

Part No. WCBA-WCA2101M.1MXXXPS-01 Series

110GHz WCA210 Flexible Cable Assembly with PS Type Armor 1mm(M)-1mm(M)



Features:

- Low Insertion Loss
- Good Shielding Effectiveness



WCA210 Raw Cable Electrical Specification

Operating Frequency	110GHz									
Frequency	1	6	8	18	26.5	40	67	75	110	GHz
Attenuation	1.137	2.829	3.280	4.993	6.115	7.604	10.027	10.659	13.143	dB/m
Power	39	16	14	9	7	6	4	4	3	W
Velocity of Propagation	80%									
Shielding Effectiveness	90dB min.									
Phase Stability	$\pm 5^\circ @ 18\text{GHz}$, $\pm 7^\circ @ 26.5\text{GHz}$									
Amplitude Stability	$\pm 0.15 \text{ dB} @ 18\text{GHz}$									
Impedance	50 ohm									
Min. Static Bending Radius	10.0mm									
Min. Dynamic Bending Radius	20.0mm									

WCA210 Raw Cable Mechanical / Material Specification

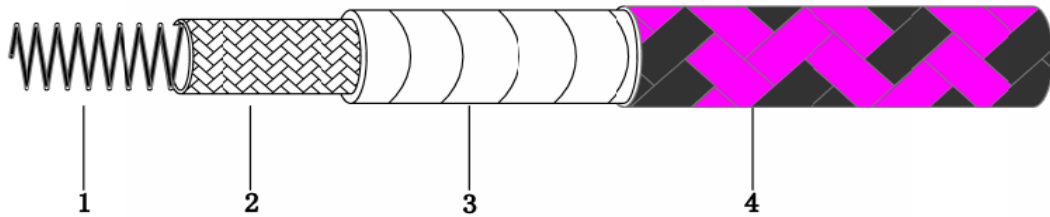
Description	Material	Diameter
Center Conductor	Silver Plated Copper	$0.31 \pm 0.015 \text{ mm}$
Dielectric	Low Density PTFE	$0.88 \pm 0.05 \text{ mm}$
Outer Conductor	Silver Plated Copper Ribbon	$1.00 \pm 0.05 \text{ mm}$
Interlayer	PTFE	$1.20 \pm 0.05 \text{ mm}$
Outer Shield	Silver Plated Copper	$1.45 \pm 0.05 \text{ mm}$
Jacket	FEP	$1.85 \pm 0.10 \text{ mm}$

WCA210 Raw Cable Environmental Specification

Operating Temperature	-55 ~ +125°C
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WCA210 PS Type Armor Mechanical / Material Specification

Description	Material	Diameter
Spring	Stainless Steel	2.80±0.10 mm
Interlayer	Tinned wire	3.15±0.10mm
Wrap layer	Waterproof material	3.28±0.10mm
Outer Jacket	PTFE	3.70±0.20 mm



WCA210 PS Type Armor Environmental Specification

Operating Temperature	-55 ~+125°C
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Cable Assembly Specification

110GHz WCA210 Flexible Cable Assembly with PS Type Armor 1mm(M)-1mm(M)

Part No.	WCBA-WCA2101M.1MXXXPS-01 (XXX:Length,Unit: Meters)
Frequency	110GHz (max.)
Connection 1	1mm Male
Connection 2	1mm Male
VSWR	1.20:1(max.)@DC-50GHz 1.55:1(max.)@50-110GHz
Min. Dynamic Bending Radius	37mm
Outline (Unit: Meters) Unless Otherwise Specified Linearity Tolerance: 100~200mm:±8mm >200mm:±1.5%	

Test Curve

