

REV.
A

AS85049/87

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.

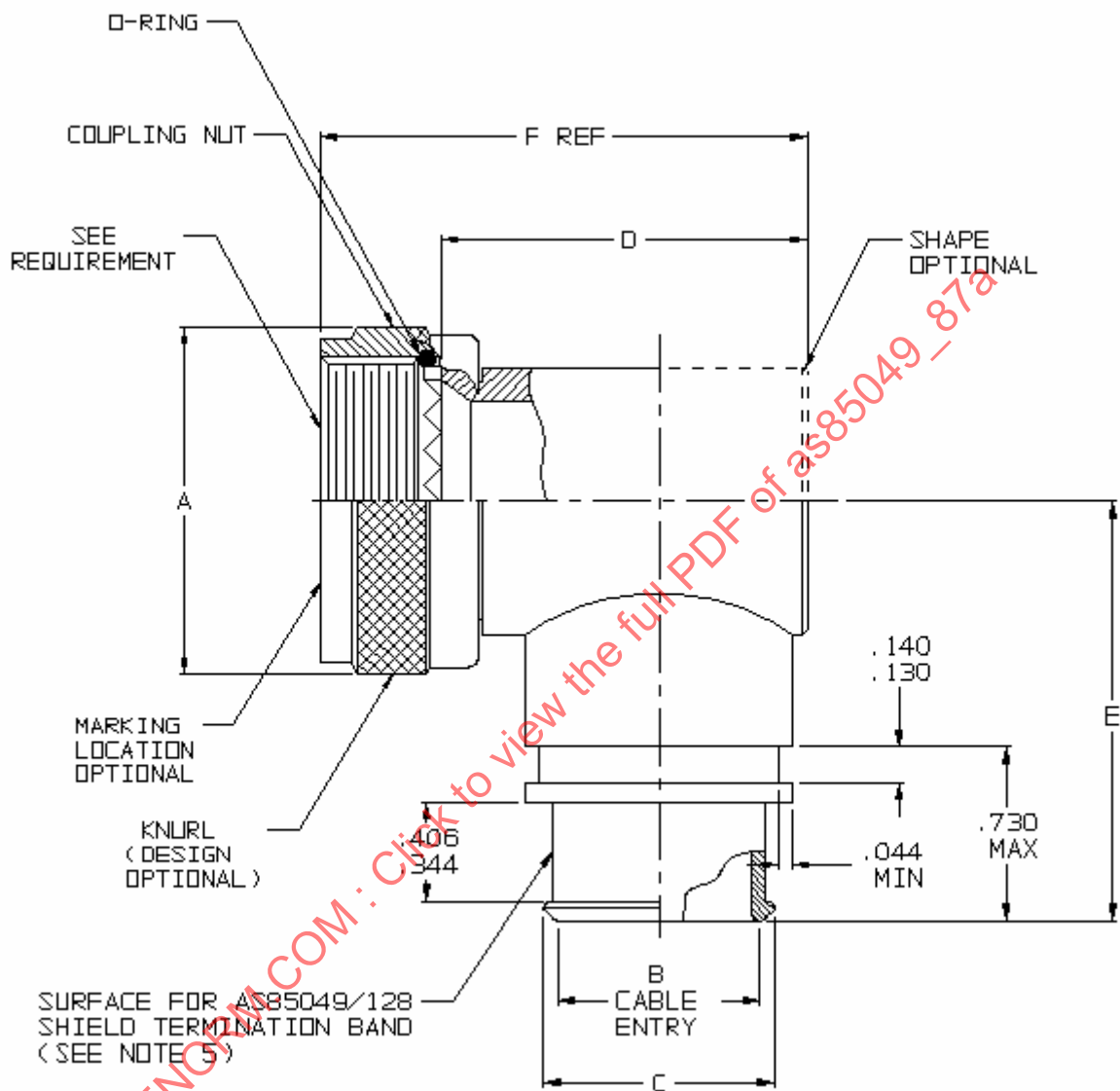
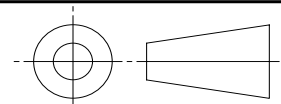


FIGURE 1 - CONFIGURATION AND DIMENSIONS

THIRD ANGLE PROJECTION



CUSTODIAN: SAE AE-8/AE-8C1

SAE Aerospace
An SAE International Group**AEROSPACE STANDARD**

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

AS85049/87
SHEET 1 OF 4**REV.
A**

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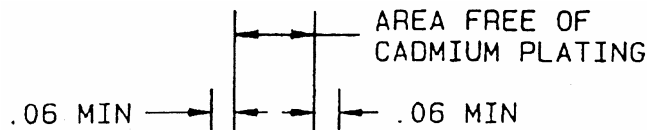
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SEE NOTE 3

INCH	MM
.044	1.12
.130	3.30
.140	3.56
.250	6.35
.312	7.92
.395	10.03
.438	11.13
.457	11.61
.500	12.70
.562	14.27

INCH	MM
.583	14.81
.625	15.88
.660	16.76
.684	17.37
.707	17.96
.750	19.05
.770	19.56
.812	20.62
.829	21.05
.858	21.79

INCH	MM
.895	22.73
.938	23.83
.957	24.31
.984	24.99
1.000	25.40
1.083	27.51
1.145	29.08
1.157	29.36
1.310	33.27
1.343	34.11

INCH	MM
1.404	35.66
1.406	35.71
1.467	37.26
1.468	37.29
1.516	38.51
1.531	38.89
1.553	39.45
1.614	41.00
1.642	41.71
1.656	42.06

INCH	MM
1.678	42.62
1.718	43.64
1.733	44.02
1.768	44.90
1.796	45.62
1.843	46.81
1.859	47.22
1.889	47.98
1.906	48.41
1.919	48.74

NOTES:

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.
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	CONNECTOR SHELL SIZE		A MAX DIA	B DIA ±.010 ENTRY SIZE		C DIA REF		D MAX DIM	E MAX DIM	F REF
	SERIES I	SERIES II		02	03	02	03			
08	9	8	.858	N/A	.250	N/A	.395	1.375	1.417	1.563
10	11	10	.984	N/A	.312	N/A	.457	1.437	1.480	1.625
12	13	12	1.157	.312	.438	.457	.583	1.562	1.553	1.750
14	15	14	1.279	.438	.562	.583	.707	1.687	1.614	1.875
16	17	16	1.406	.500	.625	.645	.770	1.750	1.678	1.938
18	19	18	1.516	.625	.750	.770	.895	1.875	1.733	2.063
20	21	20	1.642	.625	.812	.770	.957	1.938	1.796	2.126
22	23	22	1.768	.688	.938	.829	1.083	2.062	1.859	2.250
24	25	24	1.889	.750	1.000	.895	1.145	2.125	1.919	2.313

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.

TABLE 2 - MATERIAL AND FINISH

FINISH	MATERIAL
N - ELECTROLESS NICKEL 1/ P - CADMIUM OLIVE DRAB OVER ELECTROLESS NICKEL (SELECTIVE PLATING, SEE FIGURE 2) W - CADMIUM OLIVE DRAB	ALUMINUM ALLOY

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

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.

PART OR IDENTIFYING NUMBER (PIN): SEE EXAMPLE BELOW:

M85049/ 87 - 16 P 02
 Basic Part Number _____
 Specification sheet _____
 - = Detented self-locking
 N = Non-detented self-locking (see Note 4) _____
 Shell size (see Table 1) _____
 Finish _____
 Entry size _____