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REV.
B

AS34661™

FEDERAL SUPPLY CLASS
5935

RATIONALE

REVISION IS REQUIRED TO IMPROVE DRAWING QUALITY, TO CHANGE THE NOTES TO REQUIREMENTS, TO CORRECT PART NUMBER EXAMPLE ERRORS, TO ADD METRIC EQUIVALENTS, AND TO UPDATE FORMAT TO LATEST SAE GUIDELINES.

NOTICE

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

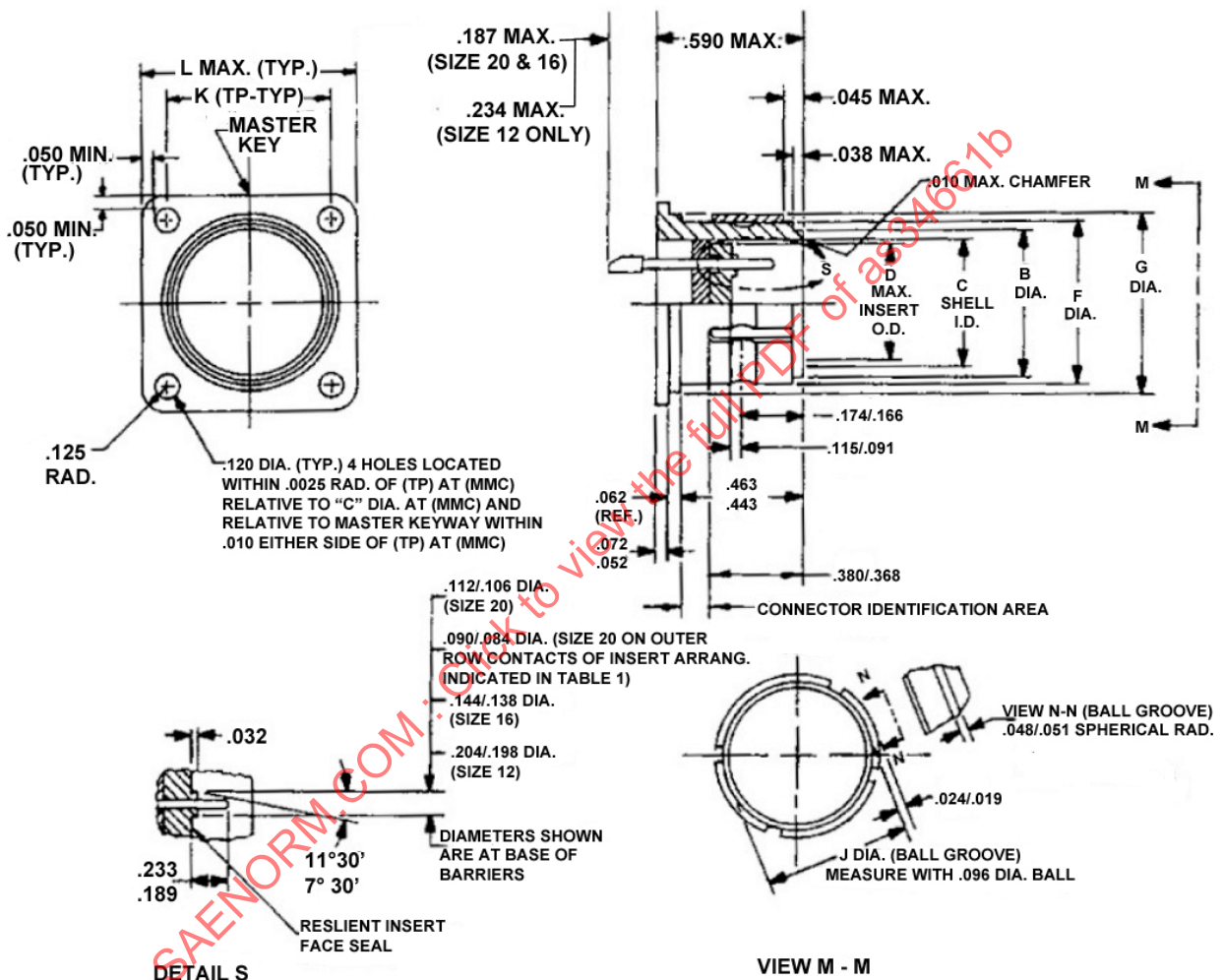
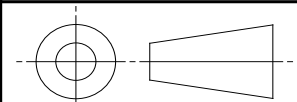


FIGURE 1 - AS34661 CONNECTOR CONFIGURATION

For more information on this standard, visit
<https://www.sae.org/standards/content/AS34661B/>

THIRD ANGLE PROJECTION



CUSTODIAN: AE-8/AE-8C1

PROCUREMENT SPECIFICATION: AS81703



AEROSPACE STANDARD

(R) CONNECTOR, RECEPTACLE, ELECTRIC,
HERMETIC, SOLDER TYPE, BOX MOUNTING, PUSH-PULL
COUPLING, SERIES 3 (CLASS H)

AS34661™
SHEET 1 OF 5

REV.
B

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ISSUED 2004-06 REVISED 2016-05 REAFFIRMED 2021-04

TABLE 1 – CONTACT CAVITIES REQUIRING REDUCED DIAMETERS

INSERT ARRANGEMENTS REQUIRING REDUCED DIAMETERS FOR PIN CONTACT RAISED SEAL BARRIERS		
SHELL SIZE	INSERT ARRANGEMENT	CONTACT CAVITIES
12	12-50	5, 6, 8, 9, 11 & 12

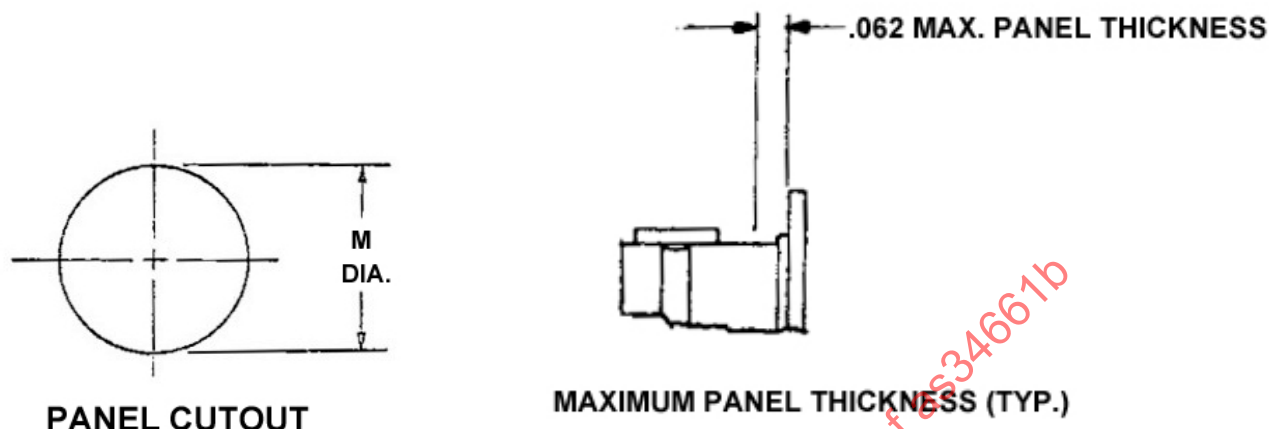


FIGURE 2 – AS34661 CONFIGURATIONS (PANEL CUTOUT AND MAXIMUM PANEL THICKNESS)

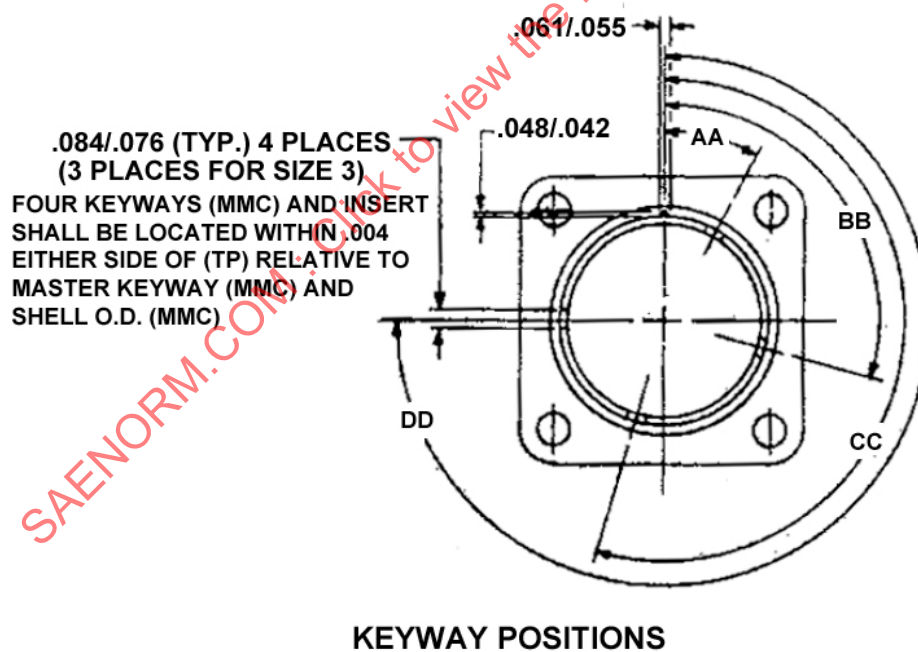


FIGURE 3 – AS34661 CONFIGURATIONS (KEYWAY POSITIONS)

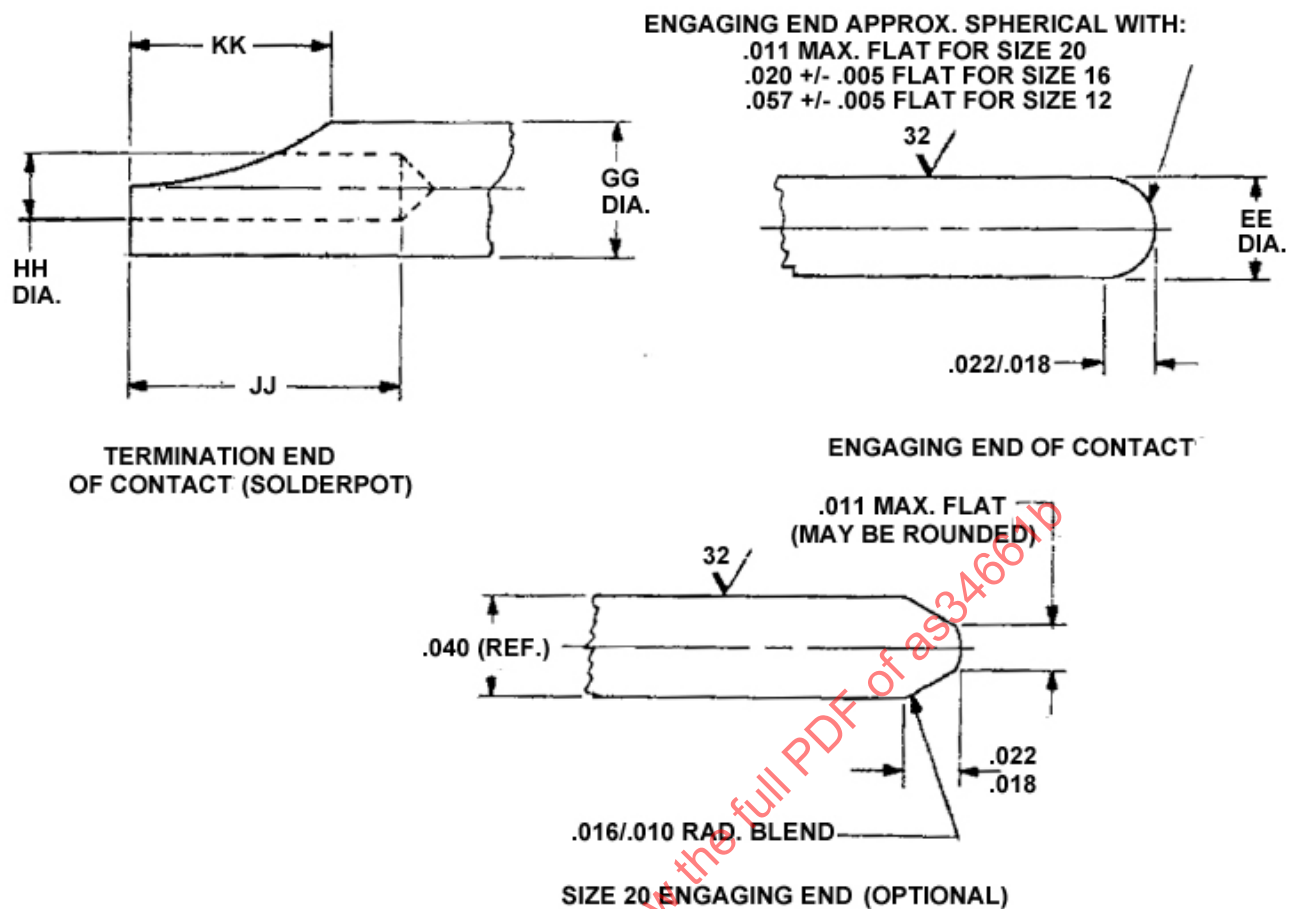


FIGURE 4 - CONTACT ENGAGEMENT END, TERMINATION END

TABLE 2 - FIGURES 1 THROUGH 4 METRIC EQUIVALENTS

INCHES	MILLIMETERS	INCHES	MILLIMETERS	INCHES	MILLIMETERS	INCHES	MILLIMETERS	INCHES	MILLIMETERS
.0025	0.06	.032	0.81	.057	1.45	.115	2.92	.204	5.18
.005	0.13	.038	0.97	.061	1.55	.120	3.05	.233	5.92
.010	0.25	.040	1.02	.062	1.57	.125	3.18	.234	5.94
.011	0.28	.042	1.07	.072	1.83	.138	3.51	.368	9.35
.016	0.41	.045	1.14	.076	1.93	.144	3.66	.380	9.65
.018	0.46	.048	1.22	.084	2.13	.166	4.22	.443	11.25
.019	0.48	.050	1.27	.090	2.29	.174	4.42	.463	11.76
.020	0.51	.051	1.30	.091	2.31	.187	4.75		
.022	0.56	.052	1.32	.106	2.69	.189	4.80		
.024	0.61	.055	1.40	.112	2.84	.198	5.03		

TABLE 3 - CONNECTOR DIMENSIONS AND WEIGHTS

SHELL SIZE	B	C	D	F	G	J	K	L	M
3	.392 (9.96) .385 (9.78)	.367 (9.32) .356 (9.04)	.330 (8.38)	.441 (11.20) .431 (10.95)	.549 (13.94) .529 (13.44)	.399 (10.13) .391 (9.93)	.625 (15.88)	.891 (22.63)	.583 (14.81)
7	.527 (13.39) .520 (13.21)	.483 (12.27) .473 (12.01)	.451 (11.46)	.576 (14.63) .566 (14.38)	.682 (17.32) .662 (16.81)	.534 (13.56) .526 (13.36)	.719 (18.26)	1.016 (25.81)	.760 (19.30)
12	.661 (16.79) .654 (16.61)	.624 (15.85) .614 (15.60)	.553 (14.05)	.710 (18.03) .700 (17.78)	.822 (20.88) .802 (20.37)	.669 (16.99) .661 (16.79)	.813 (20.65)	1.109 (28.17)	.885 (22.48)
19	.800 (20.32) .793 (20.14)	.763 (19.38) .753 (19.13)	.738 (18.75)	.849 (21.56) .839 (21.31)	.947 (24.05) .927 (23.55)	.807 (20.50) .799 (20.29)	.906 (23.01)	1.203 (30.56)	1.010 (25.65)
27	.955 (24.26) .948 (24.08)	.918 (23.32) .908 (23.06)	.854 (21.69)	1.004 (25.50) .994 (25.25)	1.130 (28.70) 1.110 (28.19)	.962 (24.43) .954 (24.23)	.968 (24.59)	1.297 (32.94)	1.141 (28.98)
37	1.077 (27.36) 1.070 (27.18)	1.040 (26.42) 1.030 (26.16)	.978 (24.84)	1.126 (28.60) 1.116 (28.35)	1.228 (31.19) 1.208 (30.68)	1.084 (27.53) 1.076 (27.33)	1.187 (30.15)	1.453 (36.91)	1.271 (32.28)
61	1.365 (34.67) 1.358 (34.49)	1.316 (33.43) 1.306 (33.17)	1.271 (32.28)	1.414 (35.92) 1.404 (35.66)	1.510 (38.35) 1.490 (37.85)	1.367 (34.72) 1.360 (34.54)	1.436 (36.47)	1.797 (45.64)	1.583 (40.21)

TABLE 4 - KEYWAY POSITIONS

SIZE	AA	BB	CC	DD
3	23°	97°	187°	
7	23°	97°	187°	277°
12	30°	105°	195°	270°
19	30°	105°	195°	270°
27	30°	105°	195°	270°
37	30°	105°	195°	270°
61	30°	105°	195°	270°

TABLE 5 - CONTACT DIMENSIONS

CONTACT SIZE	EE	GG	HH	JJ	KK
20	.041 (1.04) .039 (0.99)	.088 (2.24) .061 (1.55)	.058 (1.47) .052 (1.32)	.188 (4.78) .109 (2.77)	.110 (2.79) .068 (1.73)
16	.0635 (1.61) .0615 (1.56)	.116 (2.95) .096 (2.44)	.078 (1.98) .072 (1.83)	.251 (6.38) .172 (4.37)	.141 (3.58) .109 (2.77)
12	.095 (2.41) .093 (2.36)	.150 (3.81) .130 (3.30)	.122 (3.10) .110 (2.79)	.251 (6.38) .172 (4.37)	.143 (3.63) .109 (2.77)

REQUIREMENTS: ALL REQUIREMENTS SHALL CONSIST OF THIS DOCUMENT AND THE LATEST ISSUE OF AS81703.

1. DESIGN AND CONSTRUCTION:

CONNECTORS AND CONTACTS SHALL BE DESIGNED IN ACCORDANCE WITH FIGURES 1 THROUGH 4 AND TABLES 2 THROUGH 5. DIMENSIONS SHOWN ARE IN INCHES AND APPLY AFTER PLATING. TOLERANCES SHALL BE .XX ± .010 AND .XXX ± .005; ANGULAR TOLERANCE, X° ± 1°, 0° AND X° X' ± 30'. ALL DIMENSIONS PROVIDED IN PARENTHESES ARE METRIC EQUIVALENTS, ARE GIVEN FOR GENERAL INFORMATION ONLY AND ARE BASED ON INCH = 25.4 MILLIMETERS.

SHELL MATERIAL AND FINISH SHALL BE AS REQUIRED BY AS81703.

EACH CONNECTOR SHALL BE PACKAGED WITH A PLASTIC DUST CAP OVER EACH END OF SHELL.

	AEROSPACE STANDARD	AS34661™ SHEET 4 OF 5	REV. B
	(R) CONNECTOR, RECEPTACLE, ELECTRIC, HERMETIC, SOLDER TYPE, BOX MOUNTING, PUSH-PULL COUPLING, SERIES 3 (CLASS H)		