

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.

AS85049/36

FEDERAL SUPPLY CLASS
5935

NOTICE

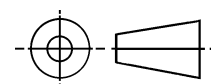
THIS DOCUMENT HAS BEEN TAKEN DIRECTLY FROM U.S. MILITARY SPECIFICATION MIL-C-85049/36, NOTICE 1 AND CONTAINS ONLY MINOR EDITORIAL AND FORMAT CHANGES REQUIRED TO BRING IT INTO CONFORMANCE WITH THE PUBLISHING REQUIREMENTS OF SAE TECHNICAL STANDARDS. THE INITIAL RELEASE OF THIS DOCUMENT IS INTENDED TO REPLACE MIL-C-85049/36, NOTICE 1. 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 as85049-36

THIRD ANGLE PROJECTION



ISSUED 2000-05

PREPARED BY SAE SUBCOMMITTEE AE-8C1

SAE The Engineering Society
For Advancing Mobility
INTERNATIONAL
Land Sea Air and Space®
400 Commonwealth Drive, Warrendale, PA 15096-0001

AEROSPACE STANDARD

CONNECTOR ACCESSORIES, ELECTRICAL,
BACKSHELL, NONENVIRONMENTAL, STRAIGHT, SHIELD
TERMINATION, CATEGORY 3B (FOR MIL-C-27599 SERIES I AND
MIL-C-38999 SERIES I AND II CONNECTORS)

AS85049/36
SHEET 1 OF 4

Copyright 2000 Society of Automotive Engineers, Inc.

All rights reserved.

TO PLACE A DOCUMENT ORDER: (724) 776-4970

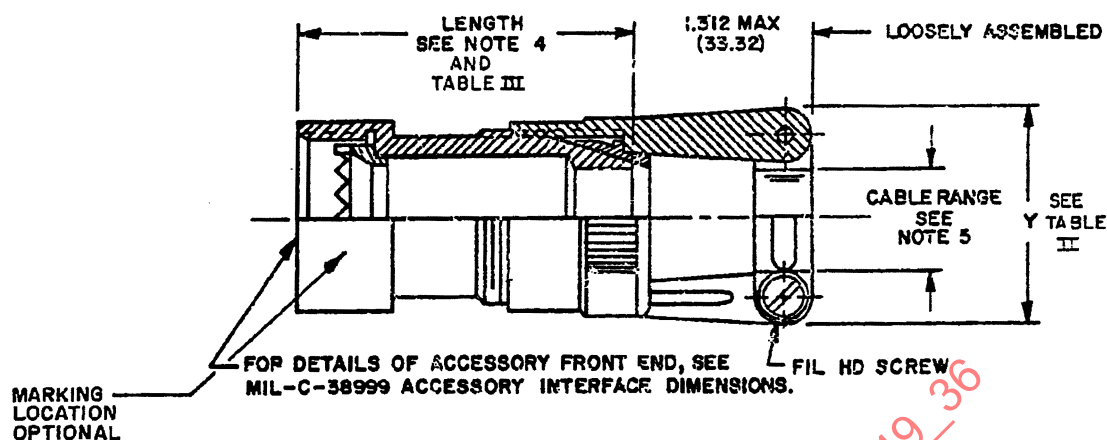
FAX: (724) 776-0790

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

Printed in the U.S.A.

THE COMPLETE REQUIREMENTS FOR PROCURING THE BACKSHELLS DESCRIBED HEREIN SHALL CONSIST OF THIS DOCUMENT AND THE LATEST ISSUE OF SPECIFICATION MIL-C-85049.

AS85049/36



NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for general information only and are based upon 1.00 inch = 25.4 mm.
3. Metric equivalents are in parentheses.
4. Standard minimum length is 1.5 inch \pm .032 (38 \pm .81 mm). See table III for longer lengths.
5. See table I for minimum and maximum clamp size available with each accessory shell size. See table II for cable range for each clamp size.

FIGURE 1. CONFIGURATIONS AND DIMENSIONS.

TABLE I. ACCESSORY SHELL SIZE, CONNECTOR SHELL SIZE AND CLAMP SIZE.

Accessory shell size	Connector shell size		Min clamp size	Max clamp size
	Series II	Series I		
08	8	9	01	02
10	10	11	01	03
12	12	13	02	04
14	14	15	02	05
16	16	17	02	06
18	18	19	03	07
20	20	21	03	08
22	22	23	03	09
24	24	25	04	10

TABLE II. CLAMP SIZE AND DIMENSIONS.

CLAMP SIZE	CABLE RANGE		Y NTM MAX
	MIN	MAX	
01	.062 (1.57)	.125 (3.18)	.781 (19.84)
02	.125 (3.18)	.250 (6.35)	.969 (24.61)
03	.250 (6.35)	.375 (9.52)	1.062 (26.97)
04	.312 (7.92)	.500 (12.70)	1.156 (29.36)
05	.437 (11.10)	.625 (15.88)	1.250 (31.75)
06	.562 (14.27)	.750 (19.05)	1.375 (34.92)
07	.687 (17.45)	.875 (22.22)	1.500 (38.10)
08	.812 (20.62)	1.000 (25.40)	1.625 (41.28)
09	.937 (23.80)	1.125 (28.58)	1.750 (44.45)
10	1.062 (26.97)	1.250 (31.75)	1.875 (47.62)

TABLE III. LENGTH.

Accessory shell size	Code	Length in inches $\pm .032$
08 thru 24	Standard	1.5 (38.1)
08 thru 24	A	2.5 (63.5)
14 thru 24	B	3.5 (88.9)
20 thru 24	C	4.5 (114.3)