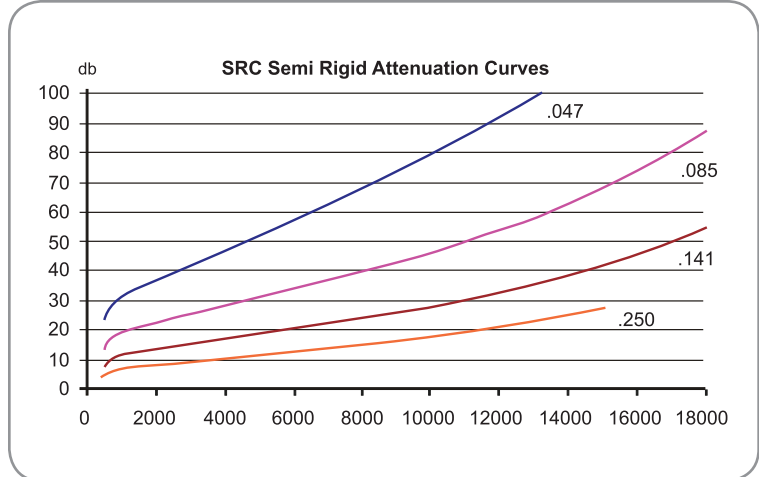




Phase Stable SRC Semi Rigid Cable Assemblies



- Excellent power handling and electrical performance
- Superior choice for tactical and shock or vibration applications
- Precision CNC cutting and machining to .002 in tolerance for phase matching
- Copper or Aluminum shield (30% less weight, similar performance)
- SRC Semi-rigid is the gold standard in many radar, communications and test laboratories



Semi-Rigid	.023	.047	.085	.141	.250	.047	.085	.141
Shield	SnPlateCu	SnPlateCu	SnPlateCu	SnPlateCu	SnPlateCu	SnPlateAl	SnPlateAl	SnPlateAl
Center Conductor	Silver Covered Copper Clad Steel	Silver Covered Copper Clad Steel	Silver Covered Copper Clad Steel	Silver Covered Copper Clad Steel	Silver Covered Copper Clad Steel	Silver Covered Copper Clad Steel	Silver Covered Copper Clad Steel	Silver Covered Copper Clad Steel
Dimension in. (mm)	.005 (.127)	.011 (.288)	.020 (.51)	.036 (.91)	.064 (1.62)	.0113 (.288)	.020 (.51)	.036 (.91)
Dielectric	PTFE .017	PTFE .037	PTFE .066	TFE .116	PTFE .209	PTFE .037	PTFE .066	PTFE .118
Min. Inside Bend in. rad	0.05	0.05	0.05	0.075	0.375	0.05	0.07	0.125
Outside Dia in. (mm)	.023 (.584)	.047 (1.19)	.085 (2.16)	.141 (3.58)	.250 (6.35)	.047 (1.19)	.085 (2.16)	.141 (3.58)
Impedance	50	50	50	50	50	50	50	50
Capacitance	29	29	29	29	29	29	29	29
Max Voltage vrms	750	2,000	5,000	5,000	7,500	2,000	5,000	5,000
Temperature range °C	+125	+150	+125	+125	+100	+150	+225	+125
Cutoff Frequency	245GHz	109GHz	61GHz	34GHz	19GHz	108GHz	64GHz	34GHz
Attenuation (dB/100ft)								
.5GHz	53.3	24	13.6	7.8	4.6	25.8	13.4	8.3
1GHz	75.6	34.2	19.5	11.3	6.8	36.7	19.1	12.1
5GHz	171	78.8	45.9	27.7	17.4	84.5	43.3	30.1
10GHz	245	113.8	67.5	41.5	27	121.9	62	45.5
20GHz	351	165.9	100.3	63.6	NA	177.3	89.1	70
Power (W)								
.5GHz	20	67.4	232	484	1061	96.8	298	600
1GHz	14	47.4	162	336	728	68.1	210	450
5GHz	6.0	21	70	140	290	29.9	93	180
10GHz	5.0	14.4	48	95	190	20.8	65	120
20GHz	3.0	10	33	63	NA	14.4	45	70

SRC semi rigid coax cable assemblies are used to interconnect test and measurement devices like vector network analyzers (VNA), ground and airborne radar, satellite and terrestrial wireless communications gear, high bandwidth datacomm equipment, medical imaging equipment, for electronic warfare and to connect to microwave antenna waveguides.

SRC offers .023, .047, .085, .116, .141 and .250 diameter cable, optimized for stable electrical qualities. (Lower Loss, low density dielectric options are on the following page). We'll configure your assembly with the right connectors. We have bare copper, tin-plated copper and aluminum sheath which is 30% less weight than copper jacket. In many applications our semi rigid coax assemblies require either military qualified parts list (QPL) or very stringent aerospace grade connector terminations. By request, if your application requires, we can sweep test every assembly to make sure the thousandth unit you buy offers identical electrical properties as your first article.