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REV.
B

AS31371™

FEDERAL SUPPLY CLASS
5935

RATIONALE

REVISION IS REQUIRED TO IMPROVE DRAWING LEGIBILITY/ORIENTATION, TO CORRECT DOCUMENT REFERENCES, TO REMOVE GOVERNMENT JARGON, TO ADD METRIC EQUIVALENTS, AND TO UPDATE DOCUMENT TO MOST CURRENT SAE FORMAT GUIDELINES.

NOTICE

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

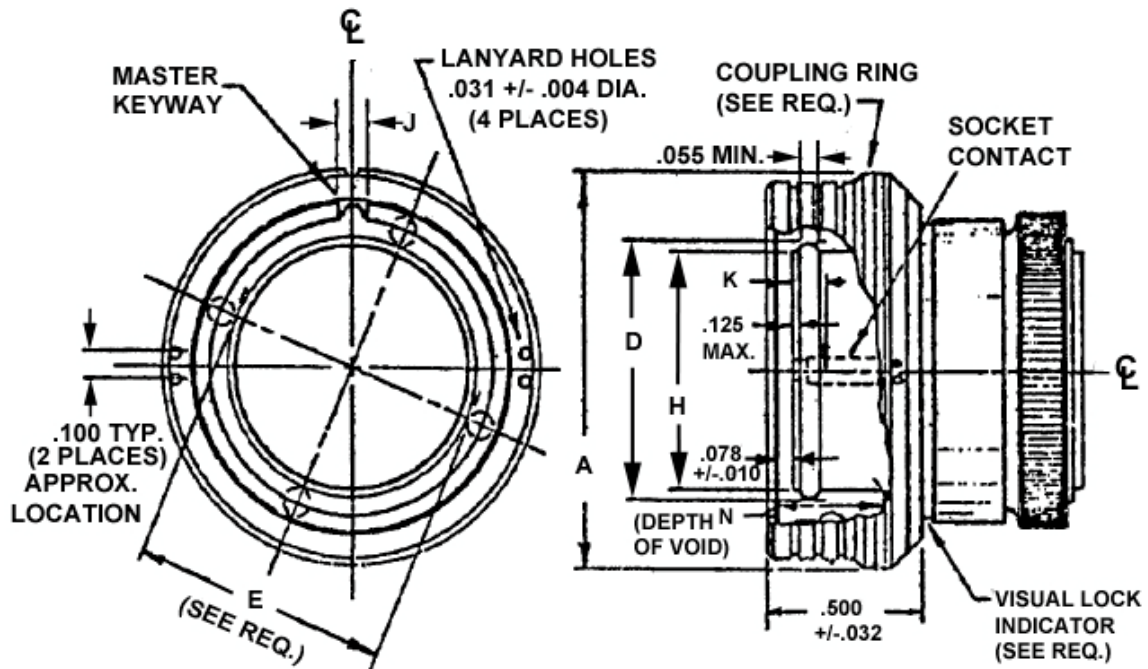
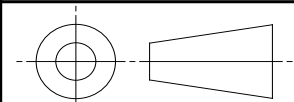


FIGURE 1 - CONNECTOR CONFIGURATION AND DIMENSIONS (CLASS E, STYLE S, SOCKET INSERT)

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THIRD ANGLE PROJECTION



CUSTODIAN: AE-8C1

PROCUREMENT SPECIFICATION: AS81703



AEROSPACE STANDARD

(R) CONNECTOR, PLUG, ELECTRIC, SOLDER TYPE,
PUSH-PULL COUPLING SERIES 1
(CLASS E, P, AND J)

AS31371™
SHEET 1 OF 5

REV.
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Documents

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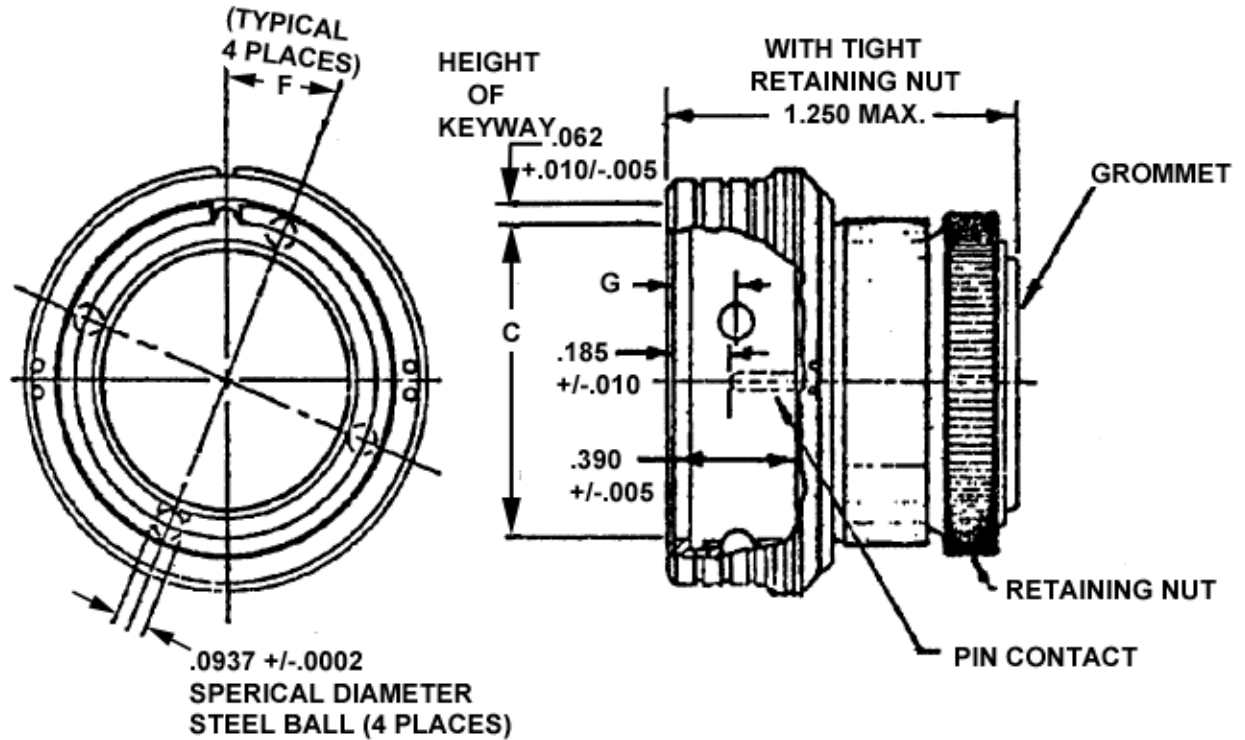


FIGURE 2 - CONNECTOR CONFIGURATION AND DIMENSIONS - CLASS E, STYLE P, PIN INSERT

FIGURE 1 AND 2 NOTES:

1. COUPLING RING AND BALLS ARE SHOWN IN THE ENGAGED POSITION FOR CLARITY. THIS POSITION SHALL ONLY BE POSSIBLE WHEN ENGAGED TO THE RECEPTACLE.
2. IN THE NORMAL DISENGAGED POSITION, THE FOLLOWING IS TRUE:
 - a. THE VISUAL LOCK INDICATOR IS NOT IN VIEW.
 - b. THE BALLS ARE RELEASED WHEN "E" MINIMUM EQUALS "C".

TABLE 1A - FIGURE 1 AND 2 DIMENSIONS

SHELL SIZE DASH NUMBER	A MAX. DIA. COUPLING RING	C MIN. I.D. SHELL	D ±.006 AVERAGE DIA. INSERT SEAL	E MIN. DIA. BALL SPACING	F BALL LOCATION (ANGULAR)	G +.002/- .005 BALL LOCATION DEPTH
-3	.796 (20.22)	.444 (11.28)	.374 (9.50)	.391 (9.93)	30°	.202 (5.13)
-7	.933 (23.70)	.579 (14.71)	.490 (12.45)	.526 (13.36)	22.5°	
-12	1.140 (28.96)	.713 (18.11)	.630 (16.00)	.661 (16.79)		
-19	1.228 (31.19)	.852 (21.64)	.770 (19.56)	.799 (20.29)		
-27	1.383 (35.13)	1.007 (25.58)	.925 (23.50)	.954 (24.23)		
-37	1.513 (38.43)	1.127 (28.63)	1.047 (26.59)	1.076 (27.33)		

	AEROSPACE STANDARD		AS31371™ SHEET 2 OF 5	REV. B
	(R) CONNECTOR, PLUG, ELECTRIC, SOLDER TYPE, PUSH-PULL COUPLING SERIES 1 (CLASS E, P, AND J)			



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