

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

AS85049™/30

FEDERAL SUPPLY CLASS
5935

RATIONALE

REVISION IS REQUIRED TO CORRECT REQUIREMENT #4 REFERENCE FROM MS27741 TO AS85049/148, TO CORRECT THE FINISH RESTRICTION WORDING, AND TO UPDATE DOCUMENT FORMAT TO LATEST SAE GUIDELINES.

NOTICE

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

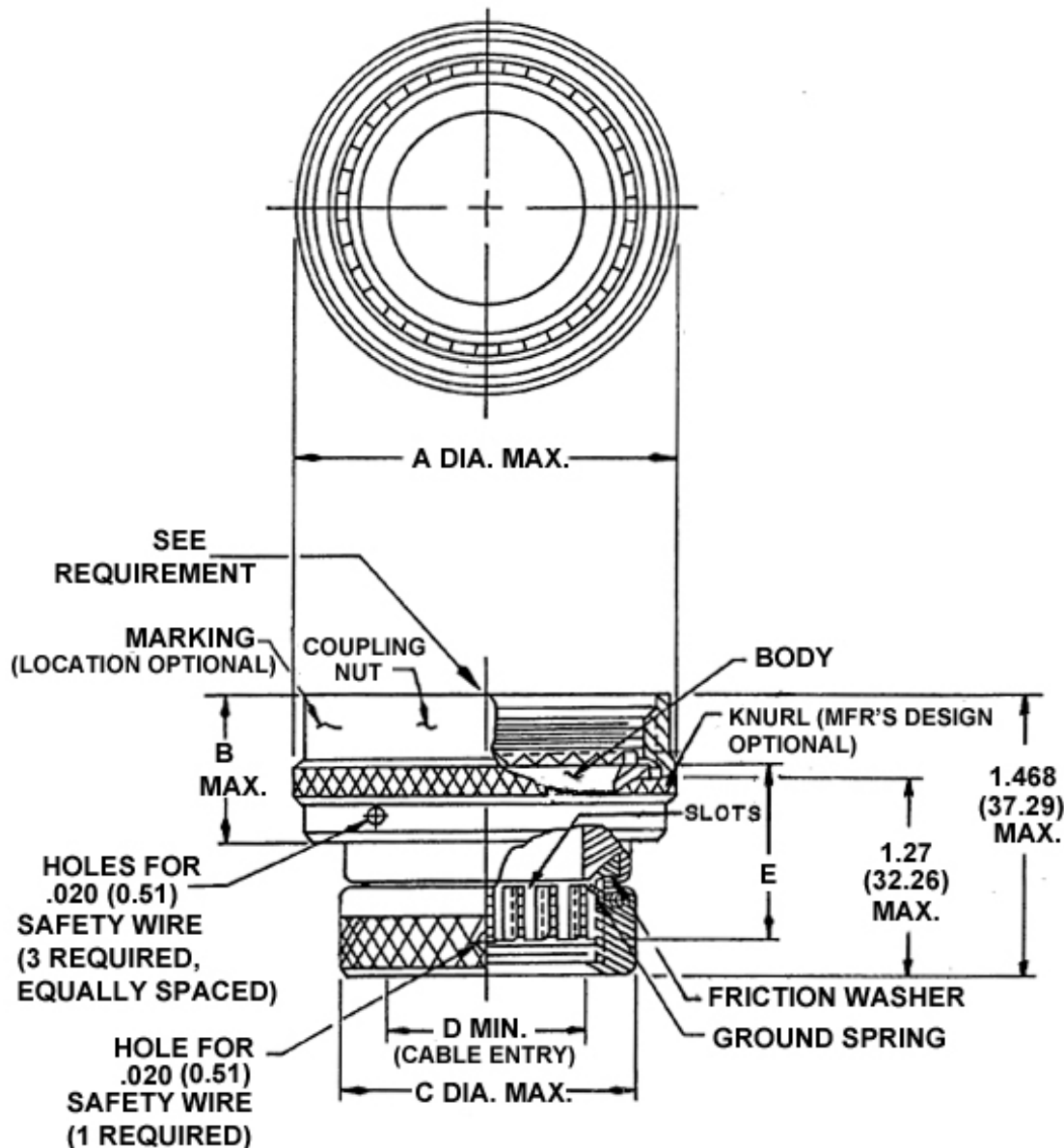
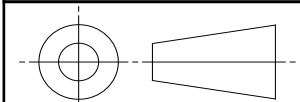


FIGURE 1 - DIMENSIONS AND CONFIGURATION

For more information on this standard, visit

<https://www.sae.org/standards/content/AS85049/30B/>

THIRD ANGLE PROJECTION



CUSTODIAN: AE-8C1

PROCUREMENT SPECIFICATION: AS85049



AEROSPACE STANDARD

(R) CONNECTOR ACCESSORIES, ELECTRICAL, BACKSHELL,
NONENVIRONMENTAL, STRAIGHT, INDIVIDUAL SHIELDED
WIRE TERMINATION, CATEGORY 3B
(FOR MIL-DTL-38999 SERIES I AND II CONNECTORS)

AS85049™/30
SHEET 1 OF 3

REV.
B

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>

TABLE 1 - DASH NUMBERS AND DIMENSIONS

DASH NO.	FITS CONNECTOR SHELL SIZE		A DIA. MAX.	B MAX.	C DIA. MAX.	D MIN CABLE ENTRY	E ±.060 (1.52)	NO. OF SLOTS
	SERIES II	SERIES I						
08	8	9	.75 (19.1)	.54 (13.7)	.55 (14.0)	.250 (6.4)	1.00 (25.4)	3
10	10	11	.85 (21.6)	.54 (13.7)	.67 (17.0)	.375 (9.5)	1.00 (25.4)	4
12	12	13	1.00 (25.4)	.54 (13.7)	.80 (20.3)	.500 (12.7)	1.00 (25.4)	6
14	14	15	1.10 (27.9)	.54 (13.7)	.92 (23.4)	.625 (15.9)	1.00 (25.4)	8
16	16	17	1.25 (31.8)	.54 (13.7)	1.05 (26.7)	.750 (19.1)	1.00 (25.4)	10
18	18	19	1.40 (35.6)	.54 (13.7)	1.17 (29.7)	.844 (21.4)	1.00 (25.4)	10
20	20	21	1.50 (38.1)	.54 (13.7)	1.30 (33.0)	.970 (24.6)	1.00 (25.4)	12
22	22	23	1.65 (41.9)	.54 (13.7)	1.42 (36.1)	1.094 (27.8)	1.00 (25.4)	15
24	24	25	1.75 (44.5)	.54 (13.7)	1.67 (42.4)	1.219 (31.0)	1.00 (25.4)	15

REQUIREMENTS: ALL REQUIREMENTS SHALL CONSIST OF THIS SPECIFICATION AND THE LATEST ISSUE OF AS85049.

1. DESIGN AND CONSTRUCTION:

ACCESSORIES SHALL BE DESIGNED IN ACCORDANCE WITH FIGURE 1 AND TABLE 1. DIMENSIONS ARE IN INCHES AND APPLY AFTER PLATING. METRIC EQUIVALENTS ARE IN PARENTHESIS, ARE GIVEN FOR GENERAL INFORMATION ONLY AND ARE BASED UPON 1 INCH = 25.4 MILLIMETERS.

2. INTERFACE DIMENSIONS SHALL BE IN ACCORDANCE WITH AS85049, FIGURE 2.

3. THE ACCESSORY SHALL CONSIST OF A COUPLING NUT AND BODY, WITH PROVISIONS TO TERMINATE INDIVIDUAL SHIELDS PER AS85049/148.

4. THE COUPLING NUT SHALL BE CAPTIVATED TO THE BODY AND FREE TO ROTATE.

5. ASSEMBLY INSTRUCTIONS: SIMPLIFIED ASSEMBLY INSTRUCTIONS SHALL BE PACKAGED WITH EACH ACCESSORY.

6. MATERIAL AND FINISH: ADAPTER BODY AND COUPLING NUT ALUMINUM ALLOY IN ACCORDANCE WITH TABLE 2. GROUND SPRING: COPPER ALLOY, GOLD PLATED, FRICTION WASHER: TEFLON.

TABLE 2 - MATERIAL AND FINISH

COMPONENT	MATERIAL	FINISH
ADAPTER BODY AND COUPLING NUT	ALUMINUM ALLOY IN ACCORDANCE WITH AS85049	N <u>1</u> / W <u>2</u> / X, Z <u>2</u> /

1 / N FINISH NOT RECOMMENDED FOR USE IN APPLICATIONS THAT MAY BE SUSCEPTIBLE TO SALT WATER CORROSION.

2 / W AND Z FINISHES NOT RECOMMENDED FOR USE IN APPLICATIONS THAT MAY BE SUSCEPTIBLE TO OUT GASSING (ALSO SEE SPECIFICATION NOTES).

7. PART OR IDENTIFYING NUMBER (PIN):

EXAMPLE:



	AEROSPACE STANDARD	AS85049™/30 SHEET 2 OF 3	REV. B
	(R) CONNECTOR ACCESSORIES, ELECTRICAL, BACKSHELL, NONENVIRONMENTAL, STRAIGHT, INDIVIDUAL SHIELDED WIRE TERMINATION, CATEGORY 3B (FOR MIL-DTL-38999 SERIES I AND II CONNECTORS)		



Documents

Document Sharing Hub