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REV.
B

AS34641™

FEDERAL SUPPLY CLASS
5935

RATIONALE

LIMITED SCOPE REVISION REQUIRED TO CORRECT SHELL SIZE 3 G THREAD LISTED IN TABLE 2.

NOTICE

THE COMPLETE REQUIREMENTS FOR PROCURING THE PRODUCT DESCRIBED HEREIN SHALL CONSIST OF THIS DOCUMENT AND THE LATEST ISSUE OF AS81703.

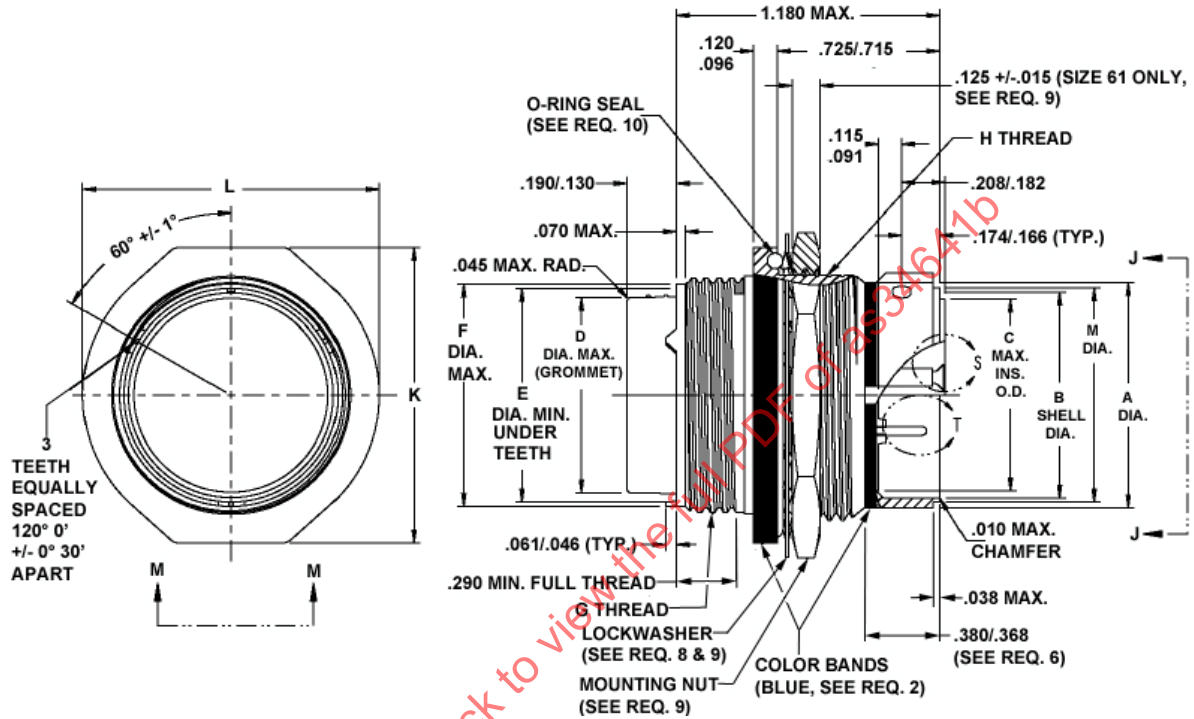
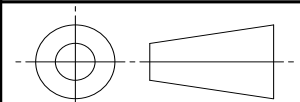


FIGURE 1 - CONNECTOR CONFIGURATIONS AND DIMENSIONS

For more information on this standard, visit
<https://www.sae.org/standards/content/AS34641B/>

THIRD ANGLE PROJECTION



CUSTODIAN: AE-8/AE-8C1

PROCUREMENT SPECIFICATION: AS81703



AEROSPACE STANDARD
CONNECTOR, RECEPTACLE, ELECTRIC,
CRIMP TYPE, JAM NUT MOUNTING,
PUSH-PULL COUPLING, SERIES 3 (CLASS L AND E)

AS34641™
SHEET 1 OF 6

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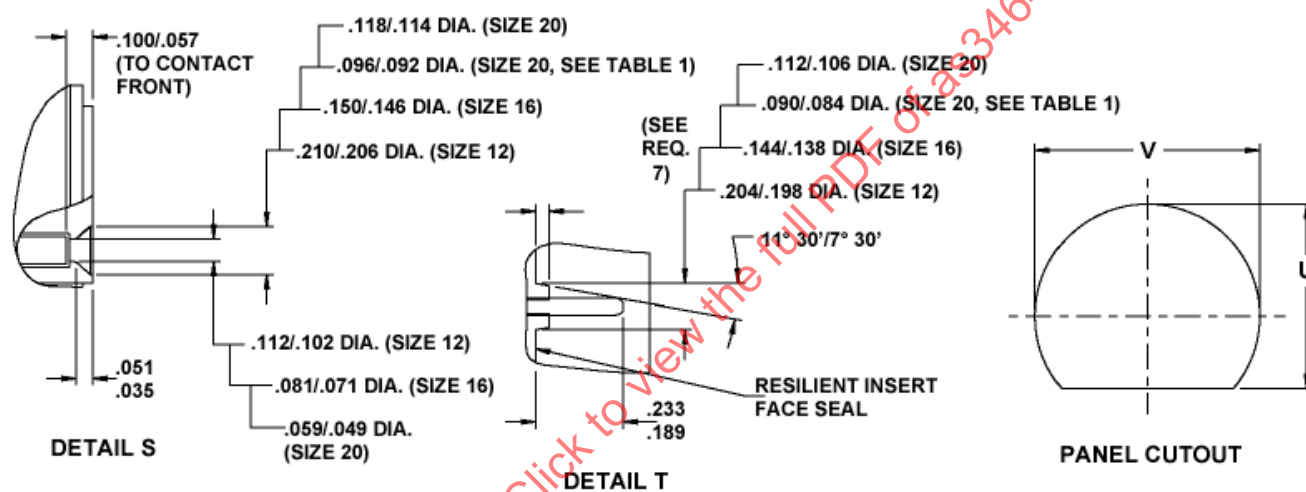
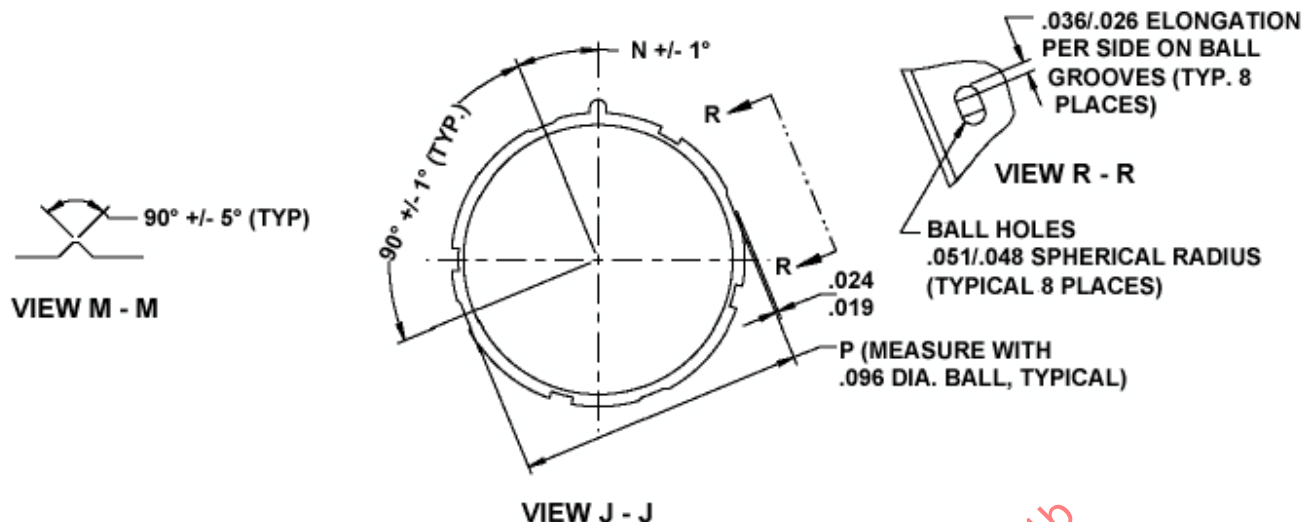


FIGURE 1 - CONNECTOR CONFIGURATIONS AND DIMENSIONS (CONTINUED)

TABLE 1 - INSERT ARRANGEMENTS REQUIRING REDUCED DIAMETERS

ON OUTER ROW CONTACTS OF INSERT ARRANGEMENTS INDICATED BELOW		
INSERT ARRANGEMENTS REQUIRING REDUCED DIAMETERS FOR SOCKET CONTACT CHAMFER LEAD-INS AND PIN CONTACT RAISED SEAL BARRIERS		
SHELL SIZE	INSERT ARRANGEMENT	CONTACT CAVITIES
12	12-50	5, 6, 8, 9, 11, AND 12

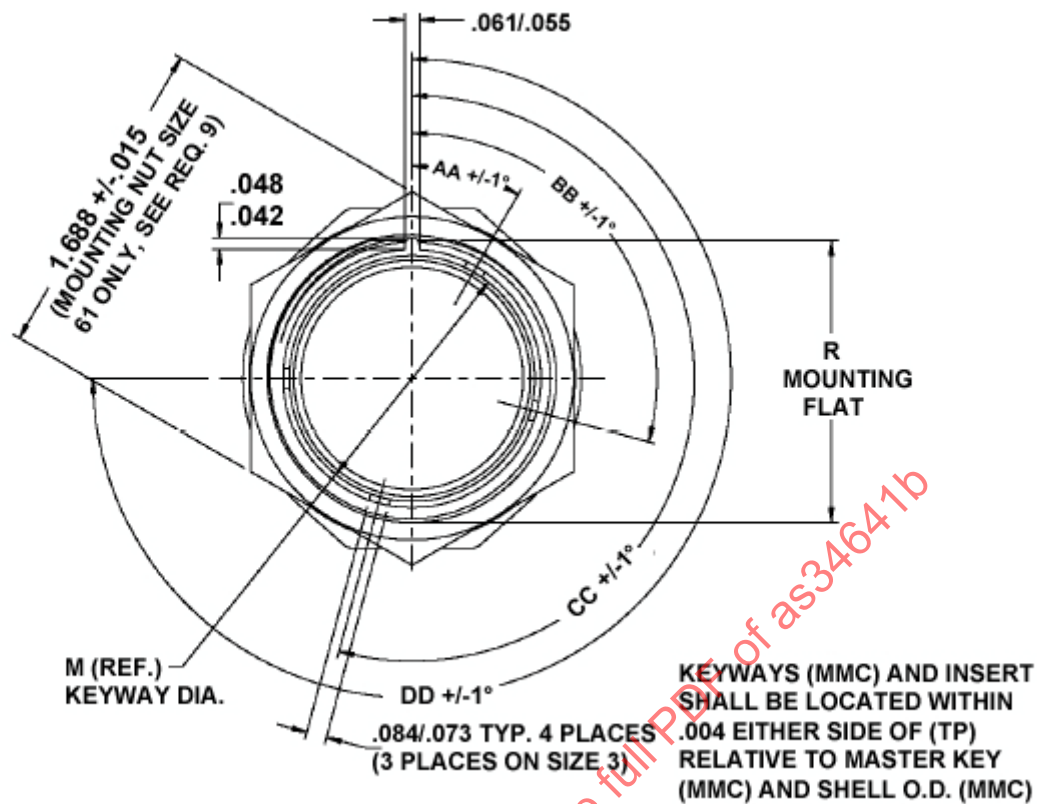


FIGURE 2 - KEYWAY POSITIONS

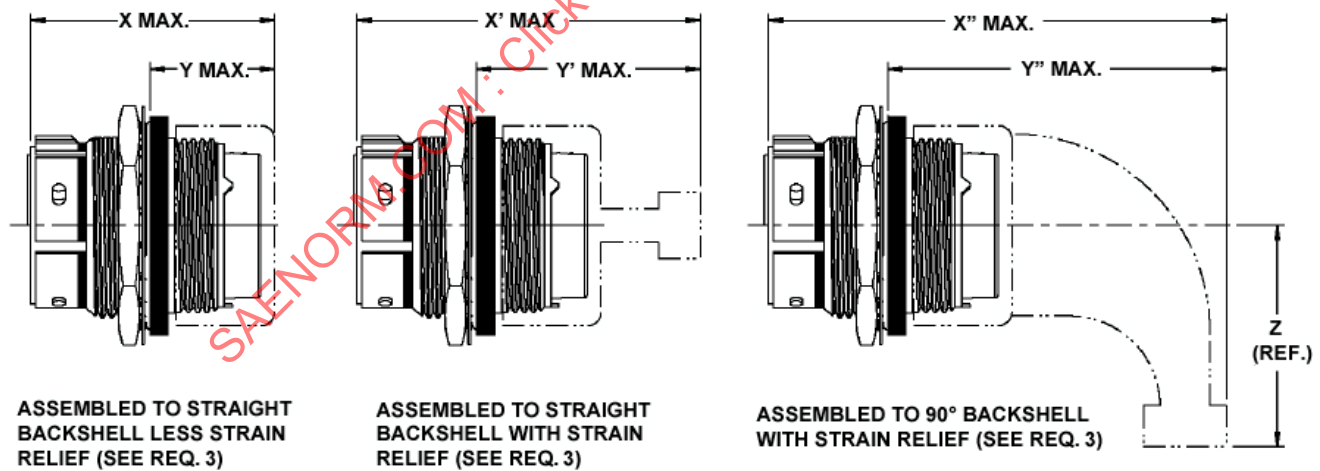


FIGURE 3 - BACKSHELL ACCESSORIES

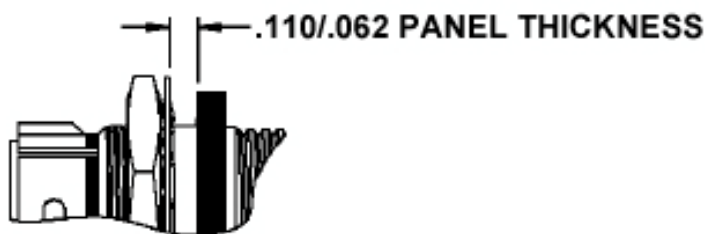


FIGURE 4 - PANEL DIMENSIONS

TABLE 2 - CONNECTOR DIMENSIONS

SHELL SIZE	A	B	C	D	E	F	G THREAD	H THREAD	K	L
3	.441/ .431	.367/ .356	.330	.351	.441	.509	9/16-24 UNEF-2A	9/16-24 UNEF-2A	.765/ .735	.765/ .735
7	.576/ .566	.483/ .473	.451	.531	.613	.687	3/4-20 UNEF-2A	11/16-24 UNEF-2A	.890/ .860	.890/ .860
12	.710/ .700	.624/ .614	.553	.665	.731	.812	7/8-20 UNEF-2A	13/16-20 UNEF-2A	1.077/1.047	1.077/1.047
19	.849/ .839	.763/ .753	.738	.790	.861	.937	1-20 UNEF-2A	1-20 UNEF-2A	1.171/1.141	1.202/1.172
27	1.004/ .994	.918/ .908	.854	.869	.919	.992	1 1/16-18 UNEF-2A	1 1/8-18 UNEF-2A	1.327/1.297	1.327/1.297
37	1.126/1.116	1.040/1.030	.978	.994	1.044	1.117	1 3/16-18 UNEF-2A	1 1/4-18 UNEF-2A	1.435/1.405	1.515/1.485
61	1.414/1.404	1.316/1.306	1.271	1.280	1.361	1.427	1 1/2-18 UNEF-2A	1 1/2-18 UNEF-2A	1.864/1.834	1.890/1.860

TABLE 2A - CONNECTOR DIMENSIONS (CONTINUED)

SHELL SIZE	M	N	P	R	U	V	X	X'	X''	Y	Y'	Y''	Z
3	.392/ .385	30°	.398/ .391	.523	.538/ .534	.577/ .567	1.452	1.802	2.009	.750	1.112	1.320	.850
7	.527/ .520	22°30'	.533/ .526	.655	.665/ .661	.701/ .691	1.452	1.802	2.210	.750	1.112	1.521	.950
12	.661/ .654	22°30'	.668/ .661	.778	.788/ .784	.826/ .816	1.452	1.452	2.300	.750	1.347	1.611	1.010
19	.800/ .793	22°30'	.806/ .799	.963	.973/ .969	1.013/1.003	1.452	1.452	2.435	.750	1.347	1.746	1.070
27	.995/ .948	22°30'	.961/ .954	1.089	1.099/1.095	1.138/1.128	1.452	1.452	2.534	.750	1.347	1.845	1.130
37	1.077/1.070	22°30'	1.083/1.076	1.214	1.224/1.220	1.263/1.253	1.452	1.452	2.667	.750	1.347	1.978	1.190
61	1.365/1.358	22°30'	1.367/1.360	1.463	1.471/1.467	1.514/1.504	1.452	1.452	2.914	.750	1.347	2.220	1.335

TABLE 3 - KEYWAY POSITIONS AND INSERT ARRANGEMENT DOCUMENTS

SHELL SIZE	AA	BB	CC	DD	INSERT ARRANGEMENT DOCUMENT
3	23°	97°	187°	--	AS33698
7	23°	97°	187°	277°	AS33699
12	30°	105°	195°	270°	AS33700
19	30°	105°	195°	270°	AS33701
27	30°	105°	195°	270°	AS33702
37	30°	105°	195°	270°	AS33703
61	30°	105°	195°	270°	AS33704