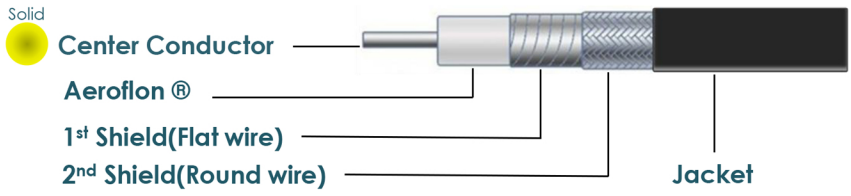
Cable Part Number : CSVS2d (DC ~ 33 GHz for 5G Network)

Construction



	Part	Material	Diameter
1	Center Conductor	Silver Plated Copper [Solid]	Φ 1.12 [mm] Φ 0.044 [inch]
2	Dielectric	Aeroflon ® [Extruded]	
3	1st / 2nd Shield	Silver Plated Copper	
4	Jacket	High Temperature Resin	Φ 5.20 ± 0.1 [mm] Φ 0.204 ± 0.003 [inch]

Electrical & Mechanical specification

Characteristic Impedance	50 ± 1 Ω
Operating Frequency	DC to 33 GHz
Temperature	-50 ℃ ~ +135 ℃
Velocity of Propagation	77% nominal
Minimum Bend Radius	25 mm / 0.98 inch
Weight [g/m]	56
Shielding Effectiveness	<-90 dB
Phase Stability vs. Flexure	10˚ max. @33GHz
Loss Stability vs. Flexure	Δ 0.1dB to 33GHz
Available Connector	HF SMA

Raw Cable Insertion Loss [25℃, at Sea Level]		
Frequency	[dB/m]	[dB/FT]
1 GHz	- 0.31	- 0.095
3 GHz	- 0.55	- 0.168
6 GHz	- 0.67	- 0.204
12 GHz	- 1.05	- 0.320
18 GHz	- 1.30	- 0.396
28 GHz	- 1.70	- 0.518
33 GHz	- 1.85	- 0.564

Average Power Rating [CW, 25℃, at Sea Level]	
Frequency	[Watt]
1 GHz	561
3 GHz	324
6 GHz	229
12 GHz	162
18 GHz	133
28 GHz	106
33 GHz	98

Microwave Cable

DC ~ 33GHz phase stable cable

CernexWave 1710 Zanker Road, Suite 202 San Jose, CA 95112 Tel. (408) 773-8855 Fax (408) 773-8858