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REV.
B

AS25183™

FEDERAL SUPPLY CLASS
5935

RATIONALE

REVISION IS REQUIRED TO IMPROVE DRAWINGS, TO UPDATE RESTRICTION/APPLICATION NOTES, TO CHANGE THE "I" DIMENSION FOR SHELL SIZE 10SL TO THE PREVIOUS MS/AS VALUE OF .440, TO ADD METRIC EQUIVALENTS, AND TO UPDATE DOCUMENT TO LATEST SAE FORMAT GUIDELINES.

NOTICE

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

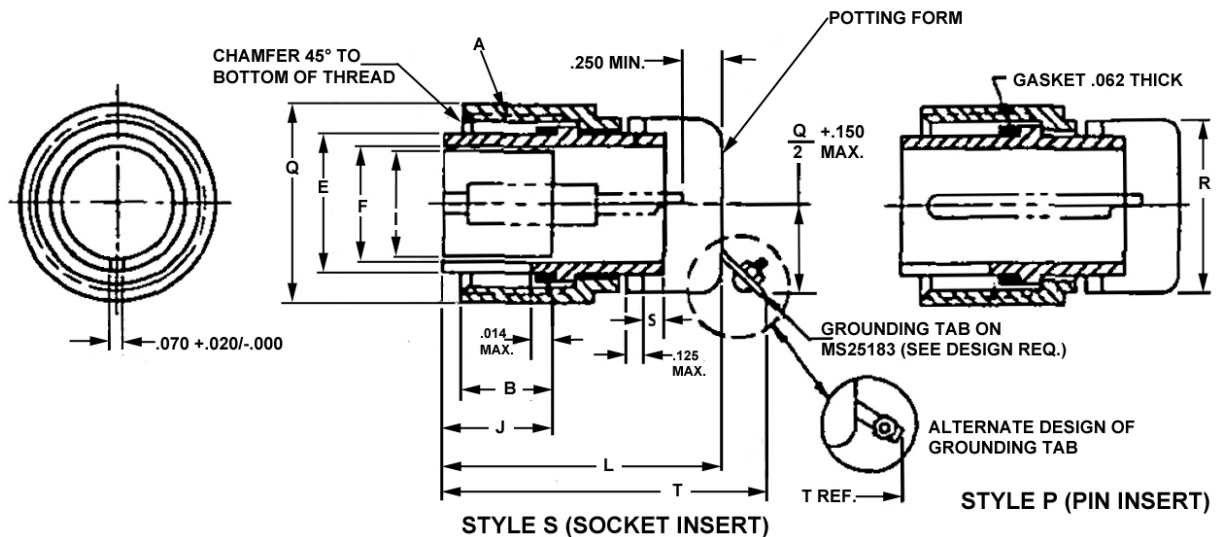


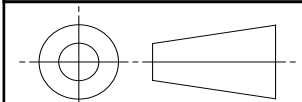
FIGURE 1 - CONNECTOR CONFIGURATION AND DIMENSIONS

TABLE 1 - FIGURE 1 METRIC EQUIVALENTS

INCHES	MILLIMETERS	INCHES	MILLIMETERS	INCHES	MILLIMETERS	INCHES	MILLIMETERS
.014	0.36	.062	1.57	.125	3.18	.250	6.35
.020	0.51	.070	1.78	.150	3.81		

For more information on this standard, visit
<https://www.sae.org/standards/content/AS25183B/>

THIRD ANGLE PROJECTION



CUSTODIAN: AE-8/AE-8C1

PROCUREMENT SPECIFICATION: AS50151



AEROSPACE STANDARD

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

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Documents

TABLE 2 – FIGURE 1 DIMENSIONS

SIZE	A COUPLING THREAD	B +.000 -.062 (1.57) EXT. COUPLING RING	E +.000 -.015 (0.38) OD	F MIN ID	I MAX INSERT DIA	J ±.005 (0.13) LENGTH ENGAGEMENT	L MAX 1/
8S	1/2 – 28	.375 (9.53)	.365 (9.27)	.252 (6.40)	.250 (6.35)	.531 (13.49)	1.500 (38.10)
10S	5/8 – 24		.440 (11.18)	.323 (8.20)	.320 (8.13)		
10SL			.446 (11.33)	N/A	.440 (11.18)		
12S	3/4 – 20		.555 (14.10)	.450 (11.43)	.448 (11.38)		
12	7/8 – 20	.625 (15.88)	.675 (17.15)	.526 (13.36)	.525 (13.34)	.531 (13.49)	1.500 (38.10)
14S		.375 (9.53)				.719 (18.26)	1.906 (48.41)
14		.625 (15.88)				.531 (13.49)	1.500(38.10)
16S	1 – 20	.375 (9.53)	.805 (20.45)	.651 (16.54)	.650 (16.51)	.719 (18.26)	1.906 (48.41)
16		.625 (15.88)	.930 (23.62)	.776 (19.71)	.770 (19.56)		2.188 (55.58)
18	1-1/8 – 18		1.050 (26.67)	.932 (23.67)	.925 (23.50)		
20	1-1/4 – 18		1.175 (29.85)	1.026 (26.06)	1.020 (25.91)		
22	1-3/8 – 18		1.300 (33.02)	1.151 (29.24)	1.145 (29.08)		
24	1-1/2 – 18		1.520 (38.61)	1.370 (34.80)	1.365 (34.67)		
28	1-3/4 – 18		1.770 (44.96)	1.620 (41.15)	1.615 (41.02)		
32	2 – 18		1.980 (50.29)	1.838 (46.69)	1.830 (46.48)		
36	2-1/4 – 16		2.230 (56.64)	2.057 (52.25)	2.045 (51.94)		
40	2-1/2 – 16		2.480 (62.99)	2.307 (58.60)	2.300 (58.42)		
44	2-3/4 – 16		2.730 (69.34)	2.557 (64.95)	2.550 (64.77)		
48	3 – 16						

TABLE 2 – FIGURE 1 DIMENSIONS (CONTINUED)

SIZE	T MAX OVERALL LENGTH 2/	Q MAX OVERALL OD	R MAX	S MIN 3/	FOR INSERT ARRANGEMENT SEE DRAWING
8S	1.575 (40.01)	.844 (21.44)	.613 (15.57)	.055 (1.40)	MIL-STD-1651
10S		.969 (24.61)	.707 (17.96)		
10SL			.863 (21.92)		
12S		1.002 (25.45)			
12	2.251 (57.18)		.141 (3.58)		
14S	1.575 (40.01)		.055 (1.40)		
14	2.251 (57.18)	1.156 (29.36)	.141 (3.58)		
16S	1.575 (40.01)		.055 (1.40)		
16	2.251 (57.18)	1.250 (31.75)	1.066 (27.08)	.141 (3.58)	
18		1.344 (34.14)	1.207 (30.66)		
20		1.469 (37.31)	1.332 (33.83)		
22		1.594 (40.49)	1.457 (37.01)		
24	2.594 (65.89)	1.719 (43.66)	1.552 (39.42)	.225 (5.72)	
28		1.969 (50.01)	1.632 (41.45)		
32		2.219 (56.36)	2.082 (52.88)		
36		2.469 (62.71)	2.395 (60.83)		
40		2.719 (69.06)	2.594 (65.89)		
44		2.969 (75.41)	3.075 (78.11)		
48		3.219 (81.76)	3.125 (79.38)		

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.

	AEROSPACE STANDARD	AS25183™ SHEET 2 OF 3	REV. B 
	(R) CONNECTOR, PLUG, ELECTRIC, POTTING SEAL, SOLDER CONTACT, AN TYPE		

