

Part No. WCBA-WCA10129M.29MXXX-02 Series

40GHz WCA101 Ultra Flexible Cable Assembly 2.92mm(M)-2.92mm(M) /

Phase match $\leq \pm 1.5\text{ps}@40\text{GHz}$



Features:

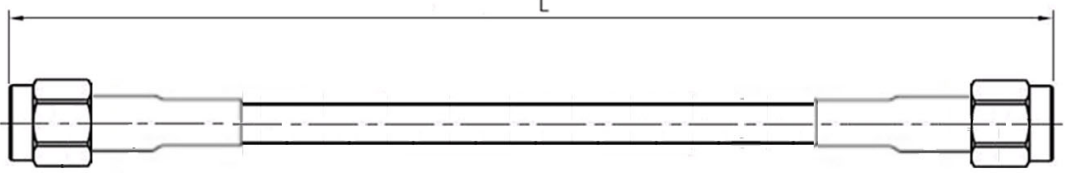
- Low Insertion Loss
- Excellent Phase Stability over Flexure



WCA101 Raw Cable Electrical Specification									
Cut-Off Frequency	51GHz								
Operating Frequency	40GHz								
Frequency	0.5	1	6	10	12.4	18	26.5	40	GHz
Attenuation	0.36	0.52	1.33	1.76	1.99	2.45	3.06	3.89	dB/m
Power	169	119	46	35	31	25	20	16	W
Velocity of Propagation	76%								
Shielding Effectiveness	>-90dB								
Phase Stability vs. Flexure	±8°@40GHz		±6°@26.5GHz			±5°@18GHz			
Impedance	50 ohm								
Min. Static Bending Radius	14.4mm								
Min. Dynamic Bending Radius	36.0mm								

WCA101 Raw Cable Mechanical / Material Specification		
Description	Material	Diameter
Center Conductor	Stranded Silver Plated Copper	0.72 mm *7
Dielectric	Low Density PTFE	2.10 mm
Inner Braid	Silver Plated Copper Strip	2.26 mm
Outer Braid	Silver Plated Copper	2.71 mm
Jacket	PUR	3.60 mm

WCA101 Raw Cable Environmental Specification	
Operating Temperature	-55 ~+85°C

Cable Assembly Specification	
40GHz WCA101 Ultra Flexible Cable Assembly 2.92mm(M)-2.92mm(M) / Phase match <+/-1.5ps@40GHz	
Part No.	WCBA-WCA10129M.29MXXX-02 (XXX:Length,Unit: Meters)
Frequency	40GHz (max.)
Connection 1	2.92mm Male
Connection 2	2.92mm Male
VSWR	1.35:1(max.) Length $\leq$ 0.2M:1.40:1(max.)
Phase Match	< $\pm$ 2ps@40GHz
Outline (Unit: Meters) Unless Otherwise Specified Linearity Tolerance: 100~200mm: $\pm$ 8mm >200mm: $\pm$ 1.5%	

Test Curve

