



Space Cable, Surprenant Lo-Flo

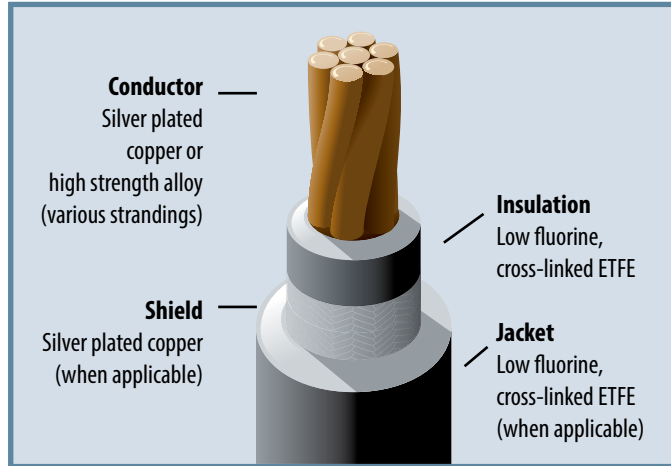
**A - U00 (Unshielded, Unjacketed)
Cross-Linked ETFE - 600V, 200°C**

APPLICATION

These lightweight, high and low temperature space cables utilize an insulation of cross-linked, modified ethylene tetrafluoroethylene Copolymer (ETFE). The insulation meets the NASA SP-R-002 General Specification Vacuum Stability Requirement of Polymeric Material for Spacecraft Application. Available in 1 thru 7 conductors, these *low fluorine* (Lo-Flo) constructions help avoid tarnish and contamination. These will improve shelf life of assembled components.

Low Fluorine Wire & Cable

Type A: Lightweight



CONDUCTOR

Silver plated copper or silver plated high strength copper alloy.

INSULATION

Low fluorine single layer irradiation cross-linked extruded ETFE meeting the requirements of the below specification.

Shield (single)

Silver plated copper, round (S).

JACKET

White low fluorine cross-linked, modified ETFE fluoro-polymer (23).

Part Numbering System					
SLF50 /	2	A	30	U	00
Cable Type	No. of Conductors	Component Type	AWG	Shield	Jacket

Type: U00 (Unshielded, Unjacketed)

Part Number*	Conductor			Material	Conductor Resistance @20°C		Nom. Diameter		Weight		
	Size		Stranding		Ω/kft	Ω/km	Inch	mm	lbs/kft	kg/km	
	AWG	mm ²									
SLF50/1A30U00-X	30	.06	7	SA	156	512	.024	.61	.66	.98	
SLF50/2A30U00-X	30	.06	7		156	512	.048	1.22	1.34	1.99	
SLF50/3A30U00-X	30	.06	7		156	512	.052	1.32	2.00	2.98	
SLF50/1A28U00-X	28	.09	7		74.4	244	.027	.69	.91	1.35	
SLF50/2A28U00-X	28	.09	7		74.4	244	.054	1.37	1.85	2.75	
SLF50/3A28U00-X	28	.09	7		74.4	244	.058	1.47	2.76	4.11	
SLF50/1A26U00-X	26	.15	19		45.7	150	.032	.81	1.4	2.08	
SLF50/2A26U00-X	26	.15	19		45.7	150	.064	1.63	2.84	4.23	
SLF50/3A26U00-X	26	.15	19		45.7	150	.069	1.75	4.24	6.31	
SLF50/1A24U00-X	24	.24	19		28.4	93.2	.037	.94	2.0	2.98	
SLF50/2A24U00-X	24	.24	19		28.4	93.2	.074	1.88	4.06	6.04	
SLF50/3A24U00-X	24	.24	19		28.4	93.2	.080	2.03	6.06	9.02	
SLF50/1-22U00-X	22	.38	19		SC	15.1	49.5	.043	1.09	2.8	4.17
SLF50/2-22U00-X	22	.38	19			15.1	49.5	.086	2.18	5.69	8.47
SLF50/3-22U00-X	22	.38	19	15.1		49.5	.093	1.36	8.49	12.6	
SLF50/1-20U00-X	20	.62	19	9.19		30.2	.051	1.30	4.30	6.40	
SLF50/2-20U00-X	20	.62	19	9.19		30.2	.102	2.59	8.73	13.0	
SLF50/3-20U00-X	20	.62	19	9.19		30.2	.110	2.79	13.0	19.4	
SLF50/1-18U00-X	18	.96	19	5.79		19.0	.061	1.55	6.5	9.67	
SLF50/2-18U00-X	18	.96	19	5.79		19.0	.122	3.10	14.1	2.1	
SLF50/1-16U00-X	16	1.23	19	4.52		14.8	.069	1.75	8.3	12.4	
SLF50/2-16U00-X	16	1.23	19	4.52		14.8	.138	3.50	18.0	2.7	





Space Cable, Surprenant Lo-Flo

A - U23 (Jacketed), S23 (Shielded, Jacketed)
Cross-Linked ETFE - 600V, 200°C

Low Fluorine Wire & Cable

Type A: Lightweight

Part Numbering System					
SLF50/	2	A	30	S	23
Cable Type	No. of Conductors	Component Type	AWG	Shield	Jacket

Type: U23 (Unshielded, Jacketed)

Part Number*	Conductor			Material	Conductor Resistance @20°C		Nom. Diameter		Weight		
	Size		Stranding		Ω/kft	Ω/km	Inch	mm	lbs/kft	kg/km	
	AWG	mm ²									
SLF50/2A30U23-X	30	.06	7	SA	156	512	.063	1.60	2.8	.42	
SLF50/3A30U23-X	30	.06	7		156	512	.067	1.70	3.7	.55	
SLF50/4A30U23-X	30	.06	7		156	512	.078	1.98	4.6	.69	
SLF50/2A28U23-X	28	.09	7		74.4	244	.069	1.75	3.5	.52	
SLF50/3A28U23-X	28	.09	7		74.4	244	.073	1.85	4.7	.71	
SLF50/4A28U23-X	28	.09	7		74.4	244	.081	2.06	5.9	.89	
SLF50/2A26U23-X	26	.15	19		45.7	150	.079	2.01	5.1	.77	
SLF50/3A26U23-X	26	.15	19		45.7	150	.084	2.13	6.8	1.03	
SLF50/4A26U23-X	26	.15	19		45.7	150	.093	2.36	8.7	1.31	
SLF50/2A24U23-X	24	.24	19		28.4	93.2	.089	2.26	6.5	.98	
SLF50/3A24U23-X	24	.24	19		28.4	93.2	.095	2.41	9.1	1.36	
SLF50/4A24U23-X	24	.24	19		28.4	93.2	.106	2.69	11.6	1.74	
SLF50/2-22U23-X	22	.38	19		SC	15.1	49.5	.102	2.59	8.8	1.32
SLF50/3-22U23-X	22	.38	19			15.1	49.5	.109	2.77	12.2	1.83
SLF50/2-20U23-X	20	.62	19	9.19		30.2	.118	3.00	12.7	1.91	
SLF50/3-20U23-X	20	.62	19	9.19		30.2	.125	3.18	17.8	2.68	
SLF50/2-18U23-X	18	.96	19	5.79		19.0	.138	3.51	18.0	2.71	
SLF50/3-18U23-X	18	.96	19	5.79		19.0	.147	3.73	25.8	3.86	
SLF50/2-16U23-X	16	1.23	19	4.52		14.8	.154	3.91	22.4	3.36	
SLF50/3-16U23-X	16	1.23	19	4.52		14.8	.164	4.17	32.2	4.83	

Type: S23 (Shielded, Jacketed)

Part Number*	Conductor			Material	Conductor Resistance @20°C		Nom. Diameter		Weight		
	Size		Stranding		Ω/kft	Ω/km	Inch	mm	lbs/kft	kg/km	
	AWG	mm ²									
SLF50/1A30S23-X	30	.06	7	SA	156	512	.057	1.45	3.4	.51	
SLF50/2A30S23-X	30	.06	7		156	512	.081	2.05	5.4	.81	
SLF50/3A30S23-X	30	.06	7		156	512	.085	2.15	6.5	.98	
SLF50/1A28S23-X	28	.09	7		74.4	244	.060	1.52	3.9	.59	
SLF50/2A28S23-X	28	.09	7		74.4	244	.087	2.20	6.3	.95	
SLF50/3A28S23-X	28	.09	7		74.4	244	.091	2.30	7.8	1.17	
SLF50/1A26S23-X	26	.15	19		45.7	150	.065	1.65	4.6	.69	
SLF50/2A26S23-X	26	.15	19		45.7	150	.097	2.45	7.9	1.19	
SLF50/3A26S23-X	26	.15	19		45.7	150	.102	2.58	9.9	1.49	
SLF50/1A24S23-X	24	.24	19		28.4	93.2	.070	1.78	5.5	.83	
SLF50/2A24S23-X	24	.24	19		28.4	93.2	.107	2.71	9.8	1.47	
SLF50/3A24S23-X	24	.24	19		28.4	93.2	.113	2.86	12.4	1.86	
SLF50/1-22S23-X	22	.38	19		SC	15.1	49.5	.076	1.93	7.1	1.07
SLF50/2-22S23-X	22	.38	19			15.1	49.5	.119	3.01	12.2	1.83
SLF50/1-20S23-X	20	.62	19	9.19		30.2	.084	2.13	9.2	1.38	
SLF50/2-20S23-X	20	.62	19	9.19		30.2	.135	3.42	16.5	2.48	
SLF50/1-18S23-X	18	.96	19	5.79		19.0	.094	2.39	12.3	1.85	
SLF50/2-18S23-X	18	.96	19	5.79		19.0	.155	3.92	22.5	3.38	
SLF50/1-16S23-X	16	1.23	19	4.52		14.8	.102	2.59	14.8	2.22	
SLF50/2-16S23-X	16	1.23	19	4.52		14.8	.171	4.33	27.3	4.10	

X = color. See page 67 for color designator.

The above part numbers represent the more popular constructions. However, other designs are available upon request.

All products are manufactured to meet RoHS compliance. For exceptions, please contact our sales department.

* Singles shall be white and cables shall follow M27500 preferred identification method unless specified by customer.

APPROVALS AND RATINGS

Temperature Rating: -100°C to 200°C, 600 volt.

