

REV.
D

AS85049™/84

FEDERAL SUPPLY CLASS
5935

RATIONALE

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".

NOTICE

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

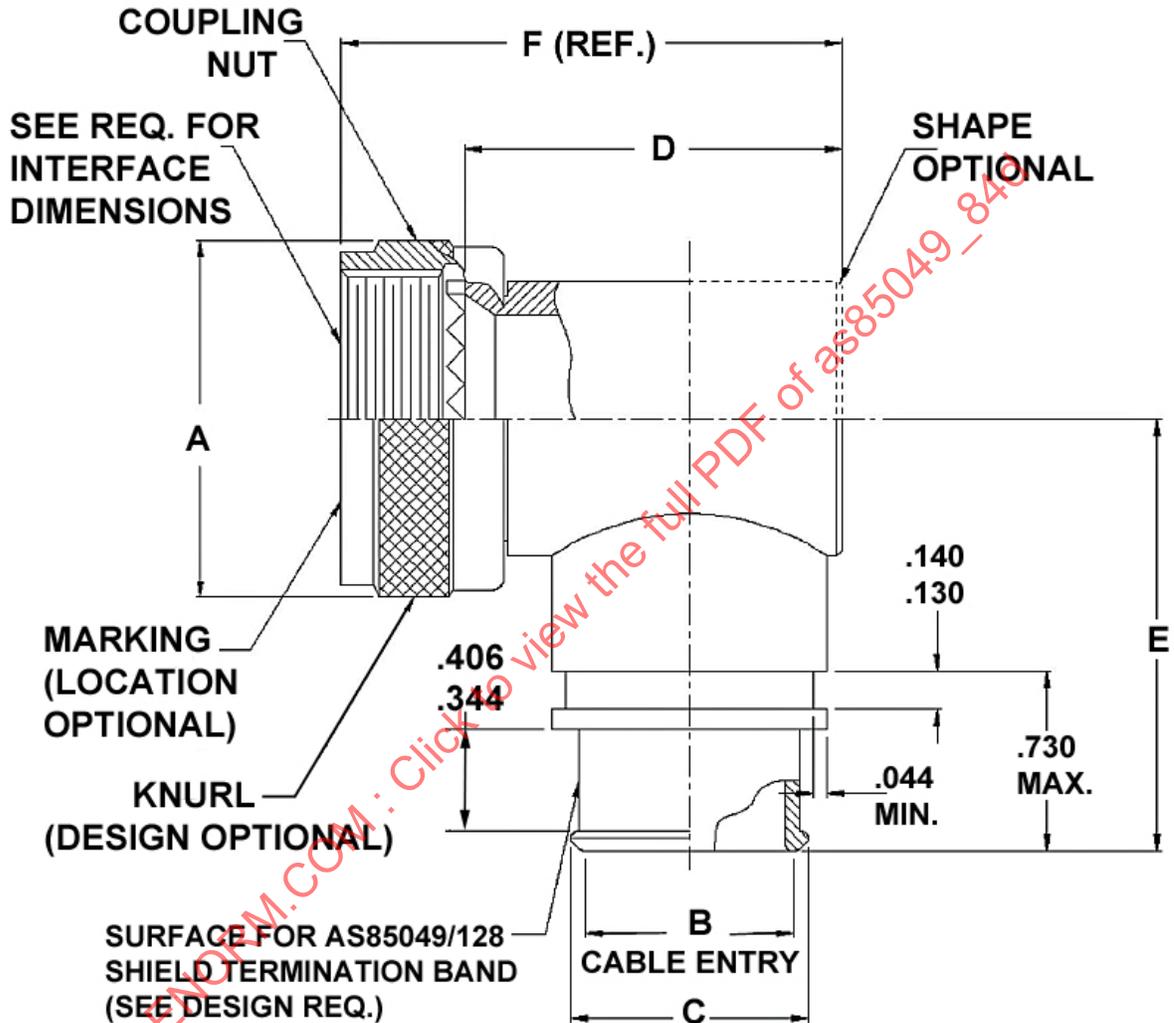
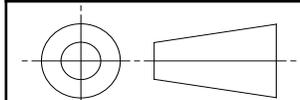


FIGURE 1 - ACCESSORY CONFIGURATION AND DIMENSIONS

For more information on this standard, visit
<https://www.sae.org/standards/content/AS85049/84D>

THIRD ANGLE PROJECTION



CUSTODIAN: AE-8C1

PROCUREMENT SPECIFICATION: AS85049



AEROSPACE STANDARD

CONNECTOR ACCESSORIES, ELECTRICAL, BACKSHELL, 90°, SELF-LOCKING, SHIELD BAND TERMINATION (RFI/EMI), SHRINK SLEEVE ACCOMMODATION, CATEGORY 3B (FOR AS50151 CRIMP, AS95234, MIL-DTL-26482 SERIES 2, AS81703 SERIES 3, AND MIL-DTL-83723 SERIES III CONNECTORS)

AS85049™/84
SHEET 1 OF 4

REV.
D

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.

ISSUED 2000-06 REVISED 2019-08 REAFFIRMED 2021-05

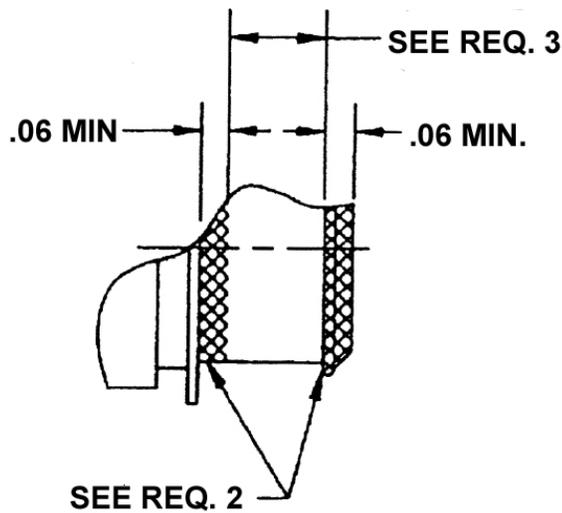


FIGURE 2 - SELECTIVE PLATING

TABLE 1 - FIGURES 1 AND 2 METRIC EQUIVALENTS

INCHES	MILLIMETERS	INCHES	MILLIMETERS
.044	1.12	.344	8.74
.06	1.52	.406	10.31
.130	3.30	.730	18.54
.140	3.56		

TABLE 2 - SHELL SIZE AND DIMENSIONS

ACCESSORY SHELL SIZE	FOR CONNECTOR SHELL SIZE (REF)				A MAX DIA	B DIA ±.010 ENTRY SIZE		C DIA (REF)	
	AS81703 SERIES 3	MIL-DTL-26482 SERIES 2	AS50151 CRIMP AS95234	MIL-DTL-83723 SERIES III		02	03	02	03
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)

TABLE 2 - SHELL SIZE AND DIMENSIONS (CONTINUED)

ACCESSORY SHELL SIZE	FOR CONNECTOR SHELL SIZE (REF)				D MAX DIA	E MAX DIA	F (REF) DIM
	AS81703 SERIES 3	MIL-DTL-26482 SERIES 2	AS50151 CRIMP AS95234	MIL-DTL-83723 SERIES III			
08	---	8	8S	8	1.188 (30.18)	1.417 (35.99)	1.497 (38.02)
10	---	10	10S,10SL	10	1.281 (32.54)	1.480 (37.59)	1.590 (40.39)
12	7	12	12S AND 12	12	1.406 (35.71)	1.542 (39.17)	1.715 (43.56)
14	12	14	14S AND 14	14	1.531 (38.89)	1.605 (40.77)	1.840 (46.74)
16	19	16	16S AND 16	16	1.656 (42.06)	1.667 (42.34)	1.965 (49.91)
18	27	18	18	18	1.718 (43.64)	1.730 (43.94)	2.027 (51.49)
20	37	20	20	20	1.844 (46.84)	1.792 (45.52)	2.153 (54.69)
22	---	22	22	22	1.938 (49.23)	1.850 (46.99)	2.247 (57.07)
24	---	24	24	24	2.093 (53.16)	1.917 (48.69)	2.402 (61.01)
28	---	---	28	---	2.531 (64.29)	2.042 (51.87)	3.002 (76.25)

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 FIGURES 1 AND 2 AND TABLE 2. DIMENSIONS ARE IN INCHES AND APPLY AFTER PLATING. METRIC EQUIVALENTS ARE IN PARENTHESES, ARE GIVEN FOR GENERAL INFORMATION ONLY AND ARE BASED UPON 1 INCH = 25.4 MM.

RIBBED, INTERNAL KNURL, OR SURFACE ROUGHNESS Ra 125 TO 250 IN ACCORDANCE WITH ANSI B46.1. SEE FIGURE 2 FOR SELECTIVE PLATING DETAILS.

INTERFACE DIMENSIONS: SHALL CONFORM TO AS85049, FIGURE 4 OR 4A.

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

2. CADMIUM, ZINC NICKEL, OR PURE DENSE ELECTRODEPOSITED ALUMINUM/NICKEL INTERFACE SHALL BE COATED WITH POLYSULFIDE SEALANT.
3. AREA FREE OF CADMIUM, ZINC NICKEL, OR PURE DENSE ELECTRODEPOSITED ALUMINUM, AS APPLICABLE.
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. MATERIAL AND FINISH: IN ACCORDANCE WITH AS85049 AND TABLE 3 HEREIN.