



Cross-linked ETFE 600V, 200°C

Military

Light Weight Wall

MIL-W-22759/45 & /46

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

Nickel-coated copper for /45 and nickel-coated high strength copper alloy for /46, stranded as listed below.

Insulation

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

Approvals & Ratings

200°C conductor temperature, 600 volt.
MIL-W-22759/45 and /46.

Cables

Cables may be assembled using the requirements of MIL-C-27500, using Type SS and ST components of /45 and /46 respectively.

Product Number	Conductor Size		Stranding	Max. Strand Diameter		Nominal Diameter		Max. Weight	
	(AWG)	(mm ²)		(Inch)	(mm)	(Inch)	(mm)	(#/m')	(kg/km)
M22759/45-28	28	.09	7/36	.016	.41	.027	.68	.91	1.35
M22759/45-26	26	.15	19/38	.020	.53	.032	.81	1.4	2.08
M22759/45-24	24	.24	19/36	.025	.66	.037	.94	2.0	2.98
M22759/45-22	22	.38	19/34	.031	.84	.043	1.09	2.8	4.17
M22759/45-20	20	.62	19/32	.039	1.04	.050	1.27	4.3	6.40
M22759/45-18	18	.96	19/30	.049	1.29	.060	1.52	6.5	9.67
M22759/45-16	16	1.23	19/29	.055	1.40	.068	1.73	8.3	12.3
M22759/45-14	14	1.94	19/27	.069	1.75	.085	2.16	13.0	19
M22759/45-12	12	3.08	37/28	.089	2.26	.103	2.62	19.7	29
M22759/46-28	28	.09	7/36	.016	.41	.027	.68	.91	1.35
M22759/46-26	26	.15	19/38	.021	.53	.032	.81	1.4	2.08
M22759/46-24	24	.24	19/36	.026	.66	.037	.94	2.0	2.98
M22759/46-22	22	.38	19/34	.033	.84	.043	1.09	2.9	4.31
M22759/46-20	20	.62	19/32	.041	1.04	.050	1.27	4.4	6.55