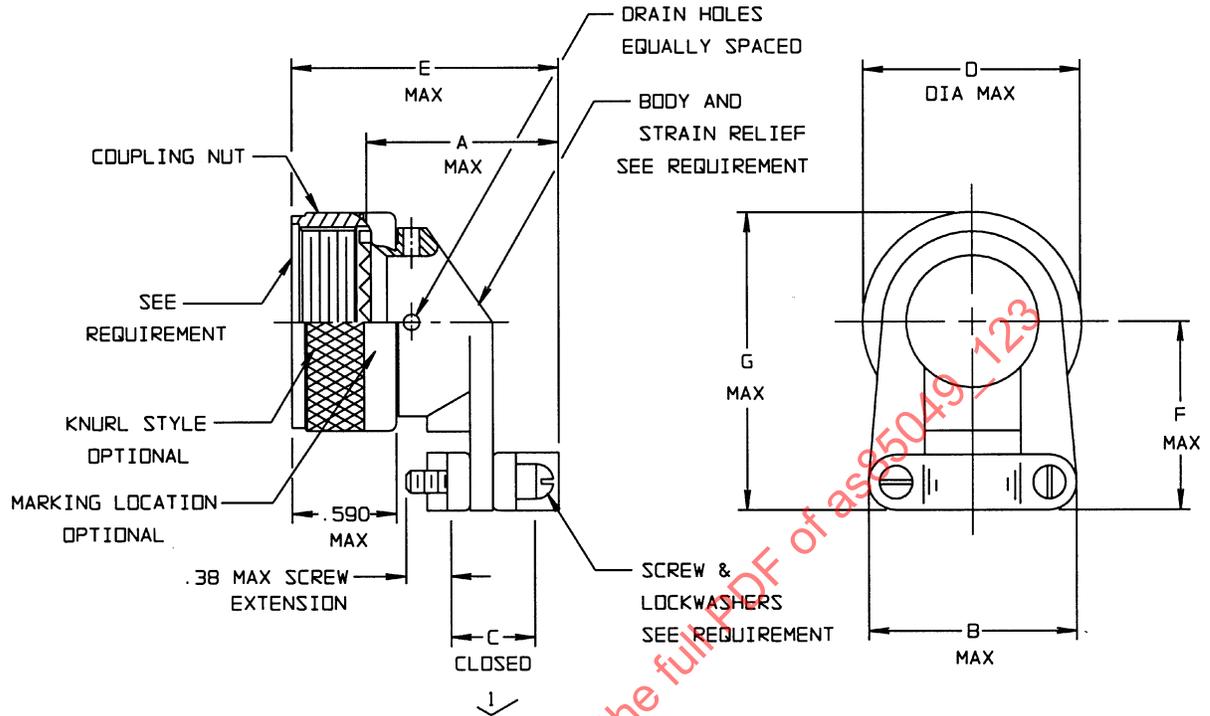


THE REQUIREMENTS FOR ACQUIRING THE ACCESSORIES DESCRIBED HEREIN SHALL CONSIST OF THIS SPECIFICATION AND THE LATEST ISSUE OF SAE AS85049.

AS85049/123

SAE Technical Standards Board Rules provide that: "This report is published by SAE to advance the state of technical and engineering sciences. The use of this report is entirely voluntary, and its applicability and suitability for any particular use, including any patent infringement arising therefrom, is the sole responsibility of the user." SAE reviews each technical report at least every five years at which time it may be reaffirmed, revised, or cancelled. SAE invites your written comments and suggestions.

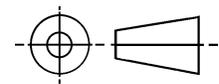


1/ CABLE ENTRY IS MEASURED WITH SADDLE BARS CLOSED AND BOTTOMED ON CLAMP EARS

FIGURE 1: DIMENSION AND CONFIGURATION

SAENORM.COM : Click to view the full PDF of as85049/123

THIRD ANGLE PROJECTION



ISSUED 2003-06

CUSTODIAN: SAE AE-8/AE-8C1

SAE Aerospace
An SAE International Group

AEROSPACE STANDARD

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

AS85049/123
SHEET 1 OF 4

AS85049/123

TABLE I. SHELL SIZES AND DIMENSIONS

DASH NO	CONNECTOR SHELL SIZE		A MAX LENGTH ↓	B MAX	C ± .031 DIM ↘	D MAX DIA	E MAX OVERALL LENGTH	F MAX	G MAX	SCREW SIZE (REF)
	SER. II	SER. I								
08	8	9	.86 (21.8)	.88 (22.4)	.219 (5.56)	.858 (21.79)	1.05 (26.7)	.81 (20.6)	1.24 (31.5)	6-32
10	10	11	.94 (23.9)	.94 (23.9)	.264 (6.71)	.984 (24.99)	1.13 (28.7)	.87 (22.1)	1.36 (33.5)	6-32
12	12	13	1.14 (29.0)	1.12 (28.4)	.344 (8.74)	1.157 (29.39)	1.33 (33.8)	.93 (23.6)	1.51 (38.4)	6-32
14	14	15	1.20 (30.5)	1.19 (30.2)	.460 (11.68)	1.279 (32.49)	1.39 (35.3)	.99 (25.1)	1.63 (41.4)	6-32
16	16	17	1.34 (34.0)	1.44 (36.6)	.545 (13.84)	1.406 (35.71)	1.53 (38.9)	1.06 (26.9)	1.76 (44.7)	6-32
18	18	19	1.46 (37.1)	1.56 (39.6)	.615 (15.62)	1.516 (34.50)	1.65 (41.9)	1.23 (31.2)	1.99 (50.5)	8-32
20	20	21	1.58 (40.1)	1.69 (42.9)	.698 (17.73)	1.642 (41.70)	1.77 (44.9)	1.30 (33.0)	2.12 (53.8)	8-32
22	22	23	1.71 (43.4)	1.75 (44.5)	.780 (19.81)	1.768 (44.91)	1.90 (48.3)	1.36 (34.5)	2.24 (56.9)	8-32
24	24	25	1.83 (46.5)	1.88 (47.8)	.850 (21.59)	1.869 (47.98)	2.02 (51.3)	1.42 (36.1)	2.35 (59.7)	8-32

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

NOTES:

- DIMENSIONS ARE IN INCHES.
- DIMENSIONS APPLY AFTER PLATING.
- METRIC EQUIVALENTS ARE GIVEN FOR GENERAL INFORMATION ONLY AND ARE BASED ON 25.4 mm = 1 INCH.
- MILLIMETERS ARE IN PARENTHESES.
- IF SCREWS WITH WIRE HOLES ARE REQUIRED PROCURER MAY REPLACE WITH MS35275 SCREWS AND MS35338 LOCKWASHERS.

SAE Aerospace
An SAE International Group

AEROSPACE STANDARD

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

AS85049/123
SHEET 2 OF 4

REQUIREMENTS:

CONNECTOR ACCESSORY DESIGN AND CONSTRUCTION:

1. DIMENSIONS AND CONFIGURATION: SEE FIGURE 1 AND TABLE I.
2. INTERFACE DIMENSIONS SHALL CONFORM TO SAE AS85049, FIGURE 2
3. ACCESSORIES CONSIST OF A COUPLING NUT, BODY AND STRAIN RELIEF THE COUPLING NUT SHALL BE CAPTIVATED TO, AND ROTABLE ON THE BODY.
4. DETENTED SELF-LOCKING PROVIDES A POSITIVE AUDIBLE DETENTED COUPLING.
5. THE STRAIN RELIEF SHALL ACCOMMODATE SAE AS85049/127 BUSHING STRIP
6. CLAMPS SHALL HAVE NO PROTRUSIONS OR SHARP EDGES WHICH MAY PINCH CABLE.
7. MATERIAL AND FINISH: SEE TABLE II. ACCESSORIES SHALL BE AS SHOWN IN TABLE II.
8. CLAMP AND SCREWS: 300 SERIES CORROSION-RESISTANT STEEL, PASSIVATE.
9. SELF-LOCKING DEVICE: CORROSION RESISTANT MATERIAL.

TABLE II. MATERIAL AND FINISH

FIGURE	MATERIAL	FINISH
1	ALUMINUM ALLOY IN ACCORDANCE WITH SAE-AS85049	A N 1/ W 2/
	CORROSION RESISTANT STEEL 300 SERIES IN ACCORDANCE WITH SAE-AMS-763	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.

SELF-LOCKING DEVICES DESIGN AND CONSTRUCTION:

1. COUPLINGS WITH SELF-LOCKING DEVICES SHALL MEET ALL THE REQUIREMENTS SPECIFIED HEREIN FOR ITS SPECIFIC CATEGORY AND THE FOLLOWING ADDITIONAL TEST:
 - A. LIFE CYCLE: SEE AS85049 PARA 4.6.15
 - B. VIBRATION: SEE AS85049 PARA 3.5.4.1