

INCH-POUND

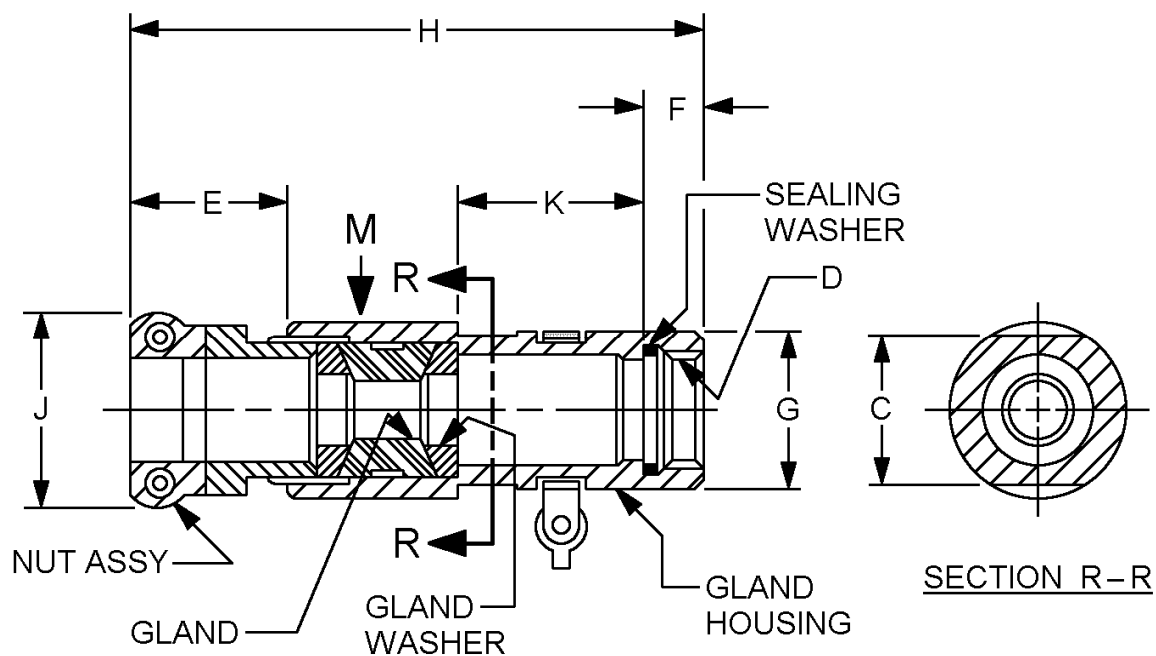
MS17342C
 26 October 2005
 SUPERSEDING
 MS17342B
 01 June 1966

DETAIL SPECIFICATION SHEET

ADAPTER, STEP - UP, CABLE SEALING

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. Style 1 adapter.

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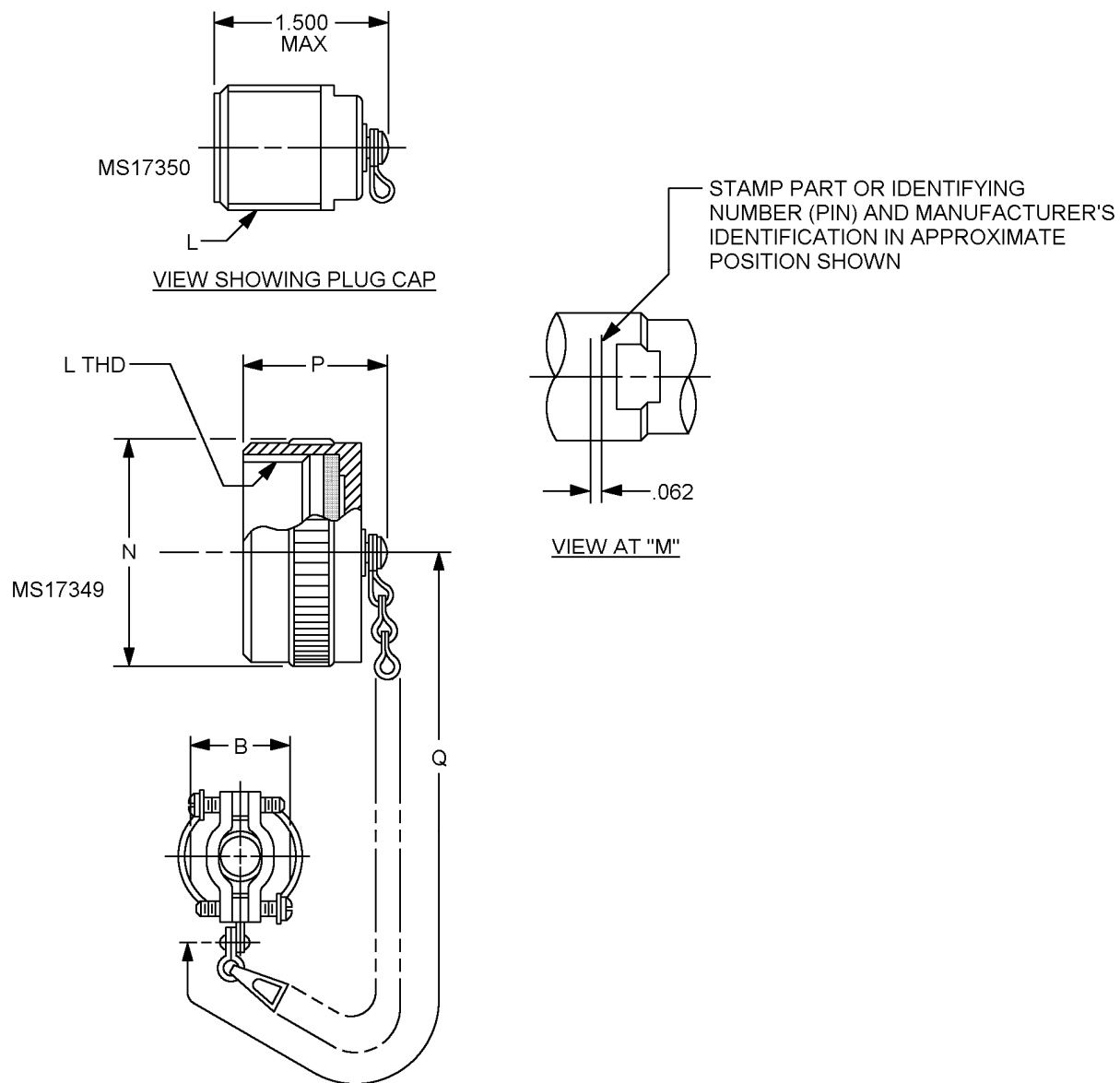


FIGURE 1. Style 1 adapter - Continued.

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Adapter size no.	Size	Cable range		B + .000 - .010	C + .000 - .010	D Thread Class 2B-LH	E Free LG max	F ± .016	
		max dia	min dia						
1	12	.530	.436	1.000	.0812	.7500-20UNEF	1.062	.479	
2		.500	.406	.875	.938		0.969		
3		.405	.311		.812				
4	14	.605	.511	1.000	1.062	.8750-20UNEF	1.062		
5		.625	.531	1.062	1.125				
6		.530	.436						
7		.405	.311	1.000	1.062				
8	18	.828	.715	1.188	1.250	1.1250-18NEF			
9	20	.750	.637	1.312	1.375	1.2500-18NEF	1.094		
10		1.000	.875	1.546			1.281		
11		.900	.787	1.312			1.094		
12		1.055	.930	1.546			1.281		
13	22	1.000	.875		1.625	1.3750-18NEF			
14		1.109	.984						
15	24	1.180	1.055	1.780	1.875	1.6250-18NEF	1.281		
16		1.310	1.185						
17		1.230	1.105						
18		1.375	1.250						
19	28	1.445	1.320	2.000	2.062	1.8750-16UN			
20		1.531	1.406			2.0625-16UN			
21		1.375	1.250						
22	32	1.656	1.531	2.250	2.312	2.0625-16N			
23		1.828	1.700	2.438					1.391
24		1.562	1.437	2.250			1.281		
25		1.730	4.605	2.438			2.500		2.3125-16N
26	36	1.900	1.775						
27		1.730	1.605						
28		1.825	1.700						
29		1.984	1.859						
30		2.062	1.917	2.750					
31	40	1.375	2.230	3.000	2.812	2.6250-16UN	.667		
32		2.250	2.105	2.875	2.625				
33		2.145	2.000						
34		2.062	1.917	2.750					

FIGURE 1. Style 1 adapter - Continued.

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Adapter size No.	Size	G dia +.010 -.020	H max	J ±.031	K .015 -.025	L Thread (plated) Class 2 (A or B)	N dia max	P max	Q see req 5
1	12	.938	4.275	1.375	1.219	.8750-O IP-0.2L-DS	1.094	.765	5.00
2			3.678	1.125	0.871				
3			4.275		1.219				
4	14	1.062	4.177	1.375	1.121	1.0000-OIP-0.2L-DS	1.219		
5			4.489	1.562	1.371				
6									
7			4.177	1.375	1.121				
8	18	1.312	4.584	1.688	1.343	1.2500-OIP-0.2L-DS	1.469	.980	6.00
9	20	1.438	4.647	1.812	1.371	1.3750-OIP-0.2L-DS	1.562		
10			4.896	2.125					
11			4.647	1.812					
12									
13	22	1.562	4.896	2.125		1.5000-OIP-0.2L-DS	1.689		
14									
15	24	1.812	4.959	2.469	1.372	1.7500-OIP-0.2L-DS	1.938		
16									
17					1.309				
18									
19	28	2.062	5.021	2.625	1.371	2.0000-OIP-0.2L-DS	2.219		
20									
21									
22	32	2.312	5.083	2.953	1.370	2.5000-OIP-0.2L-DS	2.469		
23			5.385	3.171	1.375				
24			5.083	2.953	1.370				
25			5.385		1.375				
26	36	2.562	5.354	3.171	1.344	2.5000-OIP-0.2L-DS	2.719		
27									
28									
29									
30								5.385	3.375
31	40	2.875		3.625		2.7500-OIP-0.2L-DS	2.969		
32			5.682	3.500	1.421				
33					1.422				
34			5.620	3.375	1.422				

FIGURE 1. Style 1 adapter - Continued.

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Inches	mm	Inches	mm	Inches	mm	Inches	mm	Inches	mm
0.010	0.254	0.900	22.860	1.312	33.325	1.700	43.180	3.171	80.543
0.016	0.406	0.930	23.622	1.313	33.338	1.730	43.942	3.375	85.725
0.081	2.062	0.938	23.825	1.320	33.528	1.775	45.085	3.5	88.900
0.2	5.080	0.969	24.613	1.343	34.112	1.812	46.025	3.625	92.075
0.311	7.899	0.980	24.892	1.344	34.138	1.825	46.355	3.678	93.421
0.405	10.287	0.984	24.994	1.37	34.798	1.875	47.625	4.177	106.096
0.406	10.312	1.000	25.400	1.371	34.823	1.875	47.625	4.275	108.585
0.436	11.074	1.0000	25.400	1.372	34.849	1.938	49.225	4.489	114.021
0.479	12.167	1.055	26.797	1.375	34.925	1.984	50.394	4.584	116.434
0.500	12.700	1.062	26.975	1.375	34.925	2.000	50.800	4.605	116.967
0.511	12.979	1.094	27.788	1.391	35.331	2.062	52.375	4.647	118.034
0.530	13.462	1.105	28.067	1.391	35.331	2.063	52.388	4.896	124.358
0.531	13.487	1.109	28.169	1.406	35.712	2.125	53.975	4.959	125.959
0.605	15.367	1.121	28.473	1.421	36.093	2.250	57.150	5.00	127.000
0.625	15.875	1.125	28.575	1.422	36.119	2.2500	57.150	5.021	127.533
0.667	16.942	1.180	29.972	1.437	36.500	2.312	58.725	5.083	129.108
0.715	18.161	1.185	30.099	1.438	36.525	2.313	58.738	5.354	135.992
0.750	19.050	1.188	30.175	1.445	36.703	2.469	62.713	5.385	136.779
0.765	19.431	1.219	30.963	1.469	37.313	2.5000	63.500	5.620	142.748
0.787	19.990	1.230	31.242	1.5000	38.100	2.562	65.075	5.682	144.323
0.812	20.625	1.250	31.750	1.531	38.887	2.625	66.675	6.00	152.400
0.828	21.031	1.2500	31.750	1.546	39.268	2.719	69.063		
0.871	22.123	1.281	32.537	1.562	39.675	2.812	71.425		
0.875	22.225	1.309	33.249	1.605	40.767	2.875	73.025		
0.8750	22.225	1.310	33.274	1.689	42.901	2.969	75.413		

NOTE: Dimensions are in inches. Metric equivalents are given for information only. Unless otherwise specified, tolerance is $\pm .002$ (.05 mm).

FIGURE 1. Style 1 adapter - Continued.

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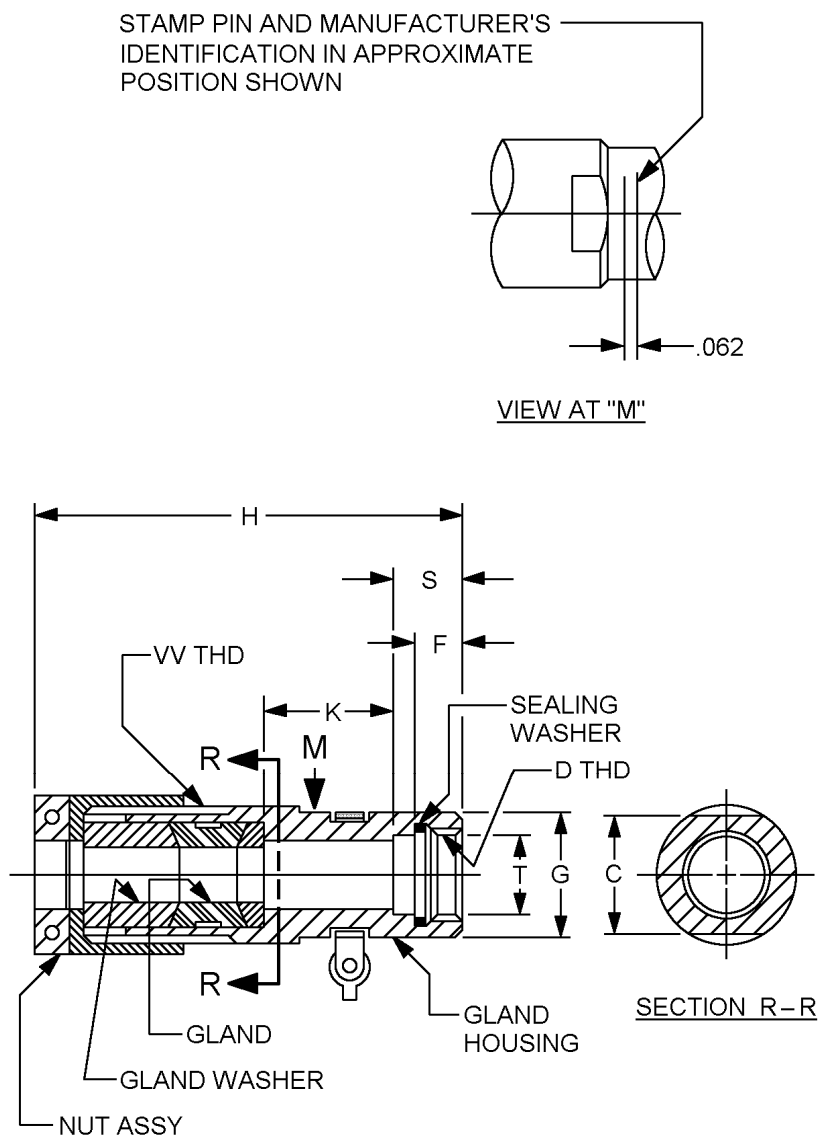


FIGURE 2. Style 2 adapter.

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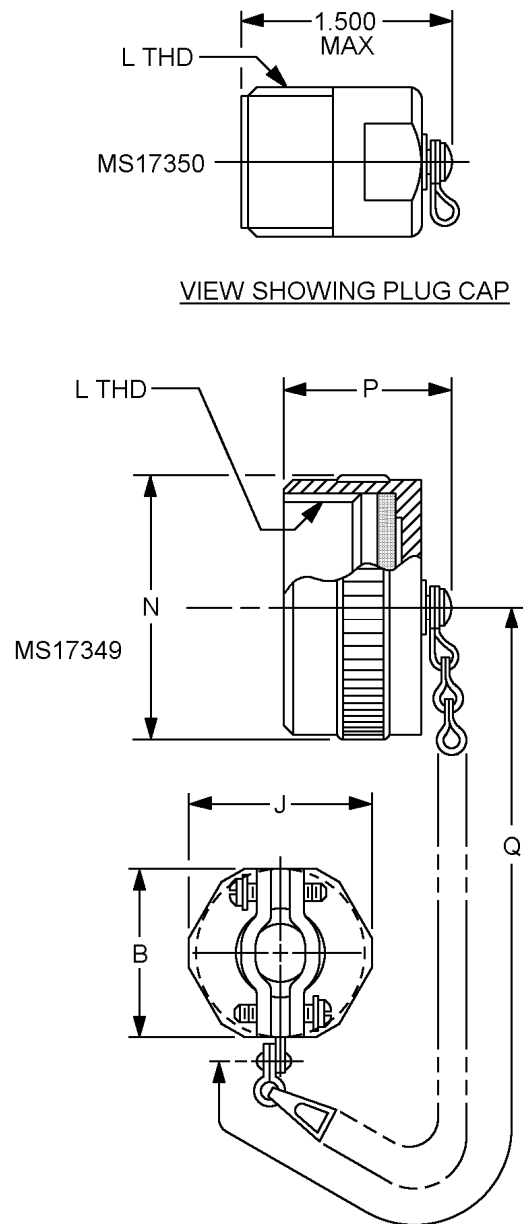


FIGURE 2. Style 2 adapter - Continued.

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Adapt size no.	Size	Cable range		B $\pm .005$	C + .000 - .010	D Thread class 2B – LH
		max	min			
1	12	.521	.321	1.219	.938	0.7500-20 UNEF
2	14	.646	.446	1.344	1.062	0.8750-20 UNEF
3	16	.765	.565	1.469	1.188	1.0000-20 UNEF
4	18	.890	.690	4.625	1.312	1.1250-18 NEF
5	20	1.015	.815	1.750	1.438	1.2500-18 NEF
6	22	1.180	.980	2.000	1.562	1.3750-18 NEF
7	24	1.430	1.230	2.250	1.812	1.6250-18 NEF
8		1.230	1.030			
9	28	1.670	1.430	2.500	2.062	1.8750-18 UN
10	32	1.860	1.660	2.750	2.312	2.0625-16 N
11	36	2.110	1.860	3.062	2.562	2.3125-16 N
12	40	2.400	2.200	3.437	2.875	2.6250-16 UN
13		2.200	2.000			

Adapt size no.	Size	F ± .016	G dia + .010 - .020	H max	J max	K ± .010	
1	12	.479	.938	4.000	1.320	.950	
2	14		1.062	4.100	1.420	1.075	
3	16		1.188	4.800	1.600	1.200	
4	18		1.312	4.900	1.750	1.325	
5	20		1.438		1.900		
6	22		1.562		2.190		
7	24		1.812	5.000	2.475	1.450	
8							
9	28		2.062	5.300	2.715	1.700	
10	32		2.312	5.600	2.900	1.950	
11	36		2.562	5.725	3.250		
12	40	.667	2.875		3.625		
13		.667	4.725				

FIGURE 2. Style 2 adapter - Continued.

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Adapter size no.	Size	L Thread Class 2a/b	N dia max	P max	Q See Req. 5 Approx	S ± .010	T dia ± .005	Vv Gland threads Class 2 – Lh		
1	12	.8750-0.1P-0.2I-DS	1.094	.765	5.00	1.425	.600	1.062-18 UNEF		
2	14	1.0000-0.1P.2L-DS	1.219	.765			.726	1.1875-18 NEF		
3	16	1.1250-0.1P-0.2L-DS	1.344	.980		1.605	.845	1.3125-18 NEF		
4	18	1.2500-0.1P-0.2L-DS	1.469				.970	1.4375-18 NEF		
5	20	1.3750-0.1P-0.2L-DS	1.562				1.095	1.5625-18 NEF		
6	22	1.5000-0.1P-0.2L-DS	1.688		1.220		1.8125-16 N			
7	24	1.7500-0.1P-0.2L-DS	1.938		6.00		1.470	2.0625-16 N		
8	24									
9	28	2.0000-0.1P-0.2L-DS	2.219						1.713	2.3125-16 N
10	32	2.2500-0.1P-0.2L-DS	2.469						1.900	2.5000-16 UN
11	36	2.5000-0.1P-0.2L-DS	2.719						2.150	2.8750-16 UN
12	40	2.7500-0.1P-0.2L-DS	2.969						2.460	3.1250-16 UN
13	40		2.969							

FIGURE 2. Style 2 adapter - Continued.

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Inches	mm	Inches	mm	Inches	mm	Inches	mm	Inches	mm
0.005	0.127	1.062	26.975	1.470	37.338	2.110	53.594	3.062	77.775
0.010	0.254	1.075	27.305	1.500	38.100	2.150	54.610	3.125	79.375
0.321	8.153	1.094	27.788	1.562	39.675	2.190	55.626	3.250	82.55
0.446	11.328	1.095	27.813	1.5625	39.688	2.200	55.880	3.437	87.30
0.479	12.167	1.125	28.575	1.600	40.640	2.219	56.363	3.625	92.075
0.521	13.233	1.180	29.972	1.605	40.767	2.250	57.150	4.000	101.60
0.565	14.351	1.188	30.175	1.660	42.164	2.312	58.725	4.100	104.14
0.600	15.240	1.200	30.480	1.670	42.418	2.3125	58.738	4.625	117.475
0.646	16.408	1.219	30.963	1.688	42.875	2.400	60.960	4.725	120.015
0.667	16.942	1.220	30.988	1.700	43.180	2.460	62.484	4.800	121.92
0.690	17.526	1.230	31.242	1.713	43.510	2.469	62.713	4.900	124.46
0.726	18.440	1.250	31.750	1.750	44.450	2.475	62.865	5.000	127.00
0.750	19.050	1.312	33.325	1.812	46.025	2.500	63.500	5.300	134.62
0.765	19.431	1.3125	33.338	1.8125	46.038	2.562	65.075	5.600	142.24
0.815	20.701	1.320	33.528	1.860	47.244	2.625	66.675	5.725	145.415
0.845	21.463	1.325	33.655	1.875	47.625	2.715	68.961	6.000	152.40
0.875	22.225	1.344	34.138	1.900	48.260	2.719	69.063		
0.890	22.606	1.375	34.925	1.938	49.225	2.750	69.85		
0.938	23.825	1.420	36.068	1.950	49.530	2.875	73.025		
0.950	24.130	1.425	36.195	2.000	50.800	2.900	73.66		
0.970	24.638	1.430	36.322	2.062	52.375	2.969	75.413		
0.980	24.892	1.4375	36.513	2.0625	52.388				
1.000	25.400	1.438	36.525						
1.015	25.781	1.450	36.830						
1.030	26.162	1.469	37.313						

NOTE: Dimensions are in inches. Metric equivalents are given for information only.
Unless otherwise specified, tolerance is $\pm .002$ (.05 mm).

FIGURE 2. Style 2 adapter - Continued.

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REQUIREMENTS:

Design and construction, see figures 1 and 2.

All dimensions are in inches. Unless otherwise specified, tolerance is $\pm .016$.

Style 1 adapters are for use with class R and C connectors and Style 2 adapters are for use with class R, C and J connectors.

Style 1 and 2 adapters are for use with connectors MS17343.

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

Adapter type shall be designated as A or B.

Type A is for use with connector MS17344.

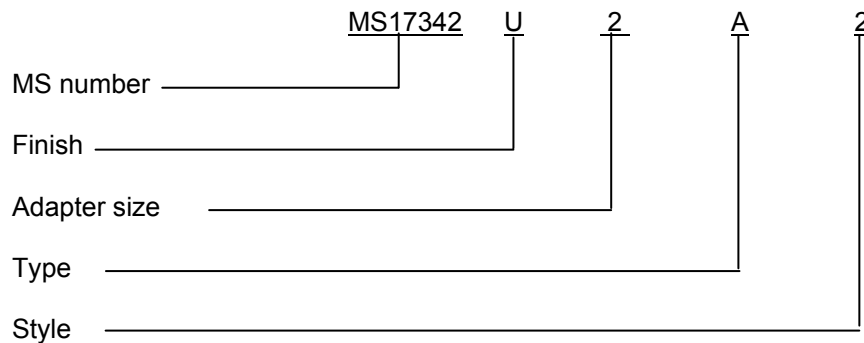
Type B is for use with connectors MS17343, MS71345 and MS17347.

Adapter, Cap and chain is considered a complete assembly.

It is intended that connectors and their associated accessories be of the same finish (see PIN).

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

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
 MS17350
 RR-C-271

MS17342C

CONCLUDING MATERIAL

Custodians:

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

Preparing activity:

DLA – CC

Review activity:

Army – CR4

(Project 5935–4719–004)

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