

REV.
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AS85049™/26

FEDERAL SUPPLY CLASS
5935

RATIONALE

REVISION IS REQUIRED TO IMPROVE DRAWINGS, MOVE NOTES TO DESIGN PARAGRAPH TO FOLLOW C1 AS STANDARD FORMAT, UPDATE RESTRICTIONS, REPLACE PART NUMBER IMAGE WITH WORD FORMAT TEXT, AND UPDATE DOCUMENT FORMAT TO LATEST SAE GUIDELINES.

NOTICE

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

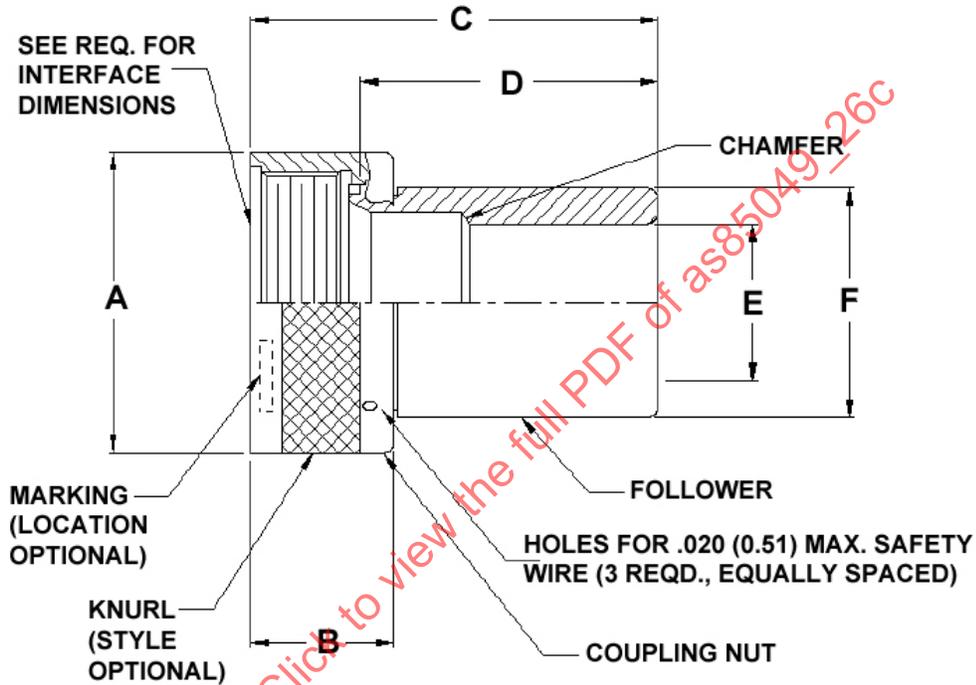
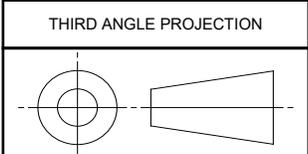


FIGURE 1 – ACCESSORY CONFIGURATION AND DIMENSIONS

For more information on this standard, visit
<https://www.sae.org/standards/content/AS85049/26C/>



CUSTODIAN: AE-8/AE-8C1

PROCUREMENT SPECIFICATION: AS85049



AEROSPACE STANDARD

(R) CONNECTOR ACCESSORIES, ELECTRICAL, BACKSHELL, NON-ENVIRONMENTAL, STRAIGHT, SHIELD TERMINATION, CATEGORY 3B (FOR AS50151 CRIMP, AS95234, MIL-DTL-26482 SERIES 2, AS81703 SERIES 3 AND MIL-DTL-83723 SERIES III CONNECTORS)

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ISSUED 2001-07 REVISED 2016-07 REAFFIRMED 2021-03

TABLE 1 - FIGURE 1 DIMENSIONS

DASH NUMBER	FOR CONNECTOR SHELL SIZE (REF)			MIL-DTL-83723 SERIES III	M85049/26-2 RING, SHIELD CRIMP (REF)
	AS81703 SERIES 3	MIL-DTL-26482 SERIES 2	AS50151 CRIMP, AS95234		
-3	3	--	--	--	-8
-8	--	8	8S	8	-8
-10	--	10	10S, 10SL	10	-10
-12	7	12	12S & 12	12	-12
-14	12	14	14S & 14	14	-14
-16	19	16	16S & 16	16	-16
-18	27	18	18	18	-18
-20	37	20	20	20	-20
-22	--	22	22	22	-22
-24	--	24	24	24	-24
-28	--	--	28	--	-28
-32	--	--	32	--	-32
-36	--	--	36	--	-36
-40	--	--	40	--	-40
-44	--	--	44	--	-44
-48	--	--	48	--	-46
-61	61	--	--	--	-61

TABLE 1 - FIGURE 1 DIMENSIONS (CONTINUED)

DASH NUMBER	A ±.031 DIA.	B +.000/- .062 DIM.	C MAX DIM.	D ±.031 DIM.	E ±.015 DIA.	F ±.010 DIA.
-3	.669 (17.0)	.540 (13.7)	1.277 (32.4)	.926 (23.5)	.250 (6.4)	.337 (8.6)
-8	.617 (15.7)	.540 (13.7)	1.277 (32.4)	.926 (23.5)	.250 (6.4)	.337 (8.6)
-10	.734 (18.6)	.540 (13.7)	1.277 (32.4)	.926 (23.5)	.325 (8.3)	.488 (12.4)
-12	.858 (21.8)	.540 (13.7)	1.277 (32.4)	.926 (23.5)	.420 (10.7)	.500 (12.7)
-14	.984 (25.0)	.540 (13.7)	1.277 (32.4)	.926 (23.5)	.540 (13.7)	.620 (15.7)
-16	1.112 (28.2)	.540 (13.7)	1.277 (32.4)	.926 (23.5)	.670 (17.0)	.750 (19.1)
-18	1.218 (30.9)	.540 (13.7)	1.277 (32.4)	.926 (23.5)	.789 (20.0)	.880 (22.4)
-20	1.345 (34.2)	.540 (13.7)	1.277 (32.4)	.926 (23.5)	.914 (23.2)	1.000 (25.4)
-22	1.468 (37.3)	.540 (13.7)	1.277 (32.4)	.926 (23.5)	1.039 (26.4)	1.120 (28.4)
-24	1.593 (40.5)	.540 (13.7)	1.277 (32.4)	.926 (23.5)	1.112 (28.2)	1.192 (30.3)
-28	1.969 (50.0)	.702 (17.8)	1.439 (36.6)	.926 (23.5)	1.389 (35.3)	1.545 (39.2)
-32	2.219 (56.4)	.702 (17.8)	1.439 (36.6)	.926 (23.5)	1.635 (41.5)	1.795 (45.6)
-36	2.469 (62.7)	.702 (17.8)	1.439 (36.6)	.926 (23.5)	1.850 (47.0)	2.045 (51.9)
-40	2.719 (69.1)	.702 (17.8)	1.439 (36.6)	.926 (23.5)	2.065 (52.5)	2.295 (58.3)
-44	2.969 (75.4)	.702 (17.8)	1.439 (36.6)	.926 (23.5)	2.320 (58.9)	2.545 (64.6)
-48	3.219 (81.8)	.702 (17.8)	1.439 (36.6)	.926 (23.5)	2.570 (65.3)	2.795 (71.0)
-61	1.653 (42.0)	.540 (13.7)	1.277 (32.4)	.926 (23.5)	1.210 (30.7)	1.359 (34.5)



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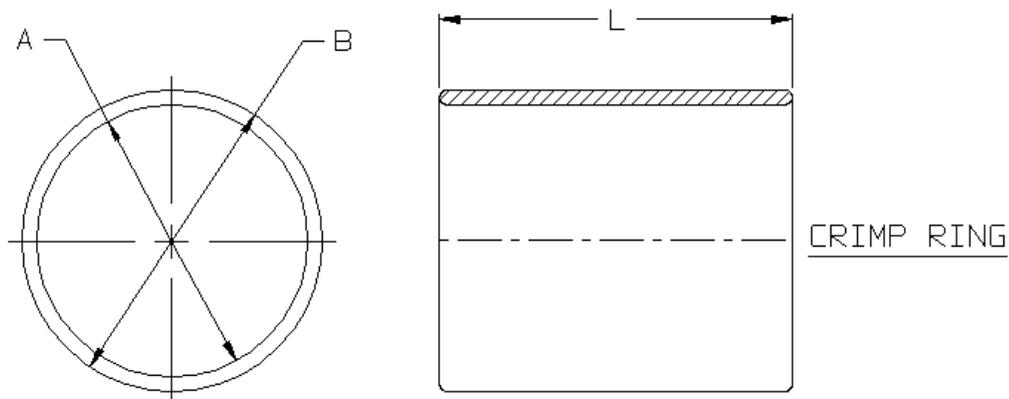


FIGURE 2 – CRIMP RING CONFIGURATION AND DIMENSIONS

TABLE 2 - FIGURE 2 DIMENSIONS

DASH NUMBER	COLOR CODE	A DIA.		B DIA.		L ±.020 DIM.
		MIN.	MAX.	MIN.	MAX.	
-8	GREEN	.400 (10.2)	.410 (10.4)	.448 (11.4)	.458 (11.6)	.250 (6.4)
-10	RED	.585 (14.9)	.595 (15.1)	.660 (16.8)	.680 (17.3)	.440 (11.2)
-12	RED	.585 (14.9)	.595 (15.1)	.660 (16.8)	.680 (17.3)	.440 (11.2)
-14	BLUE	.705 (17.9)	.715 (18.2)	.780 (19.8)	.800 (20.3)	.440 (11.2)
-16	GRAY	.835 (21.2)	.845 (21.5)	.910 (23.1)	.930 (23.6)	.440 (11.2)
-18	BROWN	1.005 (25.5)	1.015 (25.8)	1.080 (27.4)	1.100 (27.9)	.440 (11.2)
-20	GREEN	1.125 (28.6)	1.135 (28.8)	1.200 (30.5)	1.220 (31.0)	.440 (11.2)
-22	PINK	1.245 (31.6)	1.255 (31.9)	1.320 (33.5)	1.340 (34.0)	.440 (11.2)
-24	ORANGE	1.327 (33.7)	1.337 (34.0)	1.402 (35.6)	1.422 (36.1)	.440 (11.2)
-28	RED	1.665 (42.3)	1.675 (42.5)	1.740 (44.2)	1.760 (44.7)	.440 (11.2)
-32	GRAY	1.915 (48.6)	1.925 (48.9)	1.990 (50.5)	2.010 (51.1)	.440 (11.2)
-36	GREEN	2.165 (55.0)	2.175 (55.2)	2.240 (56.9)	2.260 (57.4)	.440 (11.2)
-40	ORANGE	2.415 (61.3)	2.425 (61.6)	2.490 (63.2)	2.510 (63.8)	.440 (11.2)
-44	YELLOW	2.665 (67.7)	2.675 (67.9)	2.740 (69.6)	2.760 (70.1)	.440 (11.2)
-48	BLUE	2.915 (74.0)	2.925 (74.3)	2.990 (75.9)	3.010 (76.5)	.440 (11.2)
-61	PURPLE	1.435 (36.4)	1.445 (36.7)	1.510 (38.4)	1.530 (38.9)	.440 (11.2)

TABLE 2 - FIGURE 2 DIMENSIONS (CONTINUED)

DASH NUMBER	FOR USE WITH BACKSHELLS (REF.)	FOR USE WITH BACKSHELLS (REF.)	FOR USE WITH BACKSHELLS (REF.)	INSTALLING DIE CAT. NO. SEE REQ. 5
-8	M85049/26-1-8	M85049/20-9	M85049/33-2-8	GS405
-10	M85049/26-1-10	M85049/20-11	M85049/33-2-10	GS590
-12	M85049/26-1-12	M85049/20-13	M85049/33-2-12	GS590
-14	M85049/26-1-14	M85049/20-15	M85049/33-2-14	GS710
-16	M85049/26-1-16	M85049/20-17	M85049/33-2-16	GS840
-18	M85049/26-1-18	M85049/20-19	M85049/33-2-18	GS1010
-20	M85049/26-1-20	M85049/20-21	M85049/33-2-20	GS1130
-22	M85049/26-1-22	M85049/20-23	M85049/33-2-22	GS1250
-24	M85049/26-1-24	M85049/20-25	M85049/33-2-24	GS1332
-28	M85049/26-1-28	--	--	GS1670
-32	M85049/26-1-32	--	--	GS1920
-36	M85049/26-1-36	--	--	GS2170
-40	M85049/26-1-40	--	--	GS2420
-44	M85049/26-1-44	--	--	GS2670
-48	M85049/26-1-48	--	--	GS2920
-61	M85049/26-1-61	--	--	GS1440

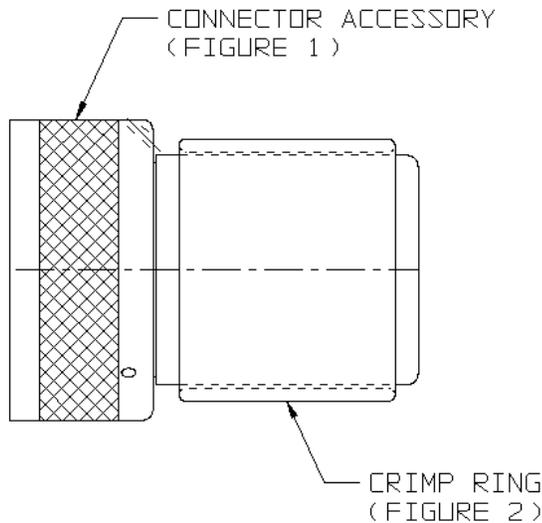


FIGURE 3 - CONFIGURATION

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 FIGURES 1 THROUGH 3 AND TABLES 1 AND 2. DIMENSIONS ARE IN INCHES AND APPLY AFTER PLATING. METRIC EQUIVALENTS ARE IN PARENTHESIS, ARE GIVEN FOR GENERAL INFORMATION ONLY AND ARE BASED UPON 1 INCH = 25.4 MM.

INTERFACE DIMENSIONS: IN ACCORDANCE WITH AS85049, FIGURE 4 OR 4A.

2. FIGURE 1 ACCESSORY: CONSISTS OF A COUPLING NUT AND FOLLOWER. THE COUPLING NUT SHALL BE CAPTIVATED TO AND FREE TO ROTATE ON THE FOLLOWER.
3. FIGURE 2 IS DESIGNED FOR USE WITH FIGURE 1.
4. CRIMP TOOL SHALL BE THE THOMAS AND BETTS INSTALLING HEAD CAT. NO. 13640, OR EQUIVALENT, SEE TABLE 2.
5. THE INSTALLING DIES (THOMAS AND BETTS CAT. NO.) SHALL BE USED WITH THE THOMAS AND BETTS INSTALLING HEAD CAT. NO. 13640, OR USE AN EQUIVALENT TOOL.
6. MATERIAL AND FINISH: SEE TABLE 3.

TABLE 3 - MATERIAL AND FINISH

FIGURE	MATERIAL	FINISH
1	ALUMINUM ALLOY IN ACCORDANCE WITH AS85049	1/ N, 2/ W, X, 2/ Z
2	COPPER, ASTM B75, TYPE DLP-WW-T-799 ROCKWELL F-50 MAX. OR OFHC COPPER, CDA 102 OR APPROVED EQUIVALENT	3/ TIN PLATE IN ACCORDANCE WITH ASTM B545 AND B339 TYPE 1, COLOR CODED PER TABLE (SEE FIGURE 2)
3	CONNECTOR ACCESSORY - ALUMINUM ALLOY IN ACCORDANCE WITH AS85049	1/ N, 2/ W, X, 2/ Z
	CRIMP RING - COPPER, ASTM B75, TYPE DLP-WW-T-799 ROCKWELL F-50 MAX. OR OFHC COPPER, CDA 102 OR APPROVED EQUIVALENT	3/ TIN PLATE IN ACCORDANCE WITH ASTM B545 AND ASTM B339 TYPE 1, COLOR CODED PER TABLE (SEE FIGURE 2)

- 1/ N FINISH NOT RECOMMENDED FOR USE IN APPLICATIONS THAT MAY BE SUSCEPTIBLE TO SALT WATER CORROSION.
- 2/ W FINISH IS NOT RECOMMENDED FOR USE IN APPLICATIONS THAT MAY BE SUSCEPTIBLE TO OUT-GASSING (ALSO SEE SPECIFICATION NOTES).
- 3/ TIN PLATING IS NOT RECOMMENDED FOR USE IN APPLICATIONS WHERE TIN WHISKERS ARE A CONCERN (ALSO SEE APPLICATION NOTE 1).

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