

INCH-POUND

MS25471F

19 October 2011

SUPERSEDING

MS25471E

06 December 2004

DETAIL SPECIFICATION SHEET

WIRE, ELECTRICAL, SILICONE-INSULATED, COPPER,  
600 VOLT, 200 DEG. C, POLYESTER JACKET

Inactive for new design after 1 June 1998.

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

The requirements for acquiring the product described herein shall consist of this specification sheet and  
MIL-DTL-8777.

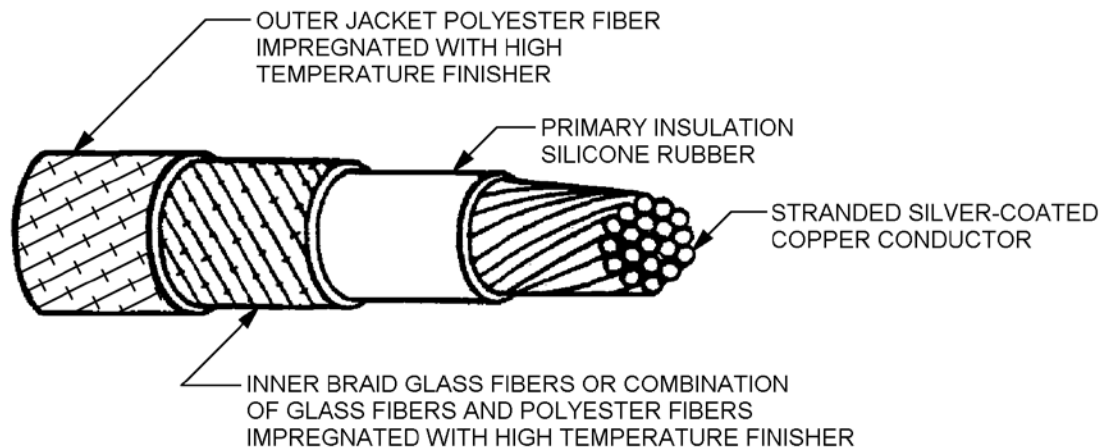


FIGURE 1. Cable.

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TABLE I. Performance details.

Wire size	Abrasion test				Flaws test		Insulation and surface resistance			Life cycle and cold bend		
	Resistance, inches of tape min.	Tension load lbs.	Weight support bracket	Weight lbs.	Min ac voltage 60 Hz rms		Humidity resistance megohms per 200 feet min.	Insulation resistance megohms per 50 feet min.	Surface resistance megohm inches min	Mandrel diameter inches max		Test load life cycle cold bend lbs
					Primary insulation	Finished wire				Life cycle	Cold bend	
22	22	1	A	1	2000	5000	500	100	5.0	4.5	3	.75
20	22	1	A	1	2000	5000	500	100	5.0	4.5	3	.75
18	22	1	A	1	2000	5000	500	100	5.0	4.5	3	1.0
16	30	2	A	1	2000	5000	500	100	5.0	6.5	3	1.0
14	13	2	B	3	2000	5000	500	100	5.0	6.5	6	1.0
12	17	2	B	3	2000	5000	500	100	5.0	6.5	6	3.0
10	20	2	B	3	3000	5000				10	6	3.0
8	25	2	B	3	3000	5000				10	6	3.0
6	25	2	C	3	4000	5000				10	10	6.0
4	33	2	C	4.25	4000	5000				10	10	6.0
2	34	2	C	4.25	4000	5000				10	10	6.0
1	35	2	C	4.25	4000	5000				10	18	6.0
0	48	2	C	4.25	4000	5000				10	18	10.0
00	48	2	C	4.25	4000	5000				10	18	10.0

TABLE II. Finished wire construction.

Dash	Wire size	Number of strands	Max diameter of stranded conductor	Max resistance at 20°C (68°F) ohms/1000 ft	Diameter	Max. weight lbs/1000 ft
22	22	19	.033	15.2	.085 ± .005	5.8
20	20	19	.041	9.42	.095 ± .005	7.8
18	18	19	.052	6.03	.110 ± .005	10.8
16	16	19	.060	4.76	.125 ± .005	13.5
14	14	19	.074	2.99	.143 ± .007	20.0
12	12	19	.093	1.88	.163 ± .007	29.0
10	10	49	.128	1.16	.193 ± .007	45.0
8	8	133	.176	.70	.248 ± .007	72.0
6	6	133	.218	.436	.303 ± .007	107.0
4	4	133	.272	.274	.360 ± .010	165.0
2	2	665	.345	.179	.425 ± .010	262.0
1	1	817	.384	.144	.460 ± .010	317.0
01	0	1045	.432	.114	.535 ± .015	390.0
02	00	1330	.490	.090	.585 ± .015	500.0

