INCH-POUND

MS3128K
29 April 2009
SUPERSEDING
MS3128J
6 June 2003

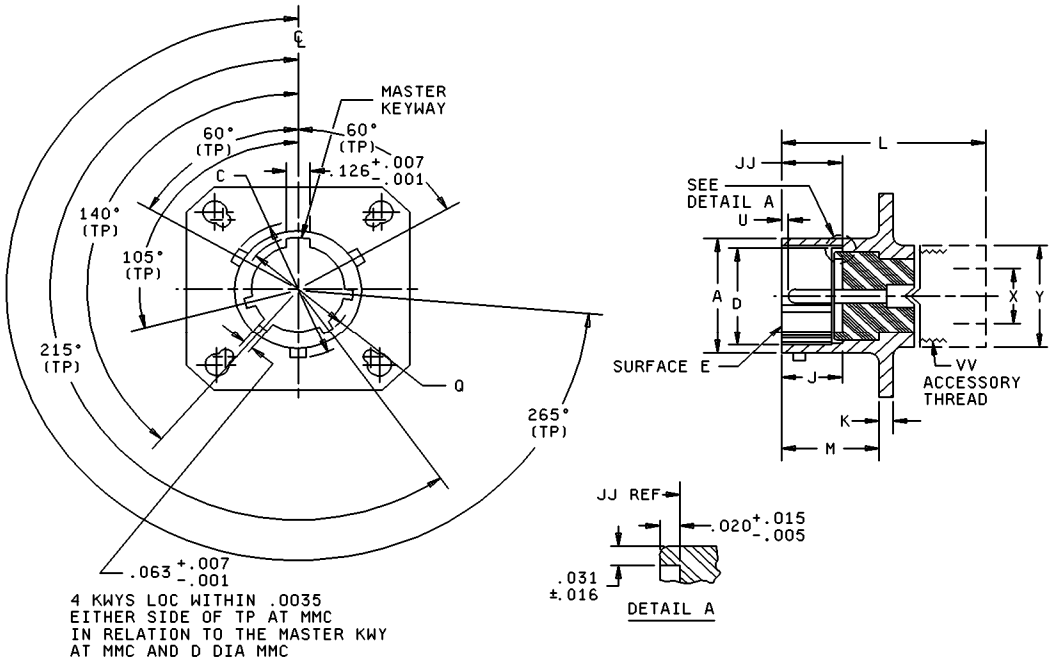
DETAIL SPECIFICATION SHEET

CONNECTOR, RECEPTACLE, ELECTRICAL, CRIMP TYPE, WALL MOUNTING, NO. 4/6 HOLES, BAYONET COUPLING, SERIES 1, CLASSES E, F and P

Inactive for new design after 15 February 1965.

This specification is approved for use by all Departments and Agencies of the Department of Defense.

The requirements for acquiring the product described herein shall consist of this specification sheet and MIL-DTL-26482.



PIN INSERT

FIGURE 1. Receptacle, dimensions, classes E, F and P.

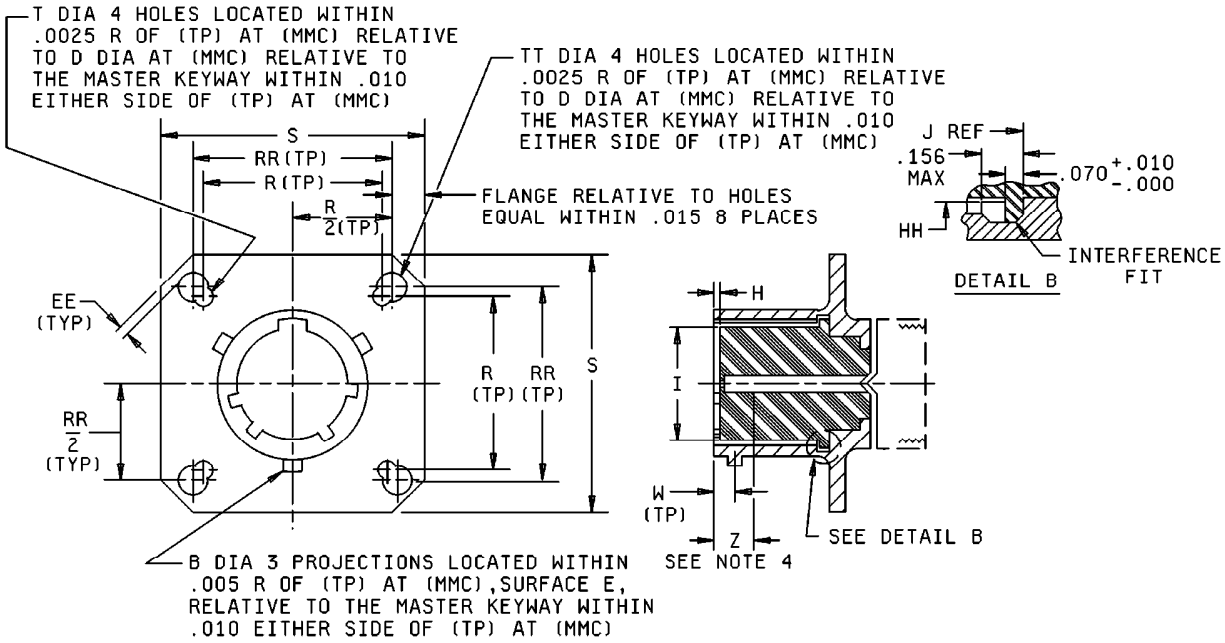


FIGURE 1. Receptacle, dimensions, classes E, F and P - Continued.

Shell size	A dia -.005 +.001 OD	B +.016 -.001	C dia +.000 -.016 over projection	D dia +.005 -.001 ID	EE min edge distance	H +.000 -.020 socket insert location
10	.590 (14.99)	.078 (1.98)	.680 (17.27)	.490 (12.45)	.035 (.89)	.025 (.64)
12	.750 (19.05)		.859 (21.82)	.607 (15.42)		
14	.875 (22.23)		.984 (24.99)	.732 (18.59)		
16	1.000 (25.40)		1.108 (28.14)	.857 (21.77)		
18	1.125 (28.58)		1.233 (31.32)	.962 (24.43)		
20	1.250 (31.75)		1.358 (34.49)	1.087 (27.61)	.050 (1.27)	.087 (2.21)
22	1.375 (34.93)		1.483 (37.67)	1.212 (30.78)		
24	1.500 (38.10)	.125 (3.18)	1.610 (40.89)	1.337 (33.96)		

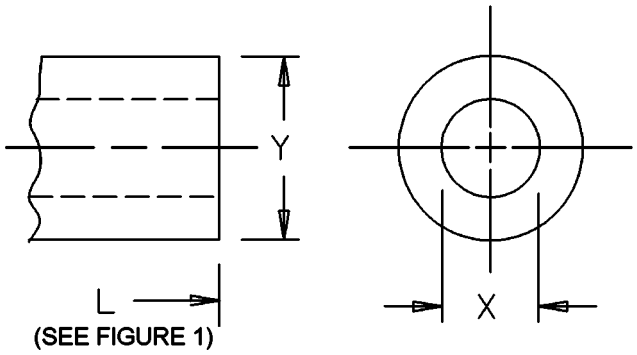
Shell size	I dia max insert	J ±.010	JJ -.020 +.000 pin insert location	K ±.016 thick mounting flange	JJ -.020 +.000 pin insert location	Q dia -.006 +.005	R (TP) mounting
10	.402 (10.21)	.382 (9.70)	.332 (8.43)	.062 (1.57)	.462 (11.73)	.540 (13.72)	.719 (18.26)
12	.516 (13.11)					.659 (16.74)	.812 (20.62)
14	.641 (16.28)					.814 (20.68)	.906 (23.01)
16	.766 (19.46)					.939 (23.85)	.969 (24.61)
18	.855 (21.72)					1.033 (26.24)	1.062 (26.97)
20	.980 (24.89)	.444 (11.28)	.394 (10.01)	.094 (2.39)	.556 (14.12)	1.164 (29.57)	1.156 (29.36)
22	1.105 (28.07)					1.289 (32.74)	1.250 (31.75)
24	1.229 (31.22)				.589 (14.96)	1.414 (35.92)	1.375 (34.93)

FIGURE 1. Receptacle, dimensions, classes E, F and P - Continued.

Shell size	RR (TP) mounting holes	S max length side	T ± .005 dia mounting holes	TT ± .005 dia mounting holes	V (TP) bay pin location
10	.812 (20.62)	1.141 (28.98)	.120 (3.05)	.150 (3.81)	.085 (2.16)
12	.938 (23.83)	1.266 (32.16)			
14	1.031 (26.19)	1.360 (34.54)			
16	1.125 (28.58)	1.453 (36.91)			
18	1.203 (30.56)	1.532 (38.91)			
20	1.297 (32.94)	1.688 (42.88)			.147 (3.73)
22	1.375 (34.93)	1.766 (44.86)			
24	1.500 (38.10)	1.891 (48.03)	.147 (3.73)		

Shell size	Z (see note 4) - .000 + .028 socket contact spring location	V V thread class 2A	MM max ID gasket
10	.153 (3.89)	9/16-24	.457 (11.61)
12		11/16-24	.564 (14.33)
14		13/16-20	.689 (17.50)
16		15/16-20	.814 (20.68)
18		1 1/16-18	.907 (23.04)
20	.215 (5.46)	1 3/16-18	1.039 (26.39)
22		1 5/16-18	1.164 (29.57)
24		1 7/16-18	1.289 (32.74)

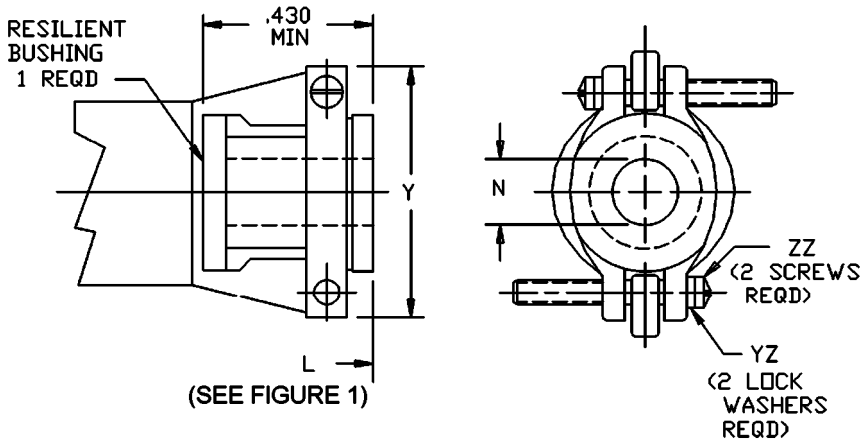
FIGURE 1. Receptacle, dimensions, classes E, F and P - Continued.



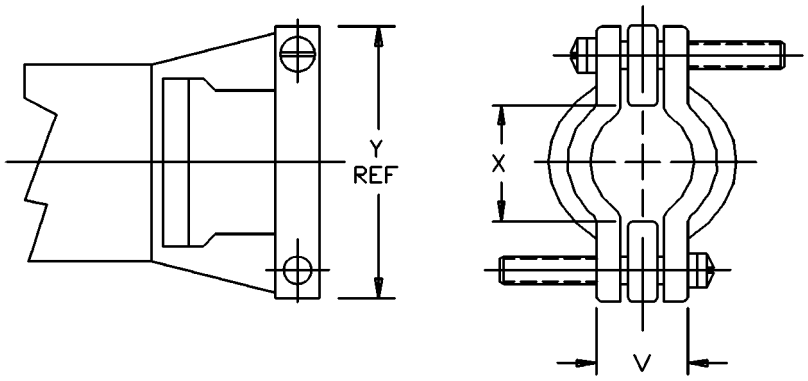
Shell size	L max over-all length	X dia min ID	Y dia max OD
10	1.552 (39.42)	.359 (9.12)	.730 (18.54)
12		.469 (11.91)	.858 (21.79)
14		.589 (14.96)	.954 (24.23)
16		.717 (18.21)	1.110 (28.19)
18		.779 (19.79)	1.244 (31.60)
20	1.709 (43.41)	.901 (22.89)	1.360 (34.54)
22		1.009 (25.63)	1.404 (35.66)
24		1.123 (28.52)	1.610 (40.89)

CLASS E

FIGURE 1. Receptacle, dimensions, classes E, F and P - Continued.



CLASS F, BUSHING INSTALLED



CLASS F, BUSHING REMOVED

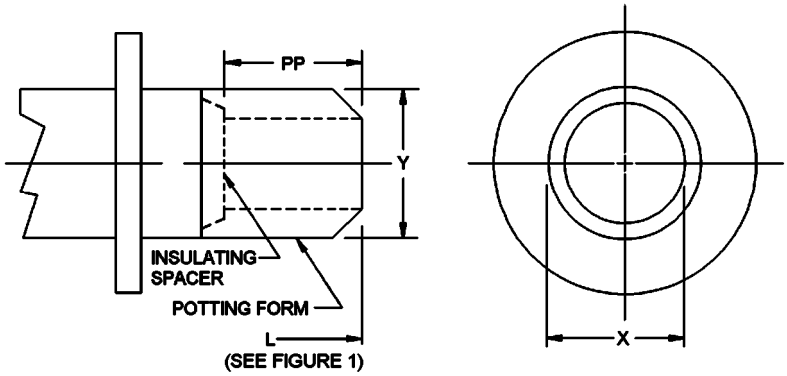
FIGURE 1. Receptacle, dimensions, classes E, F and P - Continued.

Shell size	L max over-all length	X dia min open	Y max	V max closed
10	2.422 (61.52)	.297 (7.54)	.891 (22.63)	.187 (4.75)
12		.422 (10.72)	1.016 (25.81)	.281 (7.14)
14		.547 (13.89)	1.141 (28.98)	.325 (8.26)
16	2.537 (64.44)	.609 (15.47)	1.203 (30.56)	.356 (9.04)
18				.456 (11.58)
20	2.824 (71.73)	.734 (18.64)	1.469 (37.31)	
22		.922 (23.42)	1.656 (42.06)	.519 (13.18)
24	2.900 (73.66)	.984 (24.99)	1.750 (44.45)	.657 (16.69)

Shell size	N (see note 6) free dia ± .010	ZZ screw threads	YZ (see note 7) lock washers NASM35338 or NASM35333
10	.188 (4.78)	6-32 UNC	NASM35338 - 98 or -41 NASM35333 -105 or -37
12	.312 (7.92)		
14	.373 (9.47)		
16	.500 (12.70)		
18	.625 (15.88)	8-32 UNC	NASM35338 -99 or -42 NASM35333 -106 or -38
20			
22	.750 (19.05)		
24	.800 (20.32)		

CLASS F

FIGURE 1. Receptacle, dimensions, classes E, F and P - Continued.



Shell size	L max over-all length	X dia min	Y dia max	PP min
10	1.750	.434	.734	.250
12		.548	.858	
14		.673	.984	
16		.798	1.110	
18		.899	1.234	
20	1.892	1.024	1.360	
22		1.149	1.484	
24	1.953	1.274	1.610	

CLASS P

NOTES:

1. Dimensions are in inches.
2. Angle tolerance is +/- 1/2°.
3. Metric equivalents are given for general information only.
4. Distance between end of shell and the point at which a gage pin having the same basic diameter as the mating contact and a square face first engages socket contact spring.
5. True position (TP) tolerances specified are in accordance with ASME Y14.5M.
6. For class F: Use MS3420 bushing if reduced opening is required.
7. For class F: Lockwashers may be captivated.

FIGURE 1. Receptacle, dimensions, classes E, F and P - Continued.

REQUIREMENTS:

Dimensions and configuration: See figure 1.

This connector mates with MS3121 and MS3126.

Insert arrangements shall be in accordance with MIL-STD-1669.

Connector accessories: See SAE-AS85049.

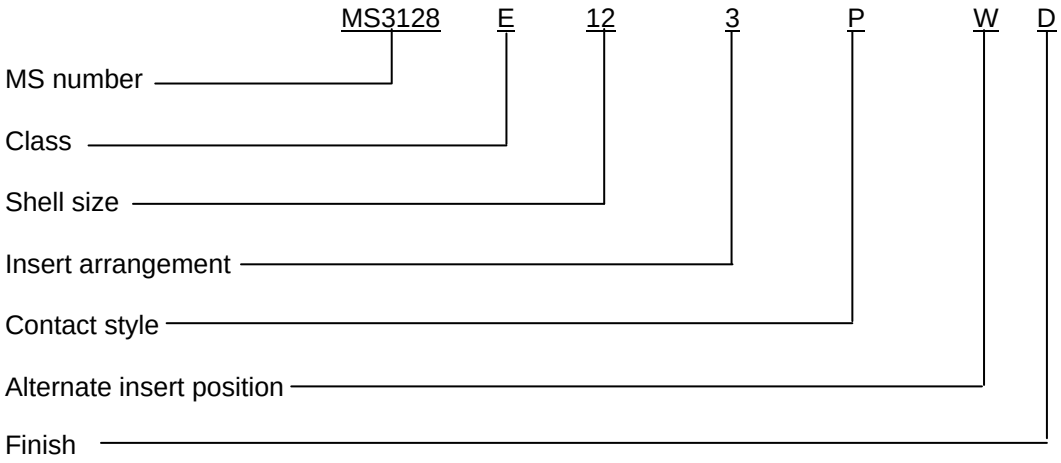
Packing material shall meet the requirements of ASTM-D2000.

Finishes: A finish designator shall not be included in the PIN when finish W is required. See MIL-DTL-26482 for alternative finishes D, T and Z for classes E, F and P.

Material:

a. Shell - aluminum alloy.
b. Bayonet pins (B dia) - stainless steel, passivated.

Part or Identifying Number (PIN) example:



Note: When finish W is required, no finish designator is used (class W is the default finish).

Changes from previous issue. Marginal notations are not used in this revision to identify changes with respect to the previous issue due to the extent of the changes.

Referenced documents. In addition to MIL-DTL-26482, this document references the following:

MS3121
MS3126
MS3420
MIL-STD-1669
SAE-AS85049
ASTM-D2000
ASME Y14.5M
NASM35333
NASM35338

CONCLUDING MATERIAL

Custodians:
Army -CR
Navy -AS
Air Force - 85
DLA - CC

Preparing activity:
DLA - CC

(Project 5935-2007-186)

Review activities:
Army - MI
Air Force - 99

NOTE: The activities listed above were interested in this document as of the date of this document. Since organizations and responsibilities can change, you should verify the currency of the information above using the ASSIST Online database at http://assist.daps.dla.mil.