

AS81822/15

FEDERAL SUPPLY CLASS
6145

NOTICE

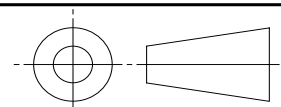
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THIRD ANGLE PROJECTION



CUSTODIAN: AE-8/AE-8D

PROCUREMENT SPECIFICATION: MIL-W-81822

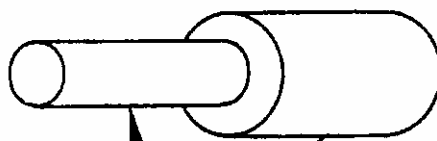
SAEAerospace
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AEROSPACE STANDARD

WIRE, ELECTRICAL, SOLDERLESS WRAP, EXTRUDED
ETHYLENE-CHLOROTRIFLUOROETHYLENE (ECTFE)
INSULATION, SILVER COATED SOLID CONDUCTOR

AS81822/15
SHEET 1 OF 3

ISSUED 2004-04



Silver coated solid conductor

Extruded ethylene-chlorotrifluoroethylene (ECTFE)

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	
M81822/15-X30-*	30	0.0195 ± .0010	0.51	650	1/16	1.0	0.25	0.4 TO 2.5
M81822/15-X28-*	28	0.0265 ± .0015	0.88	850	5/64	1.0	0.50	0.5 TO 2.5
M81822/15-X28V*	28	0.0230 ± .0015	0.77	680	5/64	1.0	0.50	0.5 TO 2.5
M81822/15-X26-*	26	0.0295 ± .0015	1.22	900	3/32	1.0	0.50	1 TO 4
M81822/15-X26V*	26	0.0260 ± .0015	1.11	720	3/32	1.0	0.50	1 TO 4
M81822/15-X24-*	24	0.0340 ± .0015	1.80	950	7/64	1.0	0.50	1 TO 4
M81822/15-X24V*	24	0.0300 ± .0015	1.64	760	7/64	1.0	0.50	1 TO 4
M81822/15-X22-*	22	0.0390 ± .0020	2.66	1000	1/8	1.0	0.75	1 TO 6
M81822/15-X20-*	20	0.0460 ± .0020	4.03	1100	9/64	1.0	0.75	1 TO 6
M81822/15-X18-*	18	0.0540 ± .0030	6.13	1200	11/64	1.0	1.00	1 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 WHITE INSULATION - M81822/15-A22-9.