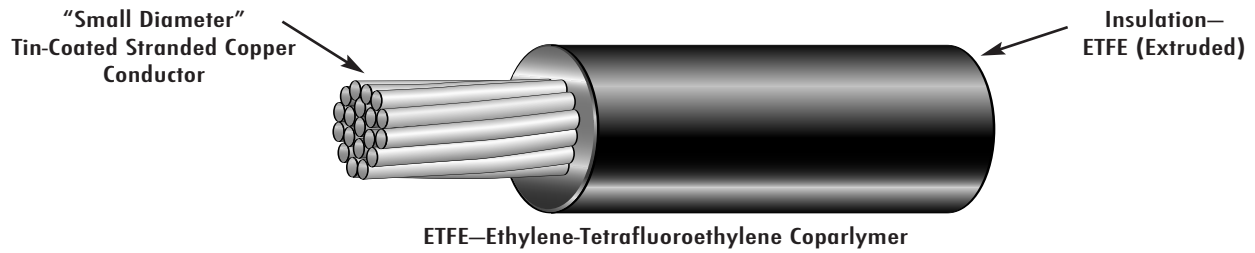




M22759

Wire, Electric, Fluoropolymer-Insulated, Extruded ETFE,
Medium Weight, Tin-Coated Copper Conductor, 800-VOLT, 150°C



Military Specifications

This specification is approved
for use by all Departments
and Agencies of the Department

of Defense. The complete
requirements for procuring the
wire described herein shall consist

of this document and the issue in
effect of Specification MIL-W-22759.

Construction Details (Table I)

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.) Max.
M22759/16-20-*	20	19 x 32	.037	.039	9.88	.060 ± .002	5.36
M22759/16-18-*	18	19 x 30	.046	.049	6.23	.071 ± .002	7.89
M22759/16-16-*	16	19 x 29	.052	.055	4.81	.079 ± .002	9.95
M22759/16-14-*	14	19 x 27	.065	.069	3.06	.093 ± .002	14.9
M22759/16-12-*	12	37 x 28	.084	.089	2.02	.114 ± .003	22.6
M22759/16-10-*	10	37 x 26	.106	.112	1.26	.139 ± .003	35.1
M22759/16-8-*	8	133 x 29	.158	.169	.701	.199 ± .003	63.5
M22759/16-6-*	6	133 x 27	.198	.212	.445	.250 ± .003	99.9
M22759/16-4-*	4	133 x 25	.250	.268	.280	.312 ± .004	157.

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 — M22759/16-20-g; White with Orange Stripe — M22759/16-20-g3.

Bend Test Mandrels and Test Loads (Table II)

Part No.	Mandrel Diameter (Inches) (±3%)			Test Load (lbs.) (±3%)	
	Life Cycle Test and Short Term Thermal Stability Test 1/	Cold Bend Test	Wrap Test 2/	Life Cycle Test and Short-Term Thermal Stability Test 1/	Cold Bend Test
M22759/16-20-*	.75	1.00	—	2.0	4.0
M22759/16-18-*	1.00	1.25	—	2.0	4.0
M22759/16-16-*	1.00	1.25	—	3.0	5.0
M22759/16-14-*	1.25	2.00	—	2.0	5.0
M22759/16-12-*	2.00	2.00	—	2.0	5.0
M22759/16-10-*	3.00	3.00	—	2.0	5.0
M22759/16-8-*	3.00	4.00	—	3.0	6.0
M22759/16-6-*	4.00	5.00	—	3.0	10.0
M22759/16-4-*	5.00	6.00	—	3.0	10.0
M22759/16-2-*	6.00	8.00	1.25	4.0	15.0

1/Also for bend tests after immersion. 2/Use mandrel for wire size 2 and larger in "wrap back" test.

