

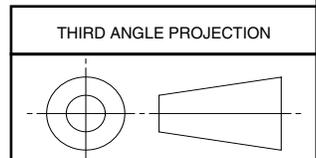
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CUSTODIAN: AE-8/AE-8D

PROCUREMENT SPECIFICATION: MIL-W-81822



**AEROSPACE STANDARD**

WIRE, ELECTRICAL, SOLDERLESS WRAP, POLYIMIDE COATING OVER EXTRUDED POLYTETRAFLUOROETHYLENE (PTFE) INSULATION, SILVER COATED SOLID CONDUCTOR

**AS81822/4**  
SHEET 1 OF 3

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**AS81822/4**



Silver coated solid conductor

Extruded polytetrafluoroethylene (PTFE)

Polyimide coating  
0.001 ± 0.0005 inch

TABLE I. CONSTRUCTION AND PERFORMANCE DETAILS

PART NO. 1/	WIRE SIZE (AWG)	FINISHED WIRE DIAMETER (INCHES)	FINISHED WEIGHT (LB/1,000 FT) (MAX)	CUT-THROUGH LOAD (GRAMS)	BEND TESTING			INSULATION PULL-OFF (LBS)
					MANDREL DIAMETER (INS.)		TENSION LOAD (LBS)	
					HEAT RESISTANCE	COLD BEND	COLD BEND	
M81822/4-X30-*	30	0.0195 ± .0010	0.55	500	1/16	1.0	0.25	0.15 TO 2.5
M81822/4-X28-*	28	0.0265 ± .0015	0.96	525	5/64	1.0	0.50	0.15 TO 2.5
M81822/4-X26-*	26	0.0295 ± .0015	1.32	550	3/32	1.0	0.50	0.25 TO 4
M81822/4-X24-*	24	0.0340 ± .0015	1.91	575	7/64	1.0	0.50	0.5 TO 4
M81822/4-X22-*	22	0.0390 ± .0020	2.80	600	1/8	1.0	0.75	0.5 TO 6
M81822/4-X20-*	20	0.0460 ± .0020	4.19	650	9/64	1.0	0.75	0.5 TO 6
M81822/4-X18-*	18	0.0540 ± .0030	6.34	700	11/64	1.0	1.00	0.5 TO 6

1/ PART NO.: THE "X" IN THE GENERALIZED PART NUMBERS OF TABLE I SHALL BE REPLACED BY THE DESIGNATOR FOR THE CONDUCTOR TYPE AND THE ASTERISK SHALL BE REPLACED BY THE CODE DESIGNATOR FOR THE INSULATION COLOR. EXAMPLE: SIZE 22 WIRE WITH TYPE A (SOFT ANNEALED COPPER) CONDUCTOR AND BLACK INSULATION - M81822/4-A22-0.