

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.

**AS85049/59**

FEDERAL SUPPLY CLASS  
5935

# NOTICE

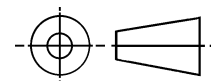
THIS DOCUMENT HAS BEEN TAKEN DIRECTLY FROM U.S. MILITARY SPECIFICATION MIL-C-85049/59A AND CONTAINS ONLY MINOR EDITORIAL AND FORMAT CHANGES REQUIRED TO BRING IT INTO CONFORMANCE WITH THE PUBLISHING REQUIREMENTS OF SAE TECHNICAL STANDARDS. THE INITIAL RELEASE OF THIS DOCUMENT IS INTENDED TO REPLACE MIL-C-85049/59A. 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 ARE 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 SAE TECHNICAL DOCUMENT.

SAENORM.COM : Click to view the full PDF of as85049-59

THIRD ANGLE PROJECTION



ISSUED 2000-05 REAFFIRMED 2006-01

PREPARED BY SAE SUBCOMMITTEE AE-8C1

**SAE Aerospace**  
An SAE International Group

## AEROSPACE STANDARD

CONNECTOR ACCESSORIES, ELECTRICAL,  
ADAPTER, SHRINK BOOT, CATEGORY 5  
(FOR MIL-C-22992 CONNECTORS, CLASSES C, J, AND R)

**AS85049/59**  
SHEET 1 OF 5

Copyright 2006 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: 724-776-4970 (outside USA)  
Email: [custsvc@sae.org](mailto:custsvc@sae.org)

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

THE REQUIREMENTS FOR ACQUIRING THE ACCESSORIES DESCRIBED HEREIN SHALL CONSIST OF THIS SPECIFICATION AND THE LATEST ISSUE OF MIL-C-85049.

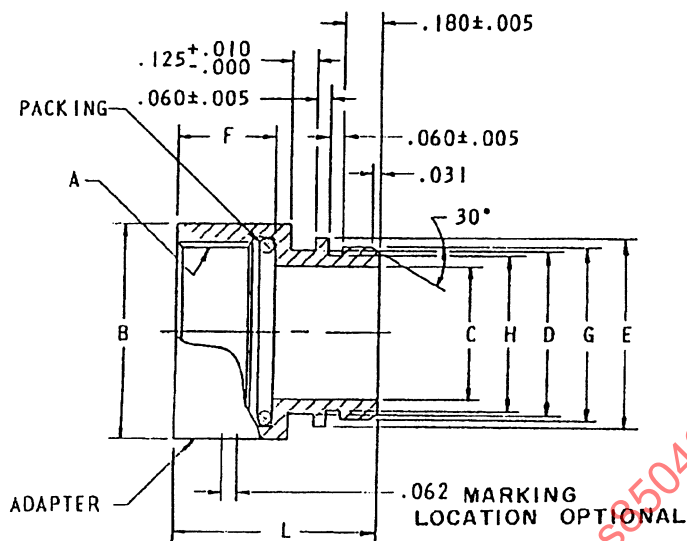


FIGURE 1. CONFIGURATIONS AND DIMENSIONS.

Adapter size no.	Packing preformed	A Thread class 2B-LH	B ±.010	C dia ±.005	D dia ±.010	E dia ±.010	F ±.016	G +.010 -.000	H dia ±.005	L ±.031
12	MS9021-017	.7500-20 UNEF	.923	.500	.673	.798	.479	.766	.673	1.175
14	MS9021-019	.8750-20 UNEF	1.047	.656	.797	.922	.479	.844	.797	1.175
16	MS9021-021	1.0000-20 UNEF	1.172	.813	.923	1.048	.479	.969	.923	1.175
18	MS9021-023	1.1250-18 UNEF	1.297	.938	1.047	1.172	.479	1.094	1.047	1.175
20	MS9021-025	1.2500-18 UNEF	1.422	1.063	1.172	1.297	.479	1.219	1.047	1.175
22	MS9021-027	1.3750-18 UNEF	1.547	1.188	1.297	1.423	.479	1.344	1.297	1.175
24	MS9021-030	1.6250-18 UNEF	1.787	1.312	1.537	1.662	.479	1.469	1.422	1.175
28	MS9021-032	1.8750-16 UN	2.047	1.500	1.797	1.922	.479	1.719	1.679	1.175
32	MS9021-033	2.0625-16 UN	2.297	1.800	2.047	2.172	.479	2.000	1.960	1.175
36	MS9021-035	2.3125-16 UN	2.547	2.000	2.297	2.422	.479	2.219	2.179	1.175
40	MS9021-038	2.6250-16 UN	2.859	2.250	2.609	2.734	.667	2.469	2.429	1.375
44	MS9021-040	2.8750-16 UN	3.110	2.459	2.857	2.982	.667	2.782	2.742	1.375

FIGURE 1. CONFIGURATIONS AND DIMENSIONS - CONTINUED.

Inches	mm	Inches	mm	Inches	mm
.005	0.13	1.800	45.72	4.896	124.36
.010	0.25	1.8750	47.62	4.900	124.46
.016	0.41	1.922	48.82	4.959	125.96
.031	0.79	1.960	49.78	5.00	127.0
.060	1.52	2.000	50.80	5.021	127.53
.062	1.57	2.047	51.99	5.188	131.78
.125	3.18	2.0625	52.388	5.266	133.76
.479	12.17	2.172	55.17	5.300	134.62
.500	12.70	2.179	55.35	5.373	136.47
.656	16.66	2.219	56.36	5.600	142.24
.667	16.94	2.250	57.15	5.673	144.09
.673	17.09	2.297	58.34	5.688	144.48
.7500	19.05	2.3125	58.74	5.725	145.42
.766	19.46	2.422	61.52	6.00	152.70
.797	20.24	2.429	61.70	6.057	153.85
.798	20.27	2.459	62.46	6.188	157.18
.813	20.65	2.469	62.71	6.354	161.39
.844	21.44	2.609	66.27	6.688	169.88
.8750	22.225	2.6250	66.675	7.188	182.58
.922	23.42	2.734	69.44	7.688	195.28
.923	23.44	2.742	69.65	8.188	207.98
.938	23.83	2.782	70.66	8.688	220.68
.969	24.61	2.857	72.57	9.688	246.08
1.0000	25.400	2.8750	73.025	12.688	322.28
1.047	26.59	2.982	75.74	13.688	347.68
1.048	26.62	3.110	78.99	14.188	360.38
1.063	27.00	3.841	97.56		
1.094	27.79	3.844	97.64		
1.1250	28.58	3.846	97.69		
1.172	29.77	3.901	99.08		
1.175	29.84	3.932	99.87		
1.188	30.18	3.966	100.74		
1.219	30.96	4.000	101.60		
1.2500	31.38	4.024	102.21		
1.297	32.94	4.087	103.81		
1.312	33.32	4.100	104.14		
1.344	34.14	4.150	105.41		
1.375	34.92	4.154	105.51		
1.3750	34.92	4.177	106.10		
1.422	36.12	4.188	106.38		
1.423	36.14	4.212	106.98		
1.469	37.31	4.275	108.58		
1.500	38.10	4.276	108.61		
1.537	39.04	4.337	110.16		
1.547	39.29	4.400	111.76		
1.6250	41.21	4.431	112.55		
1.662	42.28	4.594	116.69		
1.679	42.65	4.600	116.84		
1.719	43.66	4.647	118.03		
1.787	45.39	4.651	118.14		
1.797	45.64	4.688	119.08		

## NOTES:

1. Dimensions are in inches.
2. Dimensions apply after plating.
3. Metric equivalents are given for general information only.

FIGURE 1. CONFIGURATIONS AND DIMENSIONS - CONTINUED.