

INCH-POUND

MS17346F
16 January 2013
SUPERSEDING
MS17346E
26 October 2005

DETAIL SPECIFICATION SHEET

CONNECTOR, RECEPTACLE, ELECTRICAL, BOX MOUNTING

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-22992.

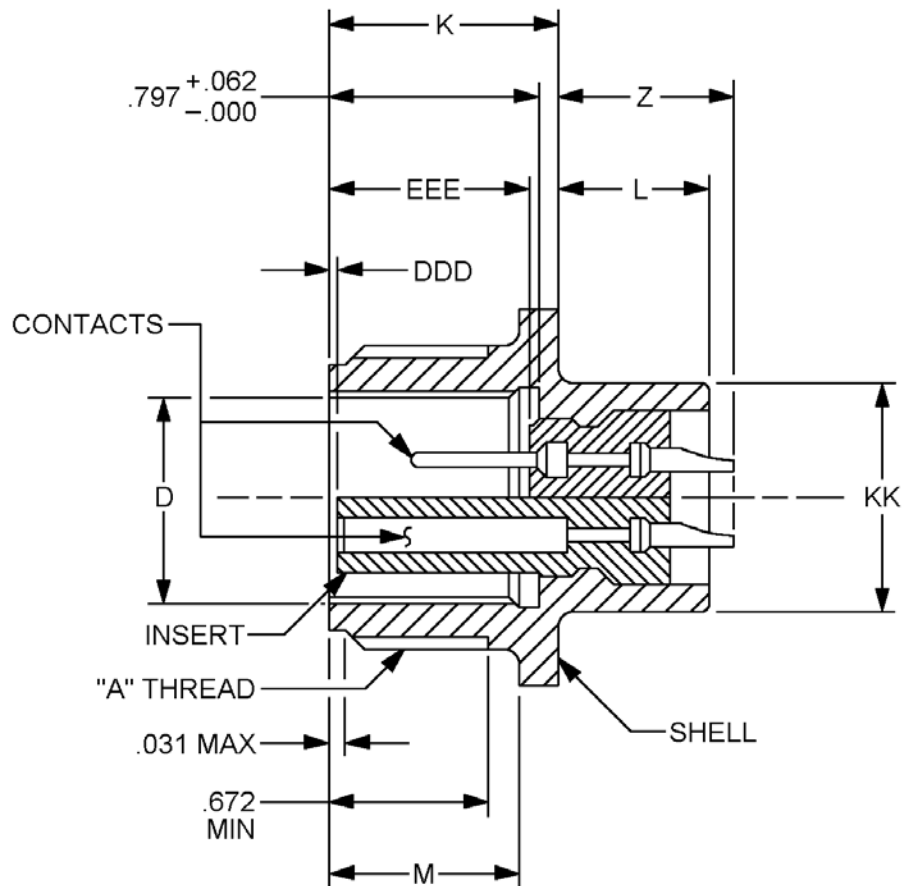


FIGURE 1. Dimensions and configuration.

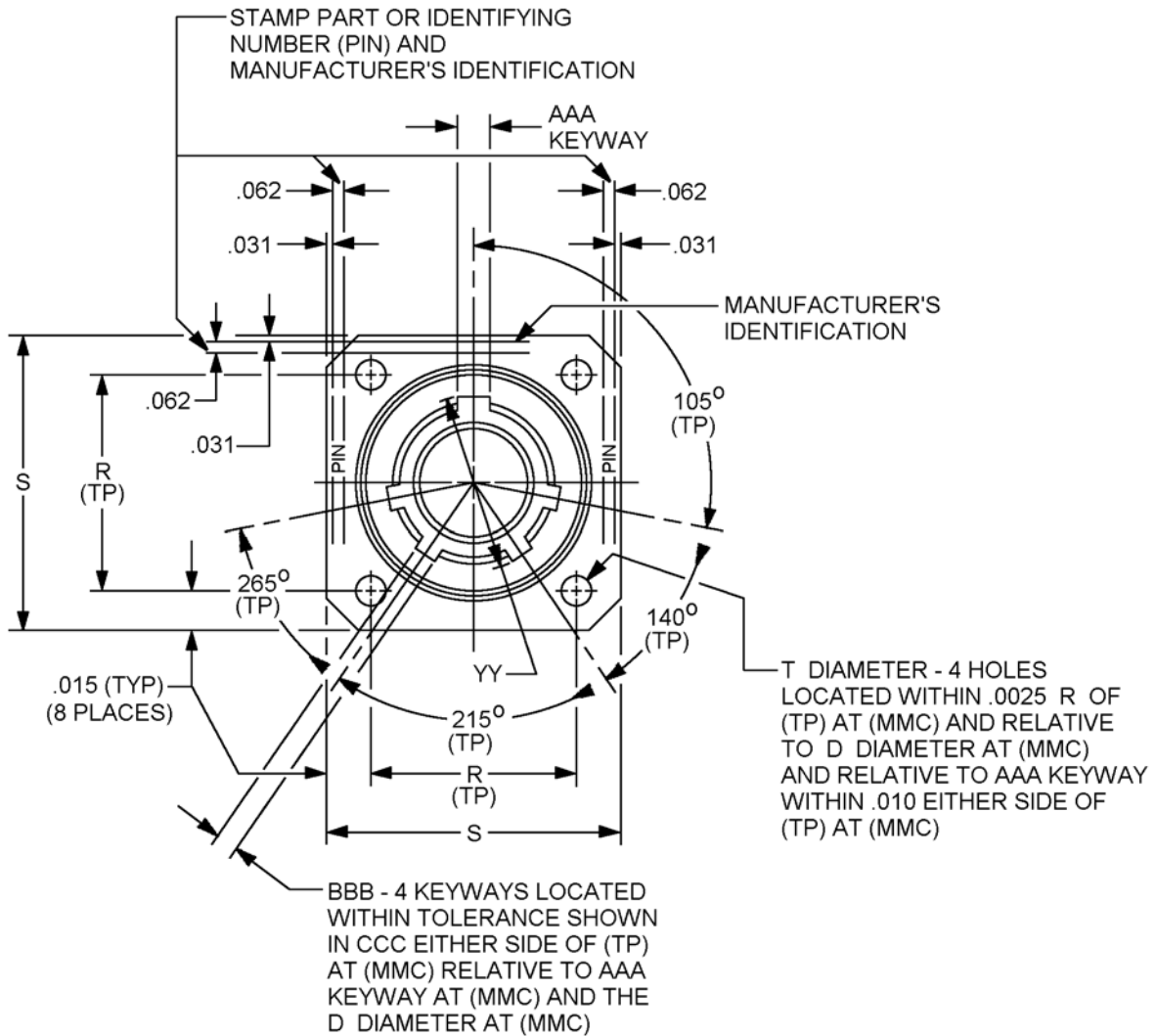


FIGURE 1. Dimensions and configuration - Continued.

MS17346F

Shell size	A Thread (plated) class 2A	D dia + .005 - .010	K + .021 - .010	L + .020 - .030
12	0.8750-0.1P-0.2L-DS	.567	.938	.640
14	1.0000-0.1P-0.2L-DS	.692		
16	1.1250-0.1P-0.2L-DS	.817		
18	1.2500-0.1P-0.2L-DS	.942	.953	.625
20	1.3750-0.1P-0.2L-DS	1.068		
22	1.5000-0.1P-0.2L-DS			
24	1.7500-0.1P-0.2L-DS	1.317	1.047	.594
28	2.0000-0.1P-0.2L-DS	1.536		
32	2.2500-0.1P-0.2L-DS	1.786	1.110	.531
36	2.5000-0.1P-0.2L-DS	2.005		
40	2.7500-0.1P-0.2L-DS	2.255		
44	3.0000-0.1P-0.2L-DS	2.545		

FIGURE 1. Dimensions and configuration - Continued.

Shell size	N + .010 - .000	R (TP)	S + .021 - .020	T dia ± .005	KK dia + .011 - .010
12	.797	.906	1.188	.150	.640
14		.969	1.281		.765
16		1.062	1.375		.890
18		1.156	1.500	.177	1.015
20		1.250	1.625		1.171
22		1.375	1.750		1.296
24	.859	1.562	2.000		1.421
28		1.750	2.250		1.625
32	.922	1.938	2.500	.209	1.891
36		2.188	2.750		2.078
40		2.375	3.000		2.312
44		2.625	3.250		2.562

FIGURE 1. Dimensions and configuration - Continued.

MS17346F

Shell size	YY dia + .010, - .006	AAA	BBB	CCC
12	.647	.126 -.001, +.007	.063 -.001, +.007	.0035
14	.772			
16	.897	.182 -.001, +.010	.108 -.001, +.010	.007
18	1.022			
20	1.148			
22	1.272			
24	1.473			
28	1.692	.260 -.001, +.010	.155 -.001, +.010	
32	1.942			
36	2.161			
40	2.411			
44	2.692			

FIGURE 1. Dimensions and configuration - Continued.

MS17346F

Shell size	DDD Socket insert location $\pm .030$	EEE Pin insert location $\pm .030$	Z max	Z min (contact size 0 only)
12	.020	.729	.738	NA
14			.738	
16				
18			.723	.780
20				
22				
24			.660	.686
28				
32			.540	.622
36				
40				
44	.039	.764		

FIGURE 1. Dimensions and configuration - Continued.

MS17346F

Inches	mm	Inches	mm	Inches	mm	Inches	mm
.001	0.03	.625	15.88	1.015	25.78	1.750	44.45
.0035	0.09	.640	16.26	1.022	25.96	1.786	45.36
.005	0.13	.647	16.43	1.047	26.59	1.891	48.03
.006	0.15	.660	16.76	1.062	26.97	1.938	49.23
.007	0.18	.672	17.06	1.068	27.13	1.942	49.33
.010	0.25	.686	17.42	1.110	28.19	2.000	50.80
.011	0.28	.692	17.58	1.125	28.60	2.005	50.93
.020	0.51	.723	18.36	1.148	29.16	2.078	52.78
.021	0.53	.729	18.52	1.156	29.36	2.161	54.89
.030	0.76	.738	18.75	1.171	29.74	2.188	55.57
.031	0.79	.764	19.41	1.188	30.18	2.250	57.15
.039	0.99	.765	19.43	1.250	31.75	2.255	57.28
.062	1.57	.772	19.61	1.272	32.31	2.312	58.72
.063	1.60	.780	19.81	1.281	32.54	2.375	60.33
.108	2.74	.797	20.24	1.296	32.91	2.411	61.24
.126	3.20	.817	20.75	1.317	33.45	2.500	63.50
.150	3.81	.859	21.81	1.375	34.93	2.545	64.64
.155	3.93	.8750	22.225	1.421	36.09	2.562	65.07
.177	4.50	.890	22.61	1.473	37.41	2.625	66.68
.182	4.62	.897	22.78	1.500	38.10	2.692	68.37
.209	5.30	.906	23.01	1.536	39.01	2.750	69.85
.260	6.60	.922	23.42	1.562	39.67	3.000	76.20
.531	13.49	.938	23.82	1.625	41.27	3.250	82.55
.540	13.72	.942	23.93	1.692	42.98		
.567	14.40	.953	24.21				
.594	15.09	.969	24.61				
.622	15.80	1.000	25.40				

NOTES:

1. All dimensions are in inches.
2. Unless otherwise specified tolerances are ± 0.016 inch (0.41 mm).
3. Metric equivalents are given for information only.
4. For protective cover, see MS17349.

FIGURE 1. Dimensions and configuration - Continued.

MS17346F

REQUIREMENTS:

Design and construction: See figure 1.

Mates with plugs shown on MS17344.

Dimensions shall be maintained when inserts are pressed firmly against indicated shoulder.

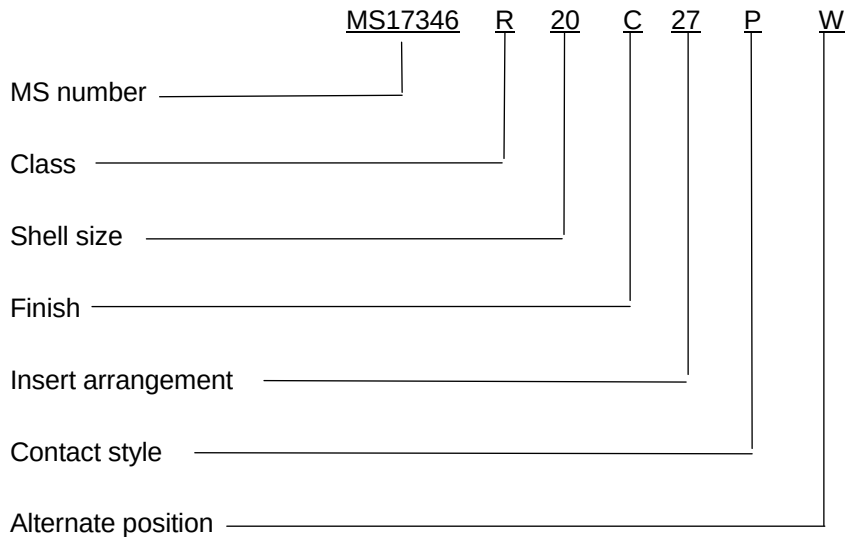
For size 0 contacts only: Increase Z dimension by .312 (7.92 mm) for shell sizes 12 through 40, and increase Z dimension by .062 (1.57 mm) for shell size 44.

For size, insert arrangement, alternate position, contact size, spacing and service rating, see MIL-STD-1651.

Shell finish: See MIL-DTL-22992.

Class shall be designated by the letter C (pressurized), J (pressurized with grommet) or R (environmental resisting).

Part or Identifying Number (PIN) example:



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-22992, this document references the following:

MS17344
MS17349
MIL-STD-1651

CONCLUDING MATERIAL

Custodians:

Army – CR
Navy – EC
Air Force - 85
DLA – CC

Preparing activity:

DLA – CC

Review activities:

Army – AR, MI
Navy – AS, CG, MC, OS, YD
Air Force - 19

(Project 5935–2012–183)

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>.