

## CWA40 Ultra Low Loss Phase Stable Flexible Cable Assemblies

### Construction

Structure	Material
Center Contact	Gold Plated Brass
Insulator	PEI
Connector Coupling Nut	Passivated Stainless Steel
Jacket	FEP

### Electrical Specifications

Frequency	40 GHz
Insulation Resistance	5000M $\Omega$
Impedance	50 $\Omega$
Dialectric Withstanding Voltage	1000V
VSWR	1.25:1 @ 40GHz
Shielding Effectiveness	90dB
Velocity	83%
Phase Stability vs. Flexure	$\pm 2^\circ$ @ 18GHz
Power	75W CW @ 40GHz

### Mechanical Specifications

Bend Radius (Static)	18 mm
Cable Diameter	3.6mm
Operating Temperature	-55°C - +125°C

### Attenuation vs. Frequency

Length	18GHz	26.5GHz	32GHz	40GHz
8 inches	0.54dB	0.66dB	0.77dB	0.87dB
20 inches	1.04dB	1.28dB	1.46dB	1.63dB
40 inches	1.87dB	2.3dB	2.61dB	2.91dB
60 inches	2.71dB	3.33dB	3.76dB	4.19dB
80 inches	3.54dB	4.35dB	4.91dB	5.47dB
120 inches	5.21dB	6.4dB	7.2dB	7.93dB
200 inches	8.55dB	10.5dB	11.91dB	13.15dB

