

INCH-POUND

MS3126F  
 6 June 2003  
 SUPERSEDING  
 MS3126E  
 31 July 1986

## DETAIL SPECIFICATION SHEET

CONNECTORS, PLUG, ELECTRICAL, CRIMP TYPE,  
STRAIGHT, BAYONET COUPLING

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 and MIL-C-26482.

Inactive for new design after 5 September 1975.  
 Use MS3476 for new design.

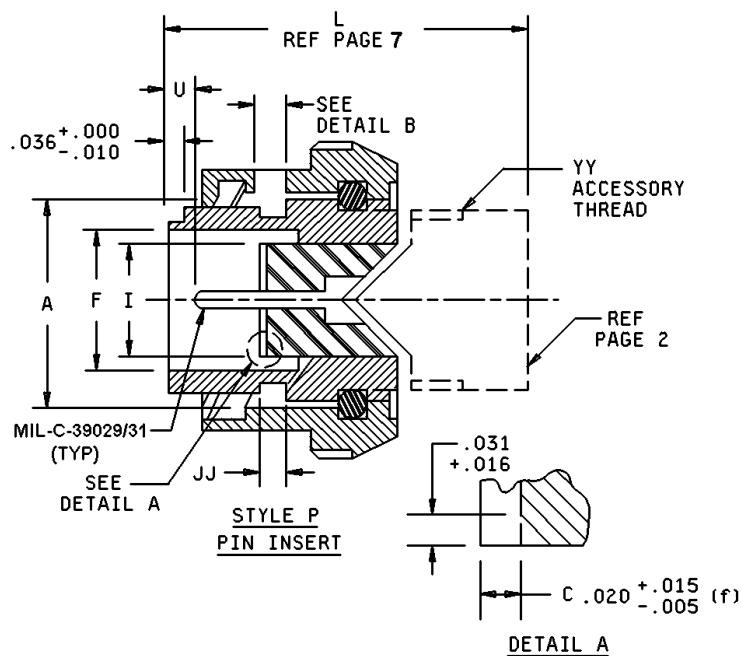


FIGURE 1. Plug, style P (pin insert), for classes E, F, and P.

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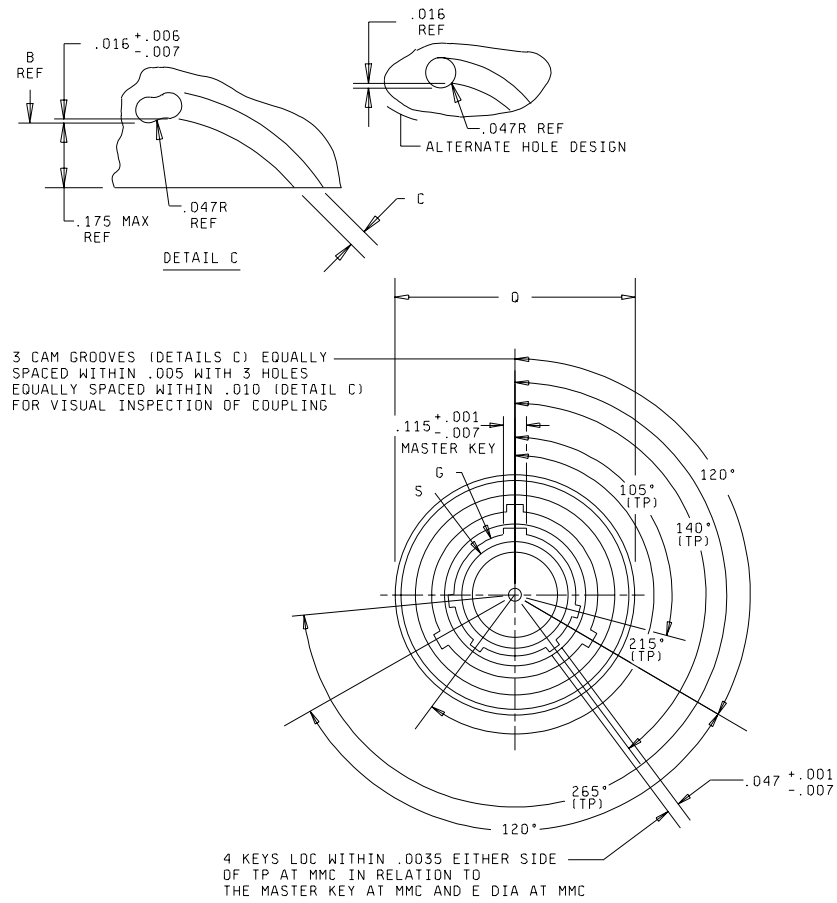


FIGURE 1. Plug, style S (socket insert), for classes E, F, and P - Continued.

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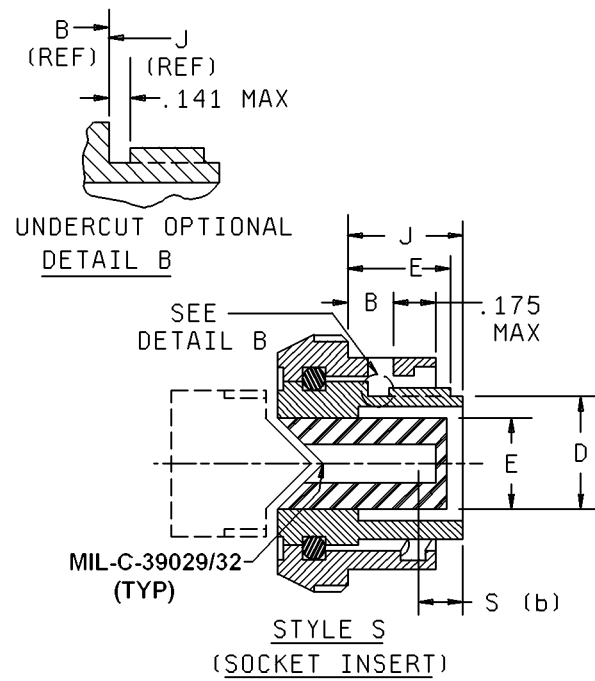


FIGURE 1. Plug, style S (socket insert), for classes E, F, and P - Continued.

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Size	A dia +.005 -.001 coupling location	B $\pm$ .020 bay lock location	C dia +.016 -.001 bay groove width	E dia +.001 -.005 od	F dia min id	G dia +.005 -.005 id slots
8	.481	.113	.090	.357	.292	.576
10	.602			.485	.409	.697
12	.761			.597	.523	.871
14	.885			.722	.648	.995
16	1.010			.847	.722	1.120
18	1.136			.947	.862	1.245
20	1.260			1.072	.987	1.370
22	1.385	1.197	1.111	1.495		
24	1.510	.152	.137	1.322	1.237	1.624

Size	H +.000 -.020 socket insert location	I max insert dia	J $\pm$ .010 shoulder location	JJ +.020 -.000 pin insert location	Q max dia over-all	S +.001 -.010 dia over keys
8	.337	.285	.353	.030	.782	.285
10		.402			.926	.402
12		.516			1.043	.516
14		.641			1.183	.641
16		.766			1.305	.766
18		.855			1.391	.855
20	.399	.980	.415	.092	1.531	.980
22		1.105			1.656	1.105
24		1.229			1.777	1.229

FIGURE 1. Dimensions for classes E, F, and P - Continued.

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Size	U +.010 -.020 pin contact location	Z (b) +.000 -.078 socket contact spring location	W class 2A accessory thread
8	.075	.143	7/16-28
10			9/16-24
12			11/16-24
14			13/16-20
16			15/16-20
18			1 1/16-18
20			1 3/16-18
22			1 5/16-18
24			1 7/16-18

FIGURE 1. Dimensions for classes E, F, and P - Continued.

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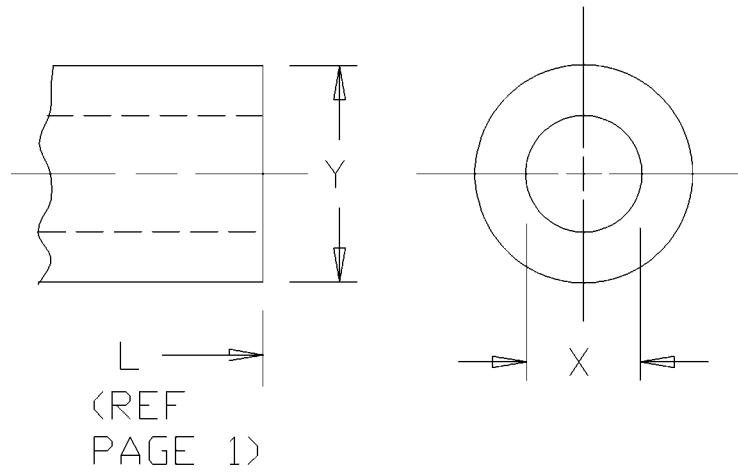
Inches	mm	Inches	mm	Inches	mm	Inches	mm
.001	.03	.292	7.42	.772	19.61	1.154	29.31
.005	.13	.337	8.56	.782	19.86	1.183	30.05
.006	.15	.353	8.97	.804	20.42	1.197	30.40
.007	.18	.357	9.07	.847	21.51	1.229	31.22
.010	.25	.399	10.13	.855	21.72	1.237	31.42
.015	.38	.402	10.21	.862	21.89	1.245	31.62
.016	.41	.409	10.39	.871	22.12	1.260	32.00
.020	.51	.415	10.54	.885	22.48	1.279	32.49
.030	.76	.485	12.32	.926	23.52	1.305	33.15
.031	.79	.516	13.11	.929	23.60	1.322	33.58
.036	.91	.523	13.28	.947	24.05	1.370	34.80
.075	1.90	.530	13.46	.980	24.89	1.385	35.18
.090	2.29	.576	14.63	.987	25.07	1.391	35.33
.092	2.34	.597	15.16	.995	25.27	1.404	35.66
.113	2.87	.602	15.29	1.010	25.65	1.495	37.97
.115	2.92	.641	16.28	1.029	26.14	1.510	38.35
.137	3.48	.648	16.46	1.043	26.49	1.531	38.89
.141	3.58	.679	17.25	1.072	27.23	1.624	41.25
.143	3.63	.697	17.70	1.105	28.07	1.656	42.06
.152	3.86	.722	18.34	1.111	28.22	1.777	45.14
.175	4.44	.761	19.33	1.120	28.45		
.285	7.24	.766	19.46	1.136	28.85		

## NOTES:

1. Dimensions are in inches
2. Metric equivalents are given for general information only.
3. 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.
4. True position (TP) tolerances specified are in accordance with ANSI Y14.5-1973.
5. Material: Shell and coupling ring - aluminum alloy.

FIGURE 1. Dimensions for classes E, F, and P - Continued.

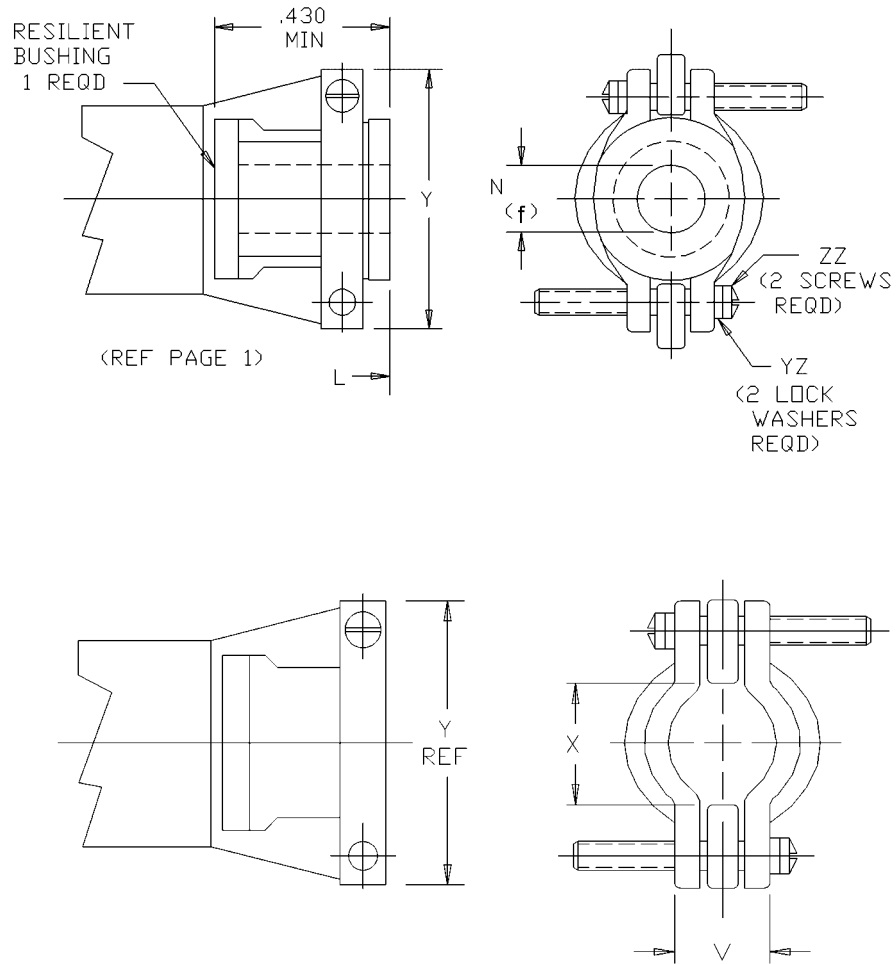
## MS3126F



Size	L max over-all length	X dia min id	Y dia max od
8	1.513	.259	.608
10		.359	.730
12		.469	.858
14		.589	.954
16		.717	1.110
18	1.638	.779	1.244
20		.901	1.360
22		1.009	1.404
24		1.123	1.610

FIGURE 2. Dimensions for class E.

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Bushing removed

FIGURE 3. Dimensions for class F.



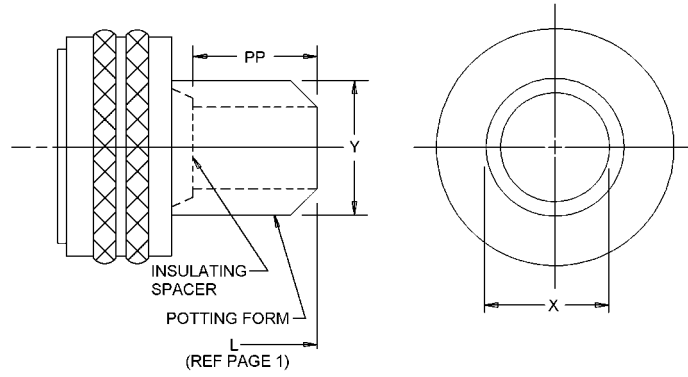
## MS3126F

Size	L max over-all length	X dla min open	Y max	V max closed
8	2.413	.234	.828	.187
10		.297	.891	
12		.422	1.016	.281
14		.547	1.141	.325
16	2.528	.609	1.203	.356
18		.734	1.469	.456
20				.519
22	2.753	.922	1.656	
24	2.830	.984	1.750	.657

Size	N (f) free $\pm .010$	ZZ screw threads	YZ lock washers NASM35338 OR NASM35333
8	.125	6-32UNC	NASM35338B6L OR -6L  NASM35333-105 OR NASM35333-37
10	.180		
12	.312		
14	.373		
16	.500		
18	.625	8-32UNC	NASM35338B6L OR -6L  NASM35333-106 OR NASM35333-38
20	.625		
22	.750		
24	.800		

FIGURE 3. Dimensions for class F - Continued.

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Size	L max over-all length	X dia min	Y dia max	PP min
8	1.750	.317	.608	.250
10		.434	.734	
12		.548	.858	
14		.673	.984	
16		.798	1.110	
18		.899	1.234	
20	1.892	1.024	1.360	
22	1.953	1.149	1.484	
24		1.274	1.610	

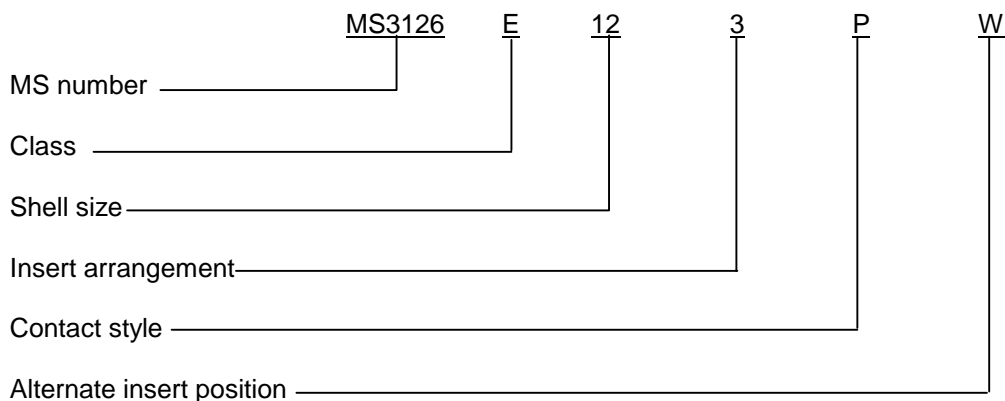
FIGURE 4. Dimensions for class P.

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REQUIREMENTS:

Dimensions and configuration: See figures 1 through 4.  
 This connector mates with MS3120, MS3122, MS3124, MS3127 and MS3128.  
 Insert arrangement shall be in accordance with MIL-STD-1669.  
 Sealing member: Bonded to vitreous insert.  
 Packing material shall meet the requirements of ASTM-D2000.  
 MS3476 is interchangeable for use except for the following:  
 MS3476 utilizes rear release contacts whereas MS3126 utilizes front release contacts.

Part or Identifying Number (PIN) example:



CONCLUDING MATERIAL

Custodians:  
 Army - CR  
 Air Force - 11  
 DLA - CC

Preparing activity:  
 DLA - CC  
 (Project 5935-4419-021)

Review activities:  
 Army - AR, MI  
 Navy - SH

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<p>1. The preparing activity must complete blocks 1, 2, 3, and 8. In block 1, both the document number and revision letter should be given.</p> <p>2. The submitter of this form must complete blocks 4, 5, 6, and 7, and send to preparing activity.</p> <p>3. The preparing activity must provide a reply within 30 days from receipt of the form.</p> <p>NOTE: This form may not be used to request copies of documents, nor to request waivers, or clarification of requirements on current contracts. Comments submitted on this form do not constitute or imply authorization to waive any portion of the referenced document(s) or to amend contractual requirements.</p>		
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3. DOCUMENT TITLE <b>CONNECTORS, PLUG, ELECTRICAL, CRIMP TYPE, STRAIGHT, BAYONET COUPLING, CLASSES E, F AND P</b>		
4. NATURE OF CHANGE <i>(Identify paragraph number and include proposed rewrite, if possible. Attach extra sheets as needed.)</i>		
5. REASON FOR RECOMMENDATION		
6. SUBMITTER		
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