

MIL-W-22759/7, /8 wire—mineral-filled PTFE insulation—medium wall

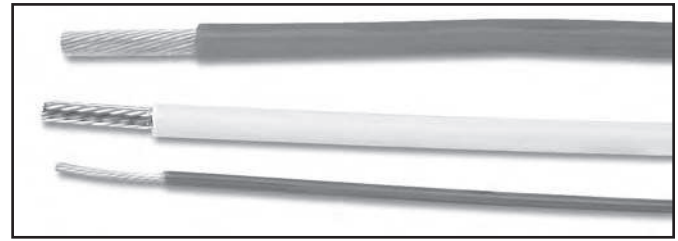
MIL-W-22759/7 and /8 wires have reduced weight, mineral-filled PTFE insulation for high-temperature applications such as aircraft engines, SWAMP zones, and others where increased abrasion resistance is required. These wires are reduced-weight versions of MIL-W-22759/5 and /6.

See page 68 for a selection of M27500 shielded and jacketed cables incorporating these wires.

Performance:

Voltage rating: 600V.

Temperature rating: /7: -55 to 200° C
/8: -55 to 260° C



Construction Details

Insulation: Extruded PTFE with abrasion-resistant mineral fillers.

Conductor: /7: Silver-plated copper;
/8: Nickel-plated copper.

Colors: Color coded to MIL-STD-104.

Identification: to M22759.

Dimensions, Resistance, and Weights—M22759/7 (silver-plated conductor)

M22759 P/N	AWG Size	Stranding	Conductor Diameter	Insulation Diameter		Weight	Maximum Resistance	Thermax P/N
				Minimum	Maximum			
M22759/7-8-*	8	133/29	.162 (4.11)	.215 (5.46)	.225 (5.72)	67.6 (101)	.658 (2.16)	8-AF2XT-13329
M22759/7-10-*	10	37/26	.108 (2.74)	.154 (3.91)	.162 (4.11)	37.4 (55.7)	1.19 (3.90)	10-AF2XT-3726
M22759/7-12-*	12	19/25	.086 (2.18)	.131 (3.33)	.137 (3.48)	25.7 (38.3)	1.81 (5.94)	12-AF2XT-1925
M22759/7-14-*	14	19/27	.067 (1.70)	.112 (2.84)	.118 (3.00)	17.3 (25.8)	2.88 (9.45)	14-AF2XT-1927
M22759/7-16-*	16	19/29	.053 (1.35)	.099 (2.51)	.105 (2.67)	12.7 (18.9)	4.52 (14.8)	16-AF2XT-1929
M22759/7-18-*	18	19/30	.047 (1.19)	.090 (2.29)	.094 (2.39)	10.2 (15.2)	5.79 (19.0)	18-AF2XT-1930
M22759/7-20-*	20	19/32	.038 (.97)	.080 (2.03)	.084 (2.13)	7.30 (10.9)	9.19 (30.1)	20-AF2XT-1932
M22759/7-22-*	22	19/34	.030 (.76)	.071 (1.80)	.075 (1.91)	5.00 (7.44)	15.1 (49.5)	22-AF2XT-1934
M22759/7-24-*	24	19/36	.024 (.61)	.060 (1.52)	.064 (1.63)	3.70 (5.51)	24.3 (79.7)	24-AF2XT-1936

Dimensions in inches (mm). Weights in pounds/1000 feet (Kg/1000 M). Resistance in Ω /1,000 feet (Ω /Km), @20° C.

All values are nominal unless otherwise indicated.

* Add color coding per MIL-STD-104 (see page 36).

Dimensions, Resistance, and Weights—M22759/8 (nickel-plated conductor)

M22759 P/N	AWG Size	Stranding	Conductor Diameter	Insulation Diameter		Weight	Maximum Resistance	Thermax P/N
				Minimum	Maximum			
M22759/8-8-*	8	133/29	.163 (4.14)	.215 (5.46)	.225 (5.72)	69.6 (104)	.694 (2.28)	8-AF2XTN-13329
M22759/8-10-*	10	37/26	.109 (2.77)	.154 (3.91)	.162 (4.11)	38.4 (57.2)	1.24 (4.07)	10-AF2XTN-3726
M22759/8-12-*	12	19/25	.086 (2.18)	.131 (3.33)	.137 (3.48)	28.7 (42.8)	1.89 (6.20)	12-AF2XTN-1925
M22759/8-14-*	14	19/27	.067 (1.70)	.112 (2.84)	.118 (3.00)	18.1 (27.0)	3.00 (9.84)	14-AF2XTN-1927
M22759/8-16-*	16	19/29	.053 (1.35)	.099 (2.51)	.105 (2.67)	13.0 (19.4)	4.76 (15.6)	16-AF2XTN-1929
M22759/8-18-*	18	19/30	.047 (1.19)	.090 (2.29)	.094 (2.39)	10.4 (15.5)	6.10 (20.0)	18-AF2XTN-1930
M22759/8-20-*	20	19/32	.038 (.97)	.080 (2.03)	.084 (2.13)	7.50 (11.2)	9.77 (32.1)	20-AF2XTN-1932
M22759/8-22-*	22	19/34	.030 (.76)	.071 (1.80)	.075 (1.91)	5.15 (7.66)	16.0 (52.5)	22-AF2XTN-1934
M22759/8-24-*	24	19/36	.024 (.61)	.060 (1.52)	.064 (1.63)	3.80 (5.66)	25.9 (85.0)	24-AF2XTN-1936

Dimensions in inches (mm). Weights in pounds/1000 feet (Kg/1000 M). Resistance in Ω /1,000 feet (Ω /Km), @20° C.

All values are nominal unless otherwise indicated.

* Add color coding per MIL-STD-104 (see page 36).

