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REV.
E

AS85049™/48

FEDERAL SUPPLY CLASS
5935

RATIONALE

LIMITED SCOPE REVISION IS REQUIRED TO CLARIFY THE SECOND SENTENCE IN REQUIREMENT 1 REGARDING THE DIMENSIONS WHICH APPLY AFTER PLATING; IT NOW INDICATES "DIMENSIONS ARE IN INCHES AND APPLY AFTER PLATING, EXCEPT FOR THOSE DESIGNATED AS MATERIAL." ALSO, THE WORD "MATERIAL" WAS ADDED TO THE .020/.010 DIMENSION IN FIGURE 2.

NOTICE

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

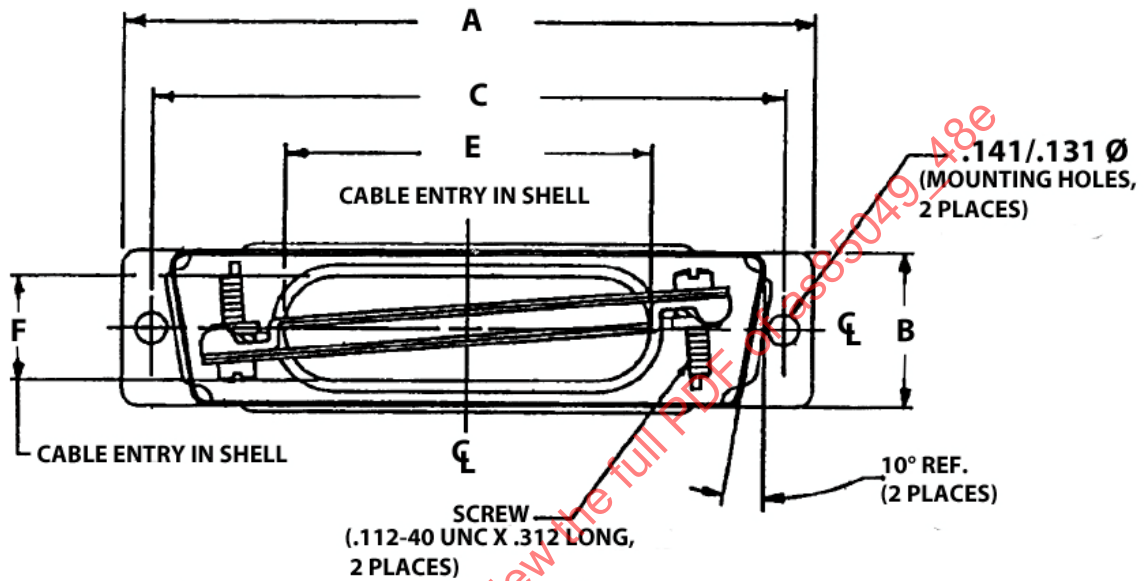
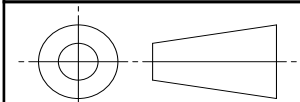


FIGURE 1 - ACCESSORY CONFIGURATIONS AND DIMENSIONS

For more information on this standard, visit

<https://www.sae.org/standards/content/AS85049/48E>

THIRD ANGLE PROJECTION



CUSTODIAN: AE-8/AE-8C1

PROCUREMENT SPECIFICATION: AS85049



AEROSPACE STANDARD

CONNECTOR ACCESSORIES, ELECTRICAL
STRAIN RELIEF, STRAIGHT, CATEGORY 4C
(FOR MIL-DTL-24308 CONNECTORS)

AS85049™/48
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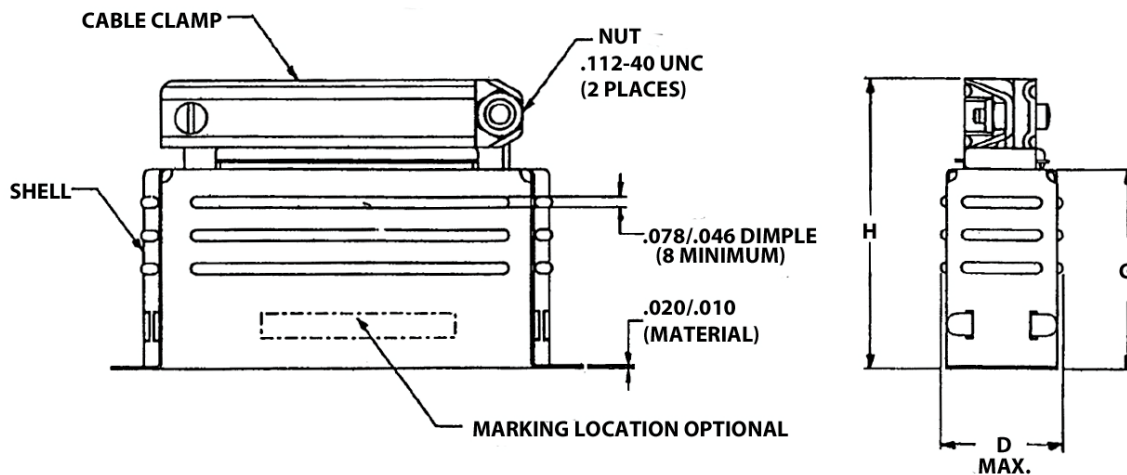


FIGURE 1 - ACCESSORY CONFIGURATIONS AND DIMENSIONS (CONTINUED)

TABLE 1 - FIGURE 1 METRIC EQUIVALENTS

INCHES	MILLIMETERS	INCHES	MILLIMETERS	INCHES	MILLIMETERS	INCHES	MILLIMETERS
.010	0.254	.046	1.17	.131	3.33	.312	7.92
.020	0.508	.078	1.98	.141	3.58		

TABLE 2 - FIGURE 1 DIMENSIONS

PART OR IDENTIFYING NUMBER (PIN)		SHELL SIZE	A	B	C	D	E	F	G	H
STEEL	NONMAGNETIC (BRASS)									
M85049/48-1-1	M85049/48-1-6	1	1.218 (30.94) 1.188 (30.18)		.989 (25.12) .979 (24.87)		.390 (9.91) .360 (9.14)	.390 (9.91) .360 (9.14)	.765 (19.43) .735 (18.67)	1.250 (31.75) 1.187 (30.15)
M85049/48-1-2	M85049/48-1-7	2	1.546 (39.27) 1.516 (38.51)	.514 (13.06)	1.317 (33.45) 1.307 (33.20)	.578 (14.68) MAX	.728 (18.49) .698 (17.73)			
M85049/48-1-3	M85049/48-1-8	3	2.093 (53.16) 2.063 (52.40)	.469 (11.91)	1.857 (47.17) 1.847 (46.91)		1.015 (25.78) .985 (25.02)	.327 (8.31) .297 (7.54)	1.015 (25.78) .985 (25.02)	1.563 (39.70) 1.500 (38.10)
M85049/48-1-4	M85049/48-1-9	4	2.733 (69.42) 2.703 (68.66)		2.505 (63.62) 2.495 (63.37)		1.390 (35.31) 1.360 (34.54)			
M85049/48-1-5	M85049/48-1-10	5	2.640 (67.06) 2.610 (66.29)	.623 (15.82) .578 (14.68)	2.411 (61.24) 2.401 (60.99)	.687 (17.45) MAX	1.421 (36.09) 1.391 (35.33)	.421 (10.69) .391 (9.93)	1.140 (28.96) 1.110 (28.19)	1.688 (42.88) 1.625 (41.28)

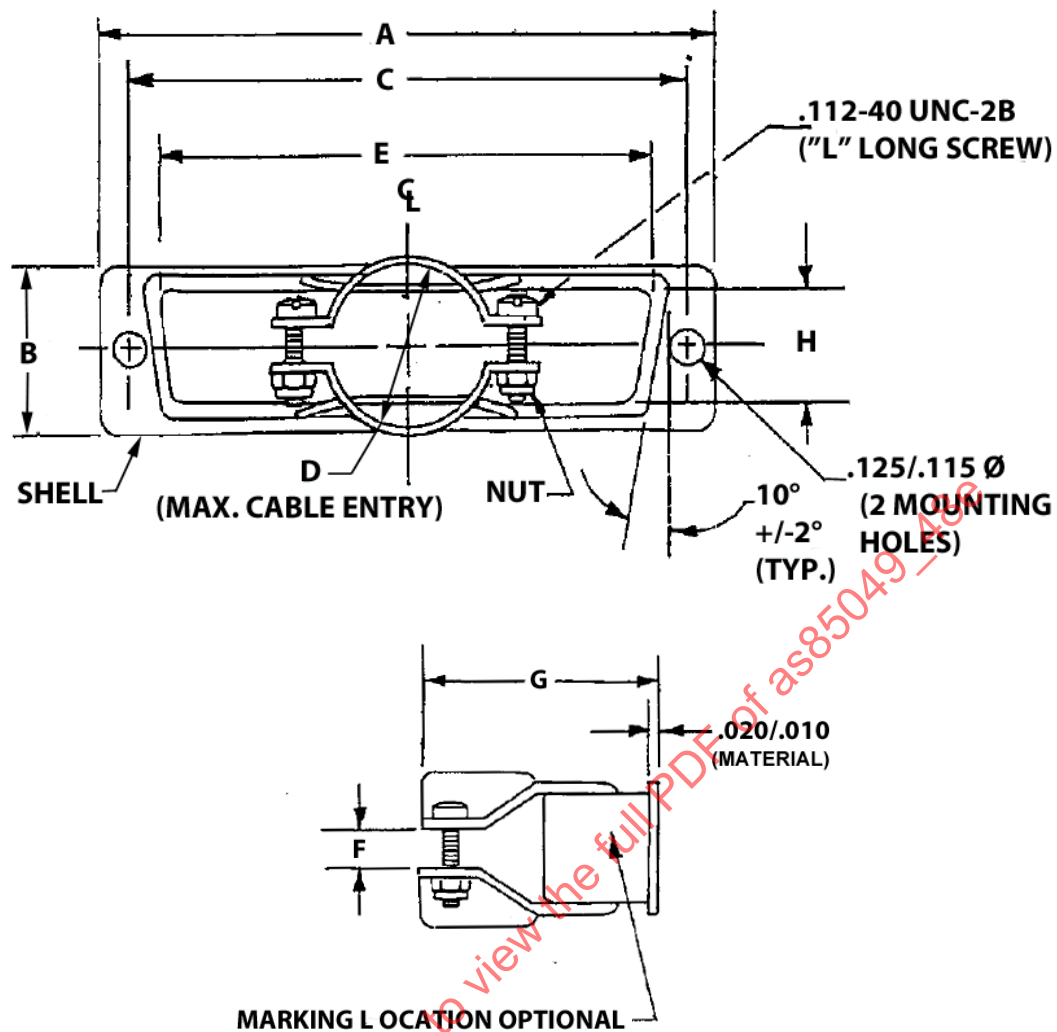


FIGURE 2 - ACCESSORY CONFIGURATIONS AND DIMENSIONS

TABLE 3 - FIGURE 2 METRIC EQUIVALENTS

INCHES	MILLIMETERS	INCHES	MILLIMETERS
.010	0.254	.115	2.92
.020	0.508	.125	3.18

TABLE 4 - FIGURE 2 DIMENSIONS

PIN		SHELL SIZE	A	B	C	D	E	F	G	H	L ±.031 (0.787)
STEEL	NONMAGNETIC (BRASS)										
M85049/48-2-1	M85049/48-2-6	1	1.223 (31.06) 1.193 (30.30)	.515 (13.08) .485 (12.32)	.989 (25.12) .979 (24.87)	.406 (10.31)	.676 (17.17) .646 (16.41)	.140 (3.56) .110 (2.79)	1.061 (26.95) 1.001 (25.43)	.359 (9.12) .329 (8.36)	.375 (9.53)
M85049/48-2-2	M85049/48-2-7	2	1.546 (39.27) 1.516 (38.51)		1.317 (33.45) 1.307 (33.20)		.999 (25.37) .969 (24.61)				
M85049/48-2-3	M85049/48-2-8	3	2.093 (53.16) 2.063 (52.40)		1.857 (47.17) 1.847 (46.91)	.593 (15.06)	1.530 (38.86) 1.500 (38.10)	.202 (5.13) .172 (4.37)	1.092 (27.74) 1.032 (26.21)		
M85049/48-2-4	M85049/48-2-9	4	2.733 (69.42) 2.703 (68.66)		2.505 (63.63) 2.495 (63.37)	.718 (18.24)	2.186 (55.52) 2.156 (54.76)	.265 (6.73) .235 (5.97)			
M85049/48-2-5	M85049/48-2-10	5	2.640 (67.06) 2.610 (66.29)		.624 (15.85) .594 (15.09)	2.411 (61.24) 2.401 (60.99)	.812 (20.62)	2.108 (53.54) 2.078 (52.78)	.327 (8.31) .297 (7.54)	.453 (11.51) .423 (10.74)	.625 (15.88)



AEROSPACE STANDARD

CONNECTOR ACCESSORIES, ELECTRICAL
STRAIN RELIEF, STRAIGHT, CATEGORY 4C
(FOR MIL-DTL-24308 CONNECTORS)

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SHEET 4 OF 9

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E

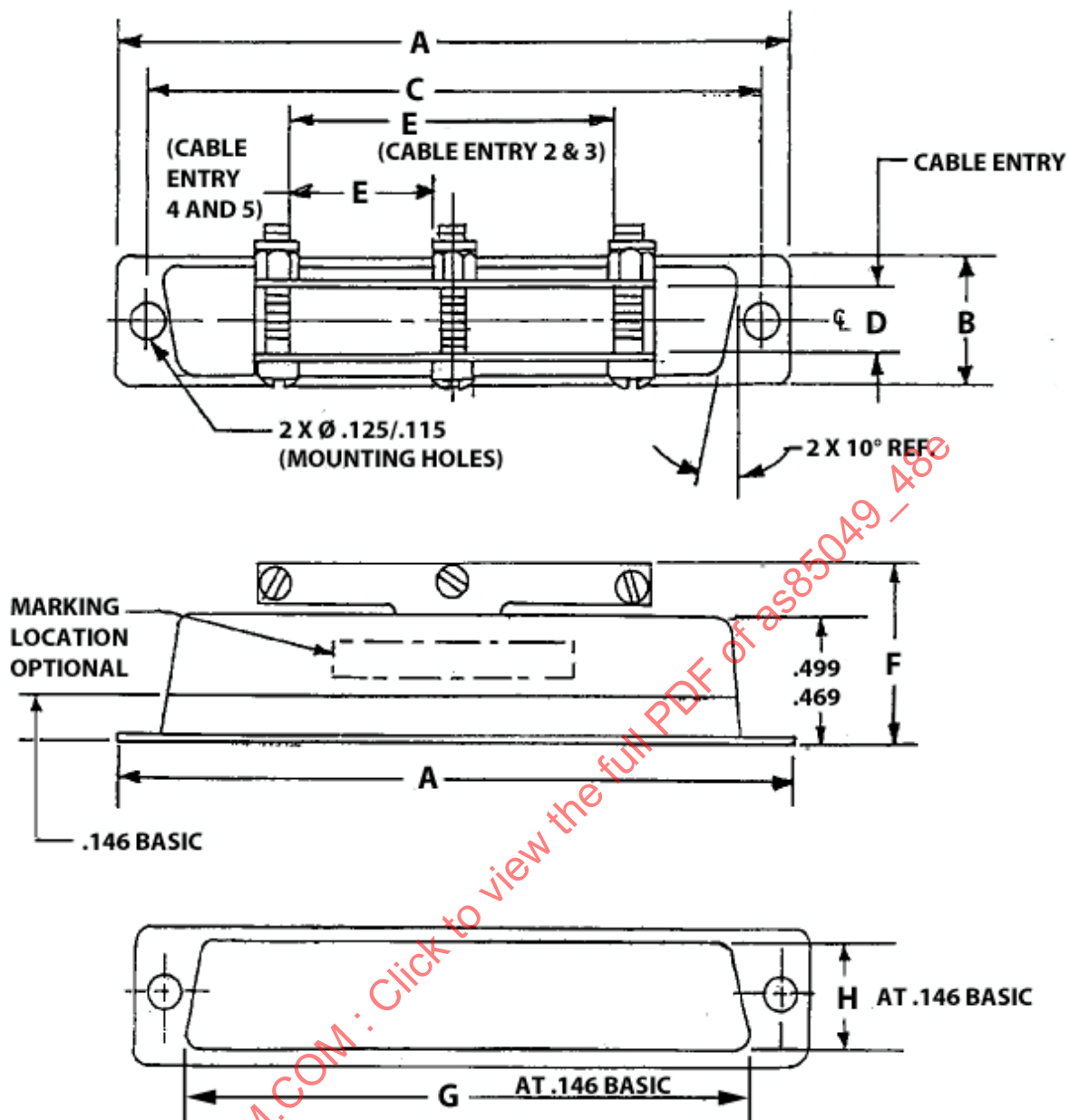


FIGURE 3 - ACCESSORY CONFIGURATIONS AND DIMENSIONS

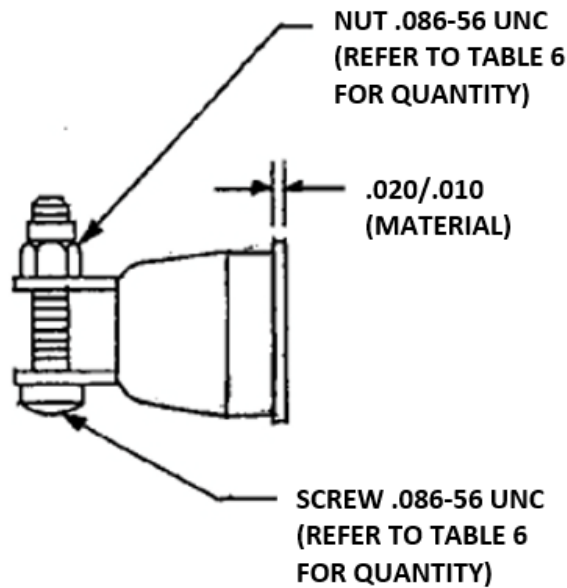


FIGURE 3 - ACCESSORY CONFIGURATIONS AND DIMENSIONS (CONTINUED)

TABLE 5 - FIGURE 3 METRIC EQUIVALENTS

INCHES	MILLIMETERS	INCHES	MILLIMETERS	INCHES	MILLIMETERS	INCHES	MILLIMETERS
.010	0.254	.115	2.92	.146	3.71	.499	12.67
.020	0.508	.125	3.18	.469	11.91		

TABLE 6 - FIGURE 3 DIMENSIONS

PART OR IDENTIFYING NUMBER (PIN)		SHELL SIZE	NUMBER OF SCREWS/ NUTS	A	B	C	D	F	G	H	E
STEEL	NONMAGNETIC (BRASS)										
M85049/48-3-2	M85049/48-3-7	2	2	1.546 (39.27) 1.516 (38.51)	.515 (13.08)	1.317 (33.45) 1.307 (33.20)		.679 (17.25)	1.106 (28.09) 1.076 (27.33)	.457 (11.61)	.345 (8.76) .295 (7.49)
M85049/48-3-3	M85049/48-3-8	3	2	2.093 (53.16) 2.063 (52.40)	.485 (12.32)	1.857 (47.17) 1.847 (46.91)	.311 (7.90) .281 (7.14)	.609 (15.47)	1.645 (41.78) 1.616 (41.05)	.427 (10.85)	.820 (20.83) .770 (19.56)
M85049/48-3-4	M85049/48-3-9	4	3	2.733 (69.42) 2.703 (68.66)		2.505 (63.63) 2.495 (63.37)			2.297 (58.34) 2.267 (57.58)		.725 (18.42) .675 (17.15)
M85049/48-3-5	M85049/48-3-10	5	3	2.640 (67.01) 2.610 (66.30)	.624 (15.85) .594 (15.09)	2.411 (61.24) 2.401 (60.99)	.405 (10.29) .375 (9.53)	.724 (18.39) .654 (16.61)	2.220 (56.39) 2.190 (55.63)	.580 (14.73) .550 (13.97)	

	AEROSPACE STANDARD	AS85049™/48 SHEET 6 OF 9	REV. E
	CONNECTOR ACCESSORIES, ELECTRICAL STRAIN RELIEF, STRAIGHT, CATEGORY 4C (FOR MIL-DTL-24308 CONNECTORS)		

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

1. DESIGN AND CONSTRUCTION:

THE ACCESSORY SHALL BE DESIGNED IN ACCORDANCE WITH FIGURES 1 THROUGH 3 AND TABLES 2 THROUGH 7. DIMENSIONS ARE IN INCHES AND APPLY AFTER PLATING, EXCEPT FOR THOSE DESIGNATED AS MATERIAL. METRIC EQUIVALENTS ARE GIVEN FOR GENERAL INFORMATION ONLY AND ARE BASED ON 1 INCH = 25.4 MM.

2. SCREWS AND NUTS ARE SHOWN ASSEMBLED FOR REFERENCE ONLY AND ARE TO BE SHIPPED UNASSEMBLED IN A COMMON CONTAINER WITH THE ACCESSORY.

3. MATERIAL AND FINISH: SEE TABLE 7.

FINISH DESIGNATOR:

FINISH F: YELLOW CHROMATE OVER CADMIUM IN ACCORDANCE WITH AMS-QQ-P-416.

FINISH N: ELECTROLESS NICKEL IN ACCORDANCE WITH AS85049.

TABLE 7 - MATERIAL AND FINISH

FIGURE NUMBER	DASH NUMBER	FINISH DESIG	MATERIAL			FINISH	
			SHELL	CABLE CLAMP	SCREW/NUT	SHELL / CABLE CLAMP	SCREW/NUT
1	1	F	LOW CARBON SHEET STEEL	LOW CARBON SHEET STEEL SAE 1010 .024 THICK	BRASS <u>7</u> /	F <u>2</u> /	F <u>2</u> / <u>3</u> /
	2						
	3	F			STEEL <u>1</u> /		
	4						
2	1	F			STEEL <u>1</u> /	F <u>2</u> /	F <u>2</u> / <u>3</u> /
	2						
	3	F					
	4						
3	2	F			BRASS <u>8</u> /	F <u>2</u> /	F <u>2</u> / <u>3</u> /
	3						
	4						
	5						
1, 2, 3	1	N			300 SERIES CORROSION RESISTANT STEEL <u>4</u> /	N <u>6</u> /	PASSIVATE
	2						
	3						
	4						
1	6	F	BRASS IN ACCORDANCE WITH ASTM B36 COMPOSITION C26000	BRASS IN ACCORDANCE WITH ASTM B36 COMPOSITION C26000, 1/2 HARD	BRASS <u>7</u> /	F <u>2</u> /	F <u>2</u> / <u>3</u> /
	7						
	8	F			BRASS <u>5</u> /		
	9						
2	6	F			BRASS <u>5</u> /	F <u>2</u> /	F <u>2</u> / <u>3</u> /
	7						
	8	F					
	9						
3	7	F			BRASS <u>8</u> /	F <u>2</u> /	F <u>2</u> / <u>3</u> /
	8						
	9						
	10						
1, 2, 3	6	N			300 SERIES CORROSION RESISTANT STEEL <u>4</u> /	N <u>6</u> /	PASSIVATE
	7						
	8						
	9						

1/ STEEL NUTS SHALL BE SELF-LOCKING, NASM21083N04 TYPE.

2/ CLASS F FINISH IS NOT FOR USE IN SPACE APPLICATIONS.

3/ CADMIUM PLATED SCREWS AND NUTS SHALL BE IN ACCORDANCE WITH AMS-QQ-P-416.

4/ CORROSION RESISTANT NUTS SHALL BE SELF-LOCKING, NASM21083C04 OR NASM21083C02 TYPE, AS REQUIRED.

5/ BRASS NUTS SHALL BE SELF-LOCKING, NASM21083B04 TYPE.

6/ CLASS N FINISH IS NOT FOR NAVY USE. AIR FORCE USE OF CLASS N FINISH IS FOR SPACE APPLICATIONS ONLY.

7/ NUTS SHALL BE EQUIVALENT TO NASM21083B04, EXCEPT .189/.181 ACROSS THE HEX FLAT.

8/ BRASS NUTS SHALL BE SELF-LOCKING, NASM21083B02 TYPE.

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