

INCH - POUND

MS27337D
 20 May 2005
 SUPERSEDING
 MS27337C (USAF)
 20 December 1967

DETAIL SPECIFICATION SHEET

CONNECTORS, RECEPTACLE, ELECTRICAL, JAM NUT MOUNTING,
 SOLDER TYPE, BAYONET COUPLING, CLASSES P & T, SERIES II

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

Inactive for new design after 7 December 1998.

The requirements for acquiring the product described herein
 shall consist of this specification sheet and MIL-DTL-27599.

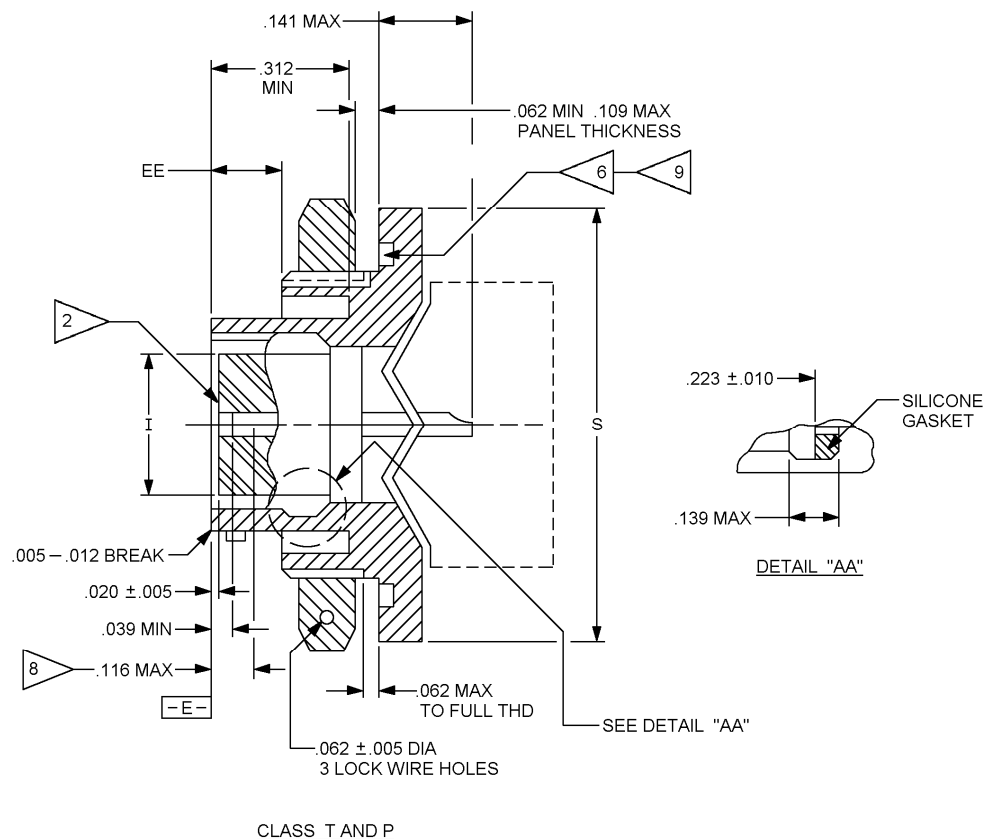


FIGURE 1. Receptacle, jam nut mounting.

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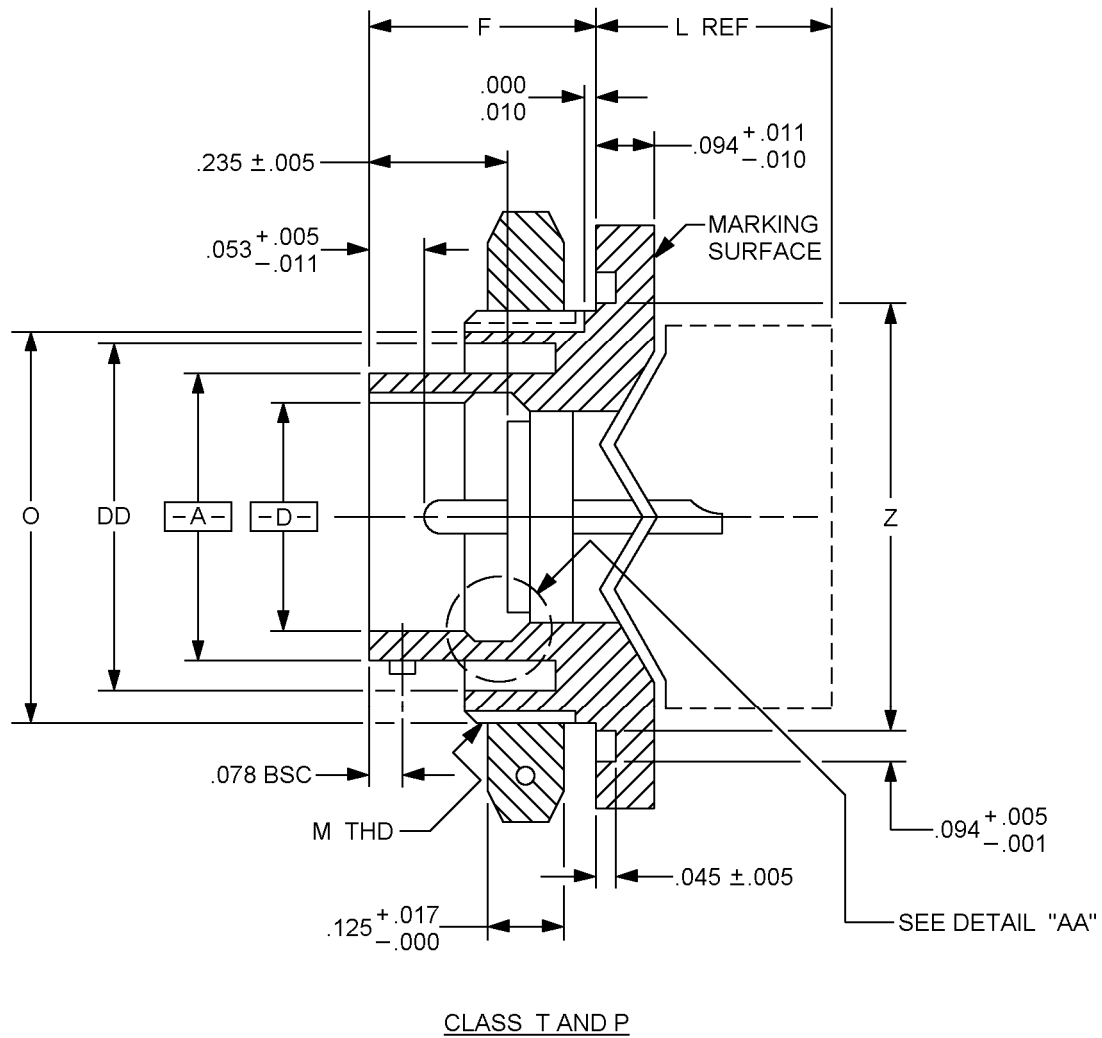


FIGURE 1. Receptacle, jam nut mounting - Continued.

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Inches	mm	Inches	mm	Inches	mm	Inches	mm
0.004	0.102	0.02	0.508	0.078	1.981	0.139	3.531
0.005	0.127	0.039	0.991	0.094	2.388	0.141	3.581
0.01	0.254	0.045	1.143	0.109	2.769	0.223	5.664
0.011	0.279	0.053	1.346	0.116	2.946	0.235	5.969
0.012	0.305	0.062	1.575	0.125	3.175	0.312	7.926
0.017	0.432	0.063	1.600	0.126	3.200		

NOTES:

1. Dimensions are in inches.
2. Insert front surface shall be flat within .005 T.I.R.
3. Diameters A, D, M, Q and Z shall be concentric within .015 T.I.R.
4. Diameters D & I shall be concentric within .005 T.I.R. at MMC.
5. Diameter A with respect to diameter B, and diameter D with respect to diameter N, shall be concentric at MMC.
6. Sides of groove may have 5° max taper.
7. Normal keyway position. For other keyway positions, see MIL-DTL-27599.
8. The point at which a gauge pin having the same basic diameter as the mating contact and a square face, touches socket contact spring.
9. Recommended packing is for dimensions only. Material is optional.
10. The gauge features for GG shall be CC smaller than their MMC size at basic location.

FIGURE 1. Receptacle, jam nut mounting - Continued.

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TABLE 1. Dimensions.

Shell size	A dia + .001 - .005	B dia + .000 - .016 over projections	C dia + .006 - .002	D dia + .005 - .001	F $\pm .005$	H + .017 - .016	I dia $\pm .005$
8	.473 (12.01)	.563 (14.30)	(1.98)	.362 (9.19)	(11.12)	1.062 (26.97)	.296 (7.52)
10	.590 (14.98)	.680 (17.27)		.490 (12.44)		1.188 (30.17)	.413 (10.49)
12	.750 (19.05)	.859 (21.82)		.607 (15.42)		1.312 (33.32)	.527 (13.38)
14	.875 (22.22)	.984 (25.00)		.732 (18.59)		1.438 (36.52)	.652 (16.56)
16	1.000 (25.40)	1.108 (28.14)		.857 (21.77)		1.562 (39.67)	.777 (19.73)
18	1.125 (28.57)	1.233 (31.32)		.962 (24.43)		1.688 (42.87)	.866 (22.00)
20	1.250 (31.75)	1.358 (34.49)	(3.175)	1.087 (27.60)	(11.78)	1.812 (46.02)	.991 (25.17)
22	1.375 (34.92)	1.483 (37.67)		1.212 (30.78)		2.000 (50.80)	1.116 (28.34)
24	1.500 (38.10)	1.610 (40.89)		1.337 (33.96)		2.125 (53.97)	1.241 (31.52)

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TABLE 1. Dimensions - Continued.

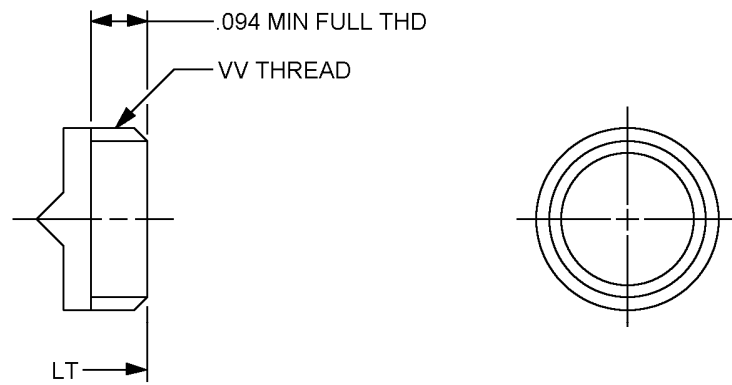
Shell size	M Thread class 2A plated	N dia + .005 - .006	N flat + .001 - .006	Q dia ± .016	S ± .016
8	7/8 - 20 UNEF	.412 (10.46)	.817 (20.75)	1.375 (34.92)	1.250 (31.75)
10	1 - 20 UNEF	.540 (13.71)	.941 (23.90)	1.500 (38.10)	1.375 (34.92)
12	1 1/8 - 18 UNEF	.689 (17.50)	1.065 (27.05)	1.625 (41.27)	1.500 (38.10)
14	1 1/4 - 18 UNEF	.814 (20.67)	1.190 (30.23)	1.750 (44.45)	1.625 (41.27)
16	1 3/8 - 18 UNEF	.939 (23.85)	1.320 (33.53)	1.938 (49.22)	1.750 (44.45)
18	1 1/2 - 18 UNEF	1.039 (26.39)	1.440 (36.57)	2.016 (51.20)	1.938 (49.22)
20	1 5/8 - 18 UNEF	1.164 (29.56)	1.565 (39.75)	2.141 (54.38)	2.016 (51.20)
22	1 3/4 - 18 UNS	1.289 (32.74)	1.690 (42.92)	2.265 (57.53)	2.141 (54.38)
24	1 7/8 - 16 UN	1.414 (35.91)	1.815 (46.10)	2.390 (60.70)	2.265 (57.53)

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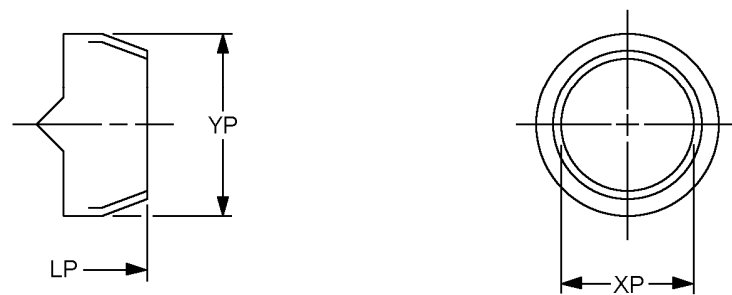
TABLE 1. Dimensions - Continued.

Shell size	Z dia + .006 - .005	CC	DD min dia	EE + .005 - .000	Recommended packing ("O" Ring)
8	.965 (24.51)	.004 (.102)	.678 (17.22)	.140 (3.56)	SAE-AS3578-022
10	1.090 (27.68)	.010 (.254)	.780 (19.81)		SAE-AS3578-024
12	1.215 (30.86)		.963 (24.46)		SAE-AS3578-026
14	1.340 (34.04)		1.088 (27.63)		SAE-AS3578-028
16	1.477 (37.51)		1.222 (31.04)		SAE-AS3578-029
18	1.602 (40.69)		1.333 (33.86)		SAE-AS3578-030
20	1.727 (43.86)		1.458 (37.03)	.166 (4.22)	SAE-AS3578-031
22	1.852 (47.04)		1.583 (40.21)		SAE-AS3578-032
24	1.977 (50.21)		1.708 (43.38)		SAE-AS3578-033

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CLASS T



CLASS P

FIGURE 2. Receptacle, rear accessory areas.

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TABLE 2. Dimensions.

Shell size	LT max overall length	VV thread UNEF-2A MOD (plated)		LP max overall length	XP min dia	YP max dia
		size	major dia MOD			
8	.203 (5.16)	.4375 - 28	.421 - .417 (10.69 - 10.60)	.438 (11.12)	.317 (8.05)	.531 (13.48)
10		.5625 - 24	.542 - .538 (13.76 - 13.66)		.434 (11.02)	.641 (16.28)
12		.6875 - 24	.667 - .663 (16.94 - 16.84)		.548 (13.92)	.766 (19.45)
14		.8125 - 20	.791 - .787 (20.09 - 19.98)		.673 (17.09)	.891 (22.63)
16		.9375 - 20	.916 - .912 (23.26 - 23.16)		.798 (20.27)	1.016 (25.80)
18		1.0625 - 18	1.034 - 1.030 (26.26 - 26.16)		.899 (22.83)	1.125 (28.57)
20	.188 (4.77)	1.1875 - 18	1.158 - 1.154 (29.41 - 29.31)		1.024 (26.01)	1.250 (31.75)
22		1.3125 - 18	1.283 - 1.279 (32.58 - 32.48)		1.149 (29.18)	1.375 (34.92)
24	.250 (6.35)	1.4375 - 18	1.408 - 1.404 (35.76 - 35.66)		1.274 (32.36)	1.500 (38.10)

REQUIREMENTS:

Dimensions and configurations: See figures 1 and 2 and tables 1 and 2.

This connector mates with MS27336.

Insert arrangement shall be in accordance with MIL-STD-1560.

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Part or Identifying Number (PIN) example:

	<u>MS27337</u>	<u>T</u>	<u>12</u>	<u>A</u>	<u>98</u>	<u>P</u>	<u>A</u>
MS number	_____	_____	_____	_____	_____	_____	_____
Class	_____	_____	_____	_____	_____	_____	_____
Shell size	_____	_____	_____	_____	_____	_____	_____
Finish (color)	_____	_____	_____	_____	_____	_____	_____
Insert arrangement	_____	_____	_____	_____	_____	_____	_____
Style	_____	_____	_____	_____	_____	_____	_____
Polarizing position (No letter is required for normal position)	_____	_____	_____	_____	_____	_____	_____

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.

Reference documents. In addition to MIL-DTL-27599, this document references the following:

MS27336
MIL-STD-1560
SAE-AS3578

CONCLUDING MATERIAL

Custodians:
Air Force - 11
DLA - CC

Preparing activity:
DLA - CC

Review activities:
Air Force - 99
DLA - IS

(Project 5935-4653-000)

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>.