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AS81044/8

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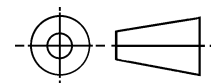
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THIRD ANGLE PROJECTION



ISSUED 2000-04 REAFFIRMED 2007-11

PREPARED BY SAE SUBCOMMITTEE AE-8D

SAE Aerospace
An SAE International Group

AEROSPACE STANDARD

WIRE, ELECTRIC, CROSSLINKED POLYALKENE
INSULATED, SILVER-COATED COPPER, MEDIUM
WEIGHT, 600-VOLT, 150°C

AS81044/8
SHEET 1 OF 3

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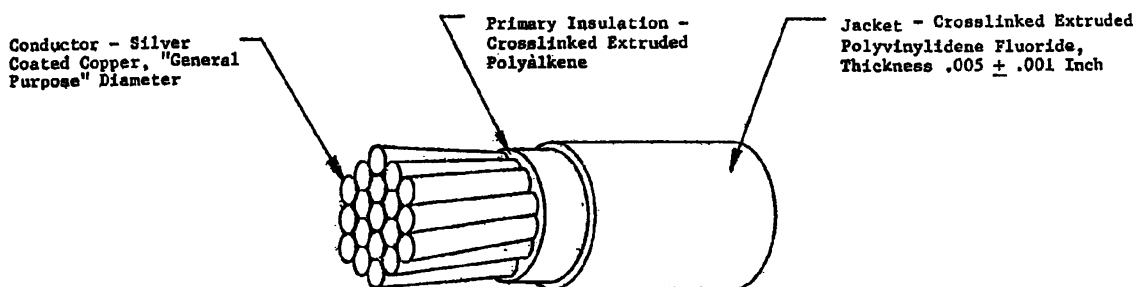


TABLE I. CONSTRUCTION DETAILS

Part No. <u>1/</u>	Wire size	Stranding (Number of strands X AWG gage of strands)	Diameter of stranded conductor (inches)		Finished wire				Jacket Thickness
			(min)	(max)	Resistance at 20°C (68°F) (ohms/1000 ft) (max)	Diameter (inches)	Weight (lbs/1000 ft)		
							(nom) <u>2/</u>	(max)	
M81044/8-24-*	24	19 X 36	.023	.025	24.3	.054 +.002	2.5	2.7	.005 ± .001
M81044/8-22-*	22	19 X 34	.029	.032	15.1	.062 +.003	3.7	3.9	.005 ± .001
M81044/8-20-*	20	19 X 32	.037	.040	9.19	.070 +.003	5.3	5.5	.005 ± .001
M81044/8-18-*	18	19 X 30	.046	.050	5.79	.080 +.003	7.7	8.0	.005 ± .001
M81044/8-16-*	16	19 X 29	.052	.057	4.52	.089 +.004	9.6	10.1	.005 ± .001
M81044/8-14-*	14	19 X 27	.065	.072	2.88	.108 +.004	14.8	15.5	.005 ± .001
M81044/8-12-*	12	37 X 28	.084	.089	1.90	.126 +.004	21.6	23.0	.005 ± .001
M81044/8-10-*	10	37 X 26	.106	.112	1.15	.155 +.005	34.0	35.7	.005 ± .001
M81044/8-8-*	8	133 X 29	.158	.169	.658	.214 +.006	59.7	62.8	.005 ± .001
M81044/8-6-*	6	133 X 27	.198	.213	.418	.264 +.007	91.4	99.3	.005 ± .001
M81044/8-4-*	4	133 X 25	.250	.268	.264	.320 +.008	145.	153.	.005 ± .001
M81044/8-2-*	2	665 X 30	.320	.340	.170	.400 +.012	227.	247.	.010 ± .002
M81044/8-0-*	0	1045 X 30	.405	.425	.108	.490 +.016	347.	377.	.010 ± .002

^{1/} PART NO.: The asterisks in the part number column, Tables I and II, shall be replaced by color code designators in accordance with MIL-STD-681. Examples: Size 20, white - M81044/8-20-9; white with orange stripe - M81044/8-20-93.

^{2/} Nominal values are for information only. Nominal values are not requirements.

TABLE II. PERFORMANCE DETAILS

Part No.	Abrasion resistance (Procedure I)				Bend testing				
	Resistance (inches of tape) (min) (initial and after immersion)	Weight support bracket	Weight (lbs)	Tension load (lbs)	Mandrel diameter (inches) (+3%)			Test load (lbs) (+3%)	
					Life cycle test and accelerated aging test ^{1/}	Cold bend test	Wrap test	Life cycle test and accelerated aging test ^{1/}	Cold bend test
M81044/8-24-8	12	A	1.0	1.0	.50	1.0	.250	0.5	3.0
M81044/8-22-8	22	A	1.0	1.0	.75	1.0	.250	1.5	3.0
M81044/8-20-8	22	A	1.0	1.0	.75	1.0	.250	2.0	4.0
M81044/8-18-8	22	A	1.0	1.0	1.00	1.5	.375	2.0	4.0
M81044/8-16-8	30	A	1.0	2.0	1.00	1.5	.375	2.0	5.0
M81044/8-14-8	13	B	3.0	2.0	1.50	2.0	.50	2.0	5.0
M81044/8-12-8	17	B	3.0	2.0	2.0	2.0	.50	2.0	5.0
M81044/8-10-8	20	B	3.0	3.0	3.0	3.0	.75	2.0	5.0
M81044/8-8-8	25	B	3.0	3.0	3.0	4.0	.75	3.0	6.0
M81044/8-6-8	25	C	3.0	4.0	4.0	5.0	1.00	3.0	10.0
M81044/8-4-8	33	C	4.25	4.0	5.0	6.0	1.25	3.0	10.0
M81044/8-2-8	34	C	4.25	5.0	6.0	8.0	3.0	4.0	15.0
M81044/8-0-8	48	C	4.25	5.0	8.0	10.0	4.0	4.0	15.0

^{1/} Also for bend tests after immersion.