



OPTIONAL DESIGNS

TABLE 1. DASH NUMBERS AND DIMENSIONS.

FOR USE WITH ZINC OR TIN COATED CARBON STEEL CABLE		FOR USE WITH CRES CABLE		CABLE SIZE	C MAXIMUM	D MAXIMUM	E MAXIMUM
ZINC COATED COPPER SLEEVE DASH NUMBER	PLAIN COPPER SLEEVE DASH NUMBER	TIN COATED COPPER SLEEVE DASH NUMBER	NOMINAL				
20	40	--	1/32	.094	.140	.310	
21	41	81	3/64	.140	.206	.440	
22	42	82	1/16	.180	.270	.440	
23	43	83	3/32	.240	.380	.440	
24	44	84	1/8	.340	.512	.750	
25	45	85	5/32	.370	.600	.750	
26	46	86	3/16	.450	.710	1.000	
27	47	87	7/32	.480	.740	.940	
28	48	88	1/4	.540	.840	1.190	
29	49	89	5/16	.680	1.030	1.125	
30	50	90	3/8	.750	1.143	1.312	
31	51	91	7/16	.870	1.320	1.813	
32	52	92	1/2	.980	1.490	1.940	
33	53	93	9/16	1.100	1.710	2.062	
34	54	94	5/8	1.200	1.880	2.440	
		FOR USE WITH CRES CABLE	CABLE SIZE	C MAXIMUM	D MAXIMUM	E MAXIMUM	
		CRES SLEEVE DASH NUMBER	NOMINAL	C MAXIMUM	D MAXIMUM	E MAXIMUM	
		60	1/32	.094	.143	.310	
		61	3/64	.140	.206	.440	
		62	1/16	.143	.236	.440	
		63	3/32	.190	.304	.440	
		64	1/8	.241	.387	.440	
		65	5/32	.322	.500	.750	
		66	3/16	.360	.567	1.000	
		67	7/32	.430	.667	.900	
		68	1/4	.460	.724	1.150	
		69	5/16	.690	1.070	1.440	
		70	3/8	.750	1.130	1.688	
		71	7/16	.940	1.380	1.813	
		72	1/2	1.000	1.440	2.062	
		73	9/16	1.190	1.750	2.312	
		74	5/8	1.250	1.820	2.440	
		75	3/4	1.440	2.250	3.062	

(C) ENTIRE STANDARD REVISED

P. A. AR Other Code SH 99	INTERNATIONAL INTEREST	TITLE SLEEVE, SWAGING-WIRE ROPE	MILITARY STANDARD MS 51844
PROCUREMENT SPECIFICATION NONE	SUPERSEDED	PAGE	1 OF 3

Review activities: ARMY - AT, AV, EA, GL, MI, NAVY - YD, AIR FORCE - 11, 82, DLA - 15

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APPROVED 10 MAY 68 REVISED (A) 15 SEPT 77 (B) 10 AUG 78 (C) 28 JUN 85

TABLE II. CROSS-REFERENCE TABLE.

MS REPLACEMENT NUMBER	MS NUMBER INACTIVE FOR NEW DESIGN
MS51844-62	MS51844-1
MS51844-64	MS51844-2
MS51844-66	MS51844-3
MS51844-68	MS51844-4
MS51844-90	MS51844-5
MS51844-92	MS51844-6
MS51844-94	MS51844-7

TABLE III. NOMINAL BREAKING STRENGTH.

CABLE SIZE	CONSTRUCTION	1) NOMINAL BREAKING STRENGTH (lbs)			
		MIL-W-83420 TYPE I		RR-W-410 TYPE I CLASS 2	
		ZINC OR TIN COATED CARBON STEEL COMP A	CORROSION RESISTANT STEEL COMP B	ZINC COATED CARBON STEEL	CORROSION RESISTANT STEEL
NOM					
1/32	3X7	110	110		
3/64	7X7	270	270		
1/16	7X7	480	480		
1/16	7X19	480	480		
3/32	7X7	920	920		
3/32	7X19	1000	920		
1/8	7X19	2000	1760		
5/32	7X19	2800	2400		
3/16	7X19	4200	3700		
7/32	7X19	5600	5000		
1/4	7X19	7000	6400		
5/16	7X19	9800	9000		
3/8	7X19	14400	12000		
7/16	6X19 IWRC			18360	16300
1/2	6X19 IWRC			24000	22800
9/16	6X19 IWRC			30200	28500
5/8	6X19 IWRC			37000	35000
3/4	6X19 IWRC			53000	49600

1) SEE NOTE 2. BREAKING STRENGTH

REQUIREMENTS:

1. MATERIAL:

STEEL, CORROSION-RESISTANT, TYPE 304 (UNS S30400) IN ACCORDANCE WITH ASTM A249 OR ASTM A269 OR TYPE 305 (UNS S30500) IN ACCORDANCE WITH ASTM A249 OR ASTM A511.
COPPER, TYPE 102 (UNS C10200), TYPE 103 (UNS C10300) OR TYPE 122 (UNS C12200) IN ACCORDANCE WITH ASTM B75.

2. PROTECTIVE COATING AND SURFACE TREATMENT:

STEEL, CORROSION-RESISTANT SLEEVE SHALL BE CLEANED, DESCALED AND PASSIVATED IN ACCORDANCE WITH ASTM A380.
ZINC COATED COPPER SLEEVE SHALL BE IN ACCORDANCE WITH ASTM B633, TYPE 1, Fe/Zn5 OR MIL-C-81562, TYPE 1, CLASS 6.
TIN COATED COPPER SLEEVE SHALL BE IN ACCORDANCE WITH MIL-T-10727, TYPE 1, .0003 INCH MINIMUM THICKNESS.

APPROVED 10 MAY 68 REVISION (C) FOR CHANGES SEE PAGES 1, 2 AND 3

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3. PART NUMBER:

THE MS PART NUMBER CONSISTS OF THE MS NUMBER PLUS THE APPLICABLE DASH NUMBER TAKEN FROM TABLE 1.

EXAMPLE:

MS51844-82-SLEEVE, SWAGING-WIRE ROPE, TIN COATED, COPPER SLEEVE FOR USE WITH 1/16 INCH NOMINAL SIZE CRES CABLE.

NOTES:

- 1- UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE IN INCHES.
- 2- NOMINAL BREAKING STRENGTH: EYE SPLICES, WHEN PROPERLY ASSEMBLED USING THE MANUFACTURER'S RECOMMENDED TOOLS AND SPLICING INSTRUCTIONS AND WHEN PULLED WITH INCREASING TENSION SHALL HOLD UNTIL WIRE ROPE BREAKS. IT IS PREFERRED THAT TENSILE LOADS AT FAILURE BE NOT LESS THAN 90 PERCENT OF THE BREAKING STRENGTH SPECIFIED IN TABLE 111.
- 3- IN ALL APPLICATIONS WHERE RR-W-410, TYPE 1, CLASS 2 WIRE ROPE IS BEING USED, PROOF TESTS SHOULD BE CONDUCTED TO DETERMINE IF ONE OR TWO SLEEVES ARE REQUIRED.
- 4- IN THE EVENT OF A CONFLICT BETWEEN THE TEXT OF THIS STANDARD AND THE REFERENCES CITED HEREIN, THE TEXT OF THIS STANDARD SHALL TAKE PRECEDENCE.
- 5- REFERENCED GOVERNMENT (OR NON GOVERNMENT) DOCUMENTS OF THE ISSUE LISTED IN THAT ISSUE OF THE DEPARTMENT OF DEFENSE INDEX OF SPECIFICATIONS AND STANDARDS (DDDIS) SPECIFIED IN THE SOLICITATION FORM A PART OF THIS STANDARD TO THE EXTENT SPECIFIED HEREIN.

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