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REV.
C

AS85049™/79

FEDERAL SUPPLY CLASS
5970

RATIONALE

REVISION IS REQUIRED TO IMPROVE DRAWINGS, MOVE NOTES TO DESIGN PARAGRAPH TO FOLLOW C1 AS STANDARD FORMAT, REMOVE IMAGES, ADD FINISH TABLE, CLARIFY RESTRICTIONS AND ADD METRIC EQUIVALENTS .660 (16.76), .020 (0.51) TO FIGURES AND ADD WASHER – POLYTETRAFLUOROETHYLENE (PTFE) UNDER MATERIALS REQUIREMENT.

NOTICE

THE COMPLETE REQUIREMENTS FOR PROCURING THE PRODUCT DESCRIBED HEREIN SHALL CONSIST OF THIS DOCUMENT AND THE LATEST ISSUE OF AS85049. SEE APPLICATION NOTE 1.

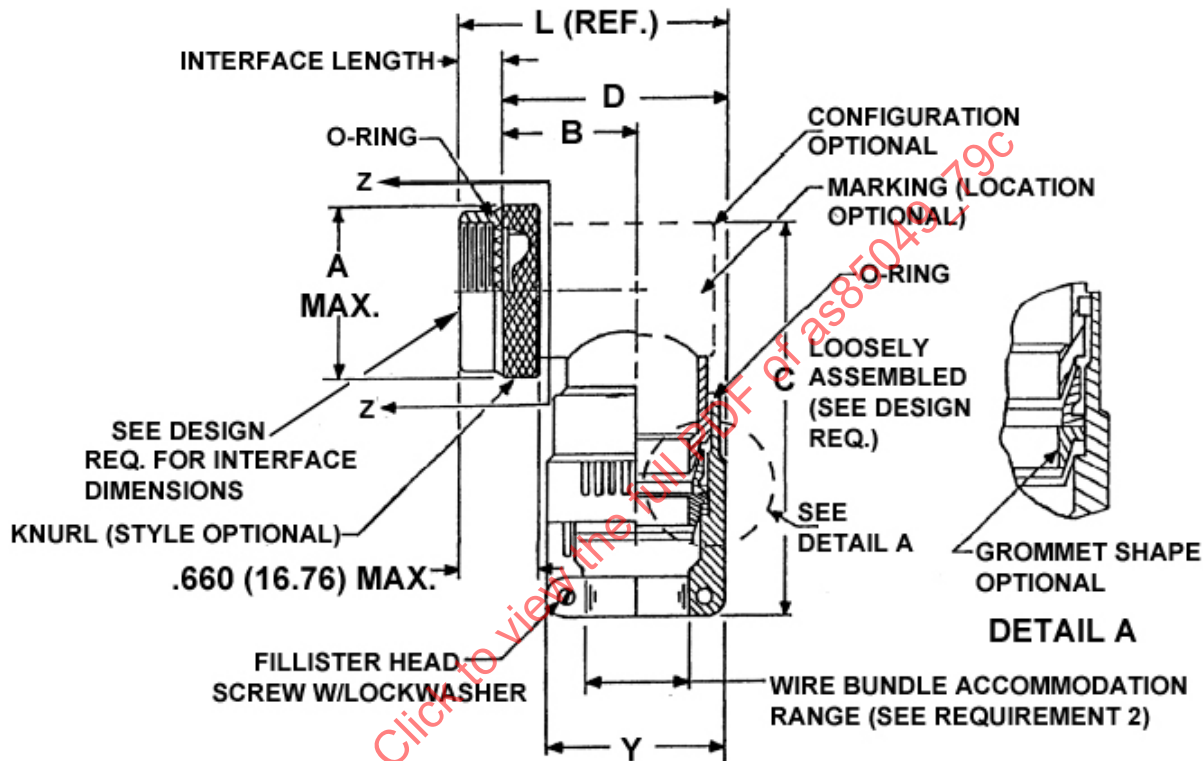
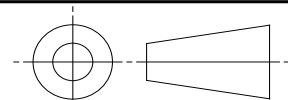


FIGURE 1 – ACCESSORY CONFIGURATION AND DIMENSIONS

For more information on this standard, visit

<https://www.sae.org/standards/content/AS85049/79C/>

THIRD ANGLE PROJECTION



CUSTODIAN: AE-8/AE-8C1

PROCUREMENT SPECIFICATION: AS85049



AEROSPACE STANDARD

(R) CONNECTOR ACCESSORIES, ELECTRICAL, BACKSHELL,
ENVIRONMENTAL, 90°, SHIELD TERMINATION,
CATEGORY 2B, NONSELF-LOCKING
(MIL-DTL-38999 SERIES III AND IV CONNECTORS)

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ISSUED 2000-06 REVISED 2016-10 REAFFIRMED 2021-05



HOLES FOR .020 (0.51)
MAX. DIA. SAFETY WIRE
(3 REQUIRED, EQUALLY SPACED)

VIEW Z-Z

FIGURE 1 - ACCESSORY CONFIGURATION AND DIMENSIONS (CONTINUED, SAFETY WIRE HOLES)

TABLE 1 - CONNECTOR SHELL SIZE AND CLAMP SIZE

ACCESSORY SHELL SIZE	CLAMP SIZE (SEE TABLE 2) ^{1/}	A MAX DIA OF COUPLING RING	B ±.156 (3.96)	C ±.188 (4.78)	D MAX	L REF
09	01 THROUGH 02	.75 (19.1)	0.532 (13.51)	3.267 (82.98)	1.19 (30.2)	1.48 (37.6)
11	01 THROUGH 03	.85 (21.6)	0.627 (15.93)	3.387 (86.03)	1.34 (34.0)	1.63 (41.4)
13	02 THROUGH 04	1.00 (25.4)	0.642 (16.31)	3.407 (86.54)	1.44 (36.6)	1.73 (43.9)
15	02 THROUGH 05	1.15 (29.2)	0.719 (18.26)	3.477 (88.32)	1.50 (38.1)	1.79 (45.5)
17	02 THROUGH 06	1.25 (31.8)	0.774 (19.66)	3.567 (90.60)	1.63 (41.4)	1.92 (48.8)
19	03 THROUGH 07	1.40 (35.6)	0.854 (21.69)	3.737 (94.92)	1.76 (44.7)	2.05 (52.1)
21	03 THROUGH 08	1.55 (39.4)	0.899 (22.83)	3.737 (94.92)	1.88 (47.8)	2.17 (55.1)
23	03 THROUGH 09	1.65 (41.9)	1.009 (25.63)	3.847 (97.71)	2.04 (51.8)	2.33 (59.2)
25	04 THROUGH 10	1.85 (47.0)	1.024 (26.01)	3.847 (97.71)	2.13 (54.1)	2.42 (61.5)

^{1/} SEE REQUIREMENT 2.



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TABLE 2 - CLAMP SIZE AND DIMENSIONS

CLAMP SIZE	WIRE BUNDLE ACCOMMODATION RANGE		Y DIM MAX
	MIN <u>1/</u>	MAX <u>1/</u>	
01	.062 (1.57)	.125 (3.18)	.80 (20.3)
02	.125 (3.18)	.250 (6.35)	1.00 (25.4)
03	.250 (6.35)	.375 (9.53)	1.10 (27.9)
04	.375 (9.53)	.500 (12.70)	1.20 (30.5)
05	.500 (12.70)	.625 (15.88)	1.25 (31.8)
06	.625 (15.88)	.750 (19.05)	1.40 (35.6)
07	.750 (19.05)	.875 (22.23)	1.50 (38.1)
08	.875 (22.23)	1.000 (25.40)	1.65 (41.9)
09	1.000 (25.40)	1.125 (28.58)	1.75 (44.5)
10	1.125 (28.58)	1.250 (31.75)	1.90 (48.3)

1/ SEE REQUIREMENT 2.

REQUIREMENTS: ALL REQUIREMENTS SHALL CONSIST OF THIS DOCUMENT 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 AND APPLY AFTER PLATING. METRIC EQUIVALENTS ARE IN PARENTHESES, ARE GIVEN FOR GENERAL INFORMATION ONLY, AND ARE BASED UPON 1 INCH = 25.4 MM (SEE TABLES 1 AND 2).

INTERFACE DIMENSIONS: SHALL CONFORM TO AS85049, FIGURE 3 OR 3A.

COUPLING NUT: SHALL BE CAPTIVATED TO THE ADAPTER BODY AND SHALL BE FREE TO ROTATE.

LOOSELY ASSEMBLED IS DEFINED AS THE CLAMP TIGHTENED TO THE AS85049/79 CONNECTOR ACCESSORY BODY TWO FULL THREAD LENGTHS.

- SEE TABLE 1 FOR THE CLAMP SIZE AVAILABLE WITH EACH ACCESSORY SHELL SIZE. SEE TABLE 2 FOR WIRE BUNDLE ACCOMMODATION RANGE FOR EACH CLAMP SIZE. WIRE BUNDLE ACCOMMODATION RANGE IS NOT A CLAMP MEASUREMENT, BUT INDICATES THE ACTUAL RANGE THE CLAMP AND SEALING MEMBER MUST ACCOMMODATE. THE GROMMET SEALING DIMENSION SHALL MEET THE MAXIMUM WIRE BUNDLE ACCOMMODATION RANGE DIMENSION OF THE DESIGNATED CLAMP.
- TERMINATION METHOD: SINGLE SHIELD, SINGLE CONE.
- SIMPLIFIED ASSEMBLY INSTRUCTIONS SHALL BE SHIPPED WITH THE UNIT PACKAGE.

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	(R) CONNECTOR ACCESSORIES, ELECTRICAL, BACKSHELL, ENVIRONMENTAL, 90°, SHIELD TERMINATION, CATEGORY 2B, NONSELF-LOCKING (MIL-DTL-38999 SERIES III AND IV CONNECTORS)		