

RATIONALE

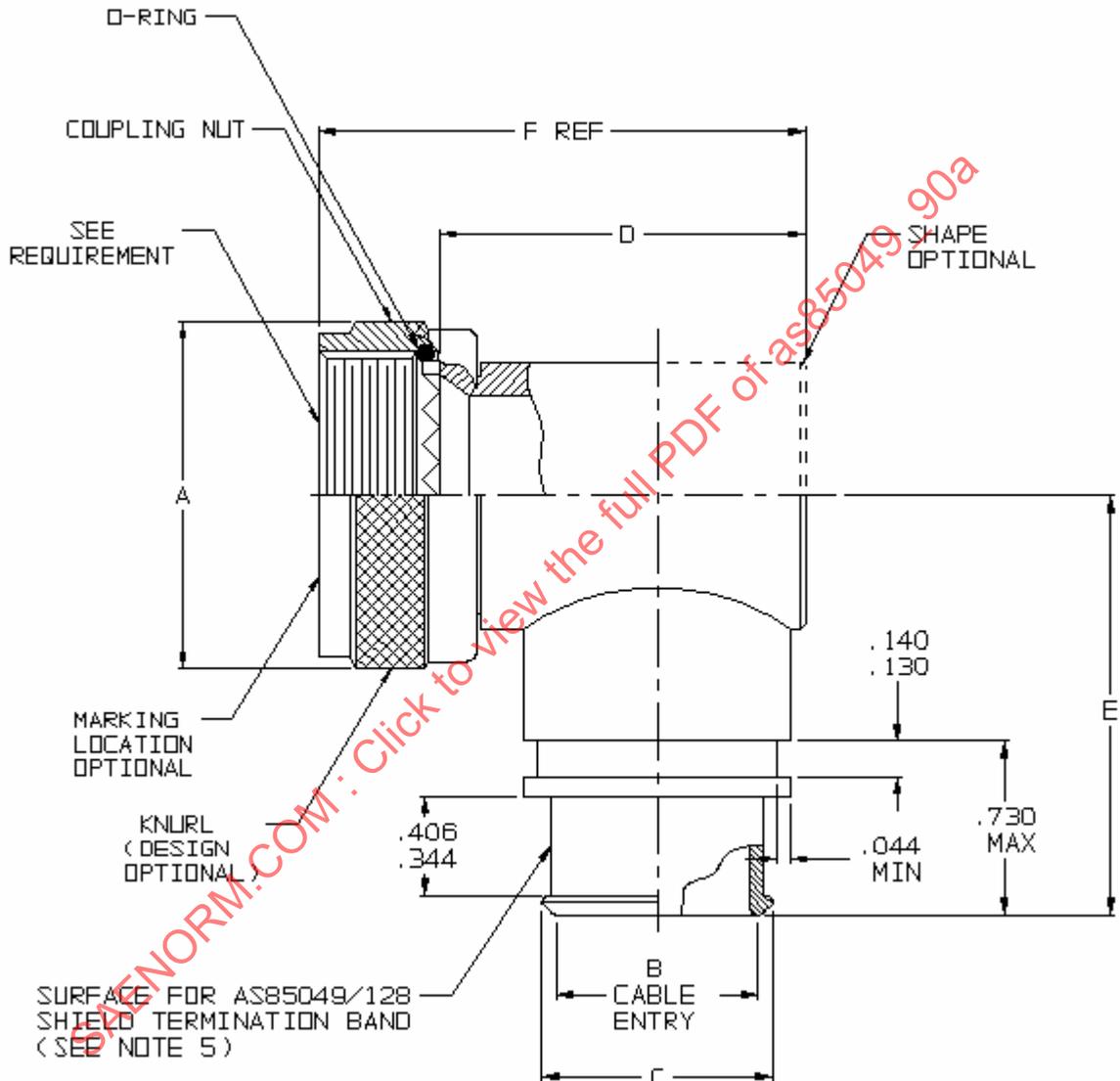
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THE REQUIREMENTS FOR PROCURING THE PRODUCT DESCRIBED HEREIN SHALL CONSIST OF THIS SPECIFICATION SHEET AND THE LATEST ISSUE OF: SAE AS85049.

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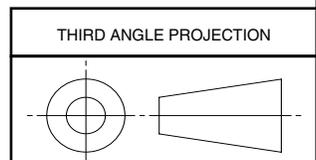
AS85049/90

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

FIGURE 1 - CONFIGURATION AND DIMENSIONS



CUSTODIAN: SAE AE-8/AE-8C1



AEROSPACE STANDARD

(R) CONNECTOR ACCESSORIES, ELECTRICAL, BACKSHELL, 90°, SELF-LOCKING, SHIELD BAND TERMINATION, (RFI/EMI), SHRINK SLEEVE ACCOMMODATION, CATEGORY 3B (FOR MIL-DTL-38999 SERIES III AND IV CONNECTORS)

AS85049/90
SHEET 1 OF 4

REV. A

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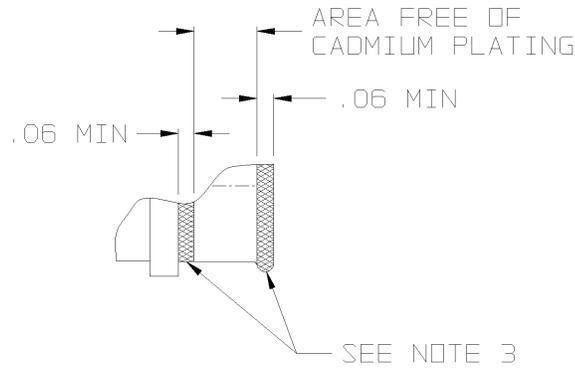


FIGURE 2 - SELECTIVE PLATING

INCHES	mm										
.044	1.12	.562	14.27	.829	21.06	.960	24.38	1.135	28.83	1.310	33.27
.060	1.52	.583	14.81	.870	22.10	.980	24.89	1.145	29.08	1.340	34.04
.130	3.30	.625	15.88	.875	22.23	1.000	25.40	1.160	29.46	1.380	35.05
.140	3.56	.645	16.38	.885	22.48	1.010	25.65	1.180	29.97	1.385	35.18
.250	6.35	.688	17.48	.890	22.61	1.020	25.91	1.200	30.48	1.510	38.35
.312	7.92	.707	17.96	.895	22.73	1.030	26.16	1.220	30.99	1.542	39.17
.395	10.03	.730	18.54	.920	23.37	1.050	26.67	1.250	31.75	1.635	41.53
.438	11.13	.750	19.05	.938	23.83	1.083	27.51	1.260	32.00	1.760	44.70
.457	11.61	.770	19.56	.940	23.88	1.100	27.94	1.270	32.26	1.885	47.88
.500	12.70	.812	20.62	.957	24.31	1.125	28.58	1.290	32.77	2.135	54.23

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.

1. DIMENSIONS ARE IN INCHES.
2. METRIC EQUIVALENTS ARE GIVEN FOR GENERAL INFORMATION ONLY AND ARE BASED UPON 1.00 (25.4 mm).
3. CADMIUM/NICKEL INTERFACE SHALL BE COATED WITH POLYSULFIDE SEALANT. NOT APPLICABLE FOR FINISH 'L'.
4. PART SUPPLIED WITH STANDARD DETENTED SELF-LOCKING, WHICH PROVIDES A POSITIVE AUDIBLE DETENTED COUPLING.
5. THE CHANGE BAR (I) LOCATED IN THE LEFT MARGIN IS FOR THE CONVENIENCE OF THE USER IN LOCATING AREAS WHERE TECHNICAL REVISIONS, NOT EDITORIAL CHANGES, HAVE BEEN MADE TO THE PREVIOUS ISSUE OF THIS DOCUMENT. AN (R) SYMBOL TO THE LEFT OF THE DOCUMENT TITLE INDICATES A COMPLETE REVISION OF THE DOCUMENT.

OPTION 'N' IS A FREE SPINNING SELF-LOCKING COUPLING.

TABLE 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	F ref
			02	03	02	03			
			9	A	.858	N/A			
11	B	.984	N/A	.312	N/A	.457	1.437	1.480	1.685
13	C	1.157	.312	.438	.457	.583	1.562	1.553	1.81
15	D	1.279	.438	.562	.583	.707	1.687	1.614	1.935
17	E	1.406	.500	.625	.645	.770	1.750	1.678	1.998
19	F	1.516	.625	.750	.770	.895	1.875	1.773	2.125
21	G	1.642	.625	.812	.770	.957	1.938	1.796	2.186
23	H	1.768	.688	.938	.829	1.083	2.062	1.859	2.31
25	J	1.889	.750	1.000	.895	1.145	2.125	1.919	2.373

REQUIREMENTS:

DESIGN AND CONSTRUCTION:

DIMENSIONS AND CONFIGURATION: SEE FIGURE 1 AND TABLE 1.

INTERFACE DIMENSIONS: SHALL CONFORM TO SAE AS85049, FIGURE 3.

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

MATERIAL AND FINISH: IN ACCORDANCE WITH SAE AS85049 AND TABLE 2.

TABLE 2 - MATERIAL AND FINISH

FINISH	MATERIAL
G - ELECTROLESS NICKEL (SPACE GRADE) ^{1/} N - ELECTROLESS NICKEL ^{1/} P - CADMIUM OLIVE DRAB OVER ELECTROLESS NICKEL (SELECTIVE PLATING, SEE FIGURE 2) ^{2/} W - CADMIUM OLIVE DRAB ^{2/}	ALUMINUM ALLOY
J - CADMIUM OLIVE DRAB ^{2/} L - CADMIUM OLIVE DRAB OVER ELECTROLESS NICKEL (SELECTIVE PLATING, SEE FIGURE 2) ^{2/ 3/} M - ELECTROLESS NICKEL ^{1/}	COMPOSITE

^{1/} G, N, M, NOT FOR NAVY USE. LIMITED TO SPACE APPLICATIONS FOR AIR FORCE.^{2/} P, W, J, L, NOT FOR USE IN SPACE APPLICATIONS.^{3/} MUST MEET THE REQUIREMENTS, AND PASS THE TESTS FOR FINISH J.