

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

AS85049™/23

FEDERAL SUPPLY CLASS
5935

RATIONALE

ADD LIMITED USE OF TIN/ZINC FINISH PER THE COMMITTEE DECISION. EDITORIAL CORRECTIONS.

NOTICE

THE COMPLETE REQUIREMENTS FOR PROCURING THE PRODUCT DESCRIBED HEREIN SHALL CONSIST OF THIS DOCUMENT AND THE LATEST ISSUE OF AS85049.

MILITARY AND/OR GOVERNMENT AGENCIES LISTED HEREIN ARE THOSE OF THE UNITED STATES. FOR OTHER LOCATIONS, USERS OF THIS SPECIFICATION ARE ADVISED TO CONSULT THEIR LOCAL REGULATORY AUTHORITIES.

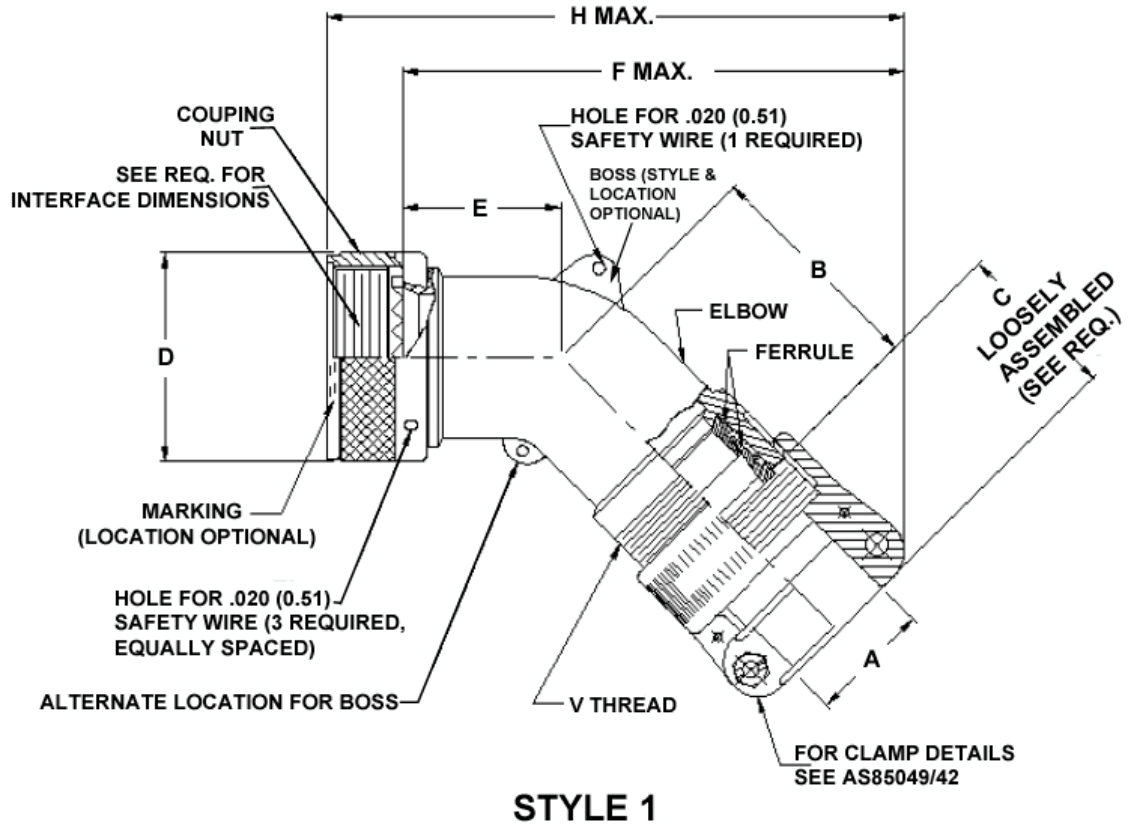
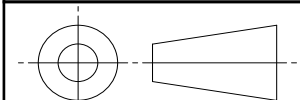


FIGURE 1 - ACCESSORY CONFIGURATION AND DIMENSIONS

For more information on this standard, visit
<https://www.sae.org/standards/content/AS85049/23C/>

THIRD ANGLE PROJECTION



CUSTODIAN: AE-8C1

PROCUREMENT SPECIFICATION: AS85049



AEROSPACE STANDARD

CONNECTOR ACCESSORIES, ELECTRICAL, BACKSHELL,
NONENVIRONMENTAL, 45°, SHIELD TERMINATION, CATEGORY 3A
(FOR AS50151 CRIMP, AS95234, MIL-DTL-26482 SERIES 2,
AS81703 SERIES 3, AND MIL-DTL-83723 SERIES III CONNECTORS)

AS85049™/23
SHEET 1 OF 9

REV.
C



Documents

Document Sharing Hub

Copyright © 2026 SAE International

All rights reserved. No part of this publication may be reproduced, stored in a retrieval system, transmitted, in any form or by any means, electronic, mechanical, photocopying, recording, or otherwise, or used for text and data mining, AI training, or similar technologies, without the prior written permission of SAE.

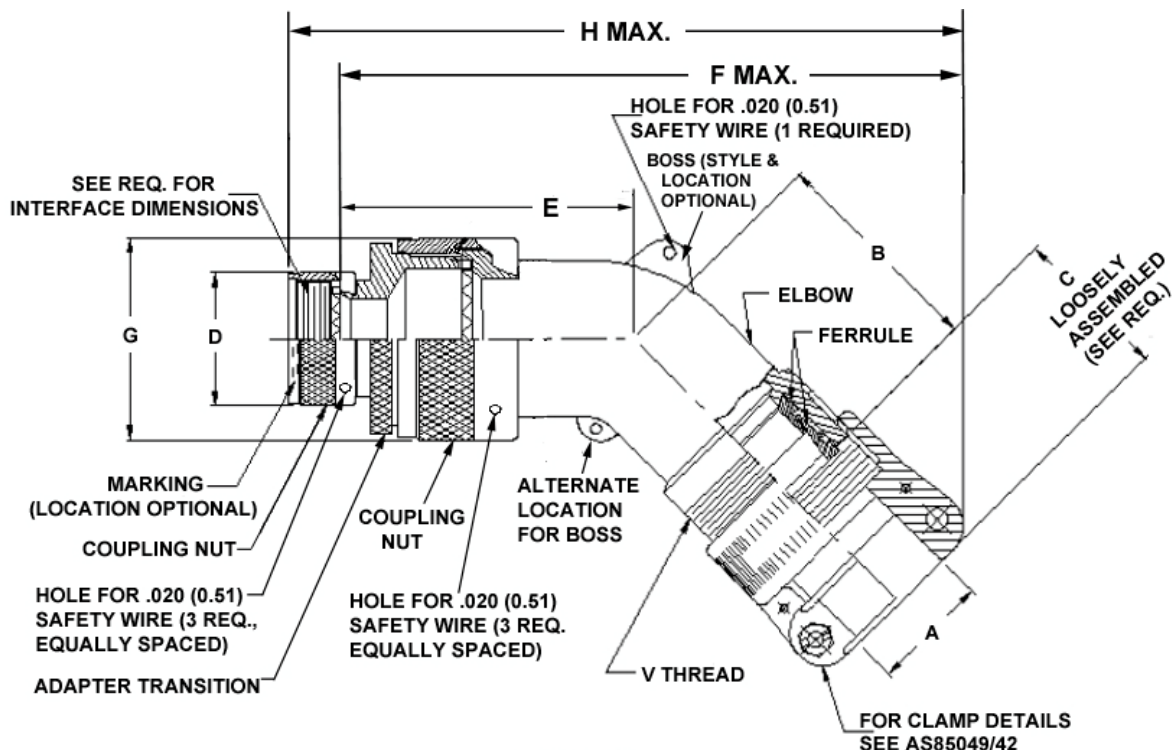
TO PLACE A DOCUMENT ORDER: Tel: 1-877-606-7323 (U.S. and Canada only)

Fax: 724-776-0790

Tel: 1-724-776-4970 (outside U.S. and Canada)

Email: CustomerService@sae.org

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



STYLE 2

FIGURE 1 - ACCESSORY CONFIGURATION AND DIMENSIONS (CONTINUED)

TABLE 1 - DIMENSIONS

DASH NO.	FITS SHELL OF CONNECTOR				CLAMP SIZE	A WIRE BUNDLE ACCOMMODATION RANGE (SEE REQ 1)		STYLE	B DIM $\pm .125 (\pm 3.2)$	C DIM (REF)	D DIA MAX
	AS81703 SERIES 3	MIL-DTL- 26482 SERIES 2	AS50151 CRIMP, AS95234	MIL-DTL- 83723 SERIES III		MIN	MAX				
1	3	--	--	--	4	.125 (3.2)	.250 (6.4)	1	1.790 (45.5)	1.027 (26.1)	.669 (17.0)
2	3	--	--	--	6	.250 (6.4)	.437 (11.1)	2	1.910 (48.5)	1.027 (26.1)	.669 (17.0)
3	--	8	8S	8	4	.125 (3.2)	.250 (6.4)	1	1.182 (30.0)	1.027 (26.1)	.617 (15.7)
4	--	10	10S, 10SL	10	4	.125 (3.2)	.312 (7.9)	1	1.850 (47.0)	1.027 (26.1)	.734 (18.6)
5	--	10	10S, 10SL	10	6	.250 (6.4)	.375 (9.5)	1	1.245 (31.6)	1.027 (26.1)	.734 (18.6)
6	7	12	12, 12S	12	4	.125 (3.2)	.312 (7.9)	1	1.910 (48.5)	1.027 (26.1)	.858 (21.8)
7	7	12	12, 12S	12	6	.250 (6.4)	.437 (11.1)	1	1.910 (48.5)	1.027 (26.1)	.858 (21.8)
8	7	12	12, 12S	12	10	.350 (8.9)	.500 (12.7)	1	1.910 (48.5)	1.027 (26.1)	.858 (21.8)
9	12	14	14, 14S	14	6	.250 (6.4)	.437 (11.1)	1	2.000 (50.8)	1.027 (26.1)	.984 (25.0)
10	12	14	14, 14S	14	10	.350 (8.9)	.575 (14.6)	1	1.655 (42.0)	1.027 (26.1)	.984 (25.0)
11	19	16	16, 16S	16	6	.250 (6.4)	.437 (11.1)	1	2.110 (53.6)	1.027 (26.1)	1.112 (28.2)
12	19	16	16, 16S	16	12	.500 (12.7)	.700 (17.8)	1	1.750 (44.5)	1.059 (26.9)	1.112 (28.2)
13	27	18	18	18	10	.350 (8.9)	.625 (15.9)	1	2.300 (58.4)	1.027 (26.1)	1.218 (30.9)
14	27	18	18	18	16	.625 (15.9)	.779 (19.8)	1	1.938 (49.2)	1.156 (29.4)	1.218 (30.9)



AEROSPACE STANDARD

CONNECTOR ACCESSORIES, ELECTRICAL, BACKSHELL,
NONENVIRONMENTAL, 45°, SHIELD TERMINATION, CATEGORY 3A
(FOR AS50151 CRIMP, AS95234, MIL-DTL-26482 SERIES 2,
AS81703 SERIES 3, AND MIL-DTL-83723 SERIES III CONNECTORS)

AS85049™/23
SHEET 2 OF 8

REV.



Documents

Document Sharing Hub

TABLE 1 - DIMENSIONS (CONTINUED)

DASH NO.	E DIM ±.125 (±3.2)	V THREAD CLASS 2A	F DIM MAX	G DIA MAX	H DIM MAX
1	.561 (14.2)	.625-24 UNEF	3.00 (76.2)	--	3.39 (86.1)
2	1.375 (34.9)	.750-20 UNEF	3.97 (100.8)	.858 (21.8)	4.36 (110.7)
3	.500 (12.7)	.625-24 UNEF	2.52 (64.0)	--	2.91 (73.9)
4	.561 (14.2)	.625-24 UNEF	3.05 (77.5)	--	3.44 (87.4)
5	.561 (14.2)	.750-20 UNEF	2.69 (68.3)	--	3.08 (78.2)
6	.625 (15.9)	.625-24 UNEF	3.16 (80.3)	--	3.55 (90.2)
7	.625 (15.9)	.750-20 UNEF	3.22 (81.8)	--	3.61 (91.7)
8	.625 (15.9)	1.000-20 UNEF	3.29 (83.6)	--	3.68 (93.5)
9	.688 (17.5)	.750-20 UNEF	3.35 (85.1)	--	3.74 (95.0)
10	.688 (17.5)	1.000-20 UNEF	3.17 (80.5)	--	3.56 (90.4)
11	.781 (19.8)	.750-20 UNEF	3.52 (89.4)	--	3.91 (99.3)
12	.781 (19.8)	1.187-18 UNEF	3.43 (87.1)	--	3.82 (97.0)
13	.968 (24.6)	1.000-20 UNEF	3.91 (99.3)	--	4.30 (109.2)
14	.968 (24.6)	1.437-18 UNEF	3.90 (99.1)	--	4.29 (109.0)

TABLE 1 - DIMENSIONS (CONTINUED)

DASH NO.	FITS SHELL OF CONNECTOR				CLAMP SIZE	A WIRE BUNDLE ACCOMMODATION RANGE (SEE REQ 1)		STYLE	B DIM ±.125 (±3.2)	C DIM (REF)	D DIA MAX
	AS81703 SERIES 3	MIL-DTL-26482 SERIES 2	AS50151 CRIMP, AS95234	MIL-DTL-83723 SERIES III		MIN	MAX				
15	37	20	20	20	10	.350 (8.9)	.625 (15.9)	1	2.300 (58.4)	1.027 (26.1)	1.345 (34.2)
16	37	20	20	20	16	.625 (15.9)	.904 (23.0)	1	1.938 (49.2)	1.156 (29.4)	1.345 (34.2)
17	--	22	22	22	12	.500 (12.7)	.750 (19.1)	1	2.450 (62.2)	1.059 (26.9)	1.468 (37.3)
18	--	22	22	22	20	.875 (22.2)	1.029 (26.1)	1	2.093 (53.2)	1.375 (34.9)	1.468 (37.3)
19	--	24	24	24	12	.500 (12.7)	.750 (19.1)	1	2.450 (62.2)	1.069 (27.2)	1.593 (40.5)
20	--	24	24	24	20	.875 (22.2)	1.144 (29.1)	1	2.093 (53.2)	1.375 (34.9)	1.593 (40.5)
21	--	--	28	--	16	.625 (15.9)	.937 (23.8)	1	2.500 (63.5)	1.156 (29.4)	1.969 (50.0)
22	--	--	28	--	24	1.000 (25.4)	1.375 (34.9)	1	2.156 (54.8)	1.500 (38.1)	1.969 (50.0)
23	--	--	32	--	16	.625 (15.9)	.937 (23.8)	1	2.600 (66.0)	1.156 (29.4)	2.219 (56.4)
24	--	--	32	--	20	.875 (22.2)	1.250 (31.8)	1	2.600 (66.0)	1.375 (34.9)	2.219 (56.4)
25	--	--	32	--	28	1.250 (31.8)	1.625 (41.3)	1	2.250 (57.2)	1.781 (45.2)	2.219 (56.4)
26	--	--	36	--	16	.625 (15.9)	.937 (23.8)	1	2.690 (68.3)	1.156 (29.4)	2.469 (62.7)
27	--	--	36	--	24	1.000 (25.4)	1.375 (34.9)	1	2.690 (68.3)	1.500 (38.1)	2.469 (62.7)
28	--	--	36	--	32	1.437 (36.5)	1.840 (46.7)	1	2.344 (59.5)	1.830 (46.5)	2.469 (62.7)

