

**Cable P/N : 9R40**

This product does not only provide cables



**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	
6 Spring	Stainless Steel	
7 Wire Braid	Tin Plated Copper, wire	
8 1 <sup>st</sup> Jacket	High Temperature Resin	
9 2 <sup>nd</sup> Jacket	Ruggedized Aramid yarn [Yellow Pattern on Black base]	Ø8.4mm ±0.1 (Ø0.331inch)

**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. 12° @40GHz
Loss Stability vs. Flexure	△ 0.1dB to 40GHz
Weight [g/m]	183

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

Frequency [GHz]	Attenuation (Typ.)		Avg. Power [Watt]
	[dB/m]	[dB/ft.]	
1.0	- 0.35	- 0.106	529
3.0	- 0.62	- 0.188	314
6.0	- 0.88	- 0.273	228
12.0	- 1.31	- 0.398	168
18.0	- 1.64	- 0.500	141
28.0	- 2.11	- 0.645	117
40.0	- 2.60	- 0.795	102

Microwave Cable

DC ~ 40GHz \_ Phase stable Cable \_ Flexible \_ Armor

Data Sheet \_ Cable