

RATIONALE

REVISE TO INCLUDE COMMENTS RECEIVED BY THE GOVERNMENT AND INDUSTRY, UPDATE REFERENCES, ALIGN SPECIFICATION WITH SAE GUIDELINES AND RE-WORK ILLEGIBLE DRAWINGS/TABLES, AND REVIEW SPECIFICATION FOR KNOWN TECHNICAL PROBLEMS.

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

REV.  
A

SAE AS25183

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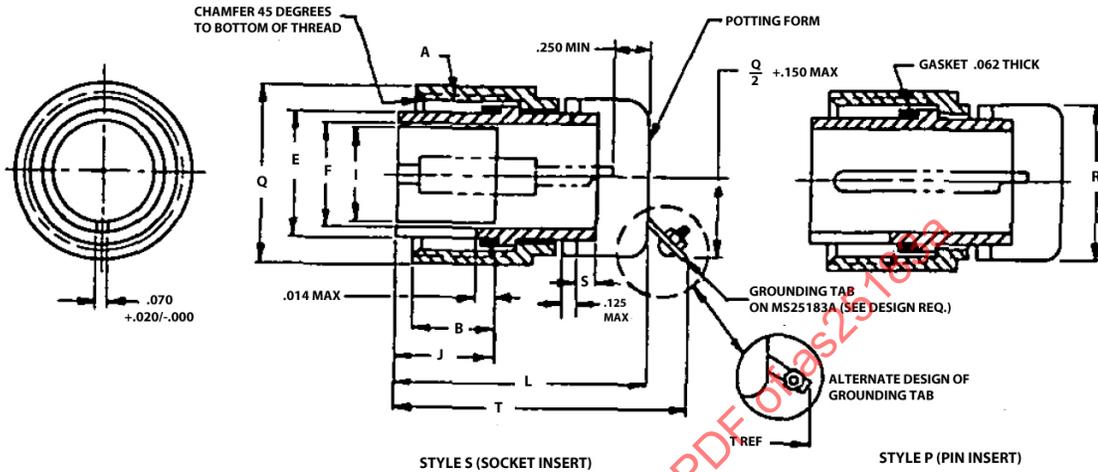
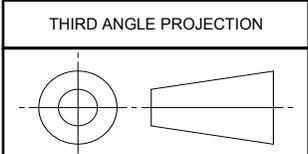


FIGURE 1 – CONNECTOR CONFIGURATION AND DIMENSIONS

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CUSTODIAN: AE-8C1

PROCUREMENT SPECIFICATION: AS50151

**SAE Aerospace**  
An SAE International Group

**AEROSPACE STANDARD**  
(R) CONNECTOR, PLUG, ELECTRIC,  
POTTING SEAL, SOLDER CONTACT,  
AN TYPE

**SAE AS25183**  
SHEET 1 OF 3

**REV. A**

TABLE 1 – FIGURE 1 DIMENSIONS

SIZE	A COUPLING THREAD	B +.000/-0.062 EXT. COUPLING RING	E +.000 -.015 O.D.	F MIN. I.D.	I MAX. INSERT DIA.	J +/-0.005 LENGTH ENGAGEMENT	L MAX. 1/
8S	1/2 – 28	.375	.365	.252	.250	.531	1.500
10S	5/8 – 24		.440	.323	.320		
10SL			.446	N/A			
12S	3/4 – 20	.625	.555	.450	.448	.719	1.906
12							
14S	7/8 – 20	.375	.675	.526	.525	.531	1.500
14		.625				.719	1.906
16S		.375				.531	1.500
16	1 – 20	.625	.805	.651	.650	.719	1.906
18	1-1/8 – 18		.930	.776	.770		2.188
20	1-1/4 – 18		1.050	.932	.925		
22	1-3/8 – 18		1.175	1.026	1.020		
24	1-1/2 – 18		1.300	1.151	1.145		
28	1-3/4 – 18		1.520	1.370	1.365		
32	2 – 18		1.770	1.620	1.615		
36	2-1/4 – 16		1.980	1.838	1.830		
40	2-1/2 – 16		2.230	2.057	2.045		
44	2-3/4 – 16		2.480	2.307	2.300		
48	3 – 16		2.730	2.557	2.550		

TABLE 1 – FIGURE 1 DIMENSIONS (CONTINUED)

SIZE	T MAX. OVERALL LENGTH 2/	Q MAX. OVERALL O.D.	R MAX.	S MIN 3/	FOR INSERT ARRANGEMENT SEE DRAWING
8S	1.575	.844	.613	.055	MIL-STD-1651
10S		.969	.707		
10SL					
12S	2.251	1.002	.863	.141	
12					
14S	1.575	1.166	.941	.055	
14	2.251			.141	
16S	1.575	1.250	1.066	.055	
16	2.251	1.344	1.207	.141	
18					
20					
22	2.594	1.469	1.332	.225	
24		1.594	1.457		
28		1.719	1.552		
32		1.969	1.632		
36		2.219	2.082		
40		2.469	2.395		
44		2.719	2.594		
48		2.969	3.075		
		3.219	3.125		

1/ ADD .375 FOR SIZE "O" CONTACTS.

2/ THE GROUNDING TAB MUST PROVIDE POSITIVE CONDUCTIVITY TO SHELL AND BE PROVIDED WITH A 6-32 SCREW AND NUT FOR EXTERNALLY GROUNDING PIGTAILS OF SHIELDED WIRE TO SHELL OF CONNECTOR.

3/ THE SURFACE WITHIN THE "S" DIMENSION SHALL HAVE SURFACE IRREGULARITIES TO ASSIST THE GRIP OF THE POTTING COMPOUND TO THE SHELL.