

**INCH-POUND**

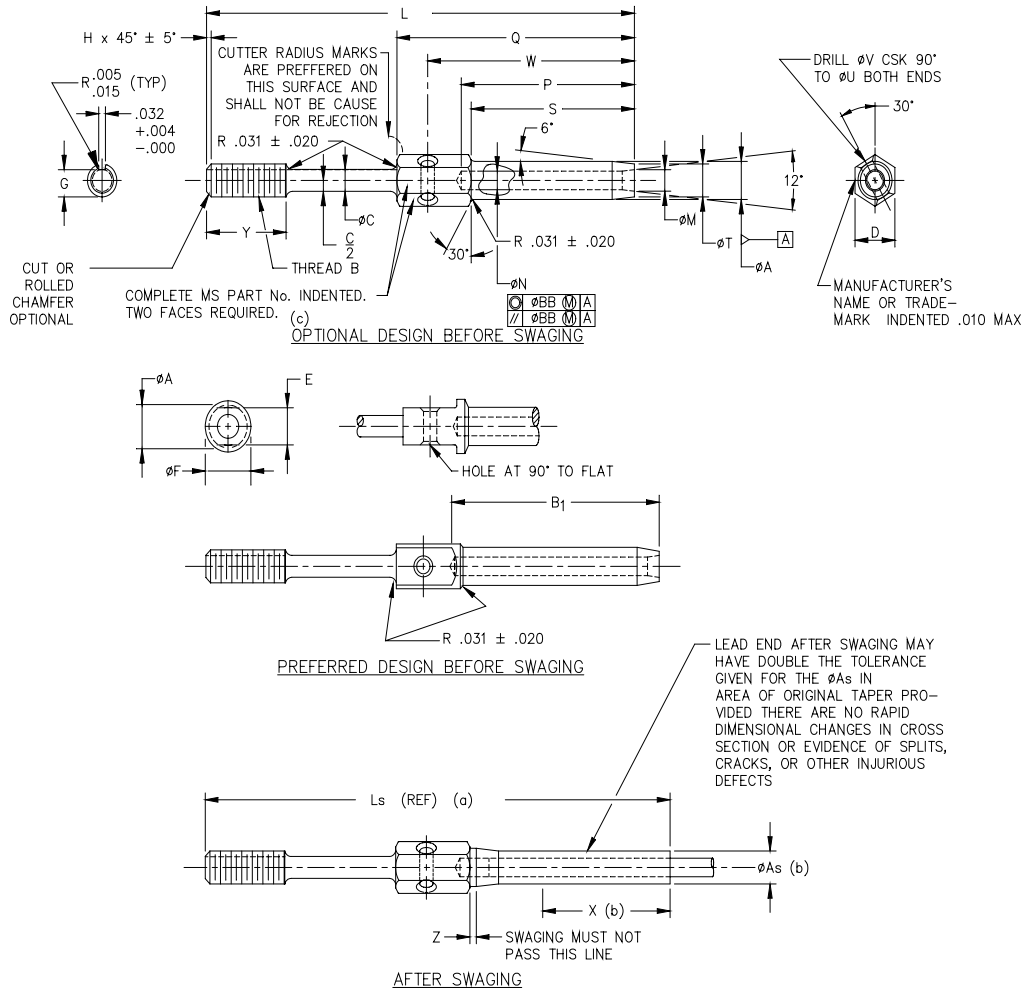
MS21260M  
w/Amendment 1  
1 April 2005  
SUPERSEDING  
MS21260M  
5 November 2001

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 ' $\phi A_s$ ' 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 <sub>1</sub> /	Thread B UN-3A UNF-3A	ØA		ØAs	
		Nominal reference	Minimum						
RH thread	LH thread	1/16	0.062	480	0.1380 (# 6)-40	0.160	+0.000 -0.005	0.138	+0.000 -0.005
L2RH	L2LH								
S2RH	S2LH	1/8	0.125	2000	0.2500 (1/4)-28	0.219			
L3RH	L3LH					5/32		0.156	
S3RH	S3LH	3/16	0.187	4200	0.3125 (5/16)-24				
L4RH	L4LH					7/32		0.218	
S4RH	S4LH	1/4	0.250	7000	0.3750 (3/8)-24				
L5RH	L5LH					9/32		0.281	
S5RH	S5LH	5/16	0.312	9800	0.5000 (1/2)-20				
L6RH	L6LH					3/8		0.375	
S6RH	S6LH	7/16	0.437	17600	0.6250 (5/8)-18		0.703		
-7RH	-7LH					1/2	0.500	22800	0.6250 (5/8)-18
-8RH	-8LH	9/16	0.562	28500	0.7500 (3/4)-16				
-9RH	-9LH					5/8	0.625	35000	0.8750 (7/8)-14
-10RH	-10LH	3/4	0.750	49600	1.0000 (1)-12				
-12RH	-12LH					7/8	0.875	66500	1.1250 (1 1/8)-12
-14RH	-14LH	1	1.000	85400	1.2500 (1 1/4)-12				
-16RH	-16LH					1	1.000	85400	1.2500 (1 1/4)-12
-18RH	-18LH	1	1.000	85400	1.2500 (1 1/4)-12				
-20RH	-20LH					1	1.000	85400	1.2500 (1 1/4)-12
-24RH	-24LH	1	1.000	85400	1.2500 (1 1/4)-12				
-28RH	-28LH					1	1.000	85400	1.2500 (1 1/4)-12
-32RH	-32LH	1	1.000	85400	1.2500 (1 1/4)-12				
-32RH	-32LH					1	1.000	85400	1.2500 (1 1/4)-12

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	
							Maximum	Minimum	Maximum	Minimum
RH thread	LH thread	1.042	0.092	0.188	0.156	0.188	0.1139	0.1094	0.031	0.015
L2RH	L2LH									
S2RH	S2LH	1.261	0.133	0.250	0.187	0.250	0.1638	0.1568	0.047	
L3RH	L3LH									
S3RH	S3LH	1.511	0.195	0.313	0.250	0.313	0.2224	0.2152		
L4RH	L4LH									
S4RH	S4LH	1.761	0.245	0.375	0.312	0.375	0.2830	0.2754		
L5RH	L5LH									
S5RH	S5LH	2.011	0.306	0.438	0.375	0.438	0.3454	0.3378		
L6RH	L6LH									
S6RH	S6LH	2.261	0.361	0.625	0.563	0.625	0.4052	0.4072		
-7RH	-7LH									
-8RH	-8LH	2.511	0.406	0.688	0.625	0.688	0.4678	0.4597		
-9RH	-9LH									
-10RH	-10LH	3.011	0.476	0.750	0.688	0.750	0.5285	0.5201		
-12RH	-12LH									
-14RH	-14LH	3.511	0.538	0.812	0.750	0.812	0.5909	0.5826		
-16RH	-16LH									
-18RH	-18LH	4.011	0.654	1.000	0.875	1.000	0.7137	0.7050		
-20RH	-20LH									
-24RH	-24LH	4.698	0.768	1.125	1.000	1.125	0.8558	0.8266		
-18RH	-18LH									
-28RH	-28LH	5.011	0.893	1.438	1.125	1.438	0.9608	0.9516		
-20RH	-20LH									
-32RH	-32LH	5.511	1.002	1.625	1.438	1.625	1.0819	1.0772		
-24RH	-24LH									
-28RH	-28LH	6.511	1.128	1.875	1.625	1.812	1.2069	1.1972		
-32RH	-32LH									
-28RH	-28LH	7.166	1.002	1.625	1.438	1.625	1.0819	1.0772		
-32RH	-32LH									
-32RH	-32LH	8.229	1.128	1.875	1.625	1.812	1.2069	1.1972		
-32RH	-32LH									

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TABLE I. Dash numbers and dimensions - Continued.

Dash number	L ±0.063	Ls reference	ØM		ØN		P		Q	S	ØT	
									+0.031 -0.016	+0.062 -0.000		
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									
S3	2.863	2.98										
L4	4.020	4.28	0.154									
S4	3.145	3.40										
L5	4.314	4.66	0.188									
S5	3.439	3.78										
L6	4.612	4.78	0.223									
S6	3.737	3.90										
-7	4.914	5.21	0.257	0.234	2.261	2.757	2.188	0.375	+0.000			
-8	5.218	5.52	0.291	0.265	2.511	3.061	2.438	0.438	-0.007			
-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 -0.000	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	0.531	+0.009 -0.000	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	6.750	5.438	1.000	+0.000 -0.010		
-24	12.188	12.76	0.860	0.781	+0.012 -0.000	6.511	+0.062 -0.000	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	Z	ØBB	
				Minimum	±0.047 2/	Minimum		
L2	0.094	0.063	1.174	0.70	0.375	0.03	0.008 (0.016 FIM)	
S2								
L3				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								
-9				3.076	1.89	1.000		
-10								
-12	3.326	2.06	1.125					
-14								
-16	4.375	3.57	1.250					
-18								
-20	0.188	0.125	5.093	4.31	1.500	0.010 (0.020 FIM)		
-18								
-24				6.093	5.04		1.750	
-28								
-32	7.188	5.80	2.000	0.015 (0.030 FIM)				
	7.846	6.31	2.000	0.020 (0.040 FIM)				
	9.000	7.26	2.250					

2/ Includes last full thread engagement.

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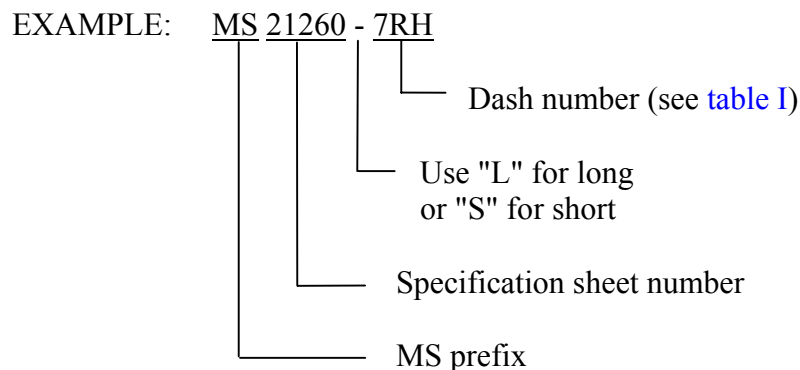
REQUIREMENTS:

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:

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Navy - AS  
Air Force - 99

Preparing Activity:

DLA - GS5

(Project 1640-0013)

Review Activities:

Army - CR4  
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