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AS81044/13

FEDERAL SUPPLY CLASS
6145

NOTICE

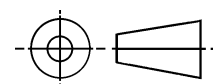
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THIRD ANGLE PROJECTION



ISSUED 2000-09 REAFFIRMED 2007-11

PREPARED BY SAE SUBCOMMITTEE AE-8D

SAE Aerospace
An SAE International Group

AEROSPACE STANDARD

WIRE, ELECTRIC, CROSSLINKED POLYALKENE
INSULATED, SILVER-COATED HIGH STRENGTH COPPER
ALLOY, LIGHT WEIGHT, 600-VOLT, 150°C

AS81044/13
SHEET 1 OF 3

THE COMPLETE REQUIREMENTS FOR PROCURING THE WIRE DESCRIBED HEREIN SHALL CONSIST OF THIS DOCUMENT AND THE ISSUE IN EFFECT OF SPECIFICATION MIL-W-81044.

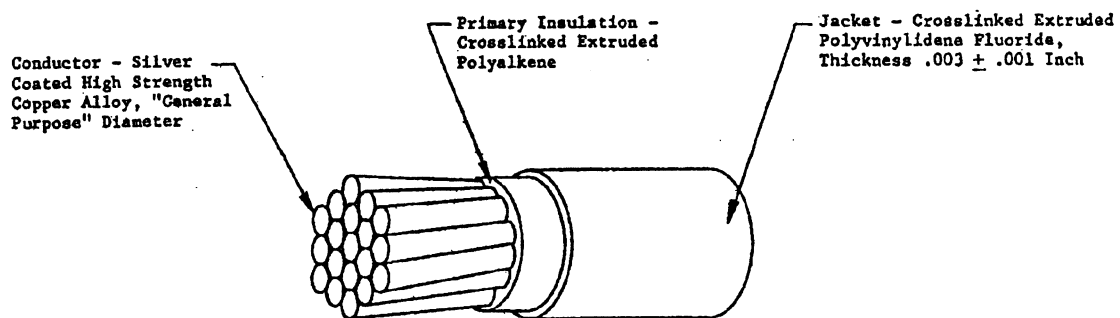


TABLE I. CONSTRUCTION DETAILS

Part No. 1/	Wire size	Stranding (Number of strands X AWG gage of strands)	Diameter of stranded conductor (inches)		Finished wire			
					Resistance at 20°C (68°F) (ohms/1000 ft) (max)	Diameter (inches)	Weight (lbs/1000 ft)	
			(min)	(max)			(nom) 2/	(max)
M81044/13-30-*	30	7 X 38	.011	.012	117.4	.027 ±.002	.67	.71
M81044/13-28-*	28	7 X 36	.014	.015	74.4	.030 ±.002	.91	.96
M81044/13-26-*	26	19 X 38	.018	.020	44.8	.034 ±.002	1.3	1.4
M81044/13-24-*	24	19 X 36	.023	.025	28.4	.040 ±.002	2.0	2.1
M81044/13-22-*	22	19 X 34	.029	.032	17.5	.047 ±.002	2.9	3.1
M81044/13-20-*	20	19 X 32	.037	.040	10.7	.055 ±.002	4.4	4.6

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 - M81044/13-20-9; white with orange stripe - M81044/13-20-93.

2/ Nominal values are for information only. Nominal values are not requirements.

TABLE II. PERFORMANCE DETAILS

Part No.	Abrasion resistance (Procedure II)				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
M81044/13-30-*	18	A	.19	1.0	.375	.375	.188	.25	.50
M81044/13-28-*	20	A	.19	1.0	.375	.375	.188	.25	.50
M81044/13-26-*	22	A	.19	1.0	.50	.50	.250	.25	.50
M81044/13-24-*	18	A	.38	1.0	.50	.50	.250	.38	.50
M81044/13-22-*	20	A	.38	1.0	.75	.75	.250	.38	1.0
M81044/13-20-*	22	A	.38	1.0	.75	.75	.250	.38	1.0

1/ Also for bend tests after immersion.