

REV.
D

AS85049™/85

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".

AS85049/85D 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.

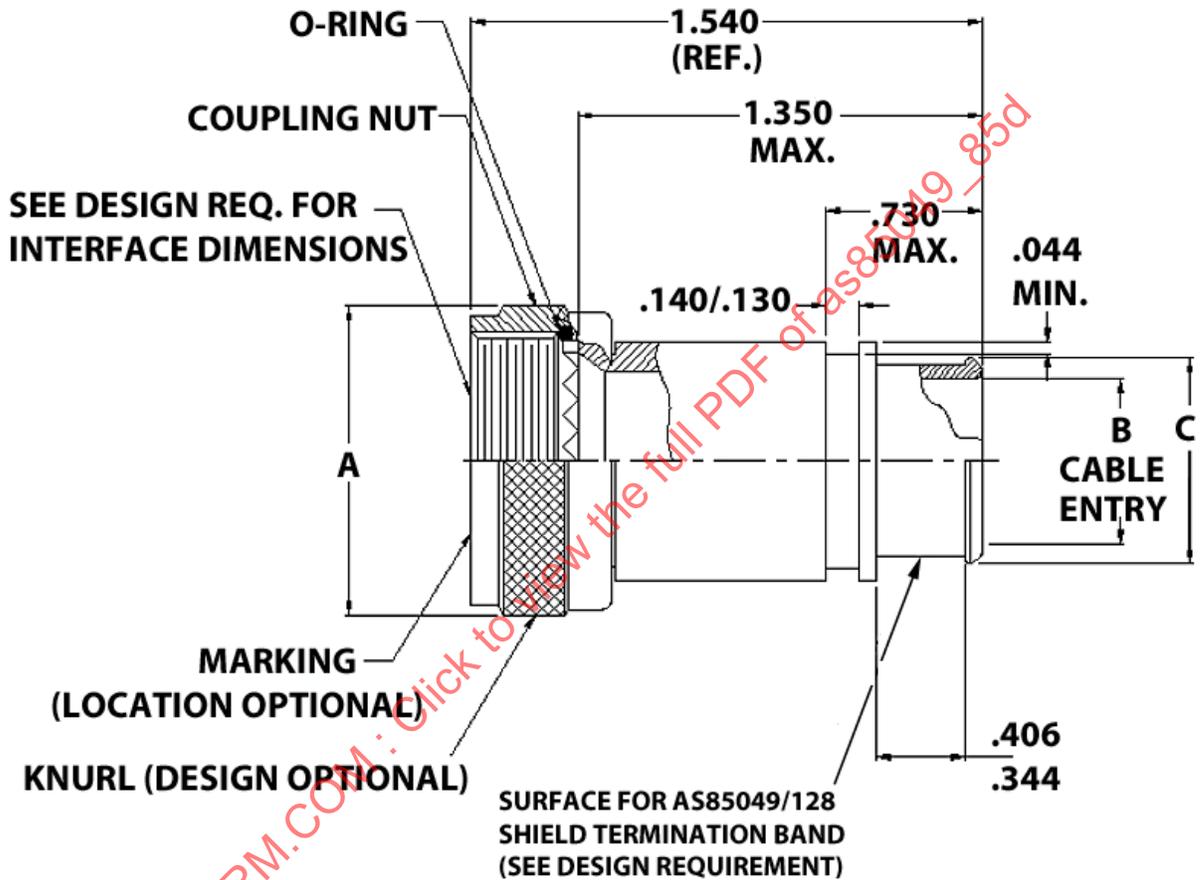
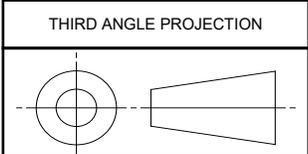


FIGURE 1 - ACCESSORY CONFIGURATION AND DIMENSIONS

For more information on this standard, visit <https://www.sae.org/standards/content/AS85049/85D/>



CUSTODIAN: AE-8C1

PROCUREMENT SPECIFICATION: AS85049



AEROSPACE STANDARD

CONNECTOR ACCESSORIES, ELECTRICAL, BACKSHELL, STRAIGHT, SELF-LOCKING, SHIELD BAND TERMINATION (RFI/EMI), SHRINK BOOT ACCOMMODATION, CATEGORY 3B (FOR MIL-DTL-38999 SERIES I AND II CONNECTORS)

AS85049™/85
SHEET 1 OF 4

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ISSUED 2000-06 REVISED 2019-08 REAFFIRMED 2025-04

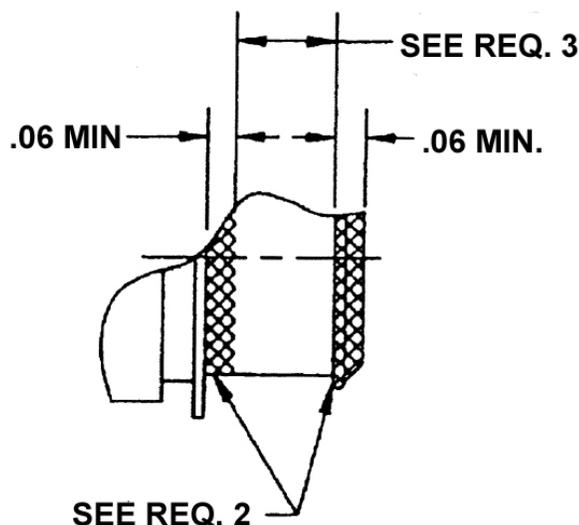


FIGURE 2 - SELECTIVE PLATING

TABLE 1 - FIGURES 1 AND 2 METRIC EQUIVALENTS

INCHES	MILLIMETERS	INCHES	MILLIMETERS	INCHES	MILLIMETERS
.044	1.12	.140	3.56	.730	18.54
.06	1.52	.344	8.74	1.350	34.29
.130	3.30	.406	10.31	1.540	39.12

TABLE 2 - SHELL SIZE AND DIMENSIONS

ACCESSORY SHELL SIZE	CONNECTOR SHELL SIZE		A MAX DIA	B DIA ±.010 (0.25) ENTRY SIZE		C DIA (REF)	
	SERIES I	SERIES II		01	02	01	02
08	9	8	.859 (21.82)	N/A	.250 (6.35)	N/A	.395 (10.03)
10	11	10	.986 (25.04)	N/A	.312 (7.92)	N/A	.457 (11.61)
12	13	12	1.156 (29.36)	.312 (7.92)	.438 (11.13)	.457 (11.61)	.583 (14.81)
14	15	14	1.281 (32.54)	.438 (11.13)	.562 (14.27)	.583 (14.81)	.707 (17.96)
16	17	16	1.406 (35.71)	.500 (12.70)	.625 (15.88)	.645 (16.38)	.770 (19.56)
18	19	18	1.516 (38.51)	.625 (15.88)	.750 (19.05)	.770 (19.56)	.895 (22.73)
20	21	20	1.641 (41.68)	.625 (15.88)	.812 (20.62)	.770 (19.56)	.957 (24.31)
22	23	22	1.766 (44.86)	.688 (17.48)	.938 (23.83)	.829 (21.06)	1.083 (27.51)
24	25	24	1.891 (48.03)	.750 (19.05)	1.000 (25.40)	.895 (22.73)	1.145 (29.08)

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 (SEE TABLE 1).

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

INTERFACE DIMENSIONS: SHALL CONFORM TO AS85049, FIGURE 2.

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.

TABLE 3 - MATERIAL AND FINISH

FINISH	MATERIAL
1/ N-ELECTROLESS NICKEL	ALUMINUM ALLOY IN ACCORDANCE WITH AS85049
2/ P-CADMIUM OLIVE DRAB OVER ELECTROLESS NICKEL (SELECTIVE PLATING, SEE FIGURE 2)	
YP-PURE DENSE ELECTRODEPOSITED ALUMINUM OVER ELECTROLESS NICKEL (SELECTIVE PLATING, SEE FIGURE 2)	
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, Z AND ZP FINISH NOT RECOMMENDED FOR USE IN APPLICATIONS THAT MAY BE SUSCEPTIBLE TO OUT GASSING (ALSO SEE SPECIFICATION NOTES).

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