

REV.  
C

SAE AS85049/88

FEDERAL SUPPLY CLASS  
5935

# RATIONALE

REVISION REQUIRED TO INCREASE THE "B" TOLERANCE TO ACCOMMODATE I.D. CORE DRAFT ON MOLDED PART CONFIGURATIONS AND TO CORRECT THE COUPLING NUT FINISH DESIGNATION.

# NOTICE

THE COMPLETE REQUIREMENTS FOR PROCURING THE PRODUCT DESCRIBED HEREIN SHALL CONSIST OF THIS DOCUMENT AND THE LATEST ISSUE OF SAE AS85049.

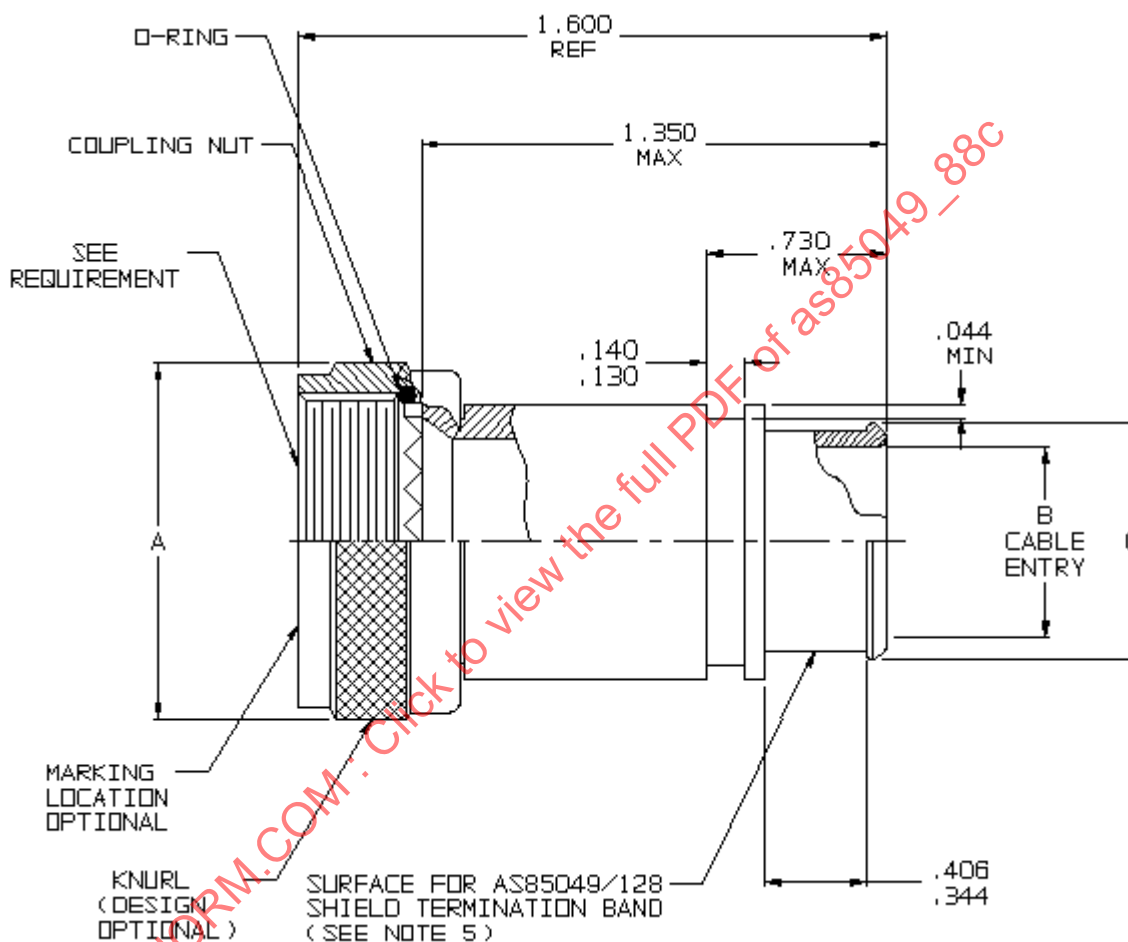
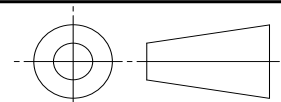


FIGURE 1 - CONFIGURATION AND DIMENSIONS

SAE values your input. To provide feedback on this Technical Report, please visit <http://www.sae.org/technical/standards/AS85049/88C>

THIRD ANGLE PROJECTION



CUSTODIAN: AE-8/AE-8C1

PROCUREMENT SPECIFICATION: AS85049

**SAE Aerospace**  
An SAE International Group

## AEROSPACE STANDARD

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

**SAE AS85049/88**  
SHEET 1 OF 4

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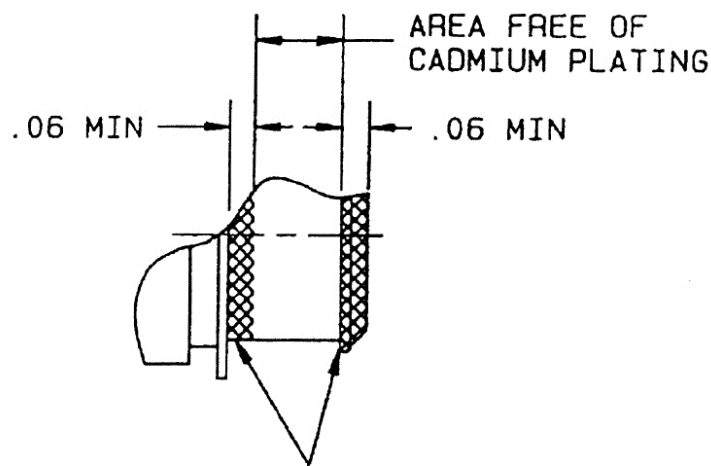
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ISSUED 2000-06 REVISED 2012-08



**CADMIUM/NICKEL INTERFACE SHALL BE COATED WITH POLYSULFIDE SEALANT.**

FIGURE 2 - SELECTIVE PLATING

TABLE 1 - FIGURE 1 SHELL SIZE AND DIMENSIONS

ACCESSORY SHELL SIZE	SHELL SIZE CODE (REF)	A MAX DIA	B DIA +.025 / -.010 ENTRY SIZE		C DIA REF	
			02	03	02	03
9	A	.858 (21.8)	N/A	.250 ( 6.4)	N/A	.395 (10.0)
11	B	.984 (25.0)	N/A	.312 ( 7.9)	N/A	.457 (11.6)
13	C	1.157 (29.4)	.312 ( 7.9)	.438 (11.1)	.457 (11.6)	.583 (14.8)
15	D	1.279 (32.5)	.438 (11.1)	.562 (14.3)	.583 (14.8)	.707 (18.0)
17	E	1.406 (35.7)	.500 (12.7)	.625 (15.9)	.645 (16.4)	.770 (19.6)
19	F	1.516 (38.5)	.625 (15.9)	.750 (19.1)	.770 (19.6)	.895 (22.7)
21	G	1.642 (41.7)	.825 (15.9)	.812 (20.6)	.770 (19.6)	.957 (24.3)
23	H	1.768 (44.9)	.688 (17.5)	.938 (23.8)	.829 (21.1)	1.083 (27.5)
25	J	1.889 (48.0)	.750 (19.1)	1.000 (25.4)	.895 (22.7)	1.145 (29.1)

REQUIREMENTS: ALL REQUIREMENTS SHALL CONSIST OF THIS SPECIFICATION AND THE LATEST ISSUE OF AS85049.

DESIGN AND CONSTRUCTION:

1. DIMENSIONS AND CONFIGURATION: SEE FIGURE 1 AND TABLE 1. DIMENSIONS ARE IN INCHES AND APPLY AFTER PLATING. METRIC EQUIVALENTS ARE GIVEN FOR GENERAL INFORMATION ONLY AND ARE BASED UPON 1.00 INCH (25.4 MM). PART SUPPLIED WITH STANDARD DETENTED SELF-LOCKING WHICH PROVIDES A POSITIVE AUDIBLE DETENTED COUPLING. OPTION 'N' IS A FREE SPINNING SELF-LOCKING COUPLING.
2. INTERFACE DIMENSIONS: SHALL CONFORM TO AS85049 FIGURE 3.
3. COUPLING NUT: SHALL BE CAPTIVATED TO THE ADAPTER BODY AND ROTATEABLE.
4. MATERIAL AND FINISH: IN ACCORDANCE WITH AS85049 AND TABLE 2 HEREIN. RIBBED, KNURL OR SURFACE ROUGHNESS 125-250 IN ACCORDANCE WITH ANSI B46.1.

 <i>An SAE International Group</i>	<b>AEROSPACE STANDARD</b>	 <b>AS85049/88</b> SHEET 2 OF 4	<b>REV.</b> <b>C</b>
	CONNECTOR ACCESSORIES, ELECTRICAL, BACKSHELL, STRAIGHT, SELF-LOCKING, SHIELD BAND TERMINATION (RFI/EMI), SHRINK BOOT ACCOMMODATION, CATEGORY 3B (FOR MIL-DTL-38999 SERIES III AND IV CONNECTORS)		

TABLE 2 - MATERIAL AND FINISH

Finish	Material
Electroless Nickel <u>1/</u> (Space grade) Electroless Nickel <u>1/</u> Cadmium Olive Drab over Electroless Nickel (Selective Plating - see Figure 2) <u>2/</u> Cadmium Olive Drab <u>2/</u> Nickel Fluorocarbon Polymer Zinc Nickel <u>2/</u> Pure Dense Electrodeposited Aluminum (Selective Plating - see Figure 2) Zinc Nickel (Selective Plating - see Figure 2) <u>2/</u>	Aluminum Alloy
Cadmium Olive Drab <u>2/</u> Cadmium Olive Drab over Electroless Nickel (Selective Plating - see Figure 2) <u>2/ 3/</u> Electroless Nickel Nickel Fluorocarbon Polymer Pure Dense Electrodeposited Aluminum (Selective Plating - see Figure 2) <u>3/</u> Zinc Nickel <u>2/</u> Zinc Nickel (Selective Plating - see Figure 2) <u>2/ 3/</u>	Composite (COUPLING NUT NON-CONDUCTIVE, NO FINISH)

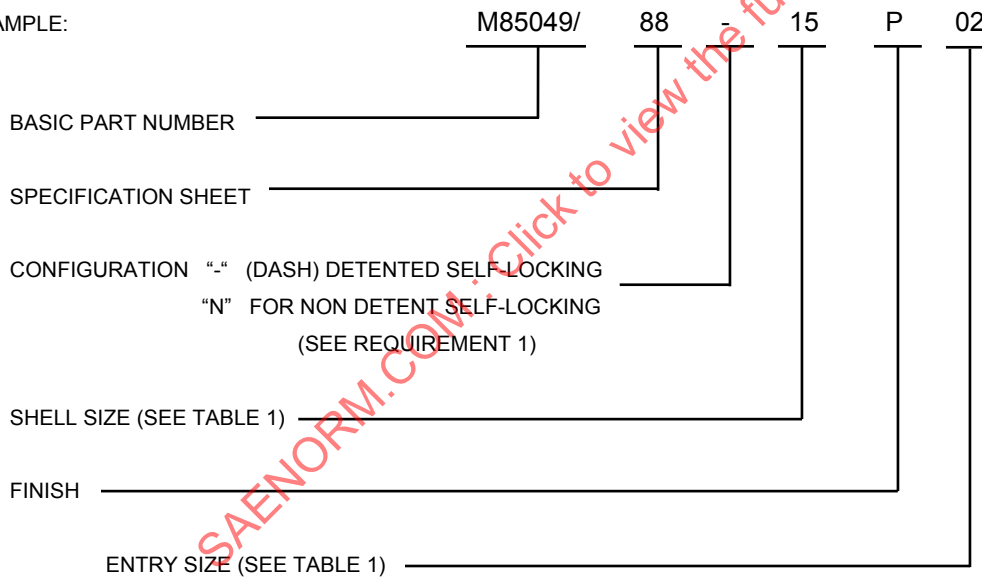
1/ G AND N FINISH NOT FOR NAVY USE, RESTRICTED TO AIR FORCE SPACE APPLICATIONS ONLY.

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.