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

RATIONALE

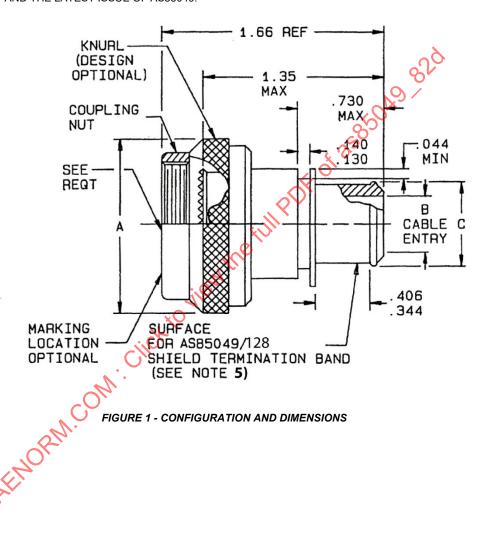
FEDERAL SUPPLY CLASS 5935

REVISION IS REQUIRED TO ADD AN APPLICATION NOTE THAT READS -- "THIS CONNECTOR ACCESSORY IS ONLY INTENDED FOR USE WITH THE M85049/128 BAND FOR SHIELD TERMINATION. OTHER SHIELD TERMINATION DEVICES ARE NOT RECOMMENDED FOR USE AND MAY RESULT IN REDUCED PERFORMANCE", TO CORRECT THE METRIC EQUIVALENT ERRORS IN TABLE 1 FOR SHELL SIZE 61 AND TO UPDATE THE TABLE 2 FOOTNOTES TO THE LATEST SAE APPROVED WORDING.

AS85049/82D HAS BEEN REAFFIRMED TO COMPLY WITH THE SAE FIVE-YEAR REVIEW POLICY.

NOTICE

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



For more information on this standard, visit https://www.sae.org/standards/content/AS85049/82D THIRD ANGLE PROJECTION

CUSTODIAN: AE-8C1

PROCUREMENT SPECIFICATION: AS85049



AEROSPACE STANDARD

CONNECTOR ACCESSORIES, ELECTRICAL, BACKSHELL, STRAIGHT, SELF-LOCKING, SHIELD BAND TERMINATION (RFI/EMI), SHRINK SLEEVE ACCOMMODATION, CATEGORY 3B (FOR AS50151 CRIMP, MIL-DTL-26482 SERIES 2, AS81703 SERIES 3 AND MIL-DTL-83723 SERIES III CONNECTORS

AS85049™/82 SHEET 1 OF 4

REV. D

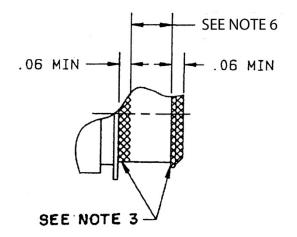
REAFFIRMED 2025-03

REVISED 2019-08

2000-06

SSUED

Copyright © 2025 SAE International



INCH	MM
.044	1.12
.130	3.30
.140	3.56
.250	6.35
.312	7.92
.395	10.03
.438	11.13
.457	11.61

INCH	MM	INCH	MM
.500	12.70	.750	19.05
.562	14.27	.770	19.56
.583	14.81	.812	20.62
.625	15.88	.829	21.06
.660	16.76	.875	22.22
.684	17.37	.885	22.48
.707	17.96	.895	22.73
.730	18.54	.938	23.83

INCH	MM
.957	24.30
1.000	25.40
1.010	25.65
1.020	25.91
1.083	27.51
1.125	28.58
1.135	28.83
1.145	29.08

	INCH	MM
	1.190	30.23
	1,260	32.00
	1.270	32.26
5	7.385	35.18
	1.510	38.35
	1.635	41.53
	1.750	44.45
	1.885	47.88
	2.135	54.23

FIGURE 2 - SELECTIVE PLATING

NOTES:

- 1. DIMENSIONS ARE IN INCHES AND APPLY AFTER PLATING.
- 2. METRIC EQUIVALENTS ARE GIVEN FOR GENERAL INFORMATION ONLY AND ARE BASED UPON 1.00 INCH = 25.4 MM.
- CADMIUM, ZINC NICKEL OR PURE DENSE ELECTRODEPOSITED ALUMINUM/NICKEL INTERFACE SHALL BE COATED WITH POLYSULFIDE SEALANT.
- 4. PART SUPPLIED WITH STANDARD DETENTED SELF-LOCKING WHICH PROVIDES A POSITIVE AUDIBLE DETENTED COUPLING. OPTION 'N' IS A FREE SPINNING SELF-LOCKING COUPLING.
- 5. RIBBED, INTERNAL KNURL OR SURFACE ROUGHNESS Ra 125-250 IN ACCORDANCE WITH ANSI 846.1. SEE FIGURE 2 FOR SELECTIVE PLATING DETAIL.
- 6. AREA FREE OF CADMIUM, ZINC NICKEL OR PURE DENSE ELECTRODEPOSITED ALUMINUM, AS APPLICABLE.



TABLE 1 - SHELL SIZE AND DIMENSIONS

		FOR CO	NNECTOR			В	DIA			
		SHE	LL SIZE			±.	010	C DIA		
		(F	REF)			ENTR	Y SIZE	REF		
ACCESSORY		MIL-DTL-	AS50151	MIL-DTL-	Α					
SHELL	AS81703	26482	CRIMP	83723	MAX	02	03	02	03	
SIZE	SERIES 3	SERIES 2	CINIVIE	SERIES III	DIA					
08		8	8S	8	.885 (22.48)	N/A	.250 (6.35)	N/A	.395 (10.03)	
10		10	10S,10SL	10	1.010 (25.65)	N/A	.312 (7.92)	N/A	.457 (11.61)	
12	7	12	12S AND 12	12	1.135 (28.83)	.312 (7.92)	.438 (11.13)	.457 (11.61)	.583 (14.81)	
14	12	14	14S AND 14	14	1.260 (32.00)	.438 (11.13)	.562 (14.27)	.583 (14.81)	.707 (17.96)	
16	19	16	16S AND 16	16	1.385 (35.18)	.500 (12.70)	.625 (15.88)	.645 (16.38)	.770 (19.56)	
18	27	18	18	18	1.510 (38.35)	.625 (15.88)	.750 (19.05)	.770 (19.56)	.895 (22.73)	
20	37	20	20	20	1.635 (41.53)	.625 (15.88)	.812 (20.62)	.770 (19.56)	.957 (24.31)	
22		22	22	22	1.760 (44.70)	.688 (17.48)	.938 (23.83)	.829 (21.06)	1.083 (27.51)	
24		24	24	24	1.885 (47.88)	.750 (19.05)	1.000 (25.40)	.895 (22.73)	1.145 (29.08)	
28			28	-	2.135 (54.23)	.875 (22.23)	1.125 (28.58)	1.020 (25.91)	1.270 (32.26)	
61	61				1.95 (49.53)	.750 (19.05)	1.000 (25.40)	.895 (22.73)	1.145 (29.08)	

	28			28		2.135	(54.23)	.875 ((22.23)	1.125	(28.58)	1.020 (2	<u> 25</u>
	61	61				1.95	(49.53)	.750	(19.05)	1.000	(25.40)	.895 (2	2.
REQ	JIREMENTS:										0	31	
DESI	GN AND CONS	TRUCTION	:							(OAS		
DIME	DESIGN AND CONSTRUCTION: DIMENSIONS AND CONFIGURATION: SEE FIGURES 1 AND 2, AND TABLE 1. INTERFACE DIMENSIONS: SHALL CONFORM TO AS85049.												
INTE	INTERFACE DIMENSIONS: SHALL CONFORM TO AS85049.												
COU	PLING NUT: SH	IALL BE CA	PTIVATED	TO THE ADA	PTER BODY	AND F	ROTATE	ABLE	<i>,</i>				
MATE	ERIAL AND FIN	ISH: IN AC	CORDANCE	WITH AS850	49 AND TAE	BLE 2 F	IEREIN.	$\langle \rangle$) *				
				7.	ABLE 2 - MA	ATERIA	AL AND	FINISI	н				
							0		-				
FINISH									MA	TERIA	L		٦
			1/ N-ELECTROLESS NICKEL										٦
		ELE	2/ P-CADMIUM OLIVE DRAB OVER ELECTROLESS NICKEL (SELECTIVE PLATING, SEE FIGURE 2)										
		AL	YP-PURE DENSE ELECTRODEPOSITED ALUMINUM OVER ELECTROLESS NICKEL (SELECTIVE PLATING, SEE FIGURE 2)				ALI	JMINL		OY IN <i>A</i> I AS850		DANCE	
			2/ W-CADMIUM OLIVE DRAB X-NICKEL FLUOROCARBON POLYMER										
)											
			2 Z-ZINC NICKEL										
			2/ ZP- ZINC NICKEL OVER ELECTROLESS NICKEL (SELECTIVE PLATING, SEE FIGURE 2)										

1/ N FINISH NOT RECOMMENDED FOR USE IN APPLICATIONS THAT MAY BE SUSCEPTIBLE TO SALT WATER CORROSION. 2/ P, W. AND ZP FINISH NOT RECOMMENDED FOR USE IN APPLICATIONS THAT MAY BE SUSCEPTIBLE TO OUT GASSING (ALSO SEE SPECIFICATION NOTES).

