

REV.
A

SAE AS25183

FEDERAL SUPPLY CLASS
5935

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.

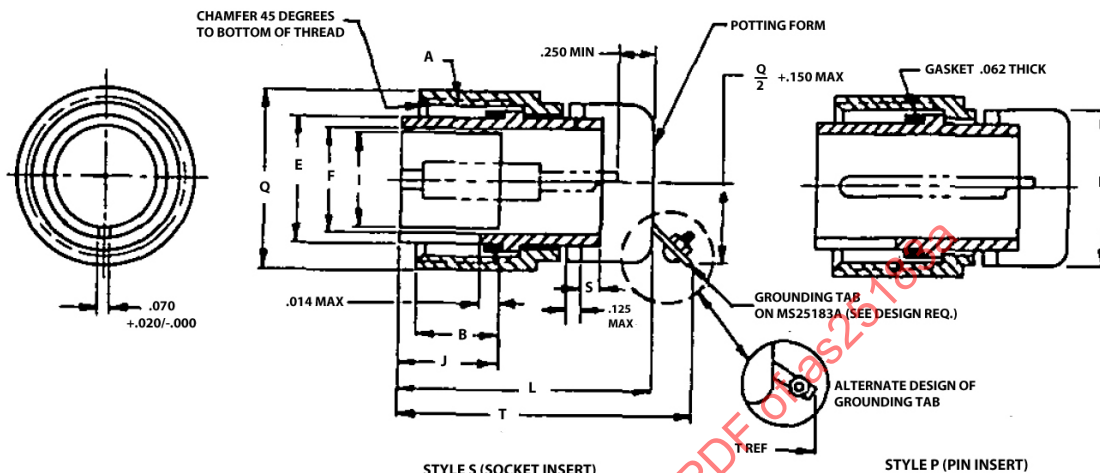
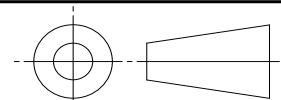


FIGURE 1 – CONNECTOR CONFIGURATION AND DIMENSIONS

SAE values your input. To provide feedback on this Technical Report, please visit <http://www.sae.org/technical/standards/AS25183A>

THIRD ANGLE PROJECTION



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

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TABLE 1 – FIGURE 1 DIMENSIONS

SIZE	A COUPLING THREAD	B +.000/-.062 EXT. COUPLING RING	E +.000 -.015 O.D.	F MIN. I.D.	I MAX. INSERT DIA.	J +/- .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	.448		
12S	3/4 – 20		.625	.555			
12							
14S	7/8 – 20	.375	.675	.526	.525	.531	1.500
14		.625				.719	1.906
16S	1 – 20	.375	.805	.651	.650	.531	1.500
16		.625				.719	2.188
18	1-1/8 – 18		.930	.776	.770		
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		1.002	.863			
12	2.251	1.166	.941	.141		
14S	1.575			.055		
14	2.251			.141		
16S	1.575	1.250	1.066	.055		
16	2.251	1.344	1.207	.141		
18			1.469			1.332
20			1.594			1.457
22		1.719	1.552			
24	2.594	1.969	1.632	.225		
28		2.219	2.082			
32		2.469	2.395			
36		2.719	2.594			
40		2.969	3.075			
44		3.219	3.125			
48						

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.