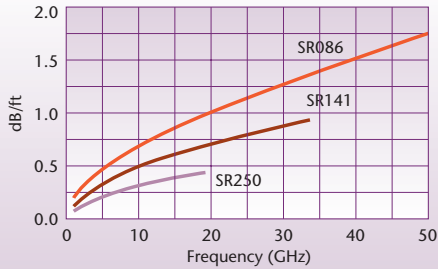


Semi-Rigid

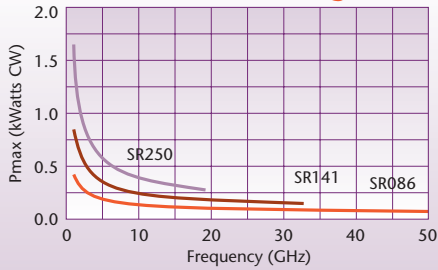
Catalog & Build-To-Print – Test Fixtures • Switch Jumpers



Cable Attenuation @ STP



Cable CW Power Handling @ STP



Standard Connectors

SR086: 1.85mm, 2.4mm, 2.92mm, 3.5mm, SMA

SR141: 3.5mm, 7mm, SMA, Type N

SR250: TNC, Type N

Other connectors available upon request.

Semi-Rigid Typical Insertion Loss_{dB} = (Attenuation)(Length) + 2(Connector Loss)

Frequency		Attenuation						Conn. Loss dB	SWR
GHz	Band	SR086		SR141		SR250			
		dB/ft	dB/m	dB/ft	dB/m	dB/ft	dB/m		
0.512	UHF	0.14	0.46	0.08	0.26	0.05	0.15	0.02	1.04:1
0.900		0.19	0.62	0.11	0.35	0.06	0.21	0.02	1.05:1
1.000	L	0.20	0.65	0.11	0.37	0.07	0.22	0.02	1.10:1
1.900		0.28	0.92	0.16	0.53	0.10	0.32	0.03	
2.000	S	0.29	0.94	0.17	0.55	0.10	0.33	0.03	1.15:1
3.000		0.36	1.17	0.21	0.68	0.13	0.42	0.04	
4.000	C	0.41	1.36	0.24	0.80	0.15	0.51	0.04	1.20:1
6.000		0.51	1.69	0.31	1.01	0.20	0.65	0.06	
8.000	X	0.60	1.96	0.36	1.19	0.24	0.78	0.07	1.25:1
10.000		0.67	2.21	0.41	1.35	0.27	0.89	0.08	
12.400	Ku	0.76	2.49	0.47	1.54	0.31	1.03	0.08	1.30:1
14.000		0.81	2.67	0.51	1.66	0.34	1.12	0.09	
18.000	K	0.94	3.10	0.59	1.95	0.41	1.34	0.11	1.40:1
20.000		1.00	3.30	0.64	2.09			0.12	
22.000	Ka	1.06	3.49	0.68	2.22			0.13	1.45:1
26.500		1.19	3.90	0.77	2.51			0.15	
28.000	mm	1.23	4.03	0.79	2.60			0.16	1.50:1
30.000		1.28	4.21	0.83	2.73			0.17	
32.000		1.33	4.37					0.18	
38.000		1.48	4.86					0.22	
40.000		1.53	5.02					0.25	
50.000		1.76	5.78					0.32	

Semi-Rigid Electrical Data

	SR086	SR141	SR250
Maximum Frequency	50 GHz	30 GHz	18 GHz
Impedance	50 Ω nominal	50 Ω nominal	50 Ω nominal
Propagation Velocity	69% nominal	69% nominal	69% nominal
Time Delay	1.47 ns/ft (4.82 ns/m)	1.47 ns/ft (4.82 ns/m)	1.47 ns/ft (4.82 ns/m)
Capacitance	29.0 pF/ft (95.1 pF/m)	29.0 pF/ft (95.1 pF/m)	29.0 pF/ft (95.1 pF/m)
Shielding Effectiveness	< -90 dB	< -90 dB	< -90 dB

Semi-Rigid Mechanical Data

	SR086	SR141	SR250
Outer Conductor Diameter	0.086 in (2.20 mm)	0.141 in (3.58 mm)	0.250 in (6.35 mm)
Dielectric Diameter	0.066 in (1.68 mm)	0.118 in (2.98 mm)	0.209 in (5.31 mm)
Inner Conductor Diameter	0.020 in (0.51 mm)	0.036 in (0.91 mm)	0.061 in (1.63 mm)
Bend Radius	0.500 in (12.70 mm)	0.750 in (19.05 mm)	1.250 in (31.75 mm)
Operating Temperature Range	-85 to 257°F (-65 to +125°C)	-85 to 257°F (-65 to +125°C)	-85 to 212°F (-65 to +100°C)
Weight	1.36 lbs/100ft (2.02 kg/100m)	3.14 lbs/100ft (4.67 kg/100m)	9.9 lbs/100ft (14.7 kg/100m)

Semi-Rigid Cable Construction

	SR086	SR141	SR250
Inner Conductor	Ag-plated Cu-clad Steel	Ag-plated Cu-clad Steel	Ag-plated Cu
Dielectric	PTFE	PTFE	PTFE
Outer Conductor	Sn-plated Cu Tube	Sn-plated Cu Tube	Sn-plated Cu Tube
Outer Jacket	Polyolefin Available	Polyolefin Available	Polyolefin Available