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REV.
C

AS85049™/37

FEDERAL SUPPLY CLASS
5935

RATIONALE

LIMITED SCOPE REVISION IS REQUIRED TO CLARIFY THE SAFETY WIRE HOLE REQUIREMENTS IN FIGURE 1.

AS85049/37C HAS BEEN REAFFIRMED TO COMPLY WITH THE SAE FIVE-YEAR REVIEW POLICY.

NOTICE

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

FOR DETAILS OF ACCESSORY
FRONT END, SEE MIL-DTL-38999
ACCESSORY INTERFACE DIMENSIONS

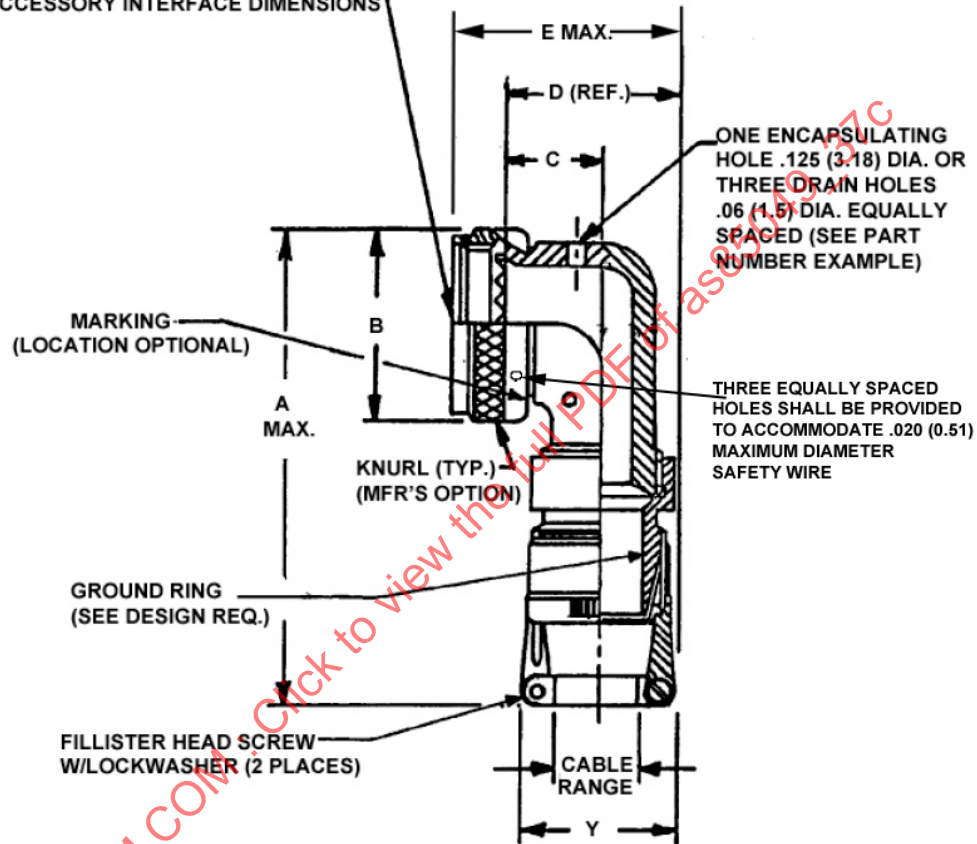
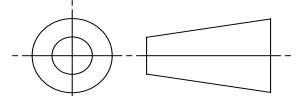


FIGURE 1 - ACCESSORY DIMENSIONS AND CONFIGURATION

For more information on this standard, visit
<https://www.sae.org/standards/content/AS85049/37C/>

THIRD ANGLE PROJECTION



CUSTODIAN: AE-8C1

PROCUREMENT SPECIFICATION: AS85049



AEROSPACE STANDARD

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

AS85049™/37
SHEET 1 OF 4

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ISSUED 2000-05 REVISED 2019-04 REAFFIRMED 2025-02

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 (SEE REQ)	
		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)

REQUIREMENTS: ALL REQUIREMENTS SHALL CONSIST OF THIS SPECIFICATION AND THE LATEST ISSUE OF AS85049.

1. DESIGN AND CONSTRUCTION:

ACCESSORIES SHALL BE DESIGNED IN ACCORDANCE WITH FIGURE 1 AND TABLES 1 AND 2. DIMENSIONS ARE IN INCHES. METRIC EQUIVALENTS ARE IN PARENTHESIS, ARE GIVEN FOR GENERAL INFORMATION ONLY AND ARE BASED UPON 1 INCH = 25.4 MM.

THE COUPLING NUT SHALL BE CAPTIVATED TO THE ADAPTER BODY AND FREE TO ROTATE. THE REAR ADAPTER MAY BE OMITTED WHEN SHELL SIZE AND CLAMP SIZE PERMITS.

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.

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.

INTERFACE DIMENSIONS IN ACCORDANCE WITH AS85049 FIGURE 2.

2. GROUND RING SHALL BE FREE TO ROTATE IN THE UNASSEMBLED CONDITION.

3. MATERIAL AND FINISH: IN ACCORDANCE WITH TABLE 3. CLAMP ASSEMBLY SCREWS AND LOCKWASHERS: 300 SERIES CORROSION RESISTANT STEEL, PASSIVATED.

	AEROSPACE STANDARD	AS85049™/37 SHEET 2 OF 4	REV. C
	CONNECTOR ACCESSORIES, ELECTRICAL, BACKSHELL, NONENVIRONMENTAL, SPLIT 90°, EM/RFI SHIELDED TERMINATION, CATEGORY 3B (FOR MIL-DTL-38999 SERIES I AND II CONNECTORS)		

TABLE 3 - MATERIAL AND FINISH

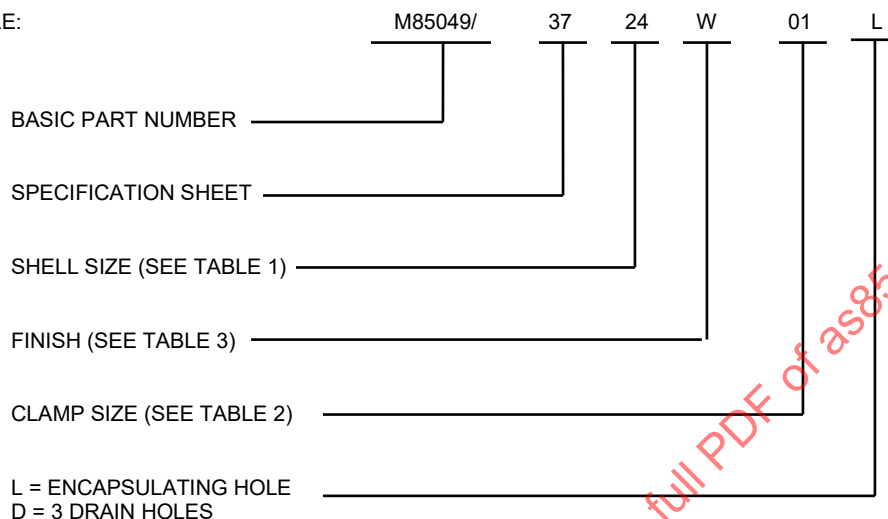
MATERIAL	FINISH
ALUMINUM ALLOY IN ACCORDANCE WITH AS85049	A, N <u>1/</u> , W <u>2/</u> , X, Z <u>2/</u>

1/ N FINISH NOT RECOMMENDED FOR USE IN APPLICATIONS THAT MAY BE SUSCEPTIBLE TO SALT WATER CORROSION.

2/ W AND Z FINISHES NOT RECOMMENDED FOR USE IN APPLICATIONS THAT MAY BE SUSCEPTIBLE TO OUT GASSING (ALSO SEE SPECIFICATION NOTES).

4. PART OR IDENTIFYING NUMBER (PIN):

EXAMPLE:



5. QUALIFICATION: REFER TO AS85049, CATEGORY 3B.

6. PACKAGING:

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

7. SUPERSESSION DATA: SEE BELOW

