

REV.
C

SAE AS85049/47

FEDERAL SUPPLY CLASS
5935

RATIONALE

REVISED TO INCLUDE COMMENTS RECEIVED BY THE GOVERNMENT / INDUSTRY AND INCORPORATED THE AS85049/47B-A1 AMENDMENT. ALIGN SPECIFICATION WITH SAE GUIDELINES AND REVIEWED SPECIFICATION FOR KNOWN TECHNICAL ISSUES

NOTICE

THE REQUIREMENTS FOR PROCURING THE ACCESSORIES DESCRIBED HEREIN SHALL CONSIST OF THIS SPECIFICATION AND THE LATEST ISSUE OF SAE AS85049. AS85049/123 IS RECOMMENDED FOR NEW DESIGN.

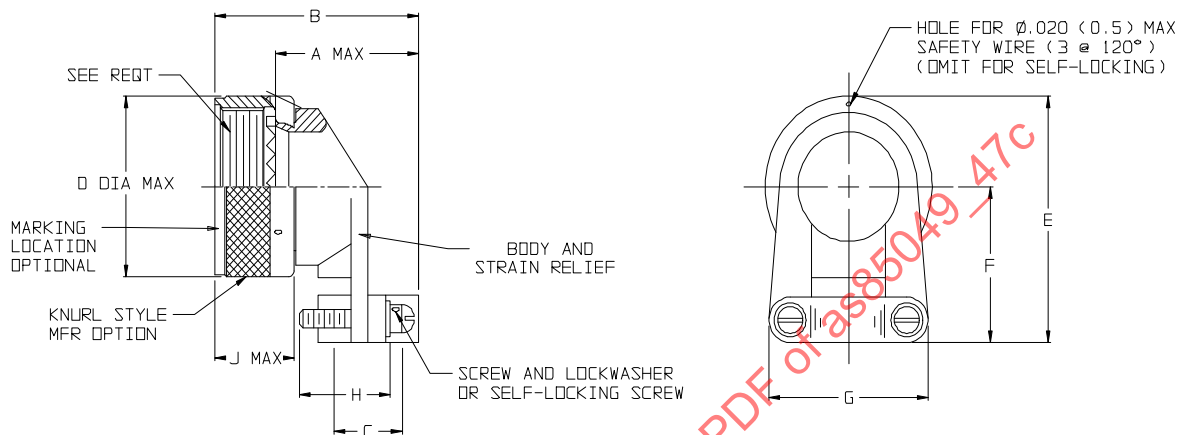
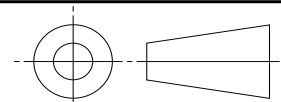


FIGURE 1 - DIMENSIONS AND CONFIGURATION (SELF-LOCKING AND NON-SELF-LOCKING)

SAE values your input. To provide feedback on this Technical Report, please visit <http://www.sae.org/technical/standards/AS85049/47C>

THIRD ANGLE PROJECTION



CUSTODIAN: AE-8/AE-8C1

PROCUREMENT SPECIFICATION: AS85049

SAE Aerospace
An SAE International Group

AEROSPACE STANDARD

(R) CONNECTOR ACCESSORIES, ELECTRICAL, STRAIN RELIEF, 90°, SELF-LOCKING AND NON-SELF-LOCKING, CATEGORY 4B (FOR MIL-DTL-38999 SERIES I AND II CONNECTORS)

SAE AS85049/47
SHEET 1 OF 5

REV.
C

TABLE 1 - DIMENSIONS (SELF-LOCKING AND NON-SELF-LOCKING)

DASH NUMBER	CONNECTOR SHELL SIZE		A MAX (SEE NOTE 7)	B MAX OPEN	C WIRE BUNDLE ACCOMMODATION RANGE SEE NOTE 6		D MAX	
	SERIES II	SERIES I			MAX	MIN	SELF- LOCKING	NON-SELF- LOCKING
8	8	9	1.16 (29.5)	1.38 (35.1)	.234 (5.94)	.098 (2.49)	.86 (21.8)	.75 (19.1)
10	10	11	1.16 (29.5)	1.38 (35.1)	.234 (5.94)	.153 (3.89)	.98 (24.9)	.85 (21.6)
12	12	13	1.24 (31.5)	1.46 (37.1)	.328 (8.33)	.190 (4.83)	1.16 (29.5)	1.00 (25.4)
14	14	15	1.41 (35.8)	1.63 (41.4)	.457 (11.61)	.260 (6.60)	1.28 (32.5)	1.10 (27.9)
16	16	17	1.58 (40.1)	1.80 (45.7)	.614 (15.60)	.283 (7.19)	1.41 (35.8)	1.25 (31.8)
18	18	19	1.60 (40.6)	1.82 (46.2)	.634 (16.10)	.325 (8.26)	1.52 (38.6)	1.40 (35.6)
20	20	21	1.68 (42.7)	1.90 (48.3)	.698 (17.73)	.343 (8.71)	1.64 (41.7)	1.50 (38.1)
22	22	23	1.82 (46.2)	2.04 (51.1)	.823 (20.90)	.381 (9.68)	1.77 (45.0)	1.65 (41.9)
24	24	25	1.93 (49.0)	2.15 (54.6)	.853 (21.67)	.418 (10.62)	1.89 (48.0)	1.75 (44.5)

TABLE 1 - DIMENSIONS (SELF-LOCKING AND NON-SELF-LOCKING) - CONTINUED

DASH NUMBER	CONNECTOR SHELL SIZE		E MAX	F MAX	G MAX	H SCREW LENGTH +.000 -.062	SCREW SIZE	J MAX	
	SERIES II	SERIES I						SELF- LOCKING	NON-SELF- LOCKING
8	8	9	1.38 (35.1)	1.00 (25.4)	.85 (21.6)	.500 (12.70)	6-32	.590 (14.99)	.540 (13.72)
10	10	11	1.53 (38.9)	1.10 (27.9)	.90 (22.9)	.500 (12.70)	6-32	.590 (14.99)	.540 (13.72)
12	12	13	1.60 (40.6)	1.10 (27.9)	1.10 (27.9)	.625 (15.88)	6-32	.590 (14.99)	.540 (13.72)
14	14	15	1.80 (45.7)	1.25 (31.8)	1.15 (29.2)	.750 (19.05)	6-32	.590 (14.99)	.540 (13.72)
16	16	17	1.93 (49.0)	1.30 (33.0)	1.30 (33.0)	.750 (19.05)	6-32	.590 (14.99)	.540 (13.72)
18	18	19	2.05 (52.1)	1.35 (34.3)	1.50 (38.1)	.750 (19.05)	8-32	.590 (14.99)	.540 (13.72)
20	20	21	2.35 (59.7)	1.60 (40.6)	1.60 (40.6)	.875 (22.23)	8-32	.590 (14.99)	.540 (13.72)
22	22	23	2.58 (65.5)	1.75 (44.5)	1.70 (43.2)	1.000 (25.40)	8-32	.590 (14.99)	.540 (13.72)
24	24	25	2.73 (69.3)	1.85 (47.0)	1.80 (45.7)	1.125 (28.58)	8-32	.590 (14.99)	.540 (13.72)

NOTES:

1. DIMENSIONS ARE IN INCHES.
2. DIMENSIONS APPLY AFTER PLATING.
3. METRIC EQUIVALENTS ARE GIVEN FOR GENERAL INFORMATION ONLY.
4. MILLIMETERS ARE IN PARENTHESES.
5. UNLESS OTHERWISE SPECIFIED TOLERANCES SHALL BE: .XX = $\pm .03$ AND .XXX = $\pm .015$ ANGULAR TOLERANCES X = ± 2 .
6. WIRE BUNDLE ACCOMMODATION RANGE DIMENSION IS DEFINED AS THE ENVELOPE AREA OF THE WIRE BUNDLE. THIS DIMENSION IS NOT MEANT TO DEFINE THE CLAMP HARDWARE LIMITS.
7. THE "A" DIMENSION IS MEASURED FROM THE BOTTOM OF THE ACCESSORY TEETH TO THE REAR OF THE SADDLE CLAMP.

 An SAE International Group	AEROSPACE STANDARD		SAE AS85049/47 SHEET 3 OF 5	REV. C
	(R) CONNECTOR ACCESSORIES, ELECTRICAL, STRAIN RELIEF, 90°, SELF-LOCKING AND NON-SELF-LOCKING, CATEGORY 4B (FOR MIL-DTL-38999 SERIES I AND II CONNECTORS)			

REQUIREMENTS:

1. DESIGN AND CONSTRUCTION:

DIMENSIONS AND CONFIGURATION: SEE FIGURE 1 AND TABLE 1.

2. INTERFACE DIMENSIONS: IN ACCORDANCE WITH SAE AS85049, FIGURE 2.

3. ACCESSORY: CONSISTS OF A COUPLING NUT AND BODY. THE COUPLING NUT SHALL BE CAPTIVATED TO AND SHALL BE ROTATEABLE.

4. DETENTED SELF-LOCKING PROVIDES A POSITIVE AUDIBLE DETENTED COUPLING. OPTION "N" IS A FREE SPINNING SELF-LOCKING COUPLING.

5. MATERIAL AND FINISH: SEE TABLE 2.

TABLE 2 - MATERIAL AND FINISH

FIGURE	MATERIAL	FINISH
1	ALUMINUM ALLOY IN ACCORDANCE WITH SAE AS85049	N 1/ W 2/
	CORROSION RESISTANT STEEL 300 SERIES IN ACCORDANCE WITH SAE AS85049	S

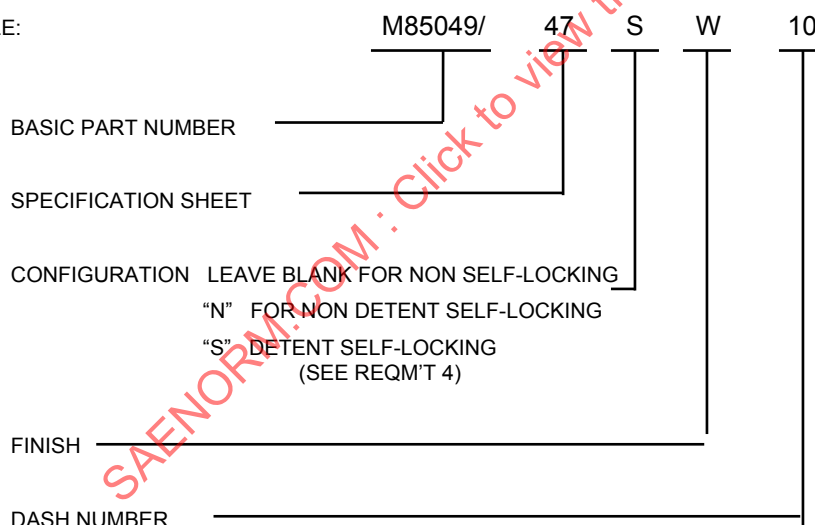
1/ NOT FOR NAVY USE. AIR FORCE USE IS FOR SPACE APPLICATIONS ONLY. W IS THE PREFERRED FINISH.
2/ W IS NOT FOR USE IN SPACE APPLICATION. ALSO SEE SPECIFICATION NOTE

6. CLAMP SCREWS AND LOCKWASHERS: 300 SERIES CORROSION-RESISTANT STEEL, PASSIVATE.

7. ACCESSORIES ARE NOT RECOMMENDED FOR CONNECTORS USING CO-AX, DATA BUS, NO. 8 CONDUCTORS. USE SAE AS85049/123. WHEN USED WITH MAXIMUM DENSITY ARRANGEMENTS, CLAMP MAY OPEN OUTER WIRE SEALS.

PART OR IDENTIFYING NUMBER (PIN):

EXAMPLE:



QUALIFICATION: SEE SAE AS85049, CATEGORY 4B.

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