

REV.  
A

AS85049/78

FEDERAL SUPPLY CLASS  
5935

THE REQUIREMENTS FOR ACQUIRING THE PRODUCT DESCRIBED HEREIN SHALL CONSIST OF THIS SPECIFICATION SHEET AND THE ISSUE OF THE FOLLOWING SPECIFICATION LISTED IN THAT ISSUE OF THE DEPARTMENT OF DEFENSE INDEX OF SPECIFICATIONS AND STANDARDS (DODISS) SPECIFIED IN THE SOLICITATION: AS85049.

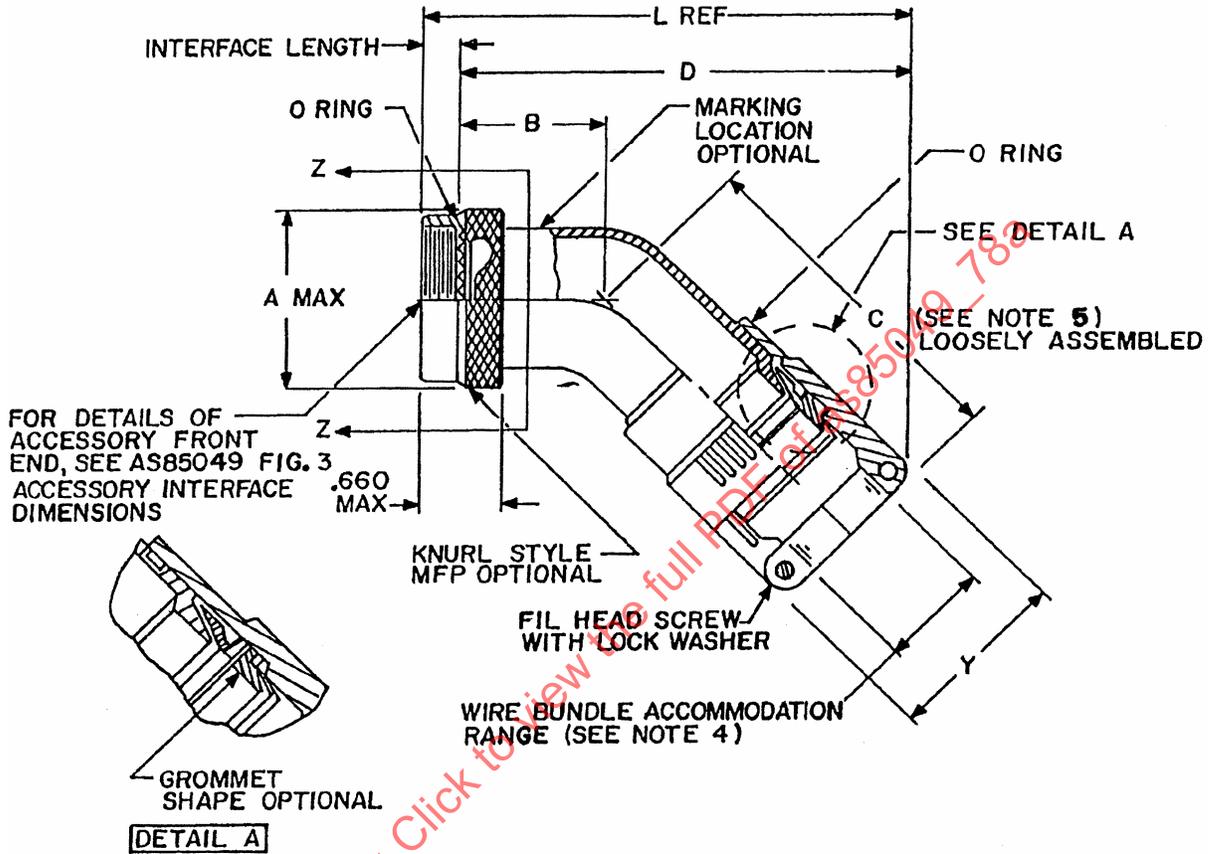
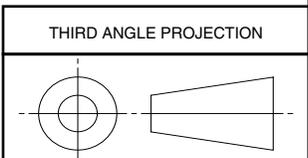


FIGURE 1 - CONFIGURATION AND DIMENSIONS



CUSTODIAN: SAE AE-8/AE-8C1

**SAE Aerospace**  
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**AEROSPACE STANDARD**

CONNECTOR ACCESSORIES, ELECTRICAL, BACKSHELL, ENVIRONMENTAL, 45°, SHIELD TERMINATION, CATEGORY 2B, NONSELF-LOCKING (MIL-DTL-38999 SERIES III AND IV CONNECTORS)

**AS85049/78**  
SHEET 1 OF 4

**REV. A**

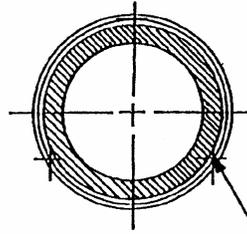
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ISSUED 2000-06 REVISED 2004-11



3 EQUALLY SPACED  
HOLES FOR .020 SAFETY WIRE

VIEW Z-Z

NOTES:

1. DIMENSIONS ARE IN INCHES.
2. METRIC EQUIVALENTS ARE GIVEN FOR GENERAL INFORMATION ONLY.
3. METRIC EQUIVALENTS ARE IN PARENTHESES.
4. 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.
5. LOOSELY ASSEMBLED IS DEFINED AS THE CLAMP TIGHTENED TO THE AS85049/78 CONNECTOR ACCESSORY BODY TWO FULL THREAD LENGTHS.

FIGURE 1 - CONFIGURATION AND DIMENSIONS (CONTINUED)

TABLE 1 - CONNECTOR SHELL SIZE AND CLAMP SIZE

ACCESSORY SHELL SIZE	CLAMP SIZE (SEE TABLE 2) 1/	A MAX DIA OF COUPLING RING 2/	B 2/ ±.062	C 2/ ±.062	D 2/ MAX	L 2/ REF
09	01 THROUGH 02	.75 (19.1)	.398 (10.1)	3.088 (78.4)	3.06 (77.72)	3.31 (84.07)
11	01 THROUGH 03	.85 (21.6)	.458 (11.6)	3.148 (80.0)	3.20 (81.28)	3.45 (87.63)
13	02 THROUGH 04	1.00 (25.4)	.518 (13.2)	3.208 (81.5)	3.34 (84.84)	3.59 (91.19)
15	02 THROUGH 05	1.15 (29.2)	.588 (14.9)	3.298 (83.8)	3.49 (88.65)	3.74 (95.0)
17	02 THROUGH 06	1.25 (31.8)	.678 (17.2)	3.408 (86.6)	3.71 (94.23)	3.96 (100.58)
19	03 THROUGH 07	1.40 (35.6)	.868 (22.0)	3.598 (91.4)	4.01 (101.85)	4.32 (109.73)
21	03 THROUGH 08	1.55 (39.4)	.868 (22.0)	3.598 (91.4)	4.13 (104.90)	4.38 (111.25)
23	03 THROUGH 09	1.65 (41.9)	.958 (24.3)	3.748 (95.2)	4.36 (110.74)	4.61 (117.09)
25	04 THROUGH 10	1.85 (47.0)	.958 (24.3)	3.748 (95.2)	4.41 (112.01)	4.66 (118.36)

1/ SEE NOTE 4 OF FIGURE 1.

2/ DIMENSIONS ARE IN INCHES. METRIC EQUIVALENTS ARE IN PARENTHESES AND ARE GIVEN FOR GENERAL INFORMATION ONLY.

TABLE 2 - CLAMP SIZE AND DIMENSIONS

CLAMP SIZE	WIRE BUNDLE ACCOMMODATION RANGE		Y DIM MAX
	MIN 1/ 2/	MAX 1/ 2/	
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/ DIMENSIONS ARE IN INCHES. METRIC EQUIVALENTS ARE IN PARENTHESES AND ARE GIVEN FOR GENERAL INFORMATION ONLY.

2/ SEE NOTE 4 OF FIGURE 1.