

REV.
B

AS34671

FEDERAL SUPPLY CLASS
5935

RATIONALE

REVISION IS REQUIRED TO CORRECT THE FEATURE LINE FOR THE .218-.185 DIMENSION IN FIGURE 1, THE LEFT SIDE BOUNDARY LINE SHOULD BE THE END OF THE SHELL.

NOTICE

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

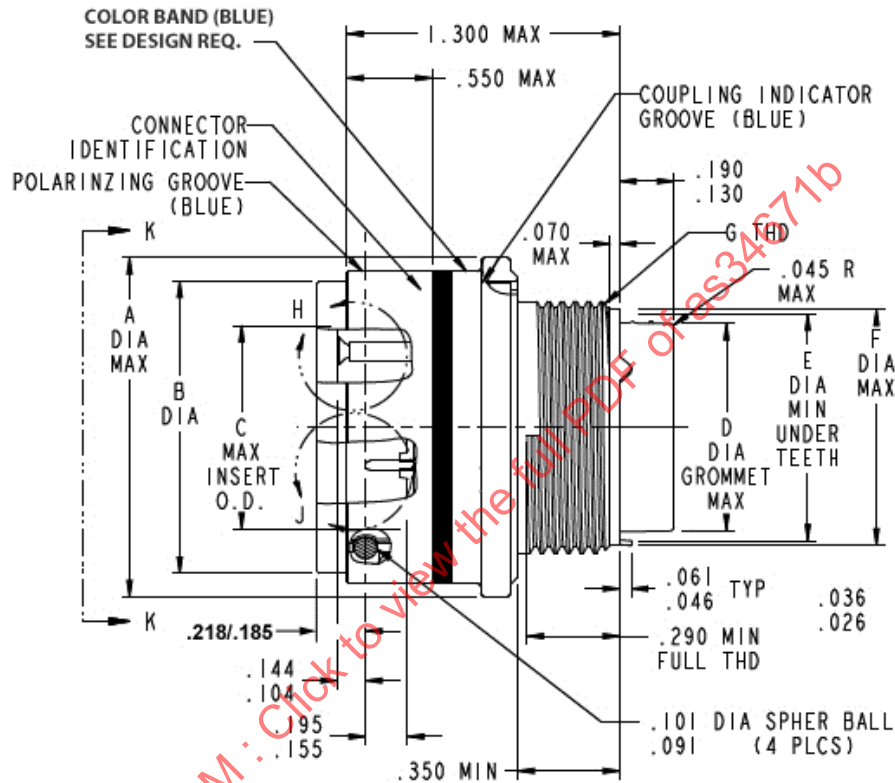
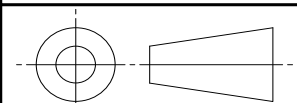


FIGURE 1 - CONNECTOR CONFIGURATIONS AND DIMENSIONS (CONNECTOR VIEW)

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THIRD ANGLE PROJECTION



CUSTODIAN: AE-8/AE-8C1

PROCUREMENT SPECIFICATION: AS81703



AEROSPACE STANDARD

CONNECTOR, PLUG, ELECTRIC,
CRIMP TYPE, PUSH-PULL COUPLING,
SERIES 3 (CLASS L AND E)

AS34671
SHEET 1 OF 5

REV.
B

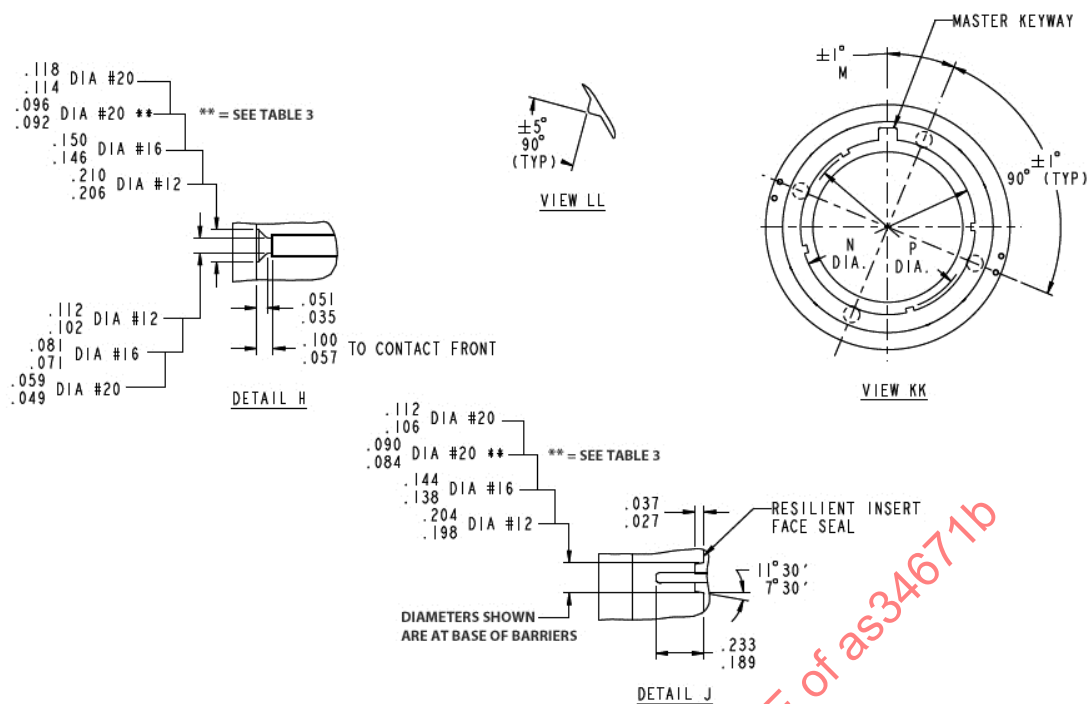


FIGURE 2 - CONNECTOR CONFIGURATIONS AND DIMENSIONS (DETAIL VIEWS)

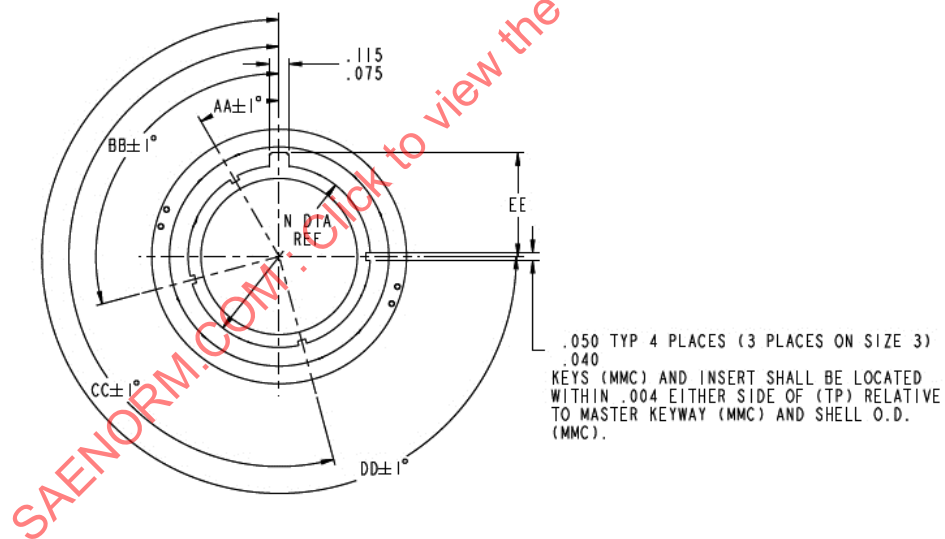


FIGURE 3 - CONNECTOR KEY POSITIONS

	AEROSPACE STANDARD	AS34671 SHEET 2 OF 5	REV. B
	CONNECTOR, PLUG, ELECTRIC, CRIMP TYPE, PUSH-PULL COUPLING, SERIES 3 (CLASS L AND E)		

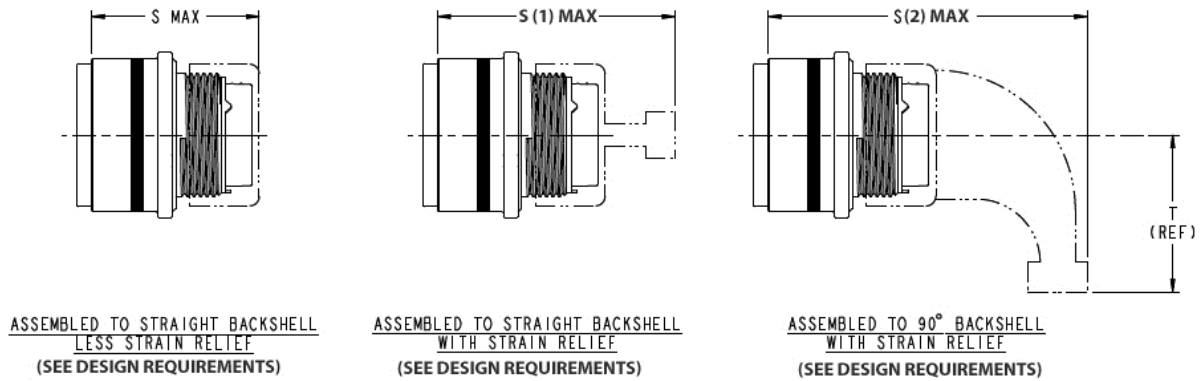


FIGURE 4 - BACKSHELL ACCESSORIES

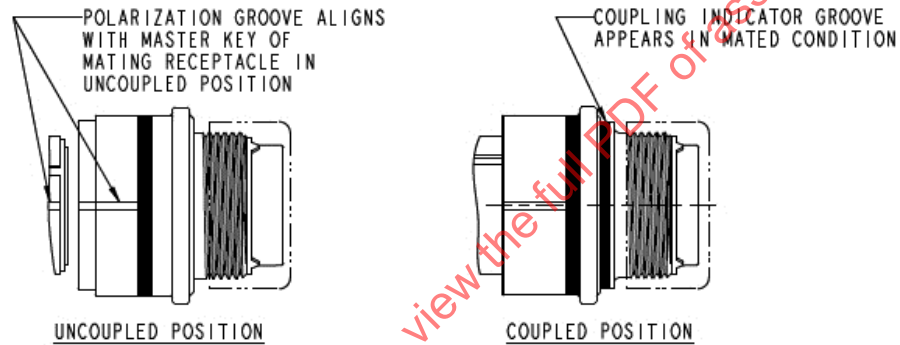


FIGURE 5 - COUPLING DETAILS

TABLE 1 - CONNECTOR DIMENSIONS

SHELL SIZE DASH NO.	A DIA.	B SHELL I.D.	C MAX. INSERT O.D.	D MAX. GROMMET O.D.	E MIN. UNDER TEETH	F MAX. DIA.	G THREAD
-3	.805	.657/ .648	.330	.351	.441	.509	9/16-24 UNEF-2A
-7	.937	.793/ .782	.451	.531	.613	.687	3/4-20 UNEF-2A
-12	1.065	.942/ .932	.553	.665	.731	.812	7/8-20 UNEF-2A
-19	1.245	1.073/1.063	.738	.790	.861	.937	1-20 UNEF-2A
-27	1.423	1.226/1.216	.854	.869	.919	.992	1 1/16-18 UNEF-2A
-37	1.558	1.348/1.338	.978	.994	1.044	1.117	1 3/16-18 UNEF-2A
-61	1.865	1.614/1.604	1.271	1.280	1.361	1.427	1 1/2-18 UNEF-2A

TABLE 1 - CONNECTOR DIMENSIONS (CONTINUED)

SHELL SIZE DASH NO.	M	N	P	S MAX.	S (1) MAX.	S (2) MAX.	T (REF)
-3	30 DEGREES	.454/ .446	.405/ .398	1.569	1.919	2.127	.850
-7	22 DEGREES 30 FEET	.589/ .581	.540/ .533			2.327	.950
-12		.723/ .715	.675/ .668		2.154	2.407	1.010
-19		.862/ .854	.813/ .806			2.540	1.070
-27		1.017/1.009	.968/ .961			2.668	1.130
-37		1.139/1.131	1.090/1.083			2.784	1.190
-61		1.427/1.419	1.378/1.371			3.046	1.335

TABLE 2 - KEYWAY POSITIONS

SHELL SIZE DASH NO.	AA	BB	CC	DD	EE
-3	23 DEGREES	97 DEGREES	187 DEGREES	N/A	.31/.29
-7				277 DEGREES	.37/.35
-12	30 DEGREES	105 DEGREES	195 DEGREES	270 DEGREES	.44/.42
-19					.51/.49
-27					.59/.57
-37					.65/.63
-61					.79/.77

TABLE 3 - INSERT ARRANGEMENTS REQUIRING REDUCED DIAMETER SEAL BARRIER

INSERT ARRANGEMENTS REQUIRING REDUCED DIAMETERS FOR SOCKET CONTACT CHAMFER LEAD-INS AND PIN CONTACT RAISED SEAL BARRIERS (ON OUTER ROW CONTACTS OF INSERT ARRANGEMENTS INDICATED BELOW) (APPLICABLE TO THE .096/.092 SIZE 20 DIAMETER IN DETAIL H AND THE .090/.084 DIAMETER SIZE 20 IN DETAIL J)		
SHELL SIZE	INSERT ARRANGEMENT	CONTACT CAVITIES
12	12-50	5, 6, 8, 9, 11, AND 12

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

1. DESIGN:

CONNECTORS AND ACCESSORIES SHALL BE DESIGNED IN ACCORDANCE WITH FIGURES 1 THROUGH 5 AND TABLES 1 AND 2. DIMENSIONS ARE IN INCHES AND APPLY AFTER PLATING. TOLERANCES SHALL BE .XX = ± 0.01 AND .XXX = ± 0.005 . ANGULAR TOLERANCES SHALL BE X DEGREES = ± 1 DEGREE 0 FEET AND X DEGREES X FEET = ± 30 FEET. COLOR BAND SHALL BE .100 INCHES WIDE MAXIMUM. BAND LOCATION MUST BE SUCH THAT IT IS VISIBLE WHEN THE CONNECTOR IS MOUNTED. CONNECTOR ASSEMBLY MUST INCLUDE A BACKSHELL TO MEET THE MOISTURE SEALING REQUIREMENTS OF AS81703. SEE AS85049/31, /51, /52, OR /60 FOR APPLICABLE BACKSHELL ACCESSORIES.

2. MATERIALS:

SHELL – 6061-T6 PER AMS-QQ-A-367 OR EQUIVALENT.

COUPLING RING – ALUMINUM ALLOY PER AS81703.

3. FINISH:

SHELL AND COUPLING RING – ELECTROLESS NICKEL IN ACCORDANCE WITH ASTM B733-90 OR EQUIVALENT.

	AEROSPACE STANDARD	AS34671 SHEET 4 OF 5	REV. B
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