

REV.
A

SAE AS85049/37

RATIONALE

REVISED TO INCLUDE COMMENTS RECEIVED BY THE GOVERNMENT / INDUSTRY AND INCORPORATED THE AS85049/37-A1 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 SHEET AND THE LATEST ISSUE OF SAE AS85049.

FEDERAL SUPPLY CLASS
5935

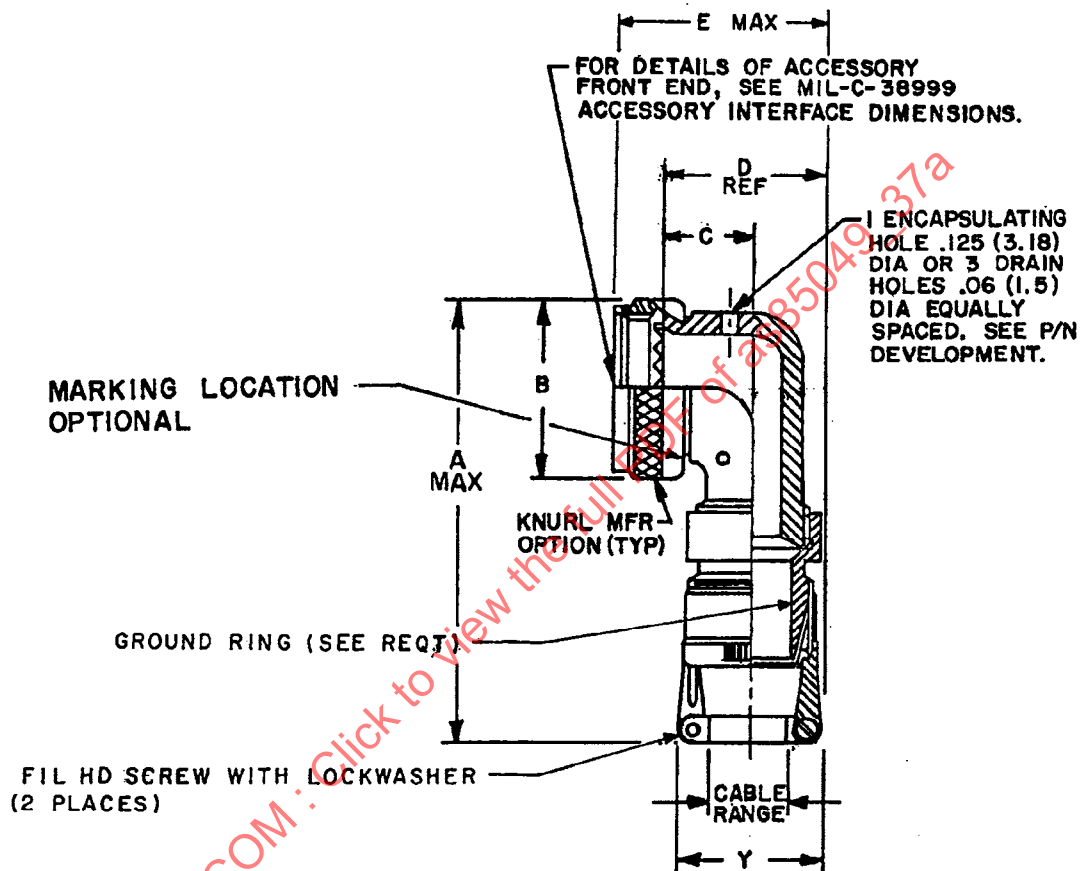


FIGURE 1 – DIMENSIONS AND CONFIGURATION

SAE values your input. To provide feedback on this Technical Report, please visit <http://www.sae.org/technical/standards/AS85049/37A>

THIRD ANGLE PROJECTION



CUSTODIAN: AE-8C1

PROCUREMENT SPECIFICATION: AS85049

SAE Aerospace
An SAE International Group

AEROSPACE STANDARD

(R) CONNECTOR ACCESSORIES, ELECTRICAL, BACKSHELL, NONENVIRONMENTAL, SPLIT 90°, EMI/RFI SHIELDED TERMINATION, CATEGORY 3B (FOR MIL-DTL-38999 SERIES I AND II CONNECTORS)

SAE AS85049/37
SHEET 1 OF 4

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ISSUED 2000-05 REAFFIRMED 2006-01 REVISED 2011-01

TABLE 1 - SHELL SIZE AND DIMENSIONS

SHELL SIZE	FITS CONNECTOR SHELL SIZE		CLAMP SIZE (SEE TABLE 2)	A MAX.	B MAX.	C MAX.	D (REF)	E MAX.
	SERIES II	SERIES I						
8	8	9	01 AND 02	2.88 (73.2)	.75 (19.1)	.72 (18.3)	1.21 (30.7)	1.45 (36.8)
10	10	11	01 THRU 03	2.92 (74.2)	.85 (21.6)	.72 (18.3)	1.25 (31.8)	1.49 (37.8)
12	12	13	02 THRU 04	3.06 (77.7)	1.00 (25.4)	.80 (20.3)	1.36 (34.5)	1.60 (40.6)
14	14	15	02 THRU 05	3.24 (82.3)	1.10 (27.9)	.85 (21.6)	1.47 (37.3)	1.71 (43.4)
16	16	17	02 THRU 06	3.44 (87.4)	1.25 (31.8)	.91 (23.1)	1.60 (40.6)	1.84 (46.7)
18	18	19	03 THRU 06	3.73 (94.7)	1.40 (35.6)	1.00 (25.4)	1.75 (44.5)	1.99 (50.5)
20	20	21	03 THRU 07	3.94 (100.1)	1.50 (38.1)	1.05 (26.7)	1.82 (46.2)	2.06 (52.3)
22	22	23	03 THRU 08	4.14 (105.2)	1.65 (41.9)	1.10 (27.9)	1.97 (50.0)	2.21 (56.1)
24	24	25	04 THRU 09	4.19 (106.4)	1.75 (44.5)	1.20 (30.5)	2.15 (54.6)	2.30 (58.4)

TABLE 2 – CLAMP SIZE AND DIMENSIONS

CLAMP SIZE	Y MAX.	CABLE RANGE 6/	
		MIN.	MAX.
01	.781 (19.84)	.062 (1.57)	.125 (3.18)
02	.969 (24.61)	.125 (3.18)	.250 (6.35)
03	1.062 (26.97)	.250 (6.35)	.375 (9.52)
04	1.156 (29.36)	.312 (7.92)	.500 (12.70)
05	1.250 (31.75)	.437 (11.10)	.625 (15.88)
06	1.375 (34.92)	.562 (14.27)	.750 (19.05)
07	1.500 (38.10)	.687 (17.45)	.875 (22.22)
08	1.625 (41.28)	.812 (20.62)	1.000 (25.40)
09	1.750 (44.45)	.937 (23.80)	1.125 (28.58)

NOTES:

1. DIMENSIONS ARE IN INCHES.
2. METRIC EQUIVALENTS ARE GIVEN FOR GENERAL INFORMATION ONLY AND ARE BASED ON 25.4 MM = 1 INCH.
3. MILLIMETERS ARE SHOWN IN PARENTHESES.
4. BACKSHELL MUST BE DIRECT COUPLED (NO LOOSE FOLLOWER AND SET SCREWS). REAR ADAPTER MAY BE OMITTED WHEN DASH NUMBER AND CLAMP SIZE PERMITS.
5. SEE TABLE 1 FOR MINIMUM AND MAXIMUM CLAMP SIZE AVAILABLE WITH EACH ACCESSORY SHELL SIZE. SEE TABLE 2 FOR CABLE RANGE FOR EACH CLAMP SIZE.
6. CABLE RANGE DIAMETERS ARE DEFINED AS THE ENVELOPE AREA OF THE CABLE OR WIRE BUNDLE DIAMETER. THESE DIAMETERS ARE NOT MEANT TO DEFINE THE CABLE CLAMP HARDWARE LIMITS.

REQUIREMENTS:

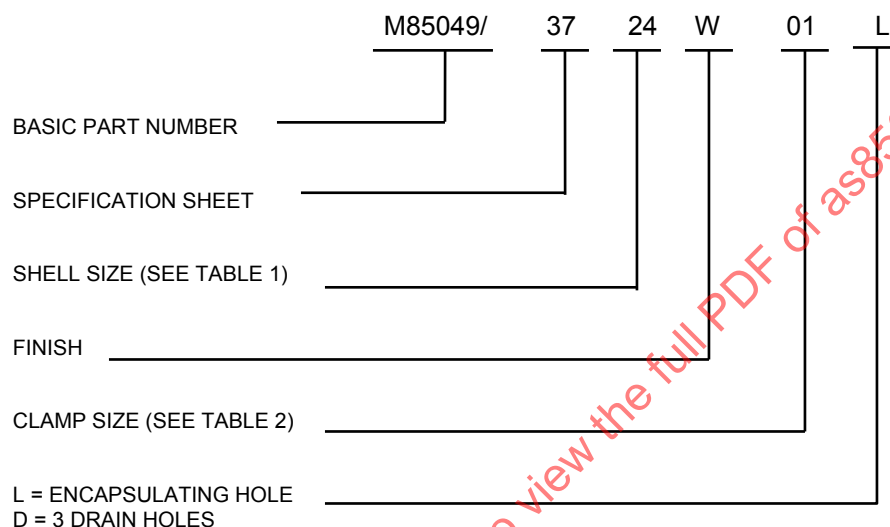
1. DESIGN AND CONSTRUCTION
2. DIMENSIONS AND CONFIGURATION: SEE FIGURE 1 AND TABLES 1 AND 2.
3. INTERFACE DIMENSIONS IN ACCORDANCE WITH SAE AS85049 FIGURE 2.
4. GROUND RING SHALL BE FREE TO ROTATE IN THE UNASSEMBLED CONDITION.

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	(R) CONNECTOR ACCESSORIES, ELECTRICAL, BACKSHELL, NONENVIRONMENTAL, SPLIT 90°, EMI/RFI SHIELDED TERMINATION, CATEGORY 3B (FOR MIL -DTL -38999 SERIES I AND II CONNECTORS)			

5. MATERIAL: ALUMINUM ALLOY IN ACCORDANCE WITH AS85049. CLAMP ASSEMBLY SCREWS AND LOCKWASHERS: 300 SERIES CORROSION RESISTANT STEEL, PASSIVATED.
6. FINISH:
- 1/ N ELECTROLESS NICKEL
- 2/ W CADMIUM, OLIVE DRAB
- X NICKEL FLUOROCARBON POLYMER
- 2/ Z ZINC NICKEL
- 1/ N FINISH NOT FOR NAVY USE, RESTRICTED TO AIR FORCE SPACE APPLICATIONS ONLY.
- 2/ W AND Z FINISH ARE NOT FOR USE IN SPACE APPLICATIONS. ALSO SEE SPECIFICATION NOTES.

PART OR IDENTIFYING NUMBER (PIN):

EXAMPLE:



QUALIFICATION: SEE AS85049, CATEGORY 3B.

APPLICATION NOTES:

1. ASSEMBLY INSTRUCTIONS: SIMPLIFIED ASSEMBLY INSTRUCTIONS SHALL BE SHIPPED WITH THE UNIT PACKAGE.

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