

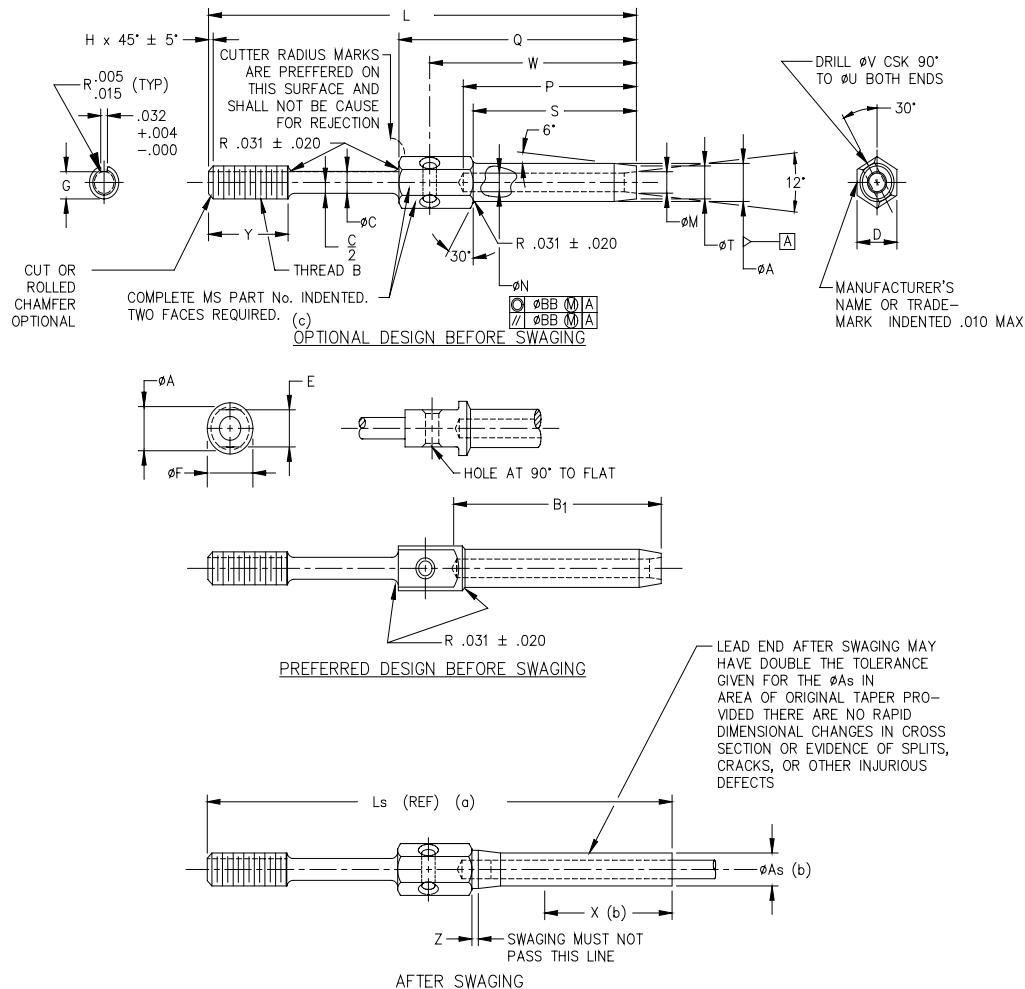
**INCH-POUND**

MS21260M  
w/Amendment 1  
1 April 2005  
SUPERSEDING  
MS21260M  
5 November 2001

**DETAIL SPECIFICATION SHEET****TERMINAL, WIRE ROPE, SWAGING STUD**

This specification sheet 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, MIL-DTL-781, and QPL-781.



- NOTES: (a) Reference dimensions are for design purposes only and are not an inspection requirement.  
(b) Swaged terminals shall conform to ' $\phi As$ ' for length X.  
(c) For terminal sizes -2 through -5, use basic part number only, example: MS21260.

**FIGURE 1. Terminal, wire rope, swaging stud.**

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**TABLE I. Dash numbers and dimensions.**

Dash number		Wire rope diameter		Minimum breaking strength lb <u>1</u> /	Thread B UN-3A UNF-3A	ØA		ØAs		
		Nominal reference	Minimum							
RH thread	LH thread									
L2RH	L2LH	1/16	0.062	480	0.1380 (# 6)-40	0.160	+0.000 -0.005	0.138	+0.000 -0.005	
S2RH	S2LH							0.190		
L3RH	L3LH							0.219		
S3RH	S3LH	3/32	0.093	920	0.1900 (#10)-32	0.218		0.250		
L4RH	L4LH							0.313		
S4RH	S4LH							0.375		
L5RH	L5LH	1/8	0.125	2000	0.2500 (1/4)-28	0.250		0.438	+0.000 -0.007	
S5RH	S5LH							0.500		
L6RH	L6LH							0.563		
S6RH	S6LH	5/32	0.156	2800	0.3125 (5/16)-24	0.359		0.625		
-7RH	-7LH							0.688		
-8RH	-8LH							0.750		
-9RH	-9LH	7/32	0.218	5600	0.3750 (3/8)-24	0.427		+0.000 -0.010	0.875	+0.000 -0.009
-10RH	-10LH	1/4	0.250	7000		0.494			1.000	
-12RH	-12LH	9/32	0.281	8000		0.563			1.109	
-14RH	-14LH	5/16	0.312	9800	0.6250 (5/8)-18	0.688	1.250		+0.000 -0.012	
-16RH	-16LH	3/8	0.375	14400	0.7500 (3/4)-16	0.844	1.359			
-18RH	-18LH	7/16	0.437	17600	0.8750 (7/8)-14	1.437	1.593			
-20RH	-20LH	1/2	0.500	22800	0.984	1.593	+0.000 -0.010		1.625	+0.000 -0.012
-24RH	-24LH	9/16	0.562	28500	1.0000 (1)-12	1.812			1.812	
-28RH	-28LH	5/8	0.625	35000	1.109	2.091			2.091	
-32RH	-32LH	3/4	0.750	49600	1.2500 (1 1/4)-12	2.362	+0.000 -0.010		2.362	+0.000 -0.012
-36RH	-36LH	7/8	0.875	66500	1.3750 (1 3/8)-12	2.642			2.642	
-40RH	-40LH	1	1.000	85400	1.5000 (1 1/2)-12	2.913			2.913	

1/ To achieve the minimum breaking strength, for the terminal test only, a galvanized carbon steel wire rope shall be used.

**TABLE I. Dash numbers and dimensions - Continued.**

Dash number		B <sub>1</sub>		ØC +0.006 -0.000	D	E +0.000 -0.010	ØF	G		H								
RH thread	LH thread							Maximum	Minimum	Maximum	Minimum							
L2RH	L2LH	1.042	±0.063	0.092	0.188	0.156	0.188.	0.1139	0.1094	0.031	0.015							
S2RH	S2LH																	
L3RH	L3LH																	
S3RH	S3LH	1.261		0.133	0.250	0.187	0.250	0.1638	0.1568	0.047								
L4RH	L4LH																	
S4RH	S4LH																	
L5RH	L5LH	1.511		0.195	0.313	0.250	0.313	0.2224	0.2152									
S5RH	S5LH																	
L6RH	L6LH																	
S6RH	S6LH	1.761		0.245	0.375	0.312	0.375	0.2830	0.2754									
-7RH	-7LH																	
-8RH	-8LH																	
-9RH	-9LH	2.011		0.306	0.438	0.375	0.438	0.3454	0.3378									
-10RH	-10LH				0.500	0.438	0.500											
-12RH	-12LH				0.361	0.625	0.563			0.625		0.4052	0.4072					
-14RH	-14LH	2.261		0.406	0.688	0.625	0.688	0.4678	0.4597	0.063		0.031						
-16RH	-16LH	2.511											0.476	0.750	0.688	0.750	0.5285	0.5201
-18RH	-18LH	2.761																
-20RH	-20LH	3.011		0.654	1.000	0.875	1.000	0.7137	0.7050									
-24RH	-24LH	3.511											0.768	1.125	1.000	1.125	0.8558	0.8266
-28RH	-28LH	4.011																
-32RH	-32LH	4.698	1.002	1.625	1.438	1.625	1.0819	1.0772										
-36RH	-36LH	5.011							1.128		1.875		1.625	1.812	1.2069	1.1972		
-40RH	-40LH	5.511															0.768	1.125
-44RH	-44LH	6.511	0.893	1.438	1.125	1.438	0.9608	0.9516										
-48RH	-48LH	7.166							1.002	1.625	1.438	1.625	1.0819	1.0772				
-52RH	-52LH	8.229													1.128	1.875	1.625	1.812
-56RH	-56LH	8.229	1.128	1.875	1.625	1.812	1.2069	1.1972										
-60RH	-60LH	8.229							1.128	1.875	1.625	1.812	1.2069	1.1972				
-64RH	-64LH	8.229													1.128	1.875	1.625	1.812
-68RH	-68LH	8.229	1.128	1.875	1.625	1.812	1.2069	1.1972										
-72RH	-72LH	8.229							1.128	1.875	1.625	1.812	1.2069	1.1972				
-76RH	-76LH	8.229													1.128	1.875	1.625	1.812
-80RH	-80LH	8.229	1.128	1.875	1.625	1.812	1.2069	1.1972										
-84RH	-84LH	8.229							1.128	1.875	1.625	1.812	1.2069	1.1972				
-88RH	-88LH	8.229													1.128	1.875	1.625	1.812
-92RH	-92LH	8.229	1.128	1.875	1.625	1.812	1.2069	1.1972										
-96RH	-96LH	8.229							1.128	1.875	1.625	1.812	1.2069	1.1972				
-100RH	-100LH	8.229													1.128	1.875	1.625	1.812
-104RH	-104LH	8.229	1.128	1.875	1.625	1.812	1.2069	1.1972										
-108RH	-108LH	8.229							1.128	1.875	1.625	1.812	1.2069	1.1972				
-112RH	-112LH	8.229													1.128	1.875	1.625	1.812
-116RH	-116LH	8.229	1.128	1.875	1.625	1.812	1.2069	1.1972										
-120RH	-120LH	8.229							1.128	1.875	1.625	1.812	1.2069	1.1972				
-124RH	-124LH	8.229													1.128	1.875	1.625	1.812
-128RH	-128LH	8.229	1.128	1.875	1.625	1.812	1.2069	1.1972										
-132RH	-132LH	8.229							1.128	1.875	1.625	1.812	1.2069	1.1972				
-136RH	-136LH	8.229													1.128	1.875	1.625	1.812
-140RH	-140LH	8.229	1.128	1.875	1.625	1.812	1.2069	1.1972										
-144RH	-144LH	8.229							1.128	1.875	1.625	1.812	1.2069	1.1972				
-148RH	-148LH	8.229													1.128	1.875	1.625	1.812
-152RH	-152LH	8.229	1.128	1.875	1.625	1.812	1.2069	1.1972										
-156RH	-156LH	8.229							1.128	1.875	1.625	1.812	1.2069	1.1972				
-160RH	-160LH	8.229													1.128	1.875	1.625	1.812
-164RH	-164LH	8.229	1.128	1.875	1.625	1.812	1.2069	1.1972										
-168RH	-168LH	8.229							1.128	1.875	1.625	1.812	1.2069	1.1972				
-172RH	-172LH	8.229													1.128	1.875	1.625	1.812
-176RH	-176LH	8.229	1.128	1.875	1.625	1.812	1.2069	1.1972										
-180RH	-180LH	8.229							1.128	1.875	1.625	1.812	1.2069	1.1972				
-184RH	-184LH	8.229													1.128	1.875	1.625	1.812
-188RH	-188LH	8.229	1.128	1.875	1.625	1.812	1.2069	1.1972										
-192RH	-192LH	8.229							1.128	1.875	1.625	1.812	1.2069	1.1972				
-196RH	-196LH	8.229													1.128	1.875	1.625	1.812
-200RH	-200LH	8.229	1.128	1.875	1.625	1.812	1.2069	1.1972										
-204RH	-204LH	8.229							1.128	1.875	1.625	1.812	1.2069	1.1972				
-208RH	-208LH	8.229													1.128	1.875	1.625	1.812
-212RH	-212LH	8.229	1.128	1.875	1.625	1.812	1.2069	1.1972										
-216RH	-216LH	8.229							1.128	1.875	1.625	1.812	1.2069	1.1972				
-220RH	-220LH	8.229													1.128	1.875	1.625	1.812
-224RH	-224LH	8.229	1.128	1.875	1.625	1.812	1.2069	1.1972										
-228RH	-228LH	8.229							1.128	1.875	1.625	1.812	1.2069	1.1972				
-232RH	-232LH	8.229													1.128	1.875	1.625	1.812
-236RH	-236LH	8.229	1.128	1.875	1.625	1.812	1.2069	1.1972										
-240RH	-240LH	8.229							1.128	1.875	1.625	1.812	1.2069	1.1972				
-244RH	-244LH	8.229													1.128	1.875	1.625	1.812
-248RH	-248LH	8.229	1.128	1.875	1.625	1.812	1.2069	1.1972										
-252RH	-252LH	8.229							1.128	1.875	1.625	1.812	1.2069	1.1972				
-256RH	-256LH	8.229													1.128	1.875	1.625	1.812
-260RH	-260LH	8.229	1.128	1.875	1.625	1.812	1.2069	1.1972										
-264RH	-264LH	8.229							1.128	1.875	1.625	1.812	1.2069	1.1972				
-268RH	-268LH	8.229													1.128	1.875	1.625	1.812
-272RH	-272LH	8.229	1.128	1.875	1.625	1.812	1.2069	1.1972										
-276RH	-276LH	8.229							1.128	1.875	1.625	1.812	1.2069	1.1972				
-280RH	-280LH	8.229													1.128	1.875	1.625	1.812
-284RH	-284LH	8.229	1.128	1.875	1.625	1.812	1.2069	1.1972										
-288RH	-288LH	8.229							1.128	1.875	1.625	1.812	1.2069	1.1972				
-292RH	-292LH	8.229													1.128	1.875	1.625	1.812
-296RH	-296LH	8.229	1.128	1.875	1.625	1.812	1.2069	1.1972										
-300RH	-300LH	8.229							1.128	1.875	1.625	1.812	1.2069	1.1972				
-304RH	-304LH	8.229													1.128	1.875	1.625	1.812
-308RH	-308LH	8.229	1.128	1.875	1.625	1.812	1.2069	1.1972										
-312RH	-312LH	8.229							1.128	1.875	1.625	1.812	1.2069	1.1972				
-316RH	-316LH	8.229													1.128	1.875	1.625	1.812
-320RH	-320LH	8.229	1.128	1.875	1.625	1.812	1.2069	1.1972										
-324RH	-324LH	8.229							1.128	1.875	1.625	1.812	1.2069	1.1972				
-328RH	-328LH	8.229													1.128	1.875	1.625	1.812
-332RH	-332LH	8.229	1.128	1.875	1.625	1.812	1.2069	1.1972										
-336RH	-336LH	8.229							1.128	1.875	1.625	1.812	1.2069	1.1972				
-340RH	-340LH	8.229													1.128	1.875	1.625	1.812
-344RH	-344LH	8.229	1.128	1.875	1.625	1.812	1.2069	1.1972										
-348RH	-348LH	8.229							1.128	1.875	1.625	1.812	1.2069	1.1972				
-352RH	-352LH	8.229													1.128	1.875	1.625	1.812
-356RH	-356LH	8.229	1.128	1.875	1.625	1.812	1.2069	1.1972										
-360RH	-360LH	8.229							1.128	1.875	1.625	1.812	1.2069	1.1972				
-364RH	-364LH	8.229													1.128	1.875	1.625	1.812
-368RH	-368LH	8.229	1.128	1.875	1.625	1.812	1.2069	1.1972										
-372RH	-372LH	8.229							1.128	1.875	1.625	1.812	1.2069	1.1972				
-376RH	-376LH	8.229													1.128	1.875	1.625	1.812
-380RH	-380LH	8.229	1.128	1.875	1.625	1.812	1.2069	1.1972										
-384RH	-384LH	8.229							1.128	1.875	1.625	1.812	1.2069	1.1972				
-388RH	-388LH	8.229													1.128	1.875	1.625	1.812
-392RH	-392LH	8.229	1.128	1.875	1.625	1.812	1.2069	1.1972										
-396RH	-396LH	8.229							1.128	1.875	1.625	1.812	1.2069	1.1972				
-400RH	-400LH	8.229													1.128	1.875	1.625	1.812
-404RH	-404LH	8.229	1.128	1.875	1.625	1.812	1.2069	1.1972										
-408RH	-408LH	8.229							1.128									

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TABLE I. Dash numbers and dimensions - Continued.

Dash number	L ±0.063	Ls reference	ØM		ØN		P		Q +0.031 -0.016	S +0.062 -0.000	ØT	
L2	3.491	3.67	0.090	+0.010 -0.000	0.078	+0.005 -0.000	1.042	+0.031 -0.000	1.319	0.969	0.138	+0.000 -0.005
S2	2.616	2.79										
L3	3.738	3.86	0.119		0.109		1.261		1.581	1.188	0.190	
S3	2.863	2.98										
L4	4.020	4.28	0.154		0.141		1.511		1.863	1.438	0.219	
S4	3.145	3.40										
L5	4.314	4.66	0.188		0.172		1.761		2.157	1.688	0.250	
S5	3.439	3.78										
L6	4.612	4.78	0.223		0.203		2.011		2.455	1.938	0.313	
S6	3.737	3.90										
-7	4.914	5.21	0.257		0.234		2.261		2.757	2.188	0.375	+0.000 -0.007
-8	5.218	5.52	0.291		0.265		2.511		3.061	2.438	0.438	
-9	5.542	5.90	0.326		0.297		2.761		3.385	2.688	0.500	+0.000 -0.008
-10	5.875	6.30	0.360		0.328		3.011		3.718	2.938	0.563	
-12	6.608	7.01	0.430	0.390	+0.008	3.511	4.281	3.438	0.625			
-14	7.468	7.94	0.514	0.468	-0.000	4.011	4.812	3.938	0.688			
-16	8.718	9.28	0.584	+0.012 -0.000	0.531	+0.009	4.698	5.562	4.625	0.750	+0.000	
-18	9.188	9.78	0.653		0.594	-0.000	5.011	6.000	4.938	0.875	-0.009	
-20	10.469	11.16	0.722		0.656	+0.010 -0.000	5.511	+0.062 -0.000	6.750	5.438	1.000	+0.000 -0.010
-24	12.188	12.76	0.860	0.781	+0.015 -0.000	6.511	7.938		6.438	1.250	+0.000 -0.012	
-28	12.851	13.61	1.013	0.921		+0.012 -0.000	7.166		8.601	7.094		1.437
-32	14.624	15.53	1.151	1.046		-0.000	8.229		9.844	8.156		1.625

TABLE I. Dash numbers and dimensions - Continued.

Dash number	ØU reference	ØV ±0.005	W ±0.016	X	Y ±0.047 2/	Z	ØBB	
				Minimum		Minimum		
L2	0.094	0.063	1.174	0.70	0.375	0.03	0.008 (0.016 FIM)	
S2								
L3			1.411	0.80	0.500			
S3								
L4	0.125	0.098	1.682	1.05	0.563			
S4								
L5			1.958	1.29	0.625			
S5								
L6			2.237	1.31	0.750			
S6								
-7			2.518	1.55	0.875			
-8			2.784	1.70				
-9			3.076	1.89	1.000			
-10			3.326	2.06				
-12			3.828	3.12	1.125			
-14			4.375	3.57	1.250			
-16	5.093	4.31						
-18	0.188	0.125	5.468	4.51	1.500		0.010 (0.020 FIM)	
-20			6.093	5.04	1.750			
-24			7.188	5.80	2.000			
-28			7.846	6.31				
-32			9.000	7.26			2.250	
								0.015 (0.030 FIM)
						0.020 (0.040 FIM)		

2/ Includes last full thread engagement.

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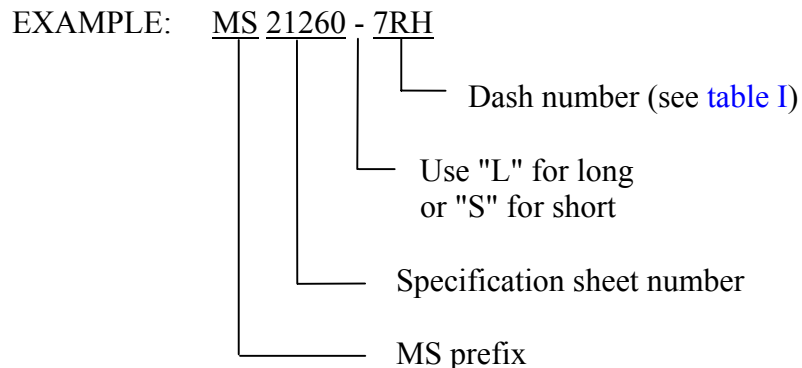
REQUIREMENTS:

1. Material: Material shall be in accordance with MIL-DTL-781
2. Finish: Finish shall be in accordance with MIL-DTL-781.
3. Threads: Threads shall be in accordance with FED-STD-H28/20.
4. Swage: Swage shall be in accordance with MIL-DTL-6117.
5. Tolerances: Unless otherwise specified, tolerances: decimals  $\pm 0.010$ , angles  $\pm 3^\circ$ .

NOTES:

(This section contains information of a general or explanatory nature that may be helpful, but is not mandatory.)

1. The part or identifying number (PIN) to be used for terminals acquired to this specification is created as shown below. An "L" in lieu of dash indicates long; an "S" in lieu of a dash indicates short. The two letters following the dash number or letters "L" or "R" indicates direction of thread (left or right hand).



MS21260L2RH Indicates - Terminal, 0.1380 (#6)-40 right hand thread, long.

MS21260-7RH Indicates - Terminal, 0.3750 (3/8)-24 right hand thread.

2. Dimensions are in inches.
3. Remove burrs and sharp edges. (See MIL-DTL-781.)
4. Interpret drawing in accordance with ASME Y14.5M.
5. In the event of a conflict between the text of this document and the references cited herein, the text of this document takes precedence.

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6. Unless otherwise specified, issues of reference documents are those in effect at the time of solicitation.

7. Interchangeability relationship: MS21260 parts can universally replace the canceled AN669 and NAS650 parts identified by the same dash number; but the canceled AN669 and NAS650 parts cannot replace the superseding MS21260 parts. MS21260 corrosion resistant steel parts can universally replace the canceled carbon and alloy steel parts identified by the same dash number.

8. Carbon and alloy steel parts are inactive for new design.

AMENDMENT ANNOTATIONS: The margins of this specification are marked with vertical lines to indicate where modifications from this amendment were made. 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.

Custodians:

Army - AR

Navy - AS

Air Force - 99

Preparing Activity:

DLA - GS5

(Project 1640-0013)

Review Activities:

Army - CR4

Navy - MC

Air Force - 71

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 database at <http://assist.daps.dla.mil/>.