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REV.
A

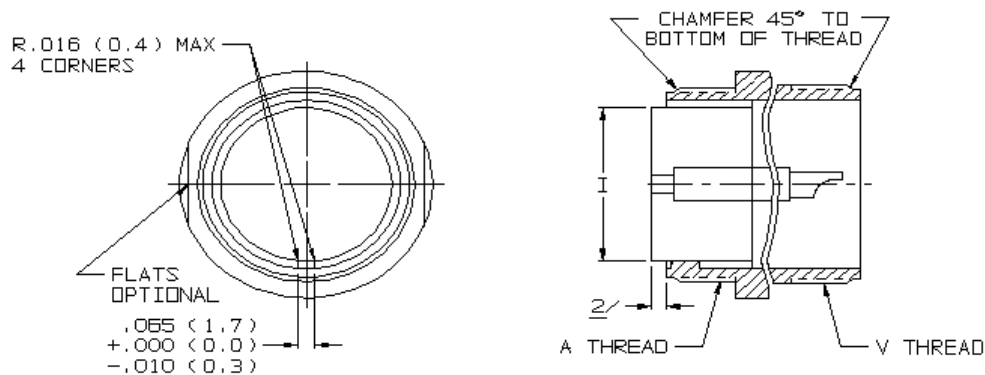
AS31011™

FEDERAL SUPPLY CLASS
5935

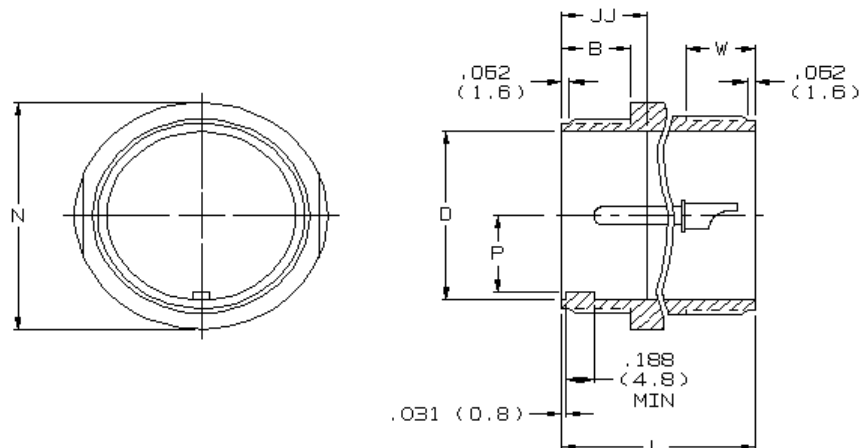
RATIONALE

AS31011A HAS BEEN REAFFIRMED TO COMPLY WITH THE SAE FIVE-YEAR REVIEW POLICY.

THE REQUIREMENTS FOR PROCURING THE PRODUCT DESCRIBED HEREIN SHALL CONSIST OF THIS SPECIFICATION SHEET AND THE LATEST ISSUE OF SAE AS50151.



STYLE S (SOCKET INSERT)



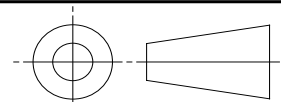
STYLE P (PIN INSERT)

CLASS A - SOLID SHELL
CLASS B - SPLIT SHELL

FIGURE 1 - CLASS A AND B CONFIGURATION & DIMENSIONS

For more information on this standard, visit
<https://www.sae.org/standards/content/AS31011A/>

THIRD ANGLE PROJECTION



CUSTODIAN: AE-8/AE-8C1

PROCUREMENT SPECIFICATION: AS50151



AEROSPACE STANDARD

(R) CONNECTOR, RECEPTACLE, ELECTRIC,
CABLE CONNECTING, SOLDER CONTACTS,
AN TYPE

AS31011™
SHEET 1 OF 9

REV.
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TABLE 1 - FIGURE 1 DIMENSIONS

SHELL SIZE	A COUPLING THREAD	B MIN USABLE THREAD	D +.015/- .000 INSIDE DIA	I MAX INSERT DIA	1/ JJ +.031/- .000 INSERT LOCATION	L MAX OVERALL LENGTH	3/ N MAX OVERALL OUTSIDE DIA	P +.015/- .000 KEY HEIGHT	V THREAD	4/ W MIN USABLE THREAD
8S	1/2 - 28	.375 (9.5)	.370 (9.4)	.250 (6.4)	.562 (14.3)	1.469 (37.3)	.844 (21.4)	.130 (3.3)	1/2 - 28	.375 (9.5)
10S	5/8 - 24		.448 (11.4)	.320 (8.1)		1.531 (38.9)	.969 (24.6)	.165 (4.2)	5/8 - 24	
10SL										
12S	3/4 - 20		.557 (14.1)	.448 (11.4)		1.688 (42.9)	1.062 (27.0)	.224 (5.7)		
12		.625 (15.9)			.750 (19.1)					
14S	7/8 - 20	.375 (9.5)	.682 (17.3)	.525 (13.3)	.562 (14.3)	1.688 (42.9)	1.156 (29.4)	.263 (6.7)	3/4 - 20	
14		.625 (15.9)	.807 (20.5)	.650 (16.5)	.750 (19.1)	2.062 (52.4)	1.250 (31.8)	.325 (8.3)	7/8 - 20	
16S	.375 (9.5)	.562 (14.3)			1.688 (42.9)					
16	1 - 20	.625 (15.9)			.750 (19.1)	2.062 (52.4)			1.344 (34.1)	
18	1-1/8 - 18		.932 (23.7)	.770 (19.6)		2.188 (55.6)	1.469 (37.3)	.463 (11.8)	1 3/16 - 18	
20	1-1/4 – 18		1.058 (26.9)	.925 (23.5)			1.594 (40.5)	.510 (13.0)		
22	1-3/8 – 18		1.182 (30.0)	1.020 (25.9)		2.312 (58.7)	1.719 (43.7)	.573 (14.6)	1 7/16 - 18	
24	1-1/2 – 18		1.307 (33.2)	1.145 (29.1)			1.969 (50.0)	.683 (17.3)		
28	1-3/4 – 18		1.526 (38.8)	1.365 (34.7)		2.438 (61.9)	2.219 (56.4)	.808 (20.5)	1-3/4 – 18	
32	2 - 18		1.776 (45.1)	1.615 (41.0)			2.469 (62.7)	.915 (23.2)	2 - 18	.500 (12.7)
36	2-1/4 – 16		1.995 (50.7)	1.830 (46.5)				2.719 (69.1)	1.023 (26.0)	
40	2-1/2 – 16		2.245 (57.0)	2.045 (51.9)		2.562 (65.1)		2.969 (75.4)	1.150 (29.2)	2-1/2 – 16
44	2-3/4 – 16		2.495 (63.4)	2.300 (58.4)			3.219 (81.8)	1.275 (32.4)	3 - 16	.625 (15.9)
48	3 - 16		2.745 (69.7)	2.550 (64.8)						

1/ WHERE RESILIENT INSERTS ARE USED, JJ MAY BE .109 LESS THAN THAT INDICATED.

2/ SOCKET INSERT OF HARD MATERIAL SHALL EXTEND .016 MAXIMUM BEYOND OR .032 MAXIMUM BELOW SHELL.
SOCKET INSERT OF RESILIENT MATERIAL SHALL EXTEND .047 +.000 -.047 BEYOND SHELL AS SHOWN.

3/ DIMENSION W SHALL BE NOT LESS THAN THREAD DIAMETER V.

4/ LENGTH OF MINIMUM USABLE THREAD (W) MAY INCLUDE A MAXIMUM .109 INCH UNDERCUT.

NOTES FOR CLASS A AND B:

- SIZES 8S THRU 40 OF CLASSES A AND B ARE CANCELLED AFTER 1 JAN 1991. CLASSES F AND R ARE RECOMMENDED FOR REPLACEMENT PURPOSES ONLY. AS34511W WITH THE APPROPRIATE M85049/31 BACKSHELL IS RECOMMENDED FOR NEW DESIGN. AS34011 IS RECOMMENDED FOR SHIPBOARD JACKETED CABLES.
- SIZES 44 AND 48 OF CLASSES A AND B ARE RECOMMENDED FOR REPLACEMENT PURPOSES ONLY AND ARE NOT RECOMMENDED FOR NEW DESIGN.

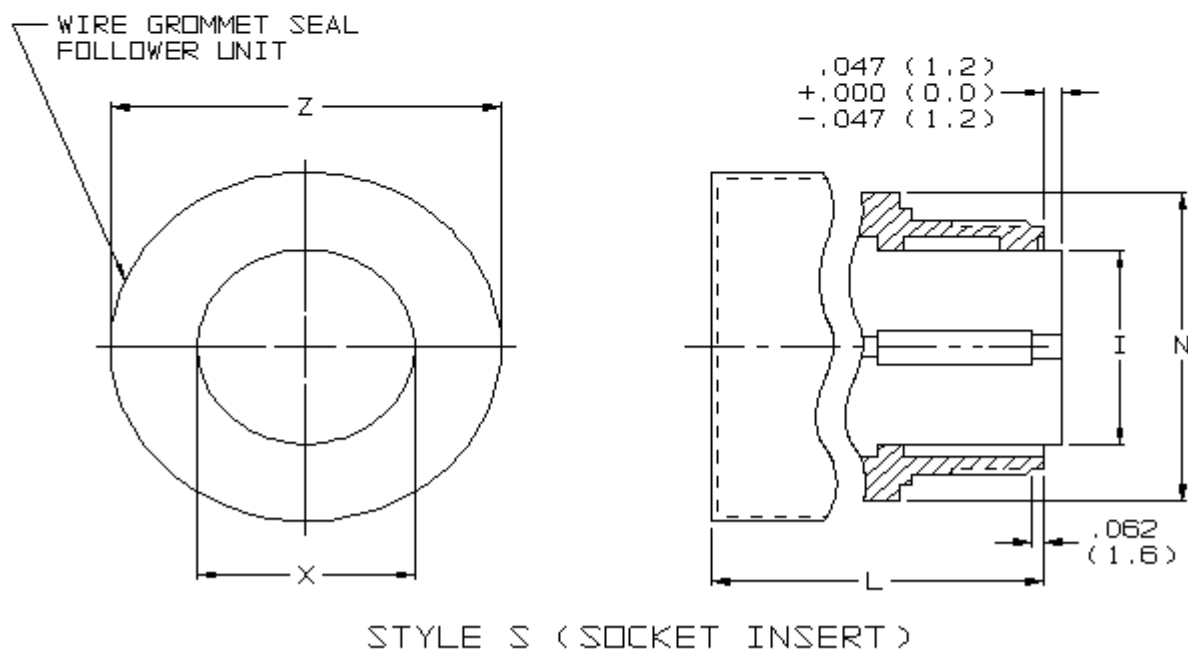
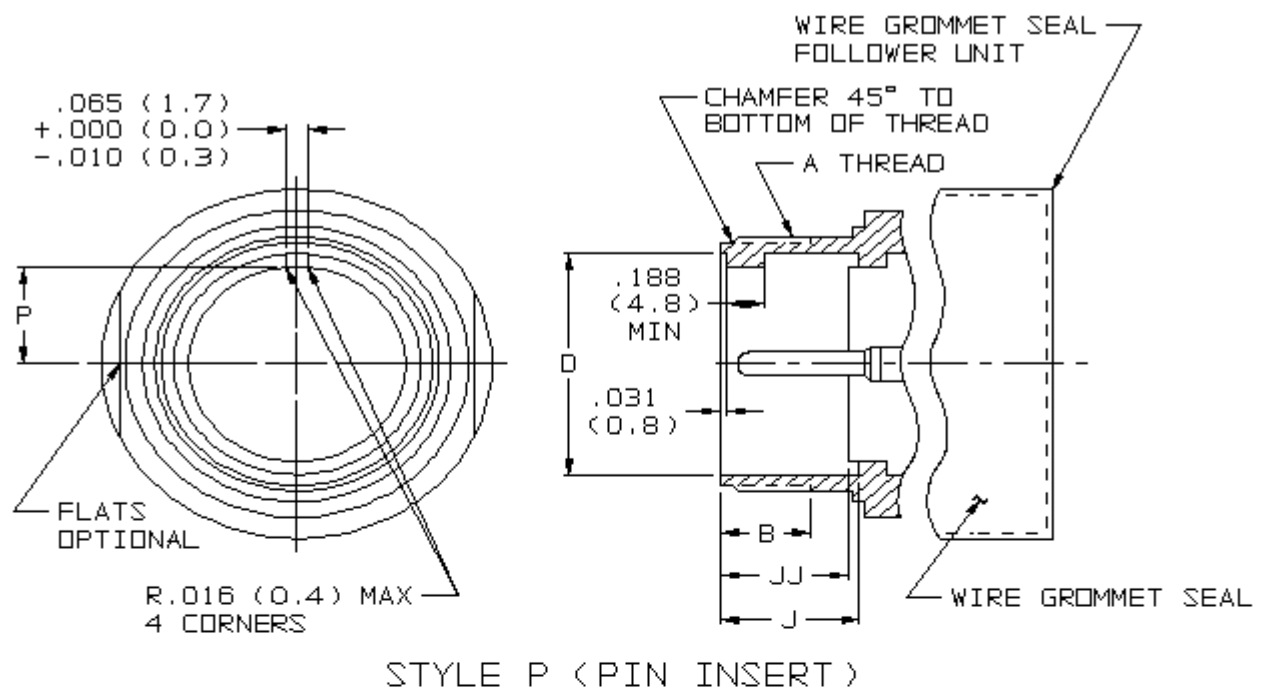
	AEROSPACE STANDARD	AS31011™ SHEET 2 OF 8	REV. A
	(R) CONNECTOR, RECEPTACLE, ELECTRIC, CABLE CONNECTING, SOLDER CONTACTS, AN TYPE		

 **Documents**



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CLASS R
ENVIRONMENT RESISTANT

FIGURE 2 – CLASS R CONFIGURATION & DIMENSIONS

	AEROSPACE STANDARD (R) CONNECTOR, RECEPTACLE, ELECTRIC, CABLE CONNECTING, SOLDER CONTACTS, AN TYPE	AS31011™ SHEET 1 OF 1	REV. A
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