

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.
C

AS85049™/56

FEDERAL SUPPLY CLASS
5935

RATIONALE

LIMITED SCOPE REVISION IS REQUIRED TO CLARIFY THE SAFETY WIRE HOLE REQUIREMENTS IN FIGURE 1.

NOTICE

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

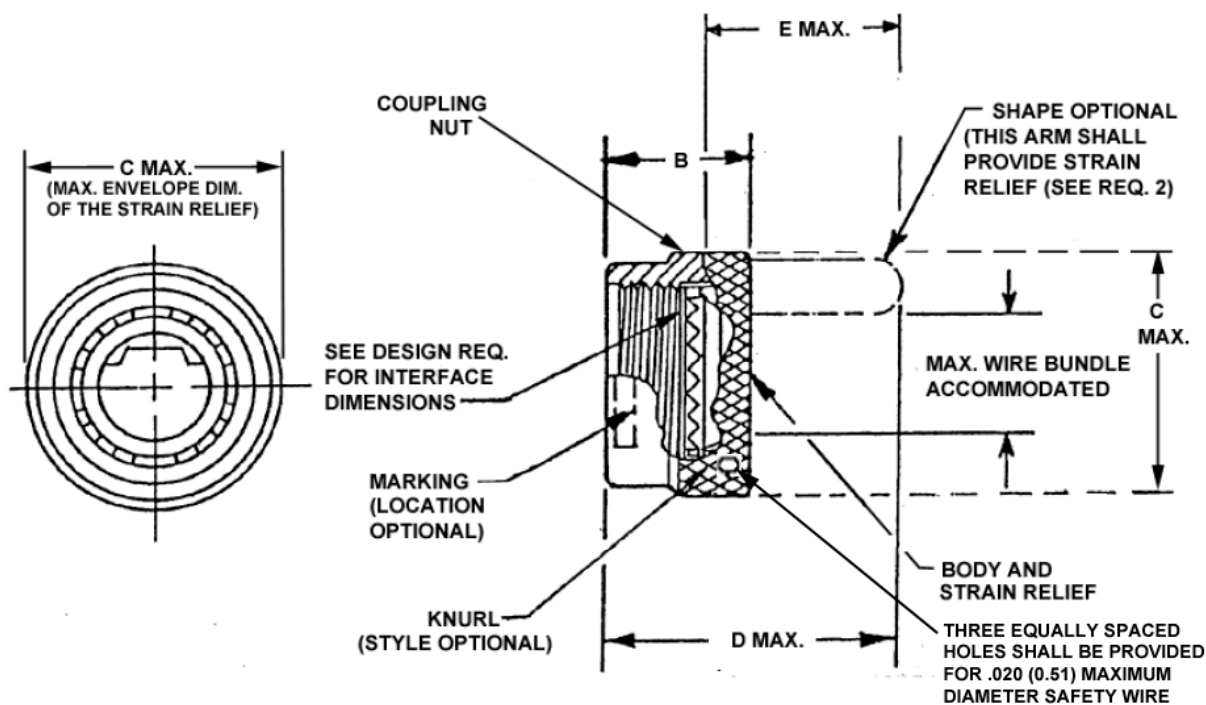
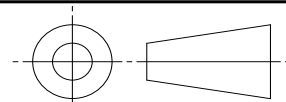


FIGURE 1 - ACCESSORY DIMENSIONS AND CONFIGURATION

SAE values your input. To provide feedback
on this Technical Report, please visit
<http://standards.sae.org/AS85049/56C>

THIRD ANGLE PROJECTION



CUSTODIAN: AE-8C1

PROCUREMENT SPECIFICATION: AS85049



AEROSPACE STANDARD

CONNECTOR ACCESSORIES, ELECTRICAL,
STRAINRELIEF, STRAIGHT, CATEGORY 4C
(MIL-DTL-38999 SERIES I AND II CONNECTORS)

AS85049™/56
SHEET 1 OF 3

REV.
C

Copyright © 2019 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 - SHELL SIZE AND DIMENSIONS

DASH NUMBER	SHELL SIZE		B MAX	C DIA. MAX	D MAX	MAXIMUM WIRE BUNDLE ACCOMMODATED	E MAX
	SERIES II	SERIES I					
8	8	9	.54 (13.72)	.86 (21.84)	1.09 (27.69)	.264 (6.71)	.90 (22.86)
10	10	11	.54 (13.72)	.98 (24.89)	1.09 (27.69)	.392 (9.96)	.90 (22.86)
12	12	13	.54 (13.72)	1.16 (29.46)	1.15 (29.21)	.506 (12.85)	.96 (24.38)
14	14	15	.54 (13.72)	1.28 (32.51)	1.33 (33.78)	.631 (16.03)	1.14 (28.96)
16	16	17	.54 (13.72)	1.41 (35.81)	1.33 (33.78)	.756 (19.20)	1.14 (28.96)
18	18	19	.54 (13.72)	1.52 (38.61)	1.39 (35.31)	.844 (21.44)	1.20 (30.48)
20	20	21	.54 (13.72)	1.64 (41.66)	1.52 (38.61)	.970 (24.64)	1.33 (33.78)
22	22	23	.54 (13.72)	1.77 (44.96)	1.64 (41.66)	1.094 (27.79)	1.45 (36.83)
24	24	25	.54 (13.72)	1.89 (48.01)	1.78 (45.21)	1.219 (30.96)	1.59 (40.39)

REQUIREMENTS: ALL REQUIREMENTS SHALL CONSIST OF THIS DOCUMENT 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. UNLESS OTHERWISE SPECIFIED, TOLERANCES SHALL BE: .XX = ± 0.03 AND .XXX = ± 0.015 ANGULAR TOLERANCES X = ± 2 . METRIC EQUIVALENTS ARE IN PARENTHESES, ARE GIVEN FOR GENERAL INFORMATION ONLY AND ARE BASED UPON 1 INCH = 25.4 MM.

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

COMPLETE STRAIN RELIEF UNIT CONSISTS OF COUPLING NUT AND BODY WITH STRAIN RELIEF ARM. THE COUPLING NUT SHALL BE CAPTIVATED TO THE BODY AND SHALL BE FREE TO ROTATE.

NO PART OF THE STRAIN RELIEF ARM SHALL EXTEND BEYOND THE C MAXIMUM DIMENSION.

C MAX IS THE MAXIMUM ENVELOPE DIMENSIONS OF THE STRAIN RELIEF.

- THE STRAIN RELIEF UNIT IS USED WITH MS3367-1-X PLASTIC STRAP (SEE NOTE 1) QUALIFIED IN ACCORDANCE WITH AS23190, A-A-52080 THRU 52084 LACING TAPE, OR EQUIVALENT, NOT SUPPLIED WITH THE CONNECTOR ACCESSORY.
- THIS ACCESSORY WILL NOT ACCOMMODATE CONNECTORS USING 8, 4, AND 0 CONTACTS.
- MATERIAL AND FINISH: SEE TABLE 2.

TABLE 2 - MATERIAL AND FINISH

FIGURE	MATERIAL	FINISH
COUPLING NUT AND BODY	ALUMINUM ALLOY IN ACCORDANCE WITH AS85049	A, N <u>1</u> /, W <u>2</u> /, X, Z <u>2</u> /
TIE MOUNT	POLYAMIDE (OPTIONAL)	NONE
FASTENER	STAINLESS STEEL (OPTIONAL)	NONE

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

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

	AEROSPACE STANDARD	AS85049™/56 SHEET 2 OF 3	REV. C
	CONNECTOR ACCESSORIES, ELECTRICAL, STRAINRELIEF, STRAIGHT, CATEGORY 4C (MIL-DTL-38999 SERIES I AND II CONNECTORS)		



Documents

Document Sharing Hub