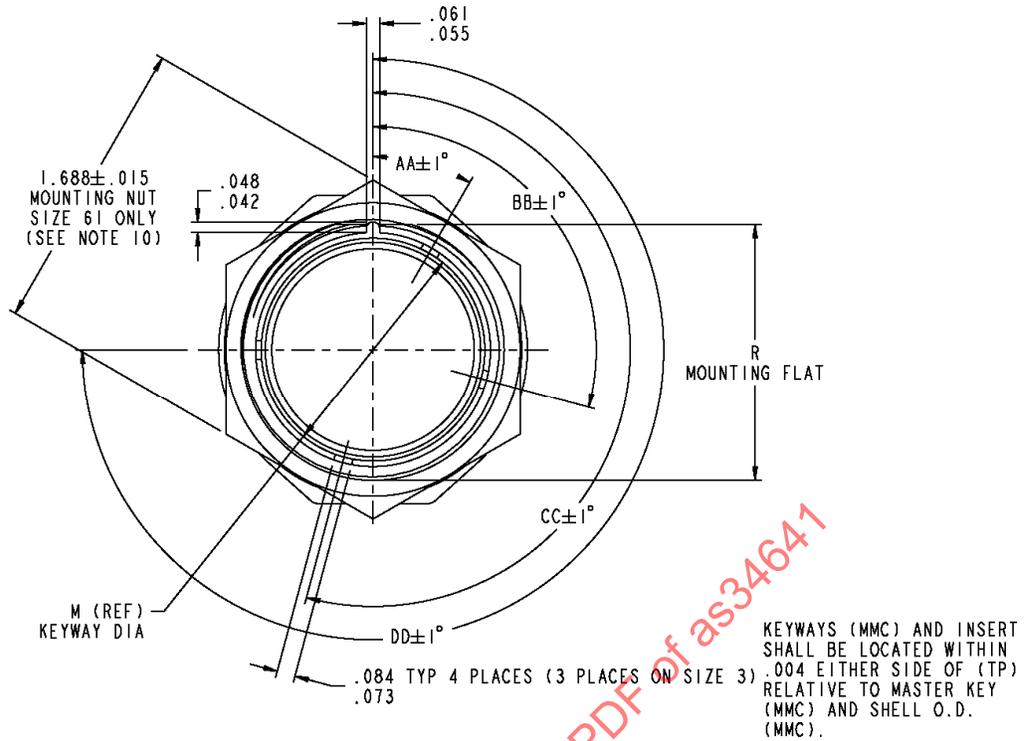


FIGURE 2 - KEYWAY POSITIONS

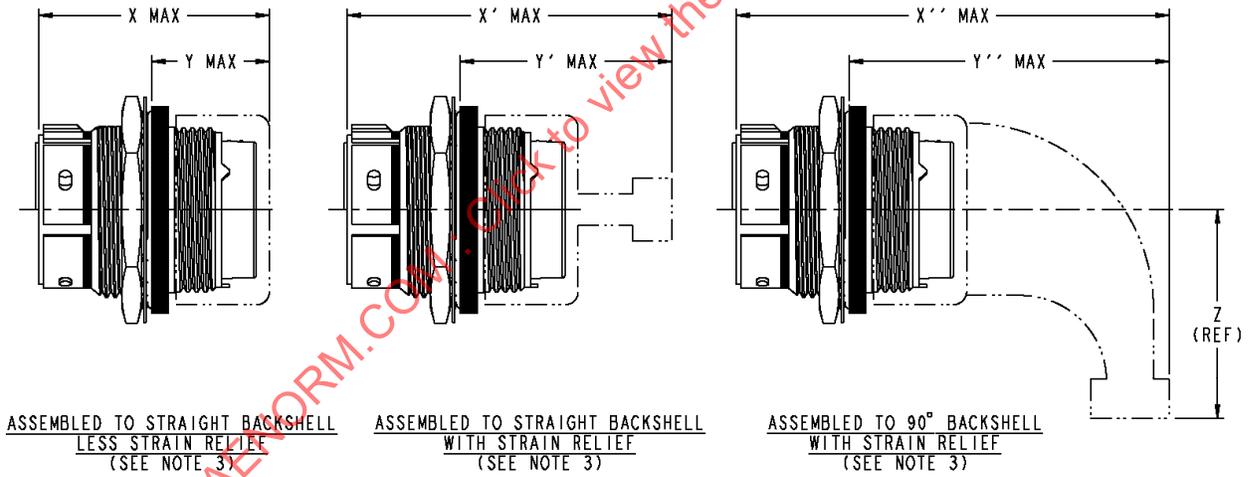


FIGURE 3 - BACKSHELL ACCESSORIES

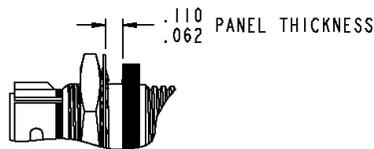


FIGURE 4 - PANEL DIMENSIONS

TABLE 1 - CONNECTOR DIMENSIONS

SHELL SIZE	A	B	C	D	E	F	G THREAD	H THREAD	K	L
3	.441/.431	.367/.356	.330	.351	.441	.509	9/16-20 UNEF-2A	9/16-24 UNEF-2A	.765/.735	.765/.735
7	.576/.566	.483/.473	.451	.531	.613	.687	3/4-20 UNEF-2A	11/16-24 UNEF-2A	.890/.960	.890/.860
12	.710/.700	.624/.614	.553	.665	.731	.812	7/8-20 UNEF-2A	13/16-20 UNEF-2A	1.077/1.047	1.077/1.047
19	.849/.839	.763/.753	.738	.790	.861	.937	1-20 UNEF-2A	1-20 UNEF-2A	1.171/1.141	1.202/1.172
27	1.004/.994	.918/.908	.854	.869	.919	.992	1 1/16-18 UNEF-2A	1 1/8-18 UNEF-2A	1.327/1.297	1.327/1.297
37	1.126/1.116	1.040/1.030	.978	.994	1.044	1.117	1 3/16-18 UNEF-2A	1 1/4-18 UNEF-2A	1.435/1.405	1.515/1.485
61	1.414/1.404	1.316/1.306	1.271	1.280	1.361	1.427	1 1/2-18 UNEF-2A	1 1/2-18 UNEF-2A	1.864/1.834	1.890/1.860

SHELL SIZE	M	N	P	R	U	V	X	X'	X''	Y	Y'	Y''	Z
3	.392/.385	30°	.398/.391	.523	.538/.534	.577/.567	1.452	1.802	2.009	.750	1.112	1.320	.850
7	.527/.520	22°30'	.533/.526	.655	.665/.661	.701/.691	1.452	1.802	2.210	.750	1.112	1.521	.950
12	.661/.654	22°30'	.668/.661	.778	.788/.784	.826/.816	1.452	1.452	2.300	.750	1.347	1.611	1.010
19	.800/.793	22°30'	.806/.799	.963	.973/.969	1.013/1.003	1.452	1.452	2.435	.750	1.347	1.746	1.070
27	.995/.948	22°30'	.961/.954	1.089	1.099/1.095	1.138/1.128	1.452	1.452	2.534	.750	1.347	1.845	1.130
37	1.077/1.070	22°30'	1.083/1.076	1.214	1.224/1.220	1.263/1.253	1.452	1.452	2.667	.750	1.347	1.978	1.190
61	1.365/1.358	22°30'	1.367/1.360	1.463	1.471/1.467	1.514/1.504	1.452	1.452	2.914	.750	1.347	2.220	1.335

TABLE 2 - KEYWAY POSITIONS

SHELL SIZE	AA	BB	CC	DD
3	23°	97°	187°	--
7	23°	97°	187°	277°
12	30°	105°	195°	270°
19	30°	105°	195°	270°
27	30°	105°	195°	270°
37	30°	105°	195°	270°
61	30°	105°	195°	270°