

Flexco Microwave, Inc.

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Flexco Microwave's "S" Series Cables

Specification Summary

	S172	S345	S372	S452	S472	S652	S752
Electrical							
Maximum Frequency (GHz)	20	12	9.5	8	8	4	2.7
Nominal Impedance (Ω)	50	50	50	50	50	50	50
Velocity of Propagation (%)	84	79	81	90	88	90	95
Time Delay (ns/ft)	1.21	1.29	1.25	1.13	1.15	1.13	1.07
Breakdown Voltage (KV@ 60 Hz)	3.0	5.0	5.0	5.0	5.0	5.0	8.0
Nominal Capacitance (pF/ft)	24	26	25	24	24	24	22.5
Shielding Effectiveness (dBc min.)	-110	-90	-110	-90	-110	-90	-90
Insertion Loss (dB/ft)							
at 0.4 GHz	0.03	0.04	0.02	0.02	0.01	0.008	0.004
at 0.9 GHz	0.06	0.05	0.03	0.03	0.02	0.010	0.006
at 2.0 GHz	0.08	0.07	0.05	0.04	0.03	0.018	0.009
at 8.0 GHz	0.20	0.19	0.13	0.10	0.08		
at 12.0 GHz	0.24	0.25					
at 18.0 GHz	0.30						
Physical							
Center Conductor Type	Solid	Stranded	Solid	Solid	Solid	Tubular	Tubular
Minimum Bend Radius (inches)	1.0	2.0	1.25	5.5	5.0	10.5	20.0
Weight per Foot (lbs.)	0.050	0.162	0.150	0.182	0.165	0.560	0.864
Outer Diameter (in.)	0.300	0.480	0.530	0.585	0.640	1.100	1.996

Available connectors include N, TNC, 2.4 mm, 3.5 mm, K, SMA, SC, LC and 7-16 DIN, conforming to MIL-C-39012 or IEEE specifications. Other connectors are available upon request. A wide selection of jackets, braids, and armoring are also available.

Average (CW) Power Handling

Typical Attenuation vs. Frequency

