INCH-POUND
MS3110F
w/AMENDMENT 1
30 August 2013
SUPERSEDING
MS3110F
29 April 2009

DETAIL SPECIFICATION SHEET

CONNECTORS, RECEPTACLE, ELECTRICAL, SOLDER TYPE, WALL MOUNTING, BAYONET COUPLING, SERIES 1, CLASSES E, F, J AND P

Inactive for new design after 15 December 1998. For new design, use MS3470.

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.

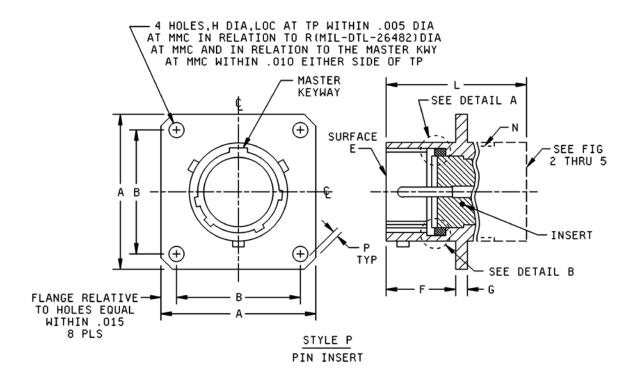
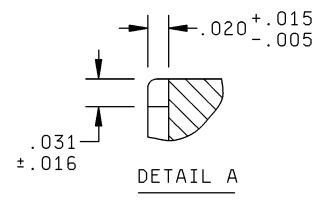


FIGURE 1. Receptacle, classes E, F, J, and P.

AMSC N/A FSC 5935



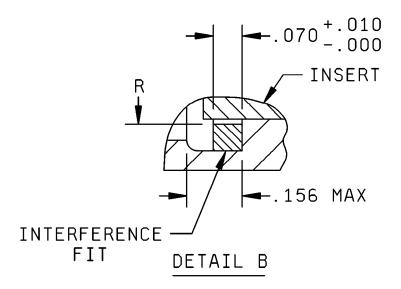
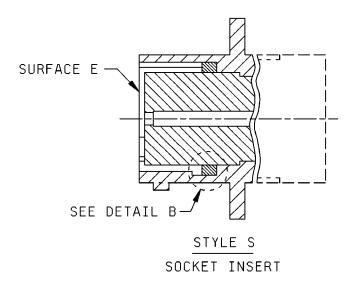


FIGURE 1. Receptacle, classes E, F, J and P - Continued.



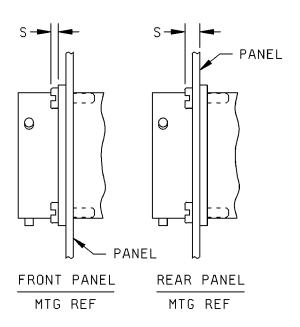


FIGURE 1. Receptacle, classes E, F, J and P - Continued.

Shell size	A max length	B (TP) mounting holes	F + .031,000 mounting flange location	G ± .016 thick mounting flange	H ± .005 dia mounting holes
8	.828 (21.03)	.594 (15.08)			
10	.954 (24.23)	.719 (18.26)			
12	1.047 (26.60)	.812 (20.62)	.431	.062	
14	1.141 (28.98)	.906 (23.01)	(10.95)	(1.57)	.120
16	1.234 (31.34)	.969 (24.61)			(3.05)
18	1.328 (33.73)	1.062 (26.97)			
20	1.453 (36.90)	1.158 (29.41)	.556		
22	1.578 (40.08)	1.250 (31.75)	(14.12)	.094 (2.38)	
24	1.700 (43.18)	1.375 (34.92)	.589 (14.96)		.147 (3.73)

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

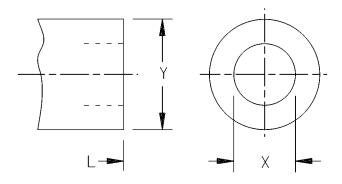
Shell size	N UNEF-2A accessory thread	P min edge distance	R max ID gasket	S max
8	.4375-28		.329 (8.35)	
10	.5625-24		.457 (11.60)	
12	.6875-24	.035	.564 (14.32)	.087
14	.8125-20	(0.89)	.689 (17.50)	(2.21)
16	.9375-20		.814 (20.67)	
18	1.0625-18		.907 (23.04)	
20	1.1875-18		1.039 (26.39)	
22	1.3125-18	.050 (1.27)	1.164 (29.56)	.212 (5.38)
24	1.4375-18		1.289 (32.74)	(0.00)

Inches	mm	Inches	mm
.005	0.13	.020	0.51
.010	0.25	.031	0.79
.015	0.38	.070	1.78
.016	0.41	.156	3.96

- 1. Dimensions are in inches.
- Metric equivalents are given for information only.
 True position (TP) tolerances specified are in accordance with ASME Y14.5.

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

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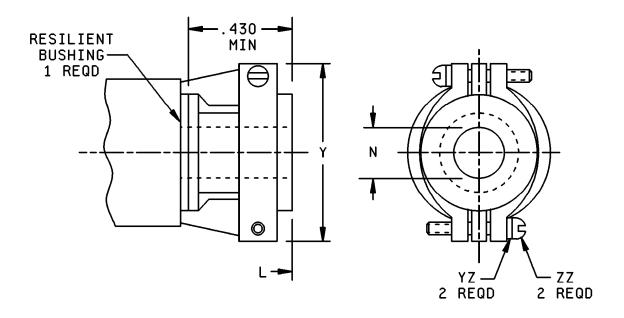


Shell size	L max overall length	X dia min ID	Y dia max OD	
8		.259 (6.58)	.608 (15.44)	
10	4 200 (22 72)	.359 (9.12)	.734 (18.64)	
12		.469 (11.91)	.858 (21.79)	
14	1.328 (33.73)	.589 (14.96)	.984 (24.99)	
16		.727 (18.47)	1.110 (28.19)	
18		.779 (19.79)	1.234 (31.34)	
20	1 521 /29 90\	.901 (22.89)	1.360 (34.54)	
22	1.531 (38.89)	1.009 (25.63)	1.484 (37.69)	
24	1.594 (40.49)	1.123 (28.52)	1.610 (40.89)	

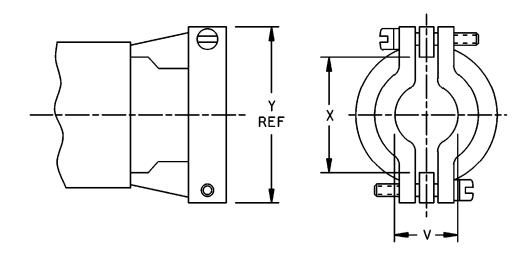
- 1. Dimensions are in inches.
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 True position (TP) tolerances specified are in accordance with ASME Y14.5.

FIGURE 2. Receptacle, rear accessory configurations, class E.

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CLASS F, WITH BUSHING



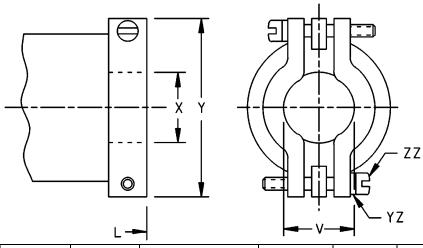
CLASS F, WITH BUSHING REMOVED

FIGURE 3. Receptacle, rear accessory configurations, class F.

Shell size	L max overall length	Y max	X dia min open	V max closed	N (see note 4) ± .010 free dia	ZZ screw threads	YZ (see note 5) Lockwashers NASM35338 or NASM35333 types	
8		.828 (21.03)	.234 (5.94)	.157 (3.99)	.125 (3.18)	6-32	NASM35338 - 98 or -41 NASM35333 -105 or -37	
10	1.922	.891 (22.63)	.297 (7.54)	.187 (4.75)	.188 (4.78)			
12	(48.82)	(48.82)	1.016 (25.81)	.422 (10.72)	.281 (7.14)	.312 (7.92)	UNC	
14		1.161 (29.49)	.547 (13.89)	.325 (8.26)	.375 (9.53)			
16	2.047 (51.99)	1.203 (30.56)	.609 (15.47)	.356 (9.04)	.500 (12.70)			
18	2.078 (52.78) 1.469 (37.31) 2.344 (59.54) 1.656 (42.06)			.734	.456 (11.58)	.625 (15.88)		NASM35338 -B8L or -8L
20		(10.0	(18.64)	.519 (13.18)	.625 (15.88)	8-32 UNC	-99 or -42 NASM35333	
22			.922 (23.42)	.519 (13.18)	.750 (19.05)		-106 or -38	
24	2.406 (61.11)	1.750 (44.45)	.984 (24.99)	.657 (16.69)	.800 (20.32)			

- 1. Dimensions are in inches.
- 2. Metric equivalents are in given for information only.
- True position (TP) tolerances specified are in accordance with ASME Y14.5.
 Use SAE-AS85049/139 bushing if reduced opening is required.
- 5. For class F: Lockwashers may be captivated.

FIGURE 3. Receptacle, rear accessory configurations, class F - Continued.

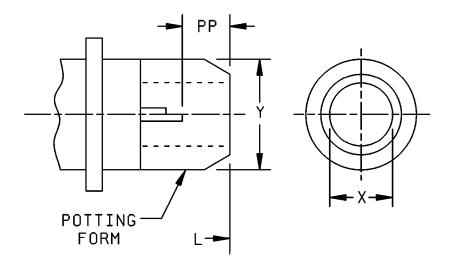


Shell size			X ID gland seal min range		Y dia max	ZZ screw	YZ (see note 4) Lockwashers NASM35338
	length		closed	open		threads	or NASM35333 types
8	2.271	.157 (3.99)	.169 (4.29)	.230 (5.84)	.828 (21.03)		
10	(57.68)	.187 (4.75)	.205 (5.21)	.312 (7.92)	.891 (22.63)		NASM35338
12	2.411 (61.24)	.281 (7.14)	.338 (8.59)	.442 (11.23)	1.016 (25.81)	6-32 UNC	- 98 or -41 NASM35333 -105 or -37
14	2.599 (66.01)	.325 (8.26)	.416 (10.57)	.539 (13.69)	1.161 (29.49)		
16	2.943 (74.75)	.356 (9.04)	.550 (13.97)	.616 (15.65)	1.203 (30.56)		
18	3.172 (80.57)	.456 (11.58)	.600 (15.24)	.672 (17.07)	1.469		NASM35338
20	3.610 (91.69)	.519	.635 (16.13)	.747 (18.97)	(37.31)	8-32	-B8L or -8L -99 or -42
22	3.766 (95.66)	(13.18)	.670 (17.02)	.846 (21.49)	1.656 (42.06)	UNC	NASM35333
24	3.985 (101.22)	.657 (16.69)	.760 (19.30)	.854 (21.69)	1.750 (44.45)		-106 or -38

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- 4. Lockwashers may be captivated.

FIGURE 4. Receptacle, rear accessory configurations, class J.

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	L	X	Y		
Shell	max	dia	dia	PP	
size	overall length	min	max	min	
8		.317 (8.05)	.608 (15.44)		
10		.434 (11.02)	.734 (18.64)		
12	4 452 (26 04)	.548 (13.92)	.858 (21.79)		
14	1.453 (36.91)	.673 (17.09)	.984 (24.99)		
16		.798 (20.27)	1.110 (28.19)	.250 (6.35)	
18		.899 (22.83)	1.234 (31.34)		
20	1 672 (42 47)	1.024 (26.01)	1.360 (34.54)		
22	1.672 (42.47)	1.149 (29.18)	1.484 (37.69)		
24	1.734 (44.04)	1.274 (32.36)	1.610 (40.89)		

- 1. Dimensions are in inches.
- Metric equivalents are given for information only.
 True position (TP) tolerances specified are in accordance with ASME Y14.5.

FIGURE 5. Receptacle, rear accessory configurations, class P.

REQUIREMENTS:

Dimensions and configurations: See figures 1 through 5.

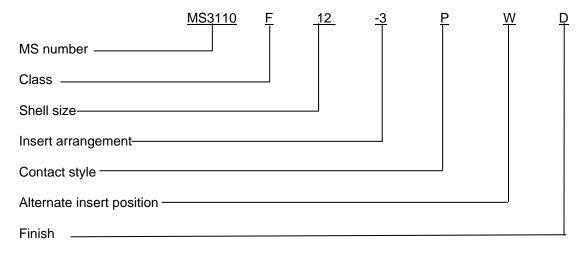
Connector mating: This connector mates with MS3111, MS3116, MS3121 and MS3126.

For insert arrangement: See MIL-STD-1669.

Intermateability dimensions are in accordance with MIL-DTL-26482.

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

Part or Identifying Number (PIN) example:



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

Amendment Notations. The margins of this specification are marked with vertical lines to indicate modifications generated by this amendment. This was done as a convenience only and the Government assumes no liability whatsoever for any inaccuracies in these notations. Bidders and contractors are cautioned to evaluate the requirements of this document based on the entire content irrespective of the marginal notations.

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

MS3111

MS3116

MS3121

MS3126

MIL-STD-1669

ASME Y14.5

NASM35333

NASM35338

SAE-AS85049/139

CONCLUDING MATERIAL

Custodians: Preparing activity: Army - CR DLA - CC

Navy - AS Air Force - 85 DLA - CC

Review activities: (Project 5935-2013-162)

Army - AV Navy - EC, SH 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 https://assist.dla.mil.