

REV.
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AS85049/89

FEDERAL SUPPLY CLASS
5935

THE REQUIREMENTS FOR ACQUIRING THE PRODUCT DESCRIBED HEREIN SHALL CONSIST OF THIS SPECIFICATION SHEET AND THE ISSUE OF THE FOLLOWING SPECIFICATION LISTED IN THAT ISSUE OF THE DEPARTMENT OF DEFENSE INDEX OF SPECIFICATIONS AND STANDARDS (DODISS) SPECIFIED IN THE SOLICITATION: AS85049.

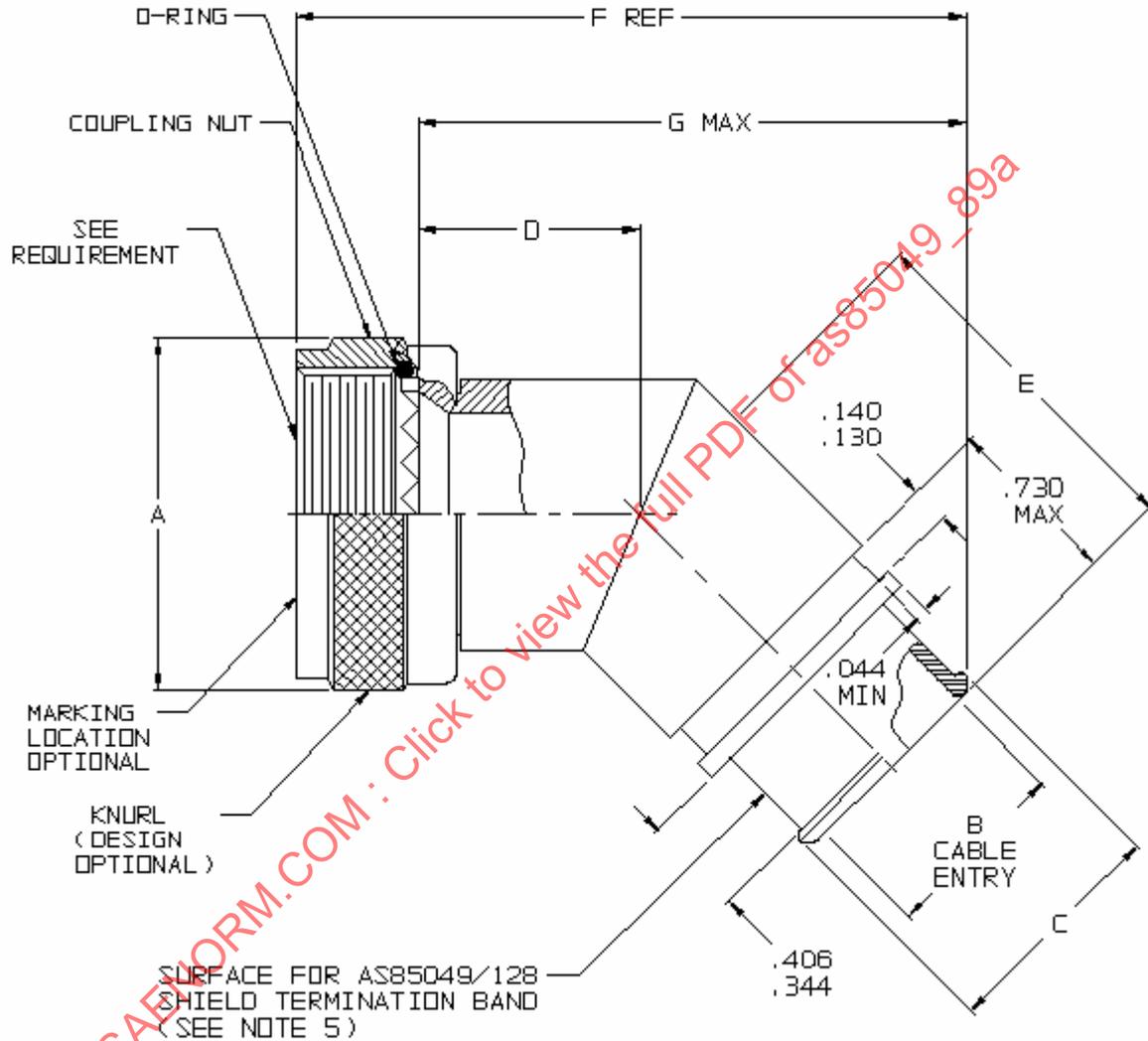
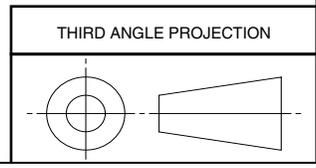


FIGURE 1 - CONFIGURATION AND DIMENSIONS



CUSTODIAN: SAE AE-8/AE-8C1

SAE Aerospace
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AEROSPACE STANDARD

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)

AS85049/89
SHEET 1 OF 4

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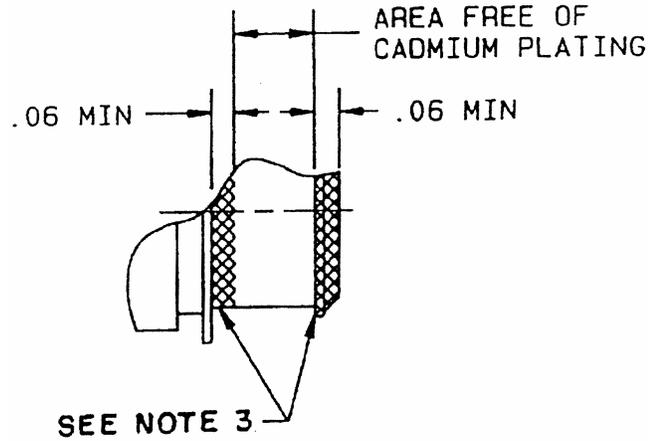
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ISSUED 2000-06 REVISED 2004-10



INCH	MM	INCH	MM	INCH	MM	INCH	MM	INCH	MM	INCH	MM
.044	1.12	.500	12.70	.770	19.56	1.010	25.65	1.157	29.39	1.279	32.49
.060	1.52	.562	14.27	.812	20.62	1.030	26.16	1.160	29.46	1.300	33.02
.130	3.30	.583	14.81	.829	21.05	1.060	26.92	1.170	29.72	1.330	33.78
.140	3.56	.625	15.88	.858	21.79	1.080	27.43	1.190	30.23	1.350	34.29
.250	6.35	.645	16.38	.895	22.73	1.083	27.51	1.200	30.48	1.406	35.71
.312	7.92	.688	17.47	.938	23.83	1.110	28.19	1.210	30.73	1.516	38.51
.395	10.03	.707	17.96	.957	24.31	1.120	28.45	1.240	31.50	1.642	41.71
.438	11.13	.730	18.52	.984	24.99	1.145	29.08	1.260	32.00	1.768	44.91
.457	11.61	.750	19.05	1.000	25.40	1.150	29.21	1.270	32.26	1.889	47.98

NOTES:

1. DIMENSIONS ARE IN INCHES.
2. METRIC EQUIVALENTS ARE GIVEN FOR GENERAL INFORMATION ONLY AND ARE BASED UPON 1.00 INCH = 25.4 MM.
3. CADMIUM/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, KNURL OR SURFACE ROUGHNESS 125-250 IN ACCORDANCE WITH ANSI B46.1

FIGURE 2 - SELECTIVE PLATING

TABLE 1 - SHELL SIZE AND DIMENSIONS

ACCESSORY SHELL SIZE	SHELL SIZE CODE (REF)	A MAX DIA	B DIA ±.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	N/A	.250	N/A	.395	1.01	1.16	N/A	1.970	N/A	2.218
11	B	.984	N/A	.312	N/A	.457	1.03	1.19	N/A	2.033	N/A	2.281
13	C	1.157	.312	.438	.457	.583	1.06	1.21	2.077	2.122	2.325	2.370
15	D	1.279	.438	.562	.583	.707	1.08	1.24	2.163	2.207	2.411	2.455
17	E	1.406	.500	.625	.645	.770	1.11	1.26	2.229	2.273	2.477	2.521
19	F	1.516	.625	.750	.770	.895	1.12	1.27	2.290	2.334	2.538	2.582
21	G	1.642	.625	.812	.770	.957	1.15	1.30	2.341	2.408	2.589	2.656
23	H	1.768	.688	.938	.829	1.083	1.17	1.33	2.404	2.493	2.652	2.741
25	J	1.889	.750	1.000	.895	1.145	1.20	1.35	2.471	2.559	2.719	2.807

REQUIREMENTS:

DESIGN AND CONSTRUCTION:

DIMENSIONS AND CONFIGURATION: SEE FIGURE 1 AND TABLE 1.

INTERFACE DIMENSIONS: SHALL CONFORM TO AS85049.

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

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

TABLE 2 - MATERIAL AND FINISH

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

1/ NOT FOR NAVY USE. LIMITED TO SPACE APPLICATIONS FOR AIR FORCE USE.

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

VIBRATION: BACKSHELLS SHALL BE SUBJECTED TO TEST PARAMETERS OF APPLICABLE CONNECTOR SPECIFICATIONS. THE COUPLING TORQUE SHALL BE WITHIN +20, -10 INCH-POUNDS OF THE INITIAL VALUE.

ADDITIONAL TESTS FOR FINISHES J, L, AND M SHALL BE AS FOLLOWS:

OZONE EXPOSURE: BACKSHELLS SHALL BE TESTED IN ACCORDANCE WITH MIL-STD-1344, METHOD 1007.

SAMPLE: EACH SAMPLE SHALL CONSIST OF ONE BACKSHELL.

SAMPLE PREPARATION: NOT APPLICABLE.

FAILURE: BLISTERING, OR PEELING OF THE PLATING CONSTITUTES A FAILURE. ANY CONDITION WHICH ADVERSELY AFFECTS THE FUNCTION OF THE BACKSHELL ALSO CONSTITUTES A FAILURE.