

RATIONALE

TO CORRECT DIMENSION W TO SHOW THE DIMENSION FROM THE BASE OF THE SCREW HEAD TO THE END OF THE SCREW AND TO CHANGE THE PART NUMBER EXAMPLE CONFIGURATION SECTION TO REMOVE THE WORD "DASH."

NOTICE

THE COMPLETE REQUIREMENTS FOR PROCURING THE PRODUCT DESCRIBED HEREIN SHALL CONSIST OF THIS DOCUMENT AND THE LATEST ISSUE OF AS85049. AS85049/118 IS RECOMMENDED FOR NEW DESIGN.

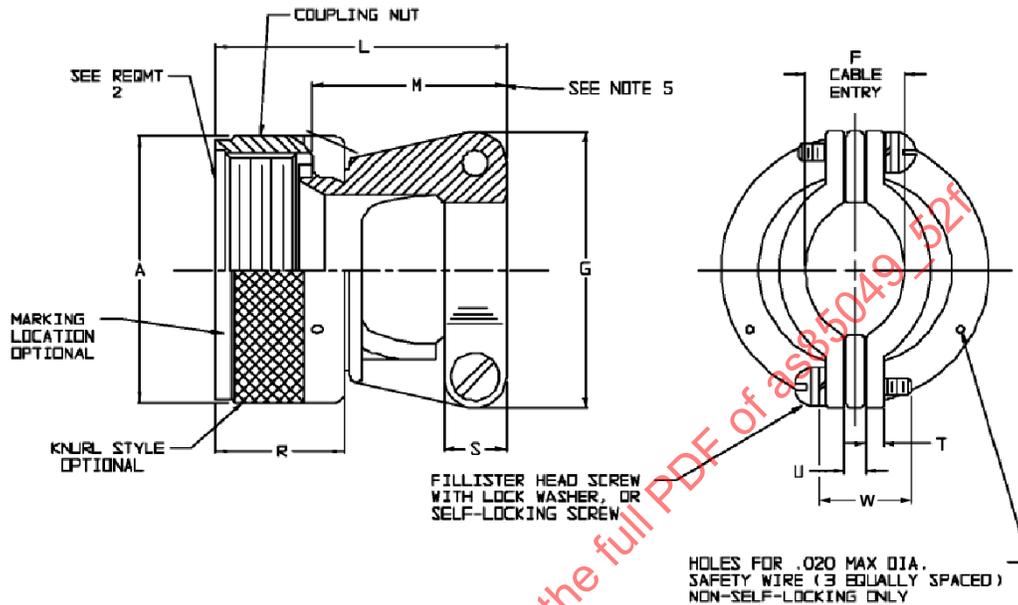
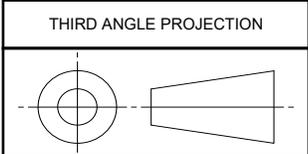


FIGURE 1 - ACCESSORY CONFIGURATION AND DIMENSIONS
(NON-SELF-LOCKING OR SELF-LOCKING COUPLING)

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PROCUREMENT SPECIFICATION: AS85049



AEROSPACE STANDARD

CONNECTOR ACCESSORIES, ELECTRICAL, STRAIN RELIEF, NONENVIRONMENTAL, SELF-LOCKING AND NON-SELF-LOCKING, STRAIGHT, CATEGORY 4B (FOR AS50151 CRIMP, AS95234, MIL-DTL-26482) SERIES 2, AS81703 SERIES 3, AND MIL-DTL-83723 SERIES III CONNECTOR

AS85049™/52
SHEET 1 OF 6

REV. F

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REV. F
AS85049™/52

TABLE 1A - DIMENSIONS (NON-SELF-LOCKING ONLY)

DASH NUMBER	FOR CONNECTOR SHELL SIZE (REF)				NON-SELF-LOCKING			
	AS81703 SERIES 3	MIL-DTL-26482 SERIES 2	AS50151 CRIMP, AS95234	MIL-DTL-83723 SERIES III	A MAX DIA	L ±.062	M MAX (SEE FIGURE 1)	R MAX
-3	3	--	--	--	.669 (16.99)	.890 (22.61)	.63 (16.0)	.540 (13.72)
-8	--	8	8S	8	.617 (15.67)	.890 (22.61)	.63 (16.0)	
-10		10	10S, 10SL	10	.734 (18.64)	1.000 (25.40)	.74 (18.8)	
-12	7	12	12S, 12	12	.858 (21.79)	1.125 (28.58)	.86 (21.8)	
-14	12	14	14S, 14	14	.984 (24.99)	1.125 (28.58)	.86 (21.8)	
-16	19	16	16S, 16	16	1.112 (28.24)	1.250 (31.75)	.99 (25.2)	
-18	27	18	18	18	1.218 (30.94)	1.500 (38.10)	1.24 (31.5)	
-20	37	20	20	20	1.345 (34.16)	1.625 (41.28)	1.36 (34.5)	
-22	--	22	22	22	1.468 (37.29)	1.750 (44.45)	1.49 (37.8)	
-24		24	24	24	1.593 (40.46)	1.875 (47.63)	1.61 (40.9)	
-28		--	--	28	--	1.969 (50.01)	2.187 (55.55)	
-32				32		2.219 (56.36)	2.375 (60.33)	1.95 (49.5)
-36				36		2.469 (62.71)	2.750 (69.85)	2.33 (59.2)
-40	40			2.719 (69.06)		2.938 (74.63)	2.51 (63.8)	
-44	--	--	44	--	2.969 (75.41)	3.312 (84.12)	2.89 (73.4)	
-48			48		3.219 (81.76)	3.687 (93.65)	3.26 (82.8)	
-61			61		--	--	1.653 (41.99)	1.875 (47.63)

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TABLE 1B - DIMENSIONS (SELF-LOCKING ONLY)

DASH NUMBER	FOR CONNECTOR SHELL SIZE (REF)				SELF-LOCKING				
	AS81703 SERIES 3	MIL-DTL-26482 SERIES 2	AS50151 CRIMP, AS95234	MIL-DTL-83723 SERIES III	A MAX	L MAX	M MAX (SEE FIGURE 1)	R MAX	
-3 1/	3	--	--	--	--	--	--	--	
-8	--	8	8S	8	.885 (22.48)	1.04 (26.42)	.73 (18.54)	.710 (18.03)	
-10	--	10	10S, 10SL	10	1.010 (25.65)	1.16 (29.46)	.85 (21.59)	.710 (18.03)	
-12	7	12	12S, 12	12	1.135 (28.83)	1.29 (32.77)	.98 (24.89)	.710 (18.03)	
-14	12	14	14S, 14	14	1.260 (32.00)	1.29 (32.77)	.98 (24.89)	.710 (18.03)	
-16	19	16	16S, 16	16	1.385 (35.18)	1.41 (35.81)	1.10 (27.94)	.710 (18.03)	
-18	27	18	18	18	1.510 (38.35)	1.66 (42.16)	1.35 (34.29)	.710 (18.03)	
-20	37	20	20	20	1.635 (41.53)	1.79 (45.47)	1.48 (37.59)	.710 (18.03)	
-22	--	22	22	22	1.760 (44.70)	1.91 (48.51)	1.60 (40.64)	.710 (18.03)	
-24	--	24	24	24	1.885 (47.88)	2.04 (51.82)	1.73 (43.94)	.710 (18.03)	
-28	--	--	28	--	2.135 (54.23)	2.35 (59.69)	1.88 (47.75)	.890 (22.61)	
-32	--		32		2.395 (60.83)	2.60 (66.04)	2.13 (54.10)	.890 (22.61)	
-36	--		36		2.635 (66.93)	2.91 (73.91)	2.44 (61.98)	.890 (22.61)	
-40	--		40		2.885 (73.28)	3.10 (78.74)	2.63 (66.80)	.890 (22.61)	
-44	--		44		3.135 (79.63)	3.47 (88.14)	3.00 (76.20)	.890 (22.61)	
-48	--		48		3.385 (85.98)	3.87 (98.30)	3.40 (86.36)	.890 (22.61)	
-61 1/	61		--		--	--	--	--	--

1/ NOT AVAILABLE ON SELF-LOCKING CONFIGURATION.

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TABLE 1C - DIMENSIONS (NON-SELF-LOCKING AND SELF-LOCKING)

NON-SELF-LOCKING AND SELF-LOCKING													
DASH NUMBER	F (SEE REQUIREMENTS) WIRE BUNDLE ACCOMMODATION RANGE		G MAX	S ±.020	T MAX	U MAX	W +.000 -.062 SCREW LENGTH	SCREW SIZE					
	MAX	MIN											
	-3 1/	.204 (5.18)							.125 (3.18)	.782 (19.86)	.250 (6.35)	.140 (3.56)	.145 (3.68)
-8	.204 (5.18)	.125 (3.18)	.782 (19.86)										
-10	.286 (7.26)	.187 (4.75)	.862 (21.89)										
-12	.416 (10.57)	.291 (7.39)	1.003 (25.48)										
-14	.476 (12.09)	.351 (8.92)	1.061 (26.95)										
-16	.625 (15.88)	.501 (12.73)	1.334 (33.88)										
-18	.706 (17.93)	.518 (13.16)	1.466 (37.24)	.375 (9.53)	.171 (4.34)	.176 (4.47)	.750 (19.05)	8-32					
-20	.831 (21.11)	.581 (14.76)	1.572 (39.93)										
-22	.956 (24.28)	.644 (16.36)	1.688 (42.88)										
-24	1.081 (27.46)	.706 (17.93)	1.790 (45.47)										
-28	1.187 (30.15)	.750 (19.05)	2.035 (51.69)										
-32	1.250 (31.75)	.875 (22.23)	2.386 (60.60)										
-36	1.375 (34.93)	.938 (23.83)	2.496 (63.40)	.500 (12.70)	.203 (5.16)	.208 (5.28)	1.125 (28.58)	1/4-20					
-40	1.500 (38.10)	.938 (23.83)	2.566 (65.18)										
-44	1.750 (44.45)	1.188 (30.18)	2.860 (72.64)										
-48	1.875 (47.63)	1.312 (33.32)	3.344 (84.94)										
-61 1/	1.081 (27.46)	.706 (17.93)	1.775 (45.09)						.625 (15.88)	.375 (9.53)	.171 (4.34)	.208 (5.28)	1.125 (28.58)
			1.775 (45.09)						.625 (15.88)				

1/ NOT AVAILABLE ON SELF-LOCKING CONFIGURATION.

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 TABLE 1. 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.

INTERFACE DIMENSIONS SHALL CONFORM TO AS85049 FIGURES 4 OR 4A.

FIGURE 1 CONSISTS OF A COUPLING NUT AND STRAIN RELIEF.

“WIRE BUNDLE ACCOMMODATION RANGE” DIMENSION IS DEFINED AS THE ENVELOPE AREA FOR THE WIRE BUNDLE. THIS DIMENSION IS NOT MEANT TO DEFINE THE CLAMP HARDWARE LIMITS.

- DETENTED SELF-LOCKING PROVIDES A POSITIVE AUDIBLE DETENTED COUPLING RELIEF. OPTION “N” IS A FREE SPINNING SELF-LOCKING COUPLING.
- THE STRAIN RELIEF ACCOMMODATES AS85049/127 BUSHING STRIP.
- CLAMPS SHALL HAVE NO PROTRUSIONS OR SHARP EDGES WHICH MAY PINCH CABLE.
- MATERIAL AND FINISH: MATERIAL AND FINISH SHALL BE AS SPECIFIED IN TABLE 2. CLAMP SCREWS AND LOCK WASHERS: 300 SERIES CORROSION-RESISTANT STEEL, PASSIVATE. SELF-LOCKING DEVICE: CORROSION RESISTANT MATERIAL.