



Cross-linked ETFE - 600V Military

Light Weight Wall

MIL-W-22759/32 & /33

Application

These light weight, high temperature airframe and avionics wires utilize an insulation of cross-linked, modified ethylene tetrafluoroethylene copolymer (ETFE). The insulation resists high PH cleaning fluids, fuels, lubricating oils, and many other chemicals. These wires can withstand temperature test extremes ranging from cold bend at -65°C through aging at 300°C for 7 hours. These wires are a mechanically tough, flame retardant, and weight saving solution to many electronic applications.

Conductor

Soft annealed tinned copper for /32 and silver-plated high strength copper alloy for /33, stranded as listed below.

Insulation

Single layer irradiation cross-linked extruded ETFE meeting the requirements of the above specification.

Approvals & Ratings

150°C conductor temperature, 600 volt.
MIL-W-22759/32.

200°C conductor temperature, 600 volt.
MIL-W-22759/33.

Cables

Cables may be assembled using the requirements of MIL-C-27500 using Type SB and Type SC components for /32 and /33 respectively.

Product Number	Conductor Size		Stranding	Max. Strand Diameter		Nominal Diameter		Max. Weight	
	(AWG)	(mm ²)		(Inch)	(mm)	(Inch)	(mm)	(#/m')	(kg/km)
M22759/32-30	30	.06	7/38	.013	.33	.024	.61	.66	.98
M22759/32-28	28	.09	7/36	.016	.41	.027	.68	.91	1.35
M22759/32-26	26	.15	19/38	.021	.53	.032	.81	1.4	2.08
M22759/32-24	24	.24	19/36	.026	.66	.037	.94	2.0	2.98
M22759/32-22	22	.38	19/34	.033	.84	.043	1.09	2.8	4.17
M22759/32-20	20	.62	19/32	.041	1.04	.050	1.27	4.3	6.40
M22759/32-18	18	.96	19/30	.051	1.29	.060	1.52	6.5	9.67
M22759/32-16	16	1.23	19/29	.058	1.47	.068	1.73	8.3	12.3
M22759/32-14	14	1.94	19/27	.073	1.85	.085	2.16	13.0	19
M22759/32-12	12	3.08	37/28	.090	2.29	.103	2.62	19.7	29
M22759/33-30	30	.06	7/38	.012	.30	.024	.61	.66	.98
M22759/33-28	28	.09	7/36	.015	.38	.027	.68	.91	1.35
M22759/33-26	26	.15	19/38	.020	.51	.032	.81	1.4	2.08
M22759/33-24	24	.24	19/36	.025	.63	.037	.94	2.0	2.98
M22759/33-22	22	.38	19/34	.032	.81	.043	1.09	2.9	4.31
M22759/33-20	20	.62	19/32	.040	1.02	.050	1.27	4.4	6.55