

REV.
A

AS81044™/10

FEDERAL SUPPLY CLASS
6145

RATIONALE

AS81044/10A HAS BEEN REAFFIRMED TO COMPLY WITH THE SAE FIVE-YEAR REVIEW POLICY.

NOTICE

THE REQUIREMENTS FOR ACQUIRING THE COMPONENTS DESCRIBED HEREIN SHALL CONSIST OF THIS SPECIFICATION AND THE LATEST ISSUE OF AS81044.

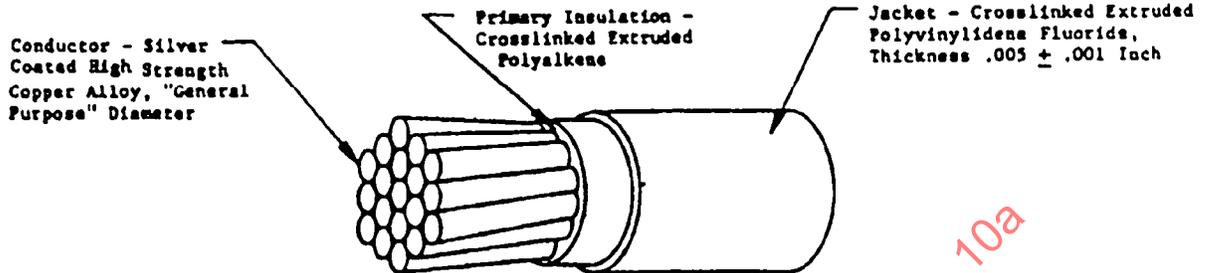


FIGURE 1 – AS81044/10 CONSTRUCTION

TABLE 1 – CONSTRUCTION DETAILS

PART NO. 1/	WIRE SIZE	STRANDING (NUMBER OF STRANDS X AWG GAGE OF STRANDS)	DIAMETER OF STRANDED CONDUCTOR (INCHES)		FINISHED WIRE			
			(MIN)	(MAX)	RESISTANCE AT 20 °C (68 °F) (OHMS/1000 FT) (MAX)	DIAMETER (INCHES)	WEIGHT (LBS/1000 FT)	
							(NOM) 2/	(MAX)
M81044/10-26-*	26	19 X 38	.018	.020	44.8	.048 ± .002	1.8	1.9
M81044/10-24-*	24	19 X 36	.023	.025	28.4	.054 ± .002	2.5	2.7
M81044/10-22-*	22	19 X 34	.029	.032	17.5	.062 ± .003	3.7	3.9
M81044/10-20-*	20	19 X 32	.037	.040	10.7	.070 ± .003	5.3	5.5

1/ PART NO.: THE ASTERISKS IN THE PART NUMBER COLUMN, TABLES 1 AND 2, SHALL BE REPLACED BY COLOR CODE DESIGNATORS IN ACCORDANCE WITH MIL-STD-681. EXAMPLES: SIZE 20, WHITE – M81044/10-20-9; WHITE WITH ORANGE STRIPE – M81044/10-20-93.

2/ NOMINAL VALUES ARE FOR INFORMATION ONLY. NOMINAL VALUES ARE NOT REQUIREMENTS.

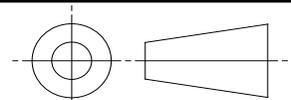
TABLE 2 – PERFORMANCE DETAILS

PART NO.	BEND TESTING				
	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
M81044/10-26-*	.58	1.0	.25	0.5	3.0
M81044/10-24-*	.50	1.0	.25	0.5	3.0
M81044/10-22-*	.75	1.0	.25	1.5	3.0
M81044/10-20-*	.75	1.0	.25	2.0	4.0

1/ ALSO FOR BEND TESTS AFTER IMMERSION.

For more information on this standard, visit
<https://www.sae.org/standards/content/AS81044/10A/>

THIRD ANGLE PROJECTION



CUSTODIAN: AE-8D

PROCUREMENT SPECIFICATION: AS81044



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

AS81044™/10
 SHEET 1 OF 2

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ISSUED 2000-09 REVISED 2011-12 REAFFIRMED 2022-07