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REV.
D

AS85049™/112

FEDERAL SUPPLY CLASS
5935

RATIONALE

REVISION IS REQUIRED TO IMPROVE DRAWINGS, MOVE NOTES TO DESIGN PARAGRAPH TO FOLLOW C1 AS STANDARD FORMAT, REMOVE IMAGES, TO CORRECT REQUIREMENTS 1 AND 5, AND CLARIFY FINISH AND APPLICATION RESTRICTIONS.

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.

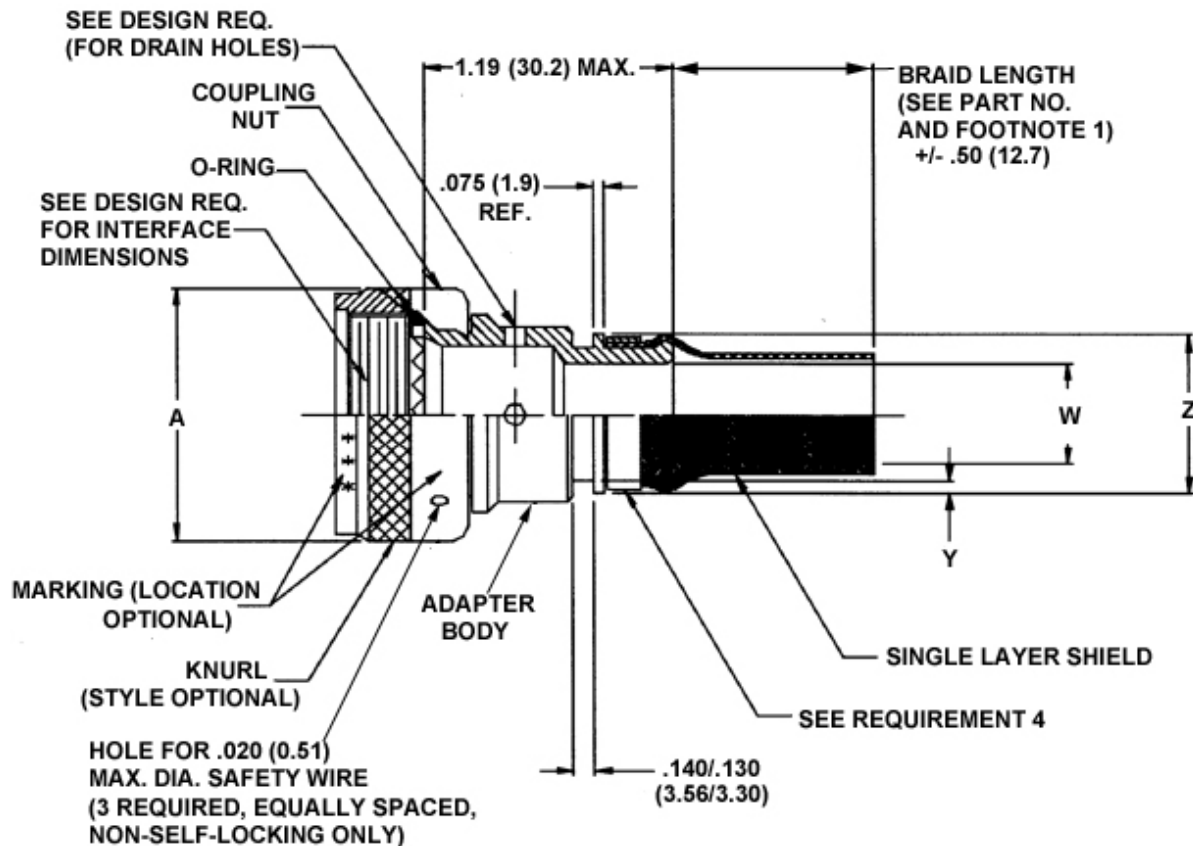
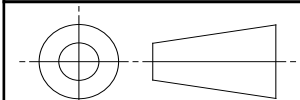


FIGURE 1 - ACCESSORY CONFIGURATION AND DIMENSIONS

For more information on this standard, visit
<https://www.sae.org/standards/content/AS85049/112D>

THIRD ANGLE PROJECTION



CUSTODIAN: AE-8/AE-8C1

PROCUREMENT SPECIFICATION: AS85049



AEROSPACE STANDARD

(R) CONNECTOR ACCESSORIES, ELECTRICAL BACKSHELL, STRAIGHT, SELF LOCKING AND NON-SELF LOCKING, PRE-ATTACHED SHIELD TERMINATION (RFI/EMI), BOOT ACCOMMODATION, CATEGORY 3B (FOR MIL-DTL-38999 SERIES I AND II CONNECTORS)

AS85049™/112
SHEET 1 OF 4

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Documents

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TABLE 1 - ACCESSORY SHELL SIZE AND DIMENSION

ACCESSORY SHELL SIZE CODE	SERIES I SHELL SIZE (REF.)	SERIES II SHELL SIZE (REF.)	ALLOWABLE CABLE ENTRY SIZE TABLE 2	A MAX. DIAMETER
08	9	8	01	.858 (21.79)
10	11	10	01-03	.984 (24.99)
12	13	12	01-05	1.157 (29.39)
14	15	14	03-07	1.279 (32.49)
16	17	16	05-09	1.406 (35.71)
18	19	18	06-10	1.516 (38.51)
20	21	20	08-12	1.642 (41.71)
22	23	22	09-13	1.768 (44.91)
24	25	24	10-14	1.889 (47.98)

TABLE 2 - CABLE ENTRY DIMENSIONS

ENTRY SIZE	W ±.020 (0.51)	Y +.008 (0.20) -.000	Z MAX.
01	.250 (6.35)	.044 (1.12)	.560 (14.22)
02	.312 (7.92)	.044 (1.12)	.630 (16.00)
03	.375 (9.53)	.044 (1.12)	.690 (17.53)
04	.438 (11.13)	.044 (1.12)	.750 (19.05)
05	.500 (12.70)	.044 (1.12)	.820 (20.83)
06	.562 (14.27)	.044 (1.12)	.890 (22.61)
07	.625 (15.88)	.044 (1.12)	.950 (24.13)
08	.688 (17.48)	.044 (1.12)	1.020 (25.91)
09	.750 (19.05)	.069 (1.75)	1.070 (27.18)
10	.812 (20.62)	.069 (1.75)	1.130 (28.70)
11	.875 (22.23)	.069 (1.75)	1.190 (30.23)
12	.938 (23.83)	.069 (1.75)	1.260 (32.00)
13	1.000 (25.40)	.069 (1.75)	1.320 (33.53)
14	1.125 (28.58)	.069 (1.75)	1.470 (37.34)

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 TABLE 1). ACCESSORY CONFIGURATION IS OPTIONAL WITHIN THE DIMENSION ENVELOPE SPECIFIED IN FIGURE 1.

INTERFACE DIMENSIONS: SHALL CONFORM TO AS85049, FIGURE 2.

COUPLING NUT: SHALL BE CAPTIVATED TO THE ADAPTER BODY AND SHALL BE FREE TO ROTATE, FOR SELF LOCKING OR NON-SELF LOCKING.

DRAIN HOLES WILL BE PROVIDED WITH A .125 INCH (3.2 MM) DIAMETER, 4 PLACES EQUALLY SPACED (OPTIONAL, SEE PART NUMBER DEVELOPMENT). O-RING NOT REQUIRED WHEN DRAIN HOLE OPTION IS SPECIFIED.

- ADAPTER LENGTH IS MEASURED FROM THE BOTTOM OF THE ACCESSORY TEETH TO THE END OF THE ADAPTER BODY. THE ADAPTER SURFACE UNDER THE BRAID SHALL BE RIBBED, KNURLED, OR HAVE A SURFACE ROUGHNESS OF 125 Ra MINIMUM IN ACCORDANCE WITH ANSI B46.1.
- PIG TAIL TERMINATED BRAID MATERIAL SHALL BE IN ACCORDANCE WITH TABLE 3. BRAID LENGTH IS DEFINED BY FOOTNOTE 1 AS SHOWN IN THE PART NUMBER.
- TERMINATION BAND CONFIGURATION IS NOT CONTROLLED. BAND WITH BUCKLE MAY EXCEED THE "Z" DIMENSION (SEE TABLE 2) PROVIDED THE BAND DOES NOT INTERFERE WITH BOOT ATTACHMENT. BAND MATERIAL SHALL BE AS SPECIFIED IN TABLE 3.
- CONNECTOR ACCESSORIES SPECIFIED HEREIN MAY BE USED WITH SHRINK BOOTS IN ACCORDANCE WITH AS85049/140 OR /141.
- TERMINATION OF THE ACCESSORY SHIELD WITH HARNESS SHIELD MAY BE PERFORMED WITH AN AS85049/93 SHIELD SUPPORT RING OR SIMILAR SPLIT RING ACCESSORY TYPES.

	AEROSPACE STANDARD	AS85049™/112 SHEET 2 OF 4	REV. D
	(R) CONNECTOR ACCESSORIES, ELECTRICAL BACKSHELL, STRAIGHT, SELF LOCKING AND NON-SELF LOCKING, PRE-ATTACHED SHIELD TERMINATION (RF/EMI), BOOT ACCOMMODATION, CATEGORY 3B (FOR MIL-DTL-38999 SERIES I AND II CONNECTORS)		

