

REV.
B

SAE AS85049/42

RATIONALE

FEDERAL SUPPLY CLASS
5935

THIS REVISION IS REQUIRED TO INCORPORATE THE OUTSTANDING AMENDMENT, REVIEW FOR KNOWN TECHNICAL ISSUES AND UPDATE TO MEET SAE FORMAT GUIDELINES.

NOTICE

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

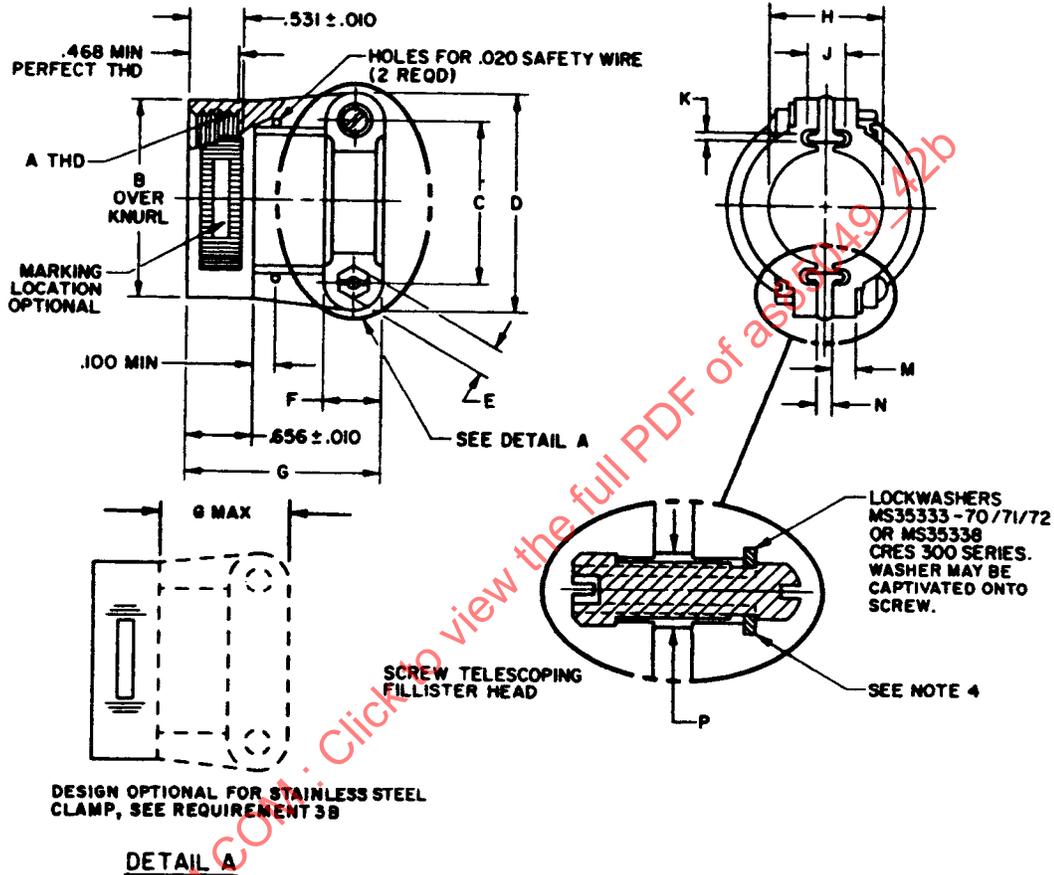
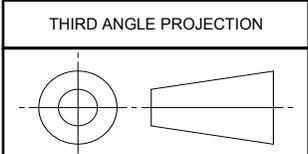


FIGURE 1 - CONFIGURATION AND DIMENSIONS

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CUSTODIAN: AE-8/AE-8C1

PROCUREMENT SPECIFICATION: AS85049

SAE Aerospace
An SAE International Group

AEROSPACE STANDARD

(R) CONNECTOR ACCESSORIES, ELECTRICAL, NONENVIRONMENTAL, STRAIN RELIEF, STRAIGHT, CATEGORY 4A (FOR AS50151 SOLDER TYPE, V THREAD OF MS310X CLASSES A, B, C OR K CONNECTORS)

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ISSUED 1998-08 REVISED 2011-03

TABLE 1 - DIMENSIONS

DASH NO.	A THREAD CLASS 2B	B DIA MAX	C ±.010	D ±.020	E +.000 -.007	F ±.010	G ±.020	H (SEE NOTE 6) WIRE BUNDLE ACCOMMODATION RANGE	
								MIN	MAX
								-4D	.625-24UNEF
-6D	.750-20UNEF	1.031 (26.19)	.763 (19.38)	1.125 (28.58)	.250 (6.35)	.375 (9.53)	1.281 (32.54)	.250 (6.35)	.437 (11.10)
-8D	.875-20UNEF	1.250 (31.75)	.942 (23.93) ±.032 (.813)	1.312 (33.32)	.250 (6.35)	.422 (10.72) ±.026 (.660)	1.281 (32.54)	.312 (7.92)	.562 (14.27)
-10D	1.000-20UNEF	1.250 (31.75)	.964 (24.49)	1.312 (33.32)	.250 (6.35)	.437 (11.10)	1.281 (32.54)	.350 (8.89)	.625 (15.88)
-12D	1.1875-18UNEF	1.437 (36.50)	1.130 (28.70)	1.531 (38.89)	.250 (6.35)	.437 (11.10)	1.312 (33.32)	.500 (12.70)	.750 (19.05)
-16D	1.4375-18UNEF	1.688 (42.88)	1.375 (34.93)	1.750 (44.45)	.250 (6.35)	.531 (13.49)	1.406 (35.71)	.625 (15.88)	.937 (23.80)
-20D	1.750-18UNS	2.000 (50.80)	1.703 (43.26)	2.093 (53.16)	.312 (7.92)	.531 (13.49)	1.593 (40.46)	.875 (22.23)	1.250 (31.75)
-24D	2.000-18UNS	2.250 (57.15)	1.906 (48.41)	2.343 (59.51)	.312 (7.92)	.531 (13.49)	1.625 (41.28)	1.000 (25.40)	1.375 (34.93)
-28D	2.250-16UN	2.500 (63.50)	2.218 (56.34)	2.750 (69.85)	.312 (7.92)	.812 (20.62)	1.900 (48.26)	1.250 (31.75)	1.625 (41.28)
-32D	2.500-16UN	2.750 (69.85)	2.500 (63.50)	3.000 (76.20)	.312 (7.92)	.812 (20.62)	1.900 (48.26)	1.437 (36.50)	1.875 (47.63)

TABLE 1 – DIMENSIONS (CONTINUED)

DASH NO.	J DIA ±.010	K ±.010	M ±.010	N ±.010	P ±.005	SCREW TELESCOPING, FIL. HD.
-4D	.218 (5.54)	.062 (1.57)	.156 (3.96)	.109 (2.77)	.166 (4.22)	#4-40 UNC-2*
-6D	.281 (7.14)	.062 (1.57)	.175 (4.45)	.125 (3.18)	.166 (4.22)	#4-40 UNC-2*
-8D	.312 (7.92)	.062 (1.57)	.211 (5.36) ±.018 (.457)	.125 (31.8)	.166 (4.22)	#4-40 UNC-2*
-10D	.312 (7.92)	.062 (1.57)	.218 (5.54)	.125 (3.18)	.166 (4.22)	#4-40 UNC-2*
-12D	.375 (9.53)	.062 (1.57)	.250 (6.35)	.156 (3.96)	.192 (4.88)	#6-32 UNC-2*
-16D	.375 (9.53)	.062 (1.57)*	.250 (6.35)	.188 (4.78)	.192 (4.88)	#6-32 UNC-2*
-20D	.475 (12.07)	.078 (1.98)	.312 (7.92)	.188 (4.78)	.217 (5.51)	#8-32 UNC-2*
-24D	.500 (12.70)	.093 (2.36)	.312 (7.92)	.250 (6.35)	.217 (5.51)	#8-32 UNC-2*
-28D	.625 (15.88)	.093 (2.36)	.312 (7.92)	.375 (9.53)	.217 (5.51)	#8-32 UNC-2*
-32D	.675 (17.15)	.125 (3.18)	.312 (7.92)	.375 (9.53)	.217 (5.51)	#8-32 UNC-2*

REQUIREMENTS:

1. DESIGN AND CONSTRUCTION:

DIMENSIONS AND CONFIGURATION: SEE FIGURE 1 AND TABLE 1.

2. MATERIAL AND FINISH:

A. ACCESSORY COMPONENTS SHALL BE AS SHOWN IN TABLE 2.

B. CLAMP ASSEMBLY SCREWS SHALL BE CORROSION RESISTANT STEEL IN ACCORDANCE WITH SAE AS85049.

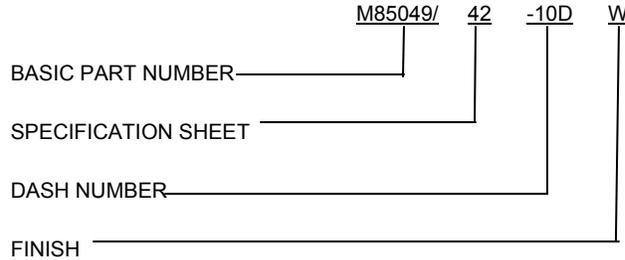
 An SAE International Group	AEROSPACE STANDARD (R) CONNECTOR ACCESSORIES, ELECTRICAL, NONENVIRONMENTAL, STRAIN RELIEF, STRAIGHT, CATEGORY 4A (FOR AS50151 SOLDER TYPE, V THREAD OF MS310X CLASSES A, B, C OR K CONNECTORS)	SAE AS85049/42 SHEET 2 OF 4	REV. B
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3. QUALIFICATION:

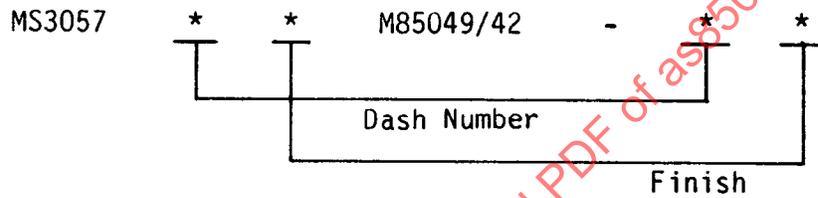
A. SEE SAE AS85049, CATEGORY 4A.

B. FOR THE STAINLESS STEEL CLAMP THE DIMENSIONS F, G, J, K, M, N, P AND $.656 \pm .010$ SHALL BE OPTIONAL, BUT SHALL NOT EXCEED THE DIMENSIONS LISTED IN TABLE 1.

4. PART NUMBER: SEE EXAMPLE BELOW:



5. SUPERSESSION DATA:



<u>Old</u>	<u>New</u>
DA	W
DC	W
DD	B
DN	N
DS	S

TABLE 2 - MATERIAL AND FINISH

COMPONENT	MATERIAL	FINISH
BODY	ALUMINUM ALLOY IN ACCORDANCE WITH SAE AS85049	1/ N, 2/ W, X, Y, 2/ Z
BODY	CORROSION RESISTANT STEEL IN ACCORDANCE WITH SAE AS85049	2/ B, S, XS, YS, 2/ ZS

1/ NOT FOR NAVY USE, RESTRICTED TO AIR FORCE SPACE APPLICATIONS ONLY.

2/ W, B, Z AND ZS FINISH NOT FOR USE IN SPACE APPLICATIONS. ALSO SEE SPECIFICATION NOTES.

NOTES:

- DIMENSIONS ARE IN INCHES AND APPLY AFTER PLATING.
- METRIC EQUIVALENTS ARE GIVEN FOR GENERAL INFORMATION ONLY AND SHALL BE BASED UPON 1.00 INCH = 25.4 MM.
- UNLESS OTHERWISE SPECIFIED, TOLERANCES SHALL BE: .XX = $\pm .01$; .XXX = $\pm .005$; ANGULAR: X DEGREES = ± 1 DEGREE 00'; X DEGREES XX' = ± 0 DEGREES 30'.

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