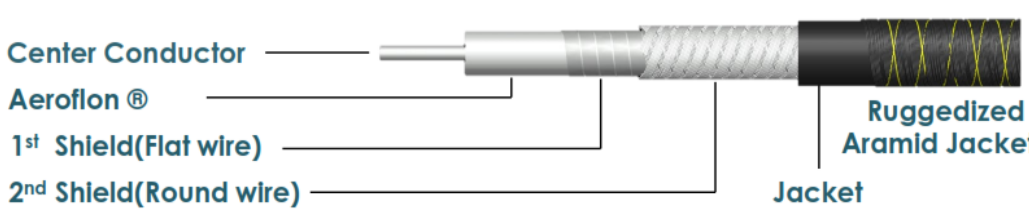


## Cable Part Number: CWSVA5d (DC ~ 50 GHz)

### Construction



Part	Material	Diameter
1	Center Conductor	Silver Plated Copper [Solid] Φ 0.7 [mm] Φ 0.027 [inch]
2	Dielectric	Aeroflon® [Extruded]
3	1 <sup>st</sup> / 2 <sup>nd</sup> Shield	Silver Plated Copper
4	Jacket	Ruggedized Aramid Yarn Φ 4.60 ± 0.1 [mm] Φ 0.185 ± 0.003 [inch]

### Electrical & Mechanical specification

Characteristic Impedance	50 ± 1 Ω
Operating Frequency	DC to 50 GHz
Temperature	-50 °C ~ +135 °C
Velocity of Propagation	77% nominal
Minimum Bend Radius	20 mm / 0.79 inch
Weight [g/m]	34.1
Shielding Effectiveness	<-100 dB
Phase Stability vs. Flexure	15° max. @50GHz
Loss Stability vs. Flexure	Δ 0.1dB to 50GHz
Available Connector	2.4mm

Raw Cable Insertion Loss [ 25°C, at Sea Level ]			Average Power Rating [ CW, 25°C, at Sea Level ]	
Frequency	[dB/m]	[dB/ft.]	Frequency	[Watt]
1 GHz	- 0.44	- 0.134	1 GHz	320
3 GHz	- 0.78	- 0.237	3 GHz	185
6 GHz	- 1.14	- 0.347	6 GHz	131
12 GHz	- 1.67	- 0.509	12 GHz	93
28 GHz	- 2.73	- 0.832	28 GHz	61
40 GHz	- 3.38	- 1.031	40 GHz	51
50 GHz	- 3.90	- 1.189	50 GHz	45

Microwave Cable

DC ~ 50GHz phase stable cable