

REV.
B

SAE AS85049/89

FEDERAL SUPPLY CLASS
5935

RATIONALE

REVISED TO INCLUDE COMMENTS RECEIVED BY THE GOVERNMENT / INDUSTRY AND INCORPORATED THE AS85049/89A-1 AMENDMENT. ALIGN SPECIFICATION WITH SAE GUIDELINES AND REVIEWED SPECIFICATION FOR KNOWN TECHNICAL ISSUES.

NOTICE

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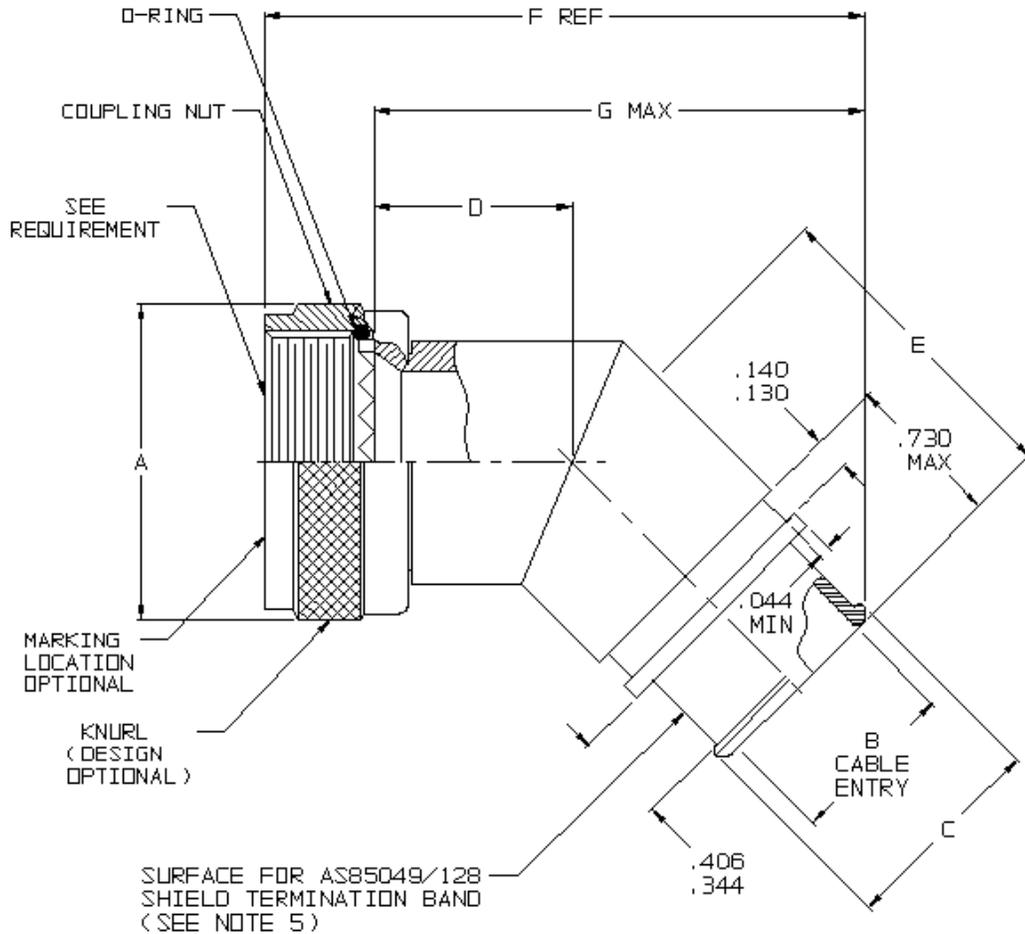
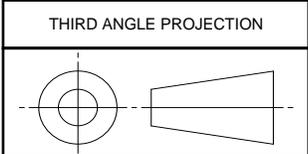


FIGURE 1 - CONFIGURATION AND DIMENSIONS

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CUSTODIAN: AE-8/AE-8C1

PROCUREMENT INFORMATION: AS85049

SAE Aerospace
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AEROSPACE STANDARD

(R) CONNECTOR ACCESSORIES, ELECTRICAL, BACKSHELL, 45°, SELF-LOCKING, SHIELD BAND TERMINATION (RFI/EMI), SHRINK SLEEVE ACCOMMODATION, CATEGORY 3B (FOR MIL-DTL-38999 SERIES III AND IV CONNECTORS)

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SHEET 1 OF 4

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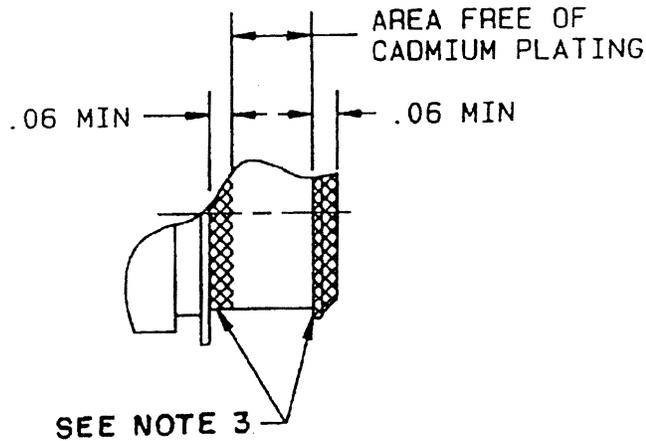


FIGURE 2 - SELECTIVE PLATING (SEE NOTE 3)

TABLE 1 – FIGURE 1, SHELL SIZE AND DIMENSIONS

ACCESSORY SHELL SIZE	SHELL SIZE CODE (REF)	A MAX DIA	B DIA \pm .010 ENTRY SIZE		C DIA REF		D MAX DIM	E MAX DIM	G MAX C DIA		F REF C DIA	
			02	03	02	03			02	03	02	03
9	A	.858 (21.8)	N/A	.250 (6.4)	N/A	.395 (10.0)	1.01 (25.7)	1.16 (29.5)	N/A	1.970 (50.0)	N/A	2.218 (56.3)
11	B	.984 (25.0)	N/A	.312 (7.9)	N/A	.457 (11.6)	1.03 (26.2)	1.19 (30.2)	N/A	2.033 (51.6)	N/A	2.281 (57.9)
13	C	1.157 (29.4)	.312 (7.9)	.438 (11.1)	.457 (11.6)	.583 (14.8)	1.06 (26.9)	1.21 (30.7)	2.077 (52.8)	2.122 (53.9)	2.325 (59.1)	2.370 (60.2)
15	D	1.279 (32.5)	.438 (11.1)	.562 (14.3)	.583 (14.8)	.707 (18.0)	1.08 (27.4)	1.24 (31.5)	2.163 (54.9)	2.207 (56.1)	2.411 (61.2)	2.455 (62.4)
17	E	1.406 (35.7)	.500 (12.7)	.625 (15.9)	.645 (16.4)	.770 (19.6)	1.11 (28.2)	1.26 (32.0)	2.229 (56.6)	2.273 (57.7)	2.477 (62.9)	2.521 (64.0)
19	F	1.516 (38.5)	.625 (15.9)	.750 (19.1)	.770 (19.6)	.895 (22.7)	1.12 (28.4)	1.27 (32.3)	2.290 (58.2)	2.334 (59.3)	2.538 (64.5)	2.582 (65.6)
21	G	1.642 (41.7)	.625 (15.9)	.812 (20.6)	.770 (19.6)	.957 (24.3)	1.15 (29.2)	1.30 (33.0)	2.341 (59.5)	2.408 (61.2)	2.589 (65.8)	2.656 (67.5)
23	H	1.768 (44.9)	.688 (17.5)	.938 (23.8)	.829 (21.1)	1.083 (27.5)	1.17 (29.7)	1.33 (33.8)	2.404 (61.1)	2.493 (63.3)	2.652 (67.4)	2.741 (69.6)
25	J	1.889 (48.0)	.750 (19.1)	1.000 (25.4)	.895 (22.7)	1.145 (29.1)	1.20 (30.5)	1.35 (34.3)	2.471 (62.8)	2.559 (65.0)	2.719 (69.1)	2.807 (71.3)

NOTES:

- DIMENSIONS ARE IN INCHES.
- METRIC EQUIVALENTS ARE GIVEN FOR GENERAL INFORMATION ONLY AND ARE BASED UPON 1.00 INCH = 25.4 MM.
- CADMIUM/NICKEL INTERFACE SHALL BE COATED WITH POLYSULFIDE SEALANT.
- PART SUPPLIED WITH STANDARD DETENTED SELF-LOCKING WHICH PROVIDES A POSITIVE AUDIBLE DETENTED COUPLING. OPTION 'N' IS A FREE SPINNING SELF-LOCKING COUPLING.
- RIBBED, KNURL OR SURFACE ROUGHNESS 125-250 IN ACCORDANCE WITH ANSI B46.1

 An SAE International Group	AEROSPACE STANDARD	SAE AS85049/89 SHEET 2 OF 4	REV. B
	(R) CONNECTOR ACCESSORIES, ELECTRICAL, BACKSHELL, 45°, SELF-LOCKING, SHIELD BAND TERMINATION (RFI/EMI), SHRINK SLEEVE ACCOMMODATION, CATEGORY 3B (FOR MIL-DTL-38999 SERIES III AND IV CONNECTORS)		

REQUIREMENTS:

DESIGN AND CONSTRUCTION:

1. DIMENSIONS AND CONFIGURATION: SEE FIGURE 1 AND TABLE 1.
2. INTERFACE DIMENSIONS: SHALL CONFORM TO SAE AS85049 FIGURE 3.
3. COUPLING NUT: SHALL BE CAPTIVATED TO THE ADAPTER BODY AND ROTATEABLE.
4. MATERIAL AND FINISH: IN ACCORDANCE WITH SAE AS85049 AND TABLE 2 HEREIN.

TABLE 2 - MATERIAL AND FINISH

FINISH	MATERIAL
G – ELECTROLESS NICKEL <u>1/</u> (SPACE GRADE) N – ELECTROLESS NICKEL <u>1/</u> P – CADMIUM OLIVE DRAB OVER ELECTROLESS NICKEL, (SELECTIVE PLATING, SEE FIGURE 2) <u>2/</u> W – CADMIUM OLIVE DRAB <u>2/</u> X – NICKEL FLUOROCARBON POLYMER Z – ZINC NICKEL <u>2/</u> YP – PURE DENSE ELECTRODEPOSITED ALUMINUM, (SELECTIVE PLATING, SEE FIGURE 2) ZP – ZINC NICKEL (SELECTIVE PLATING, SEE FIGURE 2) <u>2/</u>	ALUMINUM ALLOY
J – CADMIUM OLIVE DRAB <u>2/</u> L – CADMIUM OLIVE DRAB OVER ELECTROLESS NICKEL, (SELECTIVE PLATING, SEE FIGURE 2) <u>2/ 3/</u> M – ELECTROLESS NICKEL XC – NICKEL FLUOROCARBON POLYMER YL – PURE DENSE ELECTRODEPOSITED ALUMINUM, (SELECTIVE PLATING, SEE FIGURE 2) <u>3/</u> ZC – ZINC NICKEL <u>2/</u> ZL – ZINC NICKEL (SELECTIVE PLATING, SEE FIGURE 2) <u>2/ 3/</u>	COMPOSITE

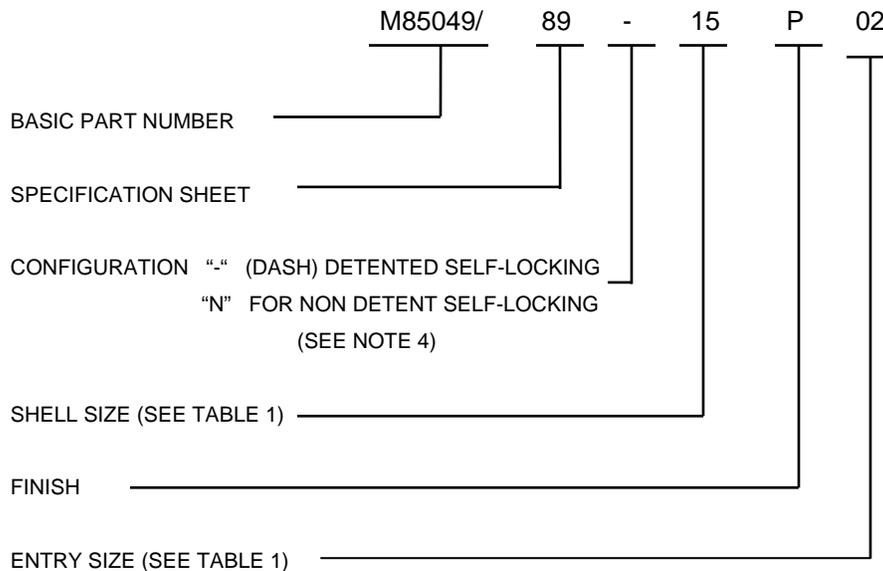
1/ G AND N FINISH NOT FOR NAVY USE, RESTRICTED TO AIR FORCE SPACE APPLICATIONS ONLY.

2/ P, W, Z, ZP, J, L, ZC AND ZL FINISHES ARE NOT FOR USE IN SPACE APPLICATIONS. ALSO SEE SPECIFICATION NOTE.

3/ MUST MEET THE REQUIREMENTS AND PASS TESTS FOR FINISH J.

PART OR IDENTIFYING NUMBER (PIN):

EXAMPLE:



QUALIFICATION: SEE SAE AS85049, CATEGORY 3B.

SPECIFICATION NOTES:

NOTICE

THIS DOCUMENT REFERENCES A PART WHICH CONTAINS CADMIUM AS A PLATING MATERIAL. CONSULT LOCAL OFFICIALS IF YOU HAVE QUESTIONS CONCERNING CADMIUM'S USE.

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