

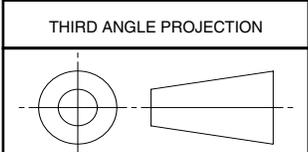
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CUSTODIAN: SAE AE-8/AE-8C1

PROCUREMENT SPECIFICATION: MIL-C-81703



**AEROSPACE STANDARD**

CONNECTOR, RECEPTACLE, ELECTRIC, CRIMP TYPE,  
WALL MOUNTING FLANGE, PUSH-PULL, COUPLING,  
SERIES 2 (CLASS E AND J)

**AS31401**  
SHEET 1 OF 4

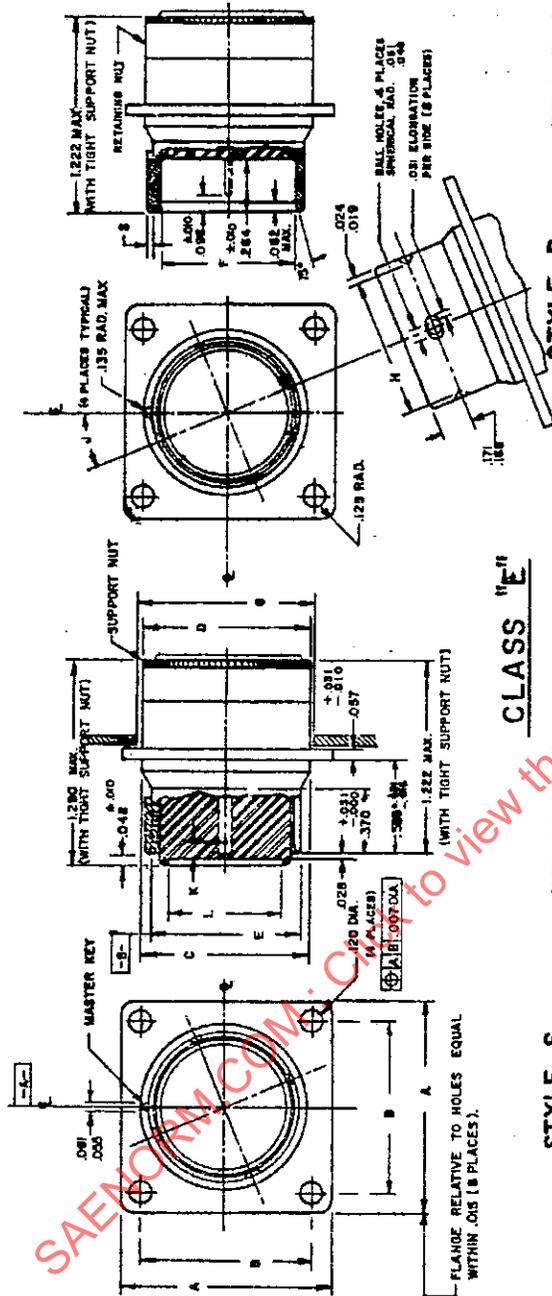
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CLASS "E"

STYLE S

(SOCKET INSERT)

STYLE P

(PIN INSERT)

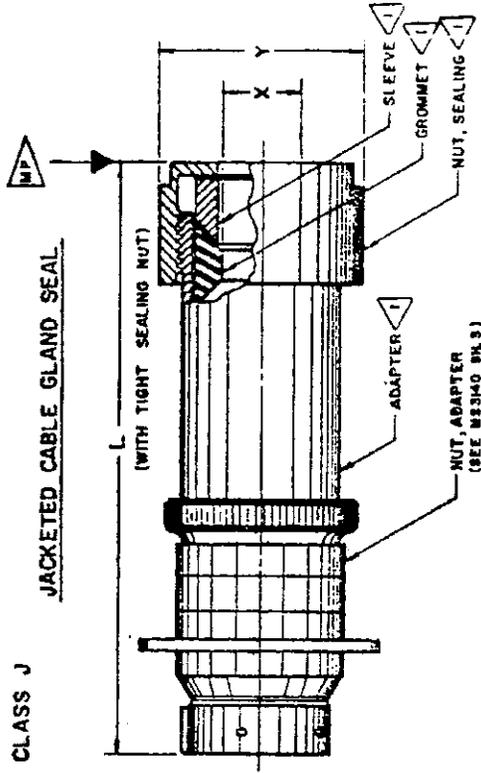
SHELL SIZE DASH NO.	A MAX LENGTH SIDE	B MOUNTING CENTERS	C MAX. DIA. FRONT	D MAX DIA REAR	E SHELL THICKNESS	F SHELL I.D.	G MIN. DIA. MOUNTING HOLE	H BALL HOLE SPACING	J BALL HOLE LOCATION	K POINT OF SPRING CONTACT	L INSERT SEAL L.C.	M HEIGHT OF KEY	N FOR INSERT ARRANGEMENT SEE DRAWING
-3	.888	.623	.578	.623	.435	.384	.832	.388	30°	.136 MAX. MEASURE WITH SQUARE HAVING BASIC DIAMETER OF MOUNTING CONTACT	.264	.380	MS-33688
-7	1.021	.719	.691	.702	.370	.480	.709	.531			.380	.380	MS-33689
-12	1.114	.812	.828	.828	.704	.621	.835	.666			.320	.043	MS-33700
-19	1.208	.908	.953	.953	.843	.760	.880	.804	22°		.460		MS-33701
-27	1.302	.988	1.138	1.102	.938	.915	1.143	.959			.815		MS-33702
-37	1.458	1.187	1.286	1.266	1.120	1.037	1.273	1.081			.837		MS-33708

EXAMPLE OF PART NO: MS 3140 E 19 30 3 Y  
 CLASS CLASS SIZE ARRANGEMENT CONTACT STYLE ALTERNATE INSERT POSITION  
 NOTES:  
 1. TRUE POSITION (T.P.) TOLERANCES SPECIFIED ARE IN ACCORDANCE WITH MIL-STD-8.  
 2. DIMENSIONS LOCATING TRUE POSITIONS ARE BASIC.

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 DIMENSIONS IN INCHES UNLESS OTHERWISE SPECIFIED. TOLERANCE DECIMALS: .008  
 ANGULAR TOLERANCE: ± 1/2°

CLASS J

JACKETED CABLE GLAND SEAL



SHELL SIZE DASH NO.	L LENGTH MAX.	X INSIDE DIA.		Y MAX.	MAX. CABLE WEIGHTS ALLOWABLE FORCE IN DIRECTION INDICATED
		MIN.	MAX.		
-3	3.010	.178	.210	.645	2.0
-7	3.994	.381	.413	.928	2.7
-12	4.480	.472	.444	.988	4.0
-18	4.494	.522	.584	1.113	5.5
-27	4.494	.600	.632	1.113	8.0
-37	4.625	.662	.694	1.176	12.0

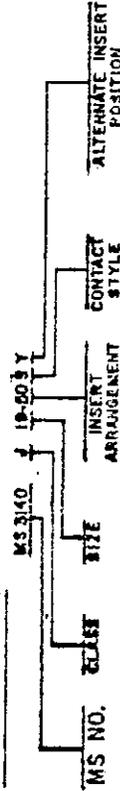
DIMENSIONS IN INCHES UNLESS OTHERWISE SPECIFIED.  
TOLERANCE: DECIMALS .016, ANGULAR TOLERANCE ± 1/2°

⚠ FOR ADAPTER, SEALING NUT, GROMMET & SLEEVE SEE MS 3130 SH 3

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CLASS J JACKETED CABLE GLAND SEAL - WATERTIGHT TYPE FOR USE WITH CLASS E CONNECTORS

EXAMPLE OF PART NO.



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