

FEDERAL SUPPLY CLASS
5935

REV.
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AS31371

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PREPARED BY SUBCOMMITTEE AE-8C1

PROCUREMENT SPECIFICATION MIL-C-81703

SAE Aerospace
An SAE International Group

AEROSPACE STANDARD

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

AS31371
SHEET 1 OF 3

**REV.
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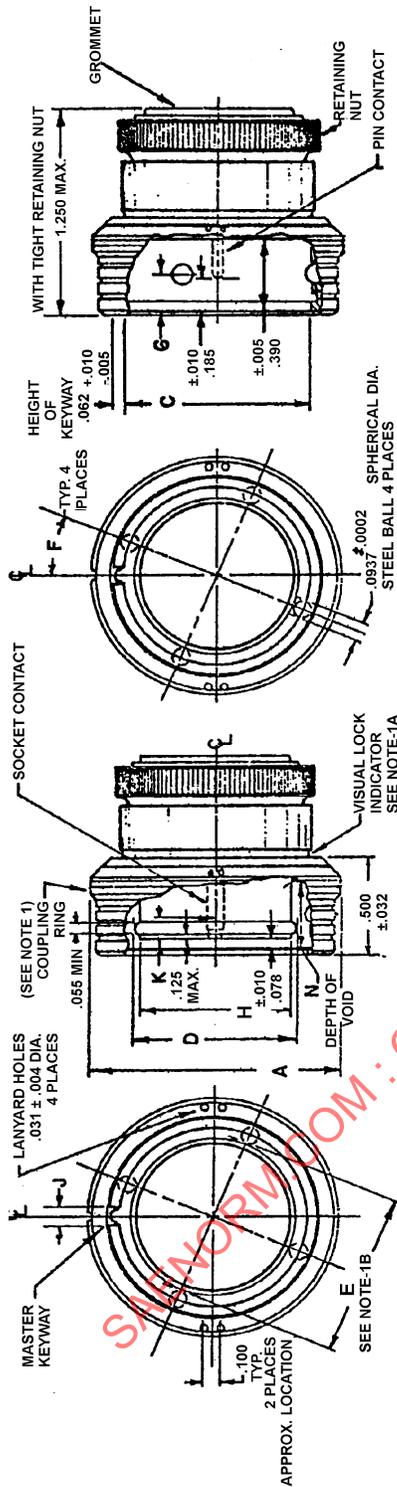
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STYLE P (PIN INSERT)

CLASS E

STYLE S (SOCKET INSERT)

SHELL SIZE DASH NO.	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)	H ±.010 FRONT O.D. OF INSERT	J MAX WIDTH OF KEYWAY	N ±.031 DEPTH OF VOID	K POINT OF SPRING CONTACT	FOR INSERT ARRANGEMENT SEE DWG.
-3	.796	.444	.374	.391	30°	.202	.344		IN DISENGAGED POSITION	.138 MAX. MEASURE WITH SQUARE NOSE PIN HAVING BASIC DIAMETER OF MATING CONTACT	MS 33698
-7	.933	.579	.490	.526	22 1/2°		.460	.114			MS 33699
-12	1.140	.713	.630	.661			.600				MS 33700
-19	1.228	.852	.770	.799			.740				MS 33701
-27	1.383	1.007	.925	.954			.895				MS 33702
-37	1.513	1.127	1.047	1.076			1.017				MS 33703

DIMENSIONS IN INCHES, UNLESS OTHERWISE SPECIFIED.
TOLERANCE: DECIMALS ±.016, ANGULAR TOLERANCE ±1/2°

NOTES:

- COUPLING RING AND BALLS ARE SHOWN IN THE ENGAGED POSITION FOR CLARITY. THIS POSITION SHALL ONLY BE POSSIBLE WHEN ENGAGED TO THE RECEPTACLE. 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" MIN. EQUALS "C".



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