

INCH-POUND

MS20664F 10 January 2001 SUPERSEDING MS20664E 30 October 1999

MILITARY SPECIFICATION SHEET

BALL END, WIRE ROPE, SWAGING, SINGLE SHANK

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 and the issue of the following specification listed in that issue of the Department of Defense Index of Specifications and Standards (DoDISS) specified in the solicitation: MIL-DTL-781, QPL-781.

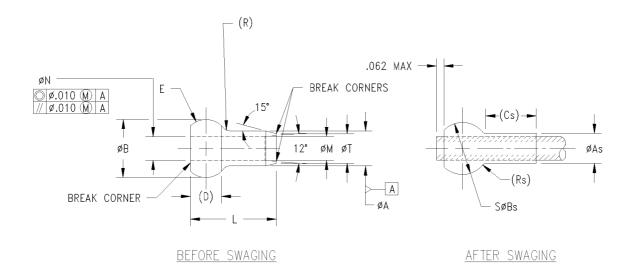


FIGURE 1. Ball end, wire rope, swaging, single shank.

AMSC N/A 1 of 3 FSC 1560

<u>DISTRIBUTION STATEMENT A.</u> Approved for public release; distribution is unlimited.



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TABLE I. Part numbers and dimensions.

MS part number	Wire rop	e diameter	Minimum breaking	ØA		ØAs		ØB		SØB _s spherical		C _s reference
Corrosion resistant steel	Nominal	Minimum	strength lb									
resistant steet												
MS20664C2	1/16	.062	480	.132		.112	+.000	.212		.190	+.000	.156
MS20664C3	3/32	.093	920	.168	+.000	.143	-, 003	.282	+.000	.253	003	.234
MS20664C4	1/8	.125	2,000	.223	004	.190	-, 003	.350	004	.315	003	.313
MS20664C5	5/32	.156	2,800	.259	004	.222	+.000	.424	004	.379	+.000	.391
							- ,004				004	
MS20664C6	3/16	.187	4,200	.298		.255	+,000	.492		.442	+.000	.469
MS20664C7	7/32	.218	5,600	.352	+.000	.302	005	.560	+.000	.505	+.000 005	.547
MS20664C8	1/4	.250	7,000	.406	005	.348	-, 003	.629	005	.567	003	.625
MS20664C9	9/32	.281	8,000	.444	003	.382	+,000	.699	005	.632	+,000	.750
MS20664C10	5/16	.312	9,800	.480		.413	007	.768		.694	007	.813

TABLE I. Part numbers and dimensions - Continued.

MS part number	D reference		E radius	L ±.005	ØM +.010	ØN		R radius	Rs radius	ØT +,000
Corrosion resistant steel	Telefo	chee	reference	1.003	-,000			reference	reference	010
MS20664C2	.114	+.000 003	.0825	.2685	.079	.073		.028	.014	.109
MS20664C3	.152	+.000 004	.110	.384	.114	.104	+.004 000	.037	.019	.141
MS20664C4	.1895		.137	.500	.152	.139	000	.046	.023	.188
MS20664C5	.2275		.165	.616	.185	.169		.056	.028	.219
MS20664C6	.2645	+.000	.192	.730	.221	.201		.065	.033	.250
MS20664C7	.3025	005	.220	.846		.233		.075	.038	.297
MS20664C8	.3395]003	.247	.962	<u>1</u> /	.264	+.005	.084	.042	.344
MS20664C9	.3775]	.275	1.078	1/	.297	000	.094	.046	.375
MS20664C10	.4145		.302	1.193		.328		.103	.046	.406

^{1/} No tapered bellmouth on -7, -8, -9, -10.

REQUIREMENTS:

- 1. Material: Material shall be in accordance with MIL-DTL-781.
- 2. Finish: Finish shall be in accordance with MIL-DTL-781.
- 3. Swage: Swage shall be in accordance with MIL-DTL-6117.
- 4. Tolerances: Unless otherwise specified, tolerances: decimals \pm .010, angles \pm 3°.

NOTES:

- 1. Dimensions are in inches.
- 2. Remove all burrs and sharp edges. (See procurement specification for definition.)
- 3. Interpret drawing in accordance with ASME Y14.5M.

^{2/} Reference dimensions are for design purposes only and are not an inspection requirement.



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- 4. In the event of a conflict between the text of this document and the references cited herein, the text of this document takes precedence.
- 5. Unless otherwise specified, issues of referenced documents are those in effect at the time of solicitation.
- 6. MS20664 and AN664 parts identified by the same dash numbers are universally, functionally and dimensionally interchangeable.
- 7. Corrosion resistant steel parts shall be used for new design and can be universally substituted for carbon and alloy steel parts as shown in table II. Carbon and alloy steel parts cannot be substituted for corrosion resistant steel parts.
 - 8. Carbon and alloy steel parts are inactive for new design.

TABLE II. Substitution table.

MS PART NUMBERS					
Corrosion	Carbon steel,				
resistant steel	cadmium plate				
MS20664C2	MS20664-2				
MS20664C3	MS20664-3				
MS20664C4	MS20664-4				
MS20664C5	MS20664-5				
MS20664C6	MS20664-6				
MS20664C7	MS20664-7				
MS20664C8	MS20664-8				
MS20664C9	MS20664-9				
MS20664C10	MS20664-10				

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.

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