

INCH-POUND

MS3127L
w/AMENDMENT 1
29 April 2009
SUPERSEDING
MS3127L
7 November 2007

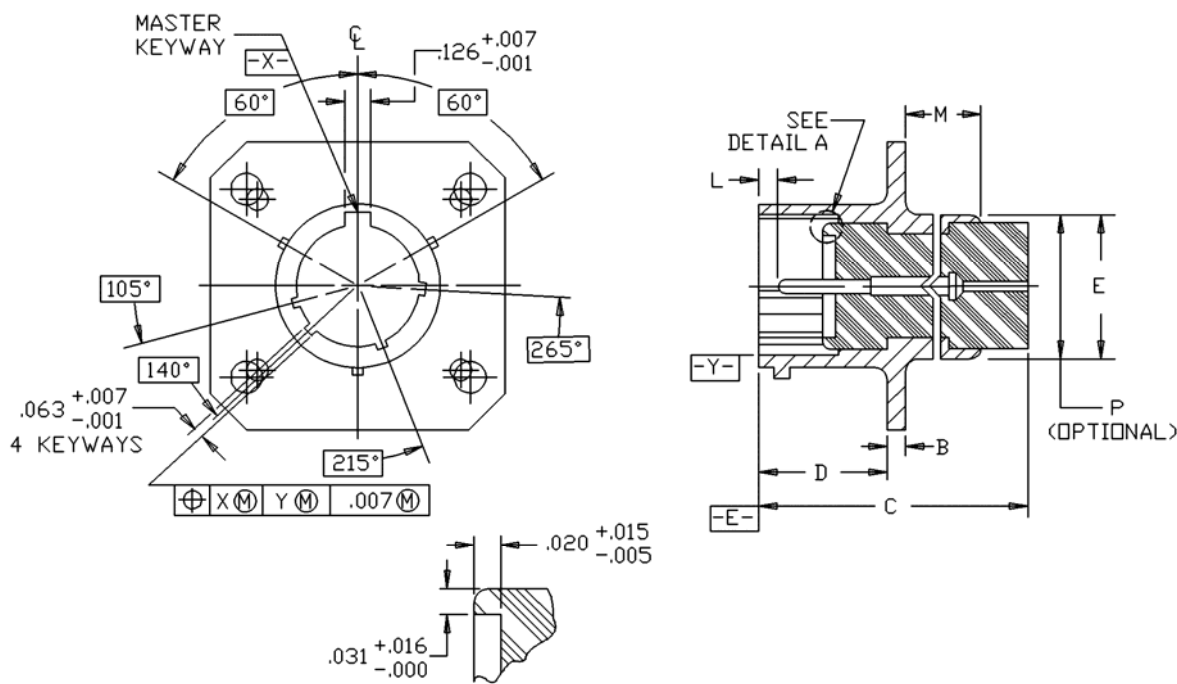
DETAIL SPECIFICATION SHEET

CONNECTORS, RECEPTACLE, ELECTRICAL, SERIES 1, CRIMP TYPE,
BOX MOUNTING, FLANGE, NO. 4/6 HOLES, BAYONET COUPLING, CLASS E

Inactive for new design as of 5 September 1975.

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.



DETAIL A

STYLE P. PIN INSERT

FIGURE 1. Receptacle, dimensions, class E.

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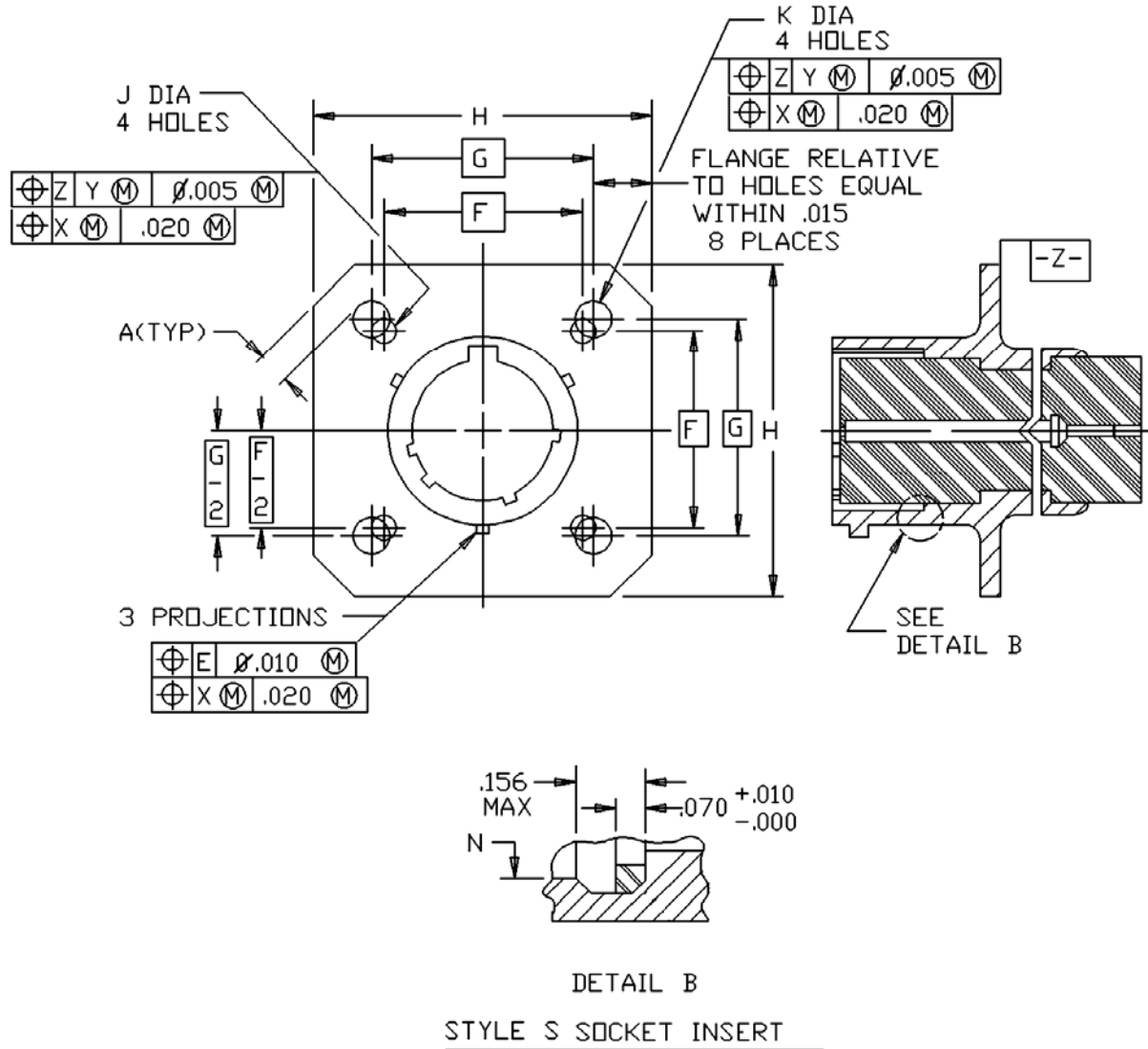


FIGURE 1. Receptacle, dimensions, class E - Continued.

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Shell size	A min edge distance	B $\pm .016$ thick mounting flange	C max overall length	D + .031 - .000 mounting flange location	E dia. + .031 - .024 OD	F (TP) mounting holes	G (TP) mounting holes
10	.035	.062	1.320	.462	.562	.719	.812
12					.688	.812	.938
14					.812	.906	1.031
16					.938	.969	1.125
18					1.062	1.062	1.203
20	.050	.094	1.367	.556	1.188	1.156	1.297
22					1.312	1.250	1.375
24			1.418	.589	1.438	1.375	1.500

FIGURE 1. Receptacle, dimensions, class E - Continued.

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Shell size	H max length	J $\pm.005$ dia mounting holes	K $\pm.005$ dia mounting holes	L $+0.10$ -0.020 pin contact location	M max	N max ID gasket	P UNEF-2A thread (optional)
10	1.141	.120	.150	.085	.406	.457	.5625-24
12	1.266					.564	.6875-24
14	1.360					.689	.8125-20
16	1.453					.814	.9375-20
18	1.532					.907	1.0625-18
20	1.688					1.039	1.1875-18
22	1.766			1.164		1.3125-18	
24	1.891	.147		.147		1.289	1.4375-18

FIGURE 1. Receptacle, dimensions, class E - Continued.

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Inches	mm	Inches	mm	Inches	mm	Inches	mm
.001	0.03	.126	3.20	.907	23.04	1.320	33.53
.005	0.13	.147	3.73	.938	23.83	1.360	34.54
.007	0.18	.150	3.82	.969	24.61	1.367	34.72
.010	0.28	.156	3.96	1.031	26.19	1.375	34.93
.015	0.39	.406	10.31	1.039	26.39	1.418	36.02
.016	0.41	.457	11.61	1.062	26.97	1.438	36.53
.020	0.51	.462	11.73	1.125	28.58	1.453	36.91
.024	0.61	.556	14.12	1.141	28.98	1.500	38.10
.031	0.79	.562	14.27	1.156	29.36	1.532	38.91
.035	0.89	.564	14.33	1.164	29.57	1.688	42.88
.050	1.28	.589	14.96	1.188	30.18	1.766	44.86
.062	1.57	.688	17.48	1.203	30.56	1.891	48.03
.063	1.60	.689	17.50	1.250	31.75		
.070	1.78	.719	18.26	1.266	32.16		
.085	2.16	.812	20.62	1.289	32.74		
.094	2.39	.814	20.68	1.297	32.94		
.120	3.05	.906	23.01	1.312	33.32		

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for information only.
3. Unless otherwise specified, tolerance for all angles is $\pm 1/2^\circ$.
4. True position (TP) tolerance shall be in accordance with ASME Y14.5M.
5. Interchangeability dimensions shall be in accordance with MIL-DTL-26482.

FIGURE 1. Receptacle, dimensions, class E - Continued.

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REQUIREMENTS:

Dimensions and configurations: 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.

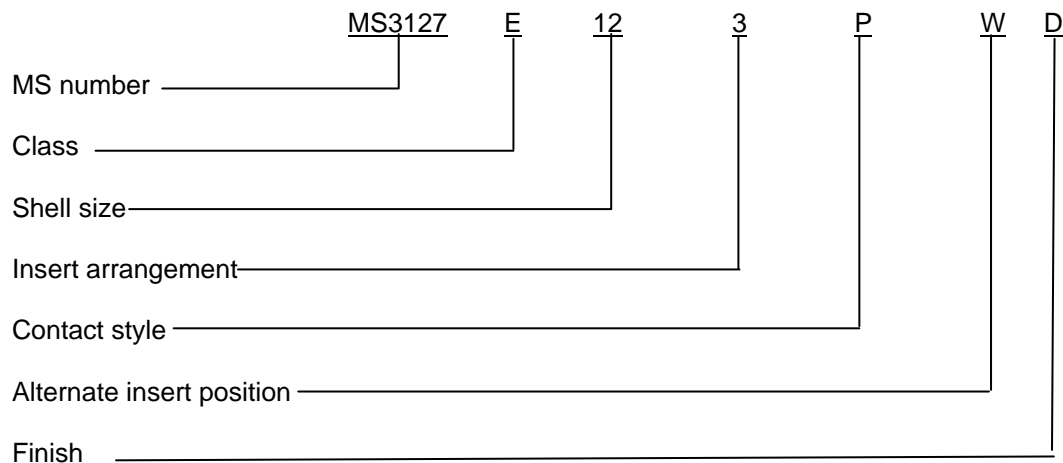
Packing material shall be in accordance with ASTM-D2000.

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 class E.

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 (finish 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:

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

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CONCLUDING MATERIAL

Custodians:

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

Preparing activity:
DLA - CC

(Project 5935-2008-132)

Review activities:

Army - AV, MI
Navy - EC, SH
Air Force - 99

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