

INCH-POUND

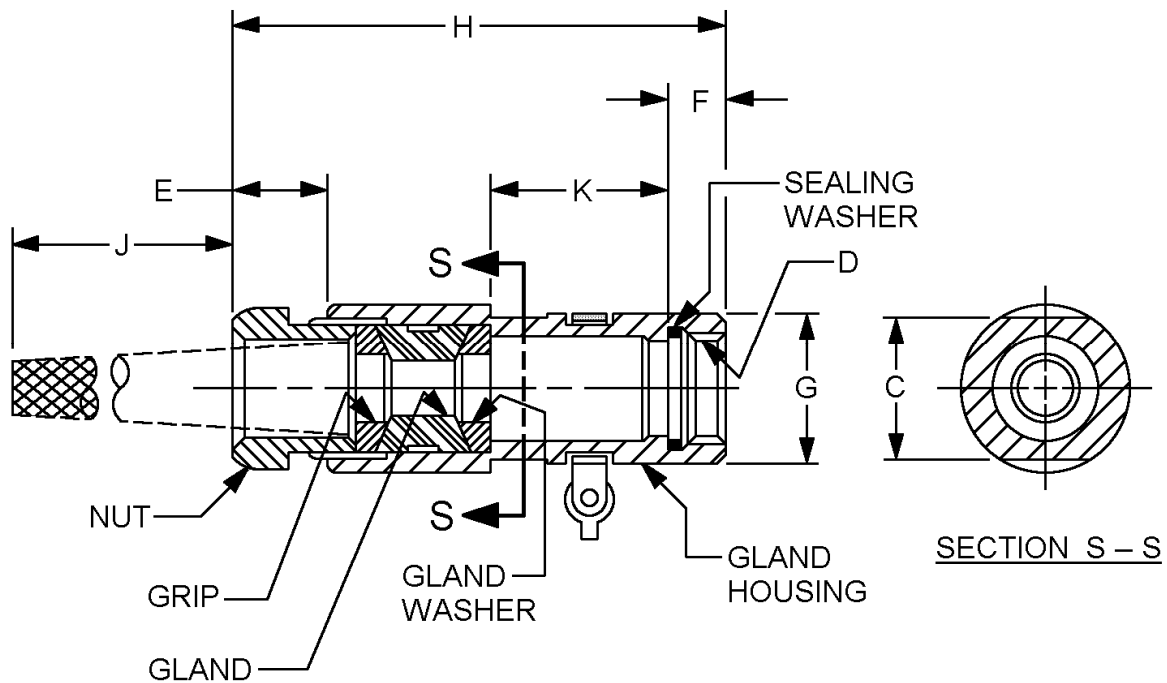
MS90569A  
 26 October 2005  
 SUPERSEDING  
 MS90569  
 25 May 1967

## DETAIL SPECIFICATION SHEET

## ADAPTER, STEP - UP, CABLE SEALING AND GRIPPING

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. Adapter.

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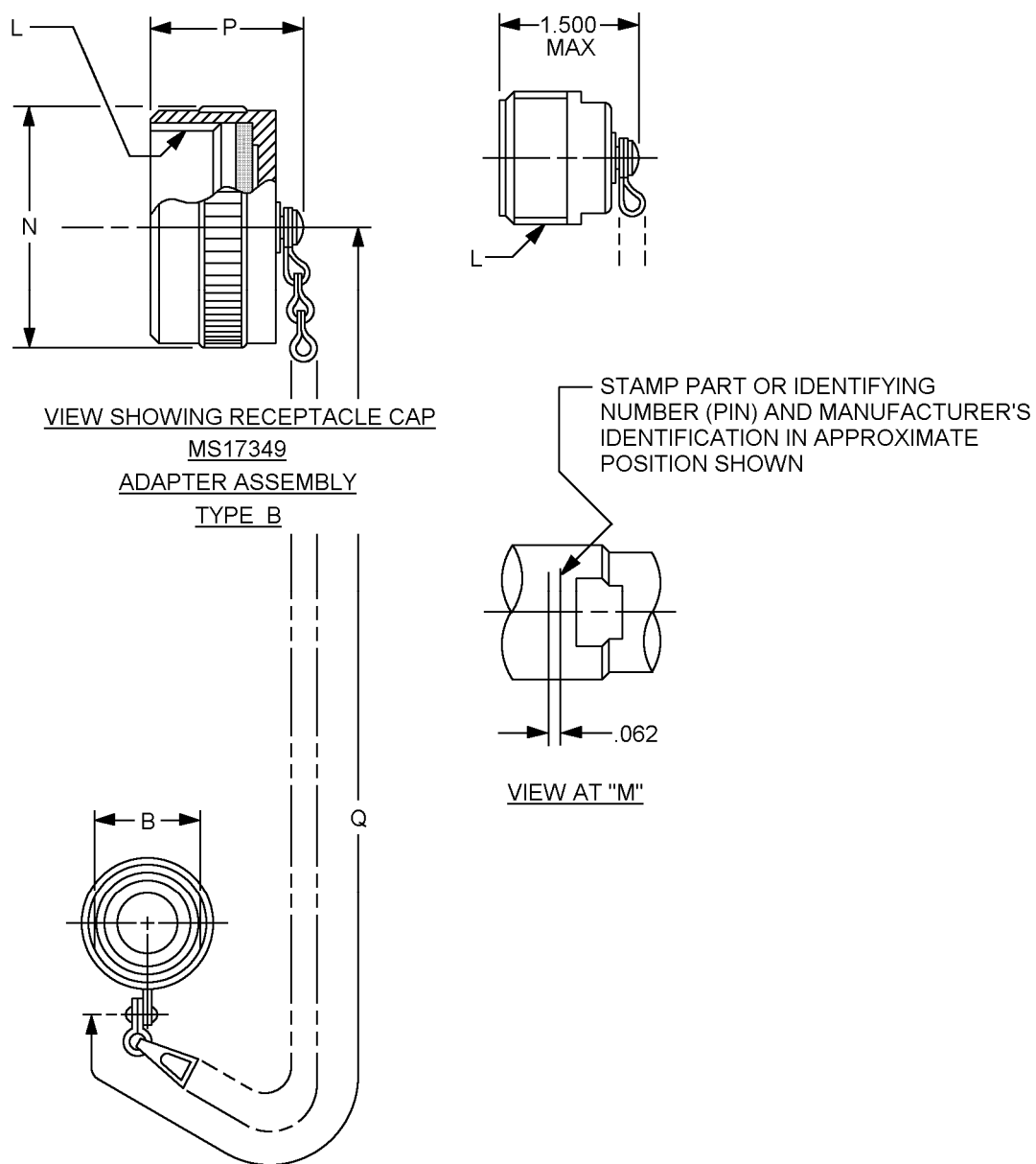


FIGURE 1. Adapter - Continued.

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Adapt size no.	Size	Cable range		B +.000 -.010	C +.000 -.010	D thread class 2B-LH	E Free large max	F ±.016	G dia -.010 -.020						
		max dia	min dia												
1	12	.530	.436	1.000	.812	.7500-20UNEF	.597	.479	.938						
2		.500	.406	.875	.938		.539								
3		.405	.316	1.000	.812										
4	14	.625	.560	1.062	1.125	.8750-20 UNEF	.597		1.062						
5		.605	.511	1.000	1.062										
6		.530	.436												
7		.405	.316												
8	18	.828	.715	1.125	1.250	1.1250-18UNEF				1.312					
9	20	1.055	.930	1.500	1.375	1.2500-18UNEF				1.438					
10		1.000	.875												
11		.900	.787	1.250											
12		.750	.637												
13	22	1.109	.984	1.500	1.625	1.3750-18UNEF					1.562				
14		1.000	.875												
15	24	1.375	1.250	2.000	1.875	1.6250-18UNEF						1.812			
16		1.310	1.185	1.750											
17		1.230	1.105												
18		1.180	1.055												
19	28	1.531	1.406	2.000	2.062	1.8750-16UN							2.062		
20		1.445	1.320												
21		1.375	1.250												
22	32	1.825	1.700	2.438	2.312	2.0625-16UN								2.312	
23		1.730	1.605												
24		1.656	1.531												2.250
25	36	2.062	1.917	2.750	2.500	2.3125-16UN									2.562
26		1.984	1.859	2.438											
27		1.900	1.775												
28		1.825	1.700												
29		1.730	1.605												
30	40	2.375	2.230	2.875	2.812	1.6250-16UN									2.875
31		2.250	2.105	2.750	2.625	2.6250-16UN									
32		2.145	2.000												
33		2.062	1.917				.710								

FIGURE 1. Adapter - Continued.

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Inches	mm	Inches	mm	Inches	mm	Inches	mm
0.062	1.575	0.787	19.990	1.320	33.528	1.917	48.692
0.316	8.026	0.812	20.625	1.375	34.925	1.984	50.394
0.405	10.287	0.828	21.031	1.406	35.712	2.000	50.800
0.406	10.312	0.875	22.225	1.438	36.525	2.062	52.375
0.436	11.074	0.900	22.860	1.445	36.703	2.105	53.467
0.479	12.167	0.930	23.622	1.500	38.100	2.145	54.483
0.500	12.700	0.938	23.825	1.531	38.887	2.230	56.642
0.511	12.979	0.984	24.994	1.562	39.675	2.250	57.150
0.530	13.462	1.000	25.400	1.605	40.767	2.312	58.725
0.539	13.691	1.055	26.797	1.625	41.275	2.375	60.325
0.560	14.224	1.062	26.975	1.656	42.062	2.438	61.925
0.597	15.164	1.105	28.067	1.700	43.180	2.500	63.500
0.605	15.367	1.109	28.169	1.730	43.942	2.562	65.075
0.625	15.875	1.125	28.575	1.750	44.450	2.625	66.675
0.637	16.180	1.180	29.972	1.775	45.085	2.750	69.850
0.667	16.942	1.185	30.099	1.812	46.025	2.812	71.425
0.709	18.009	1.230	31.242	1.825	46.355	2.875	73.025
0.710	18.034	1.250	31.750	1.859	47.219		
0.715	18.161	1.310	33.274	1.875	47.625		
0.750	19.050	1.312	33.325	1.900	48.260		

FIGURE 1. Adapter - Continued.

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Adapt size no.	Size	H max	J approx free length	K +.015 -.025	L thread (plated) class 2(A or B)	N dia max	P max	Q within one link
1	12	3.810	4.688	1.219	.8750-0-1P-0.2I-DS	1.094	.765	5.00
2		3.248	4.344	.871				
3		3.810	3.688	1.219				
4	14	4.024	6.188	1.371	1.0000-1P-0.2I-DS	1.219		
5		3.712	5.188	1.121				
6			4.688					
7			3.688					
8	18	4.087	6.688	1.343	1.2500-1P-0.2I-DS	1.469	.980	6.00
9	20	4.212	7.688	1.371	1.3750-1P-0.2I-DS	1.562		
10			7.188					
11		4.150	6.688					
12			7.688					
13	22	4.212	7.188	1.5000-1P-0.2I-DS	1.688			
14			7.688					
15	24	4.275	9.688	1.309	1.7500-1P-0.2I-DS	1.938		
16			8.688					
17			8.188					
18								
19	28	4.337	10.688	1.371	2.0000-1P-0.2I-DS	2.219		
20			9.688					
21								
22	32	4.704	13.688	1.375	2.2500-1P-0.2I-DS	2.469		
23			13.688					
24			4.399					
25	36	4.704	14.188	1.375	2.5000-1P-0.2I-DS	2.719		
26		4.673	13.688	1.344				
27								
28								
29								
30	40	5.000	18.188	1.421	2.7500-0-0.2L-DS	2.969		
31			17.188					
32		4.939	14.188	1.422				
33								

FIGURE 1. Adapter - Continued.

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Inches	mm	Inches	mm	Inches	mm
0.765	19.431	2.219	56.363	4.704	119.482
0.871	22.123	2.469	62.713	4.939	125.451
0.980	24.892	2.719	69.063	5.000	127.000
1.094	27.788	2.969	75.413	5.188	131.775
1.121	28.473	3.248	82.499	6.000	152.400
1.219	30.963	3.688	93.675	6.188	157.175
1.309	33.249	3.712	94.285	6.688	169.875
1.343	34.112	3.810	96.774	7.188	182.575
1.344	34.138	4.024	102.210	7.688	195.275
1.370	34.798	4.087	103.810	8.188	207.975
1.371	34.823	4.150	105.410	8.688	220.675
1.372	34.849	4.212	106.985	9.688	246.075
1.375	34.925	4.275	108.585	10.688	271.475
1.421	36.093	4.337	110.160	12.688	322.275
1.422	36.119	4.344	110.338	13.688	347.675
1.469	37.313	4.399	111.735	14.188	360.375
1.562	39.675	4.673	118.694	17.188	436.575
1.688	42.875	4.688	119.075	18.188	461.975
1.938	49.225				

## NOTES:

1. Dimensions are in inches. Metric equivalents are given for information only.
2. Unless otherwise specified, tolerance for decimals is  $\pm .016$  (.41 mm).
3. It is intended that connectors and their associated accessories be of the same finish (see requirements).

FIGURE 1. Adapter - Continued.

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## REQUIREMENTS:

Design and construction, see figure 1.

The adapters are for use with class R and C connectors shown on MS17343, MS71344, MS17345, and MS17347.

Adapter finish shall be designated by the letter C (conductive) or N (non-conductive).

Adapter assembly type shall be designated as A or B.

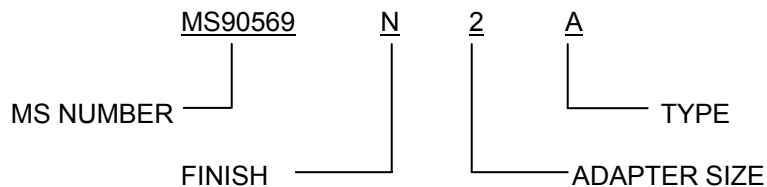
Type A is for use with connector MS17344.

Type B is for use with connectors MS17343, MS17345, and MS17347.

Adapter, cap and chain is considered a complete assembly.

Chain shall be passivated corrosion resistant (stainless) steel in accordance with type II, class 3, trade number 8 of RR-C-271 and shall be within one link or the length specified herein.

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:

MS17343  
MS17344  
MS17345  
MS17347  
MS17349  
RR-C-271

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## CONCLUDING MATERIAL

Custodians:

Army – CR  
Navy – EC  
Air Force – 11  
DLA – CC

Preparing activity:

DLA – CC

Review activities:

Army – AV, MI  
Navy – AS, CG, MC, OS, SH  
Air Force – 19

(Project 5935–4719–018)

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