

## Cable P/N : 9S40



### Construction

Section	Material	Diameter
1 Center Conductor	Silver Plated Copper, wire [Stranded]	Ø0.9mm, 19/0.18 (Ø0.035inch, 19/0.007)
2 Dielectric	PTFE [Extruded]	Ø2.67mm (Ø0.105inch)
3 1 <sup>st</sup> Shield	Silver Plated Copper, flat	
4 2 <sup>nd</sup> Shield	Silver Plated Copper, wire	
5 Jacket	High Temperature Resin [Black]	Ø5.0mm (Ø0.196inch)

### Electrical & Mechanical specification

Characteristic Impedance	50Ω ±1.0
Operating Frequency	DC to 40GHz
Temperature Range	-40°C ~ +125°C
Velocity of Propagation	77% nominal
Shielding Effectiveness	≤ -100dB @18GHz
Minimum Bend Radius	25mm (0.98inch)
Phase Stability vs. Flexure	Max 14° @40GHz
Loss Stability vs. Flexure	△ 0.1dB to 40GHz
Weight [g/m]	44

### Attenuation & Average Power Rating (25 °C, at Sea Level)

Frequency [GHz]	Attenuation (Typ.)		Avg. Power [Watt]
	[dB/m]	[dB/ft.]	
1.0	- 0.37	- 0.114	529
3.0	- 0.66	- 0.202	314
6.0	- 0.96	- 0.293	228
12.0	- 1.4	- 0.428	168
18.0	- 1.76	- 0.537	141
28.0	- 2.27	- 0.692	117
40.0	- 2.8	- 0.853	102