

REV.
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SAE AS85049/118

FEDERAL SUPPLY CLASS
5935

RATIONALE

REVISED TO INCLUDE COMMENTS RECEIVED BY THE GOVERNMENT / INDUSTRY AND INCORPORATED THE AS85049/118A-A2 AMENDMENT. ALIGN SPECIFICATION WITH SAE GUIDELINES AND REVIEWED SPECIFICATION FOR KNOWN TECHNICAL ISSUES.

NOTICE

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

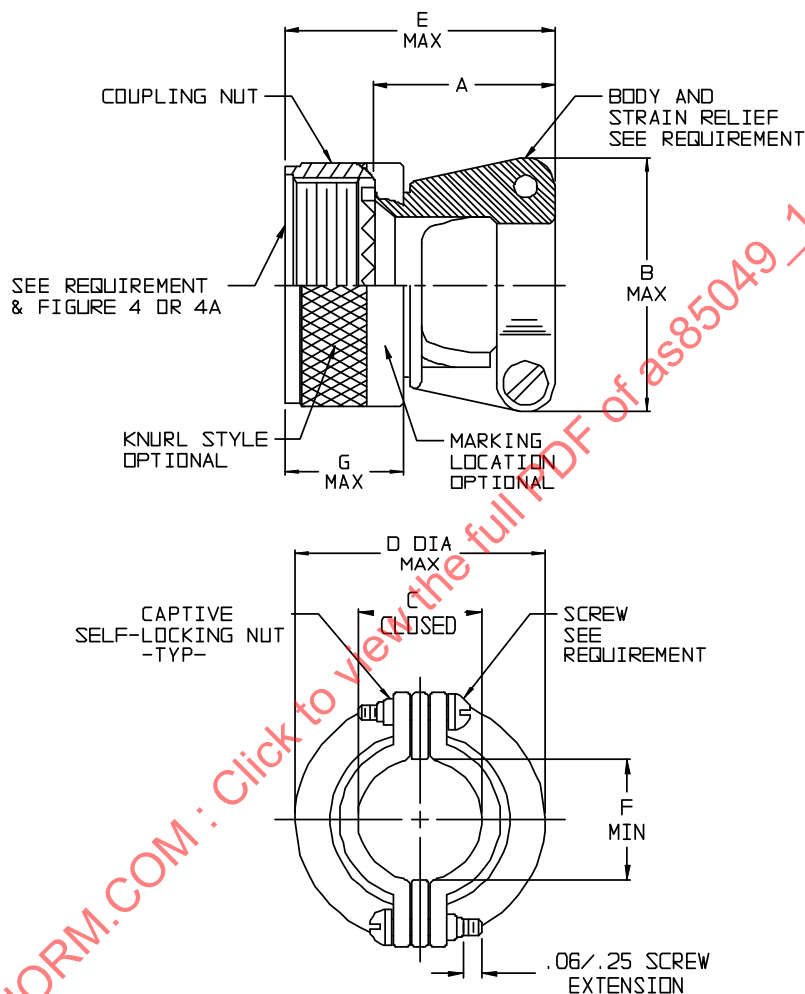
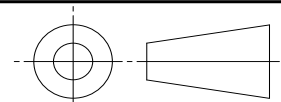


FIGURE 1 - DIMENSION AND CONFIGURATION

SAE values your input. To provide feedback on this Technical Report, please visit <http://www.sae.org/technical/standards/AS85049/118B>

THIRD ANGLE PROJECTION



CUSTODIAN: AE-8/AE-8C1

PROCUREMENT INFORMATION: AS85049

SAE Aerospace
An SAE International Group

AEROSPACE STANDARD

(R) CONNECTOR ACCESSORIES, ELECTRICAL, STRAIN RELIEF, STRAIGHT SELF-LOCKING, NON-SELF-LOCKING, CATEGORY 4B (FOR AS50151 CRIMP, MIL-DTL-26482 SERIES 2, AS81703 SERIES 3, AND MIL DTL-83723 SERIES III CONNECTORS)

SAE AS85049/118
SHEET 1 OF 3

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TABLE 1 - SHELL SIZES AND DIMENSIONS

DASH NO.	CONNECTOR SHELL SIZE				A LENGTH 1/	B DIA MAX	C ±.031 DIM 2/	D MAX DIA	E MAX OVERALL LENGTH	F MIN	G MAX	SCREW SIZE (REF)
	MIL-DTL- 83723 SERIES 3	AS50151 CRIMP	AS81703 SERIES 3	MIL-DTL- 26482 SERIES 2								
-03	N/A	N/A	3	N/A	.77/.51 (19.6/12.9)	.88 (22.4)	.219 (5.6)	.95 (24.1)	1.14 (29.0)	.22 (5.6)	.710 (18.0)	4-40
-08	8	8S	N/A	8	.77/.51 (19.6/12.9)	.88 (22.4)	.219 (5.6)	.89 (22.6)	1.14 (29.0)	.22 (5.6)	.710 (18.0)	4-40
-10	10	10S,10SL	N/A	10	.89/.64 (22.6/16.3)	.94 (23.9)	.264 (6.7)	1.01 (25.7)	1.25 (31.8)	.27 (6.9)	.710 (18.0)	4-40
-12	12	12,12S	7	12	1.01/.76 (25.7/19.3)	1.12 (28.4)	.344 (8.7)	1.14 (29.0)	1.38 (35.1)	.35 (8.9)	.710 (18.0)	4-40
-14	14	14,14S	12	14	1.01/.76 (25.7/19.3)	1.19 (30.2)	.460 (11.7)	1.26 (32.0)	1.38 (35.1)	.47 (11.9)	.710 (18.0)	4-40
-16	16	16,16S	19	16	1.13/.88 (28.7/22.4)	1.44 (36.6)	.545 (13.8)	1.39 (35.3)	1.50 (38.1)	.55 (14.0)	.710 (18.0)	4-40
-18	18	18	27	18	1.38/1.13 (35.1/28.7)	1.56 (39.6)	.615 (15.7)	1.51 (38.4)	1.75 (44.5)	.62 (15.7)	.710 (18.0)	6-32
-20	20	20	37	20	1.51/1.25 (38.4/31.6)	1.69 (42.9)	.698 (17.7)	1.64 (41.7)	1.88 (47.8)	.70 (17.8)	.710 (18.0)	6-32
-22	22	22	N/A	22	1.62/1.38 (41.1/35.1)	1.75 (44.5)	.780 (19.8)	1.76 (44.7)	2.00 (50.8)	.78 (19.8)	.710 (18.0)	6-32
-24	24	24	N/A	24	1.76/1.51 (44.7/38.4)	1.88 (47.8)	.850 (21.6)	1.89 (48.0)	2.13 (54.1)	.85 (21.6)	.710 (18.0)	6-32
-28	N/A	28	N/A	N/A	2.03/1.67 (51.6/42.4)	2.12 (53.8)	.950 (24.1)	2.14 (54.4)	2.56 (65.0)	.95 (24.1)	.890 (22.6)	8-32
-32	N/A	32	N/A	N/A	2.28/1.87 (57.9/46.7)	2.50 (63.5)	1.015 (25.3)	2.40 (61.0)	2.81 (71.4)	1.02 (25.9)	.890 (22.6)	8-32
-36	N/A	36	N/A	N/A	2.53/2.22 (64.3/56.4)	2.62 (66.5)	1.187 (30.1)	2.64 (67.1)	3.06 (77.7)	1.19 (30.2)	.890 (22.6)	8-32
-40	N/A	40	N/A	N/A	2.63/2.41 (66.8/61.2)	2.68 (68.1)	1.220 (31.0)	2.89 (73.4)	3.16 (80.3)	1.22 (31.0)	.890 (22.6)	8-32
-44	N/A	44	N/A	N/A	3.00/2.80 (76.2/71.1)	3.00 (76.2)	1.500 (37.3)	3.14 (79.8)	3.53 (89.7)	1.50 (37.3)	.890 (22.6)	8-32
-48	N/A	48	N/A	N/A	3.40/3.20 (86.4/81.3)	3.50 (88.9)	1.625 (41.3)	3.39 (86.1)	3.93 (99.8)	1.63 (41.3)	.890 (22.6)	8-32
-61	N/A	N/A	61	N/A	1.76/1.514 (44.7/38.4)	1.88 (47.8)	.850 (21.6)	1.95 (49.5)	2.13 (54.1)	.85 (21.6)	.710 (18.0)	8-32

1/ THE "A" DIMENSION IS MEASURED FROM THE BOTTOM OF THE ACCESSORY TEETH TO THE END OF THE STRAIN RELIEF
2/ CABLE ENTRY IS MEASURED WITH SADDLE BARS CLOSED AND BOTTOMED ON CLAMP EARS.

NOTES:

1. DIMENSIONS ARE IN INCHES.
2. DIMENSIONS APPLY AFTER PLATING.
3. METRIC EQUIVALENTS ARE GIVEN FOR GENERAL INFORMATION ONLY AND ARE BASED ON 25.4 MM = 1 INCH.
4. MILLIMETERS ARE IN PARENTHESES.
5. STRAIN RELIEF ACCOMMODATES AS85049/127 BUSHING STRIP.

REQUIREMENTS:

DESIGN AND CONSTRUCTION:

1. DIMENSIONS AND CONFIGURATION: SEE FIGURE 1 AND TABLE 1.
2. INTERFACE DIMENSIONS SHALL CONFORM TO SAE AS85049, FIGURE 4 OR 4A
3. ACCESSORIES CONSIST OF A COUPLING NUT, BODY AND STRAIN RELIEF THE COUPLING NUT SHALL BE CAPTIVATED TO, AND ROTATABLE ON THE BODY.

 An SAE International Group	AEROSPACE STANDARD	SAE AS85049/118 SHEET 2 OF 3	REV. B
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