CWM5 High Frequency Flexible Cable Assemblies

Construction

Structure	Material
Center Conductor	Solid Ag-Plated Cu Clad Steel
Insulator	Laminated PTFE
Connector Body	Passivated Stainless Steel
Jacket	Blue Polyolefin Over FEP

Electrical Specifications

Frequency	110 GHz
Insulation Resistance	5000MΩ
Impedance	50Ω
Dialectric Withstanding Voltage	500V
VSWR	1.50:1 @ 110GHz
Shielding Effectiveness	90dB

Mechanical Specifications

Bend Radius	3.5 mm
Cable Diameter	2.54 mm
Operating Temperature	-55°C - +125°C

Attenuation vs. Frequency

Length	40GHz	60GHz	80GHz	110GHz
4 inches	1.22dB	1.76dB	2.15dB	2.68dB
8 inches	2.09dB	2.87dB	3.47dB	4.30dB
20 inches	4.68dB	6.19dB	7.45dB	9.17dB
40 inches	9.01dB	11.73dB	14.07dB	17.29dB
60 inches	13.34dB	17.27dB	20.70dB	25.40dB
80 inches	17.67dB	22.80dB	27.32dB	33.52dB
120 inches	26.32dB	33.88dB	40.57dB	49.75dB