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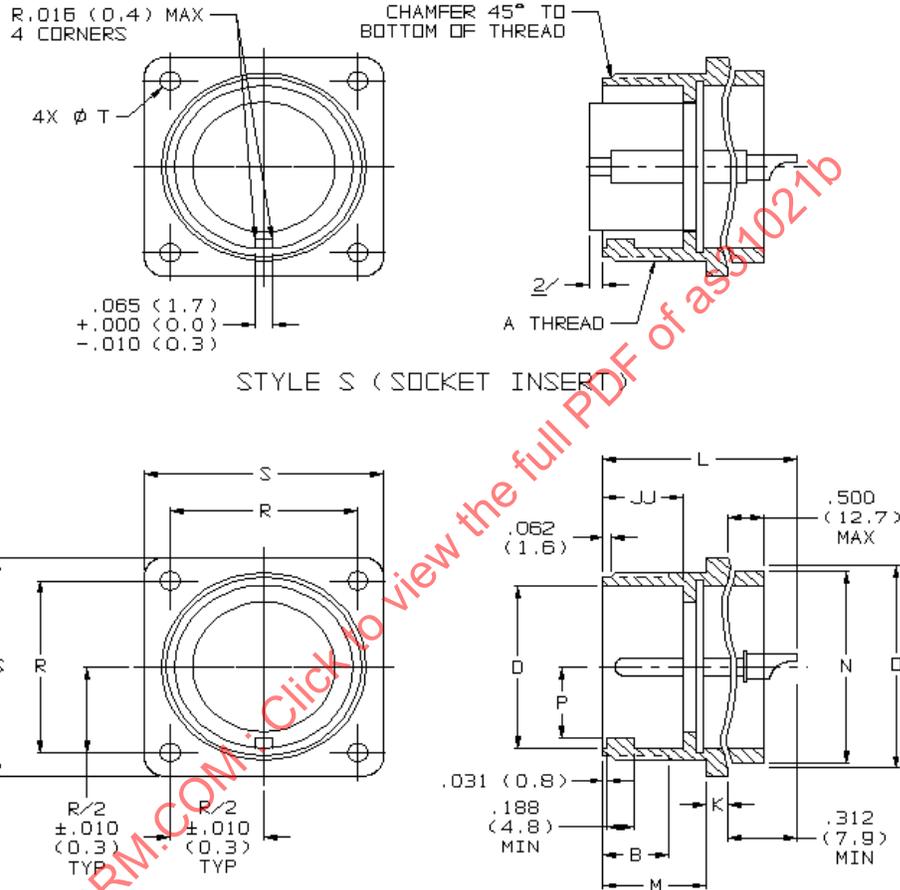
AS31021

RATIONALE

REVISION IS REQUIRED TO CORRECT USAGE INFORMATION FOR EACH CONNECTOR CLASS AND TO UPDATE DOCUMENT TO LATEST SAE FORMAT.

NOTICE

THE COMPLETE REQUIREMENTS FOR PROCURING THE PRODUCT DESCRIBED HEREIN SHALL CONSIST OF THIS DOCUMENT AND THE LATEST ISSUE OF AS50151.



STYLE S (SOCKET INSERT)

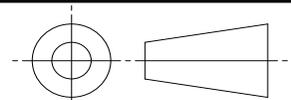
STYLE P (PIN INSERT)

- CLASS A - SOLID SHELL
- CLASS C - PRESSURIZED
- CLASS K - FIREWALL

FIGURE 1 - CONNECTOR CONFIGURATION AND DIMENSIONS

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THIRD ANGLE PROJECTION



CUSTODIAN: AE-8/AE-8C1

PROCUREMENT SPECIFICATION: AS50151



**AEROSPACE STANDARD**

(R) CONNECTOR, RECEPTACLE, ELECTRIC, BOX MOUNTING, SOLDER CONTACTS, AN TYPE

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**TABLE 1 - FIGURE 1 DIMENSIONS**

SHELL SIZE	A COUPLING THREAD	B MIN. USABLE THREAD	D +.015 (0.4)/ -.000 INSIDE DIA.	I MAX. INSERT DIA.	JJ 1/ +.031 (0.8)/ -.000 INSERT LOCATION
8S	1/2 - 28	.375 (9.5)	.370 (9.4)	.250 (6.4)	.562 (14.3)
10S	5/8 - 24		.448 (11.4)	.320 (8.1)	
10SL				.448 (11.4)	
12S	3/4 - 20	.625 (15.9)	.557 (14.1)		.750 (19.1)
12	7/8 - 20	.375 (9.5)	.682 (17.3)	.525 (13.3)	.562 (14.3)
14S		.625 (15.9)			.750 (19.1)
14		.375 (9.5)			.562 (14.3)
16S	1 - 20	.625 (15.9)	.807 (20.5)	.650 (16.5)	.750 (19.1)
16	1-1/8 - 18		.932 (23.7)	.770 (19.6)	
18			1-1/4 - 18	1.058 (26.9)	
20	1-3/8 - 18		1.182 (30.0)	1.020 (25.9)	
22	1-1/2 - 18		1.307 (33.2)	1.145 (29.1)	
24	1-3/4 - 18		1.526 (38.8)	1.365 (34.7)	
28	2 - 18		1.776 (45.1)	1.615 (41.0)	
32	2-1/4 - 16		1.995 (50.7)	1.830 (46.5)	
36	2-1/2 - 16		2.245 (57.0)	2.045 (51.9)	
40	2-3/4 - 16		2.495 (63.4)	2.300 (58.4)	
44 4/	3 - 16		2.745 (69.7)	2.550 (64.8)	
48 4/					

SHELL SIZE	K THICKNESS MOUNTING FLANGE			L MAX. OVERALL LENGTH		
	MAX	MIN.	MIN.	CLASS A & C	CLASS K	
	CLASS A & C		CLASS K	CLASS A & C	CLASS K	
8S	.156 (4.0)	.062 (1.6)	.062 (1.6)	1.191 (30.3)	1.375 (34.9)	
10S					1.438 (36.5)	
10SL						
12S				1.713 (43.5)	1.812 (46.0)	
12						
14S						1.438 (36.5)
14						
16S						1.938 (49.2)
16						
18						1.750 (44.5)
20						
22	.078 (2.0)	1.938 (49.2)				
24						
28						
32						
36						
40	.359 (9.1)	.125 (3.2)	.125 (3.2)	2.250 (57.2)		
44 4/	N/A	2.188 (55.6)	N/A			
48 4/						

**TABLE 1 - FIGURE 1 DIMENSIONS (CONTINUED)**

SHELL SIZE	M +.031 (0.8)/-.000 MTG. FLANGE LOCATION		N $\frac{3}{4}$ +.000/- .188 (4.8) OUTSIDE DIA.		O REF. MOUNTING HOLE		P +.015 (0.4)/-.000 KEY HEIGHT		R $\pm$ .005 (0.1) CC - CL MTG. HOLE	
8S	.562	(14.3)	.532	(13.5)	.562	(14.3)	.130	(3.3)	.594	(15.1)
10S			.656	(16.7)	.688	(17.5)	.165	(4.2)	.719	(18.3)
10SL			.782	(19.9)	.812	(20.6)				
12S							.224	(5.7)	.812	(20.6)
12	.750	(19.1)	.906	(23.0)	.938	(23.8)	.263	(6.7)	.906	(23.0)
14S	.562	(14.3)								
14	.750	(19.1)								
16S	.562	(14.3)								
16	.750	(19.1)	1.032	(26.2)	1.062	(27.0)	.325	(8.3)	.969	(24.6)
18			1.156	(29.4)	1.188	(30.2)	.385	(9.8)	1.062	(27.0)
20			1.282	(32.6)	1.312	(33.3)	.463	(11.8)	1.156	(29.4)
22			1.406	(35.7)	1.438	(36.5)	.510	(13.0)	1.250	(31.8)
24	.812	(20.6)	1.532	(38.9)	1.562	(39.7)	.573	(14.6)	1.375	(34.9)
28			1.782	(45.3)	1.812	(46.0)	.683	(17.3)	1.562	(39.7)
32	.875	(22.2)	2.032	(51.6)	2.062	(52.4)	.808	(20.5)	1.750	(44.5)
36			2.282	(58.0)	2.312	(58.7)	.915	(23.2)	1.938	(49.2)
40			2.532	(64.3)	2.562	(65.1)	1.023	(26.0)	2.188	(55.6)
44 <u>4/</u>			2.782	(70.7)	2.812	(71.4)	1.150	(29.2)	2.375	(60.3)
48 <u>4/</u>			3.032	(77.0)	3.062	(77.8)	1.275	(32.4)	2.625	(66.7)

SHELL SIZE	S $\pm$ .031 (0.8) LENGTH SIDE		+ .010 (0.3) - .005 (0.1) MOUNTING BOLT HOLE			
			CLASS A & C		CLASS K	
8S	.875	(22.2)	.120	(3.0)	.150	(3.8)
10S	1.000	(25.4)				
10SL						
12S	1.094	(27.8)				
12						
14S	1.188	(30.2)				
14						
16S	1.281	(32.5)				
16						
18	1.375	(34.9)				
20	1.500	(38.1)				
22	1.625	(41.3)	.177	(4.5)		
24	1.750	(44.5)				
28	2.000	(50.8)	.147	(3.7)	.208	(5.3)
32	2.250	(57.2)				
36	2.500	(63.5)				
40	2.750	(69.9)	.173	(4.4)		
44 <u>4/</u>	3.000	(76.2)	.173	(4.4)		
48 <u>4/</u>	3.250	(82.6)				

