

Part No. WCBA-WCA20429M.29MXXX.PS Series

40GHz WCA204 Flexible Cable Assembly with PS Type Armor 2.92mm(M)-2.92mm(M) / Phase match $<\pm 1\text{ps}@40\text{GHz}$ ($<\pm 15^\circ@40\text{GHz}$)



Features:

- Low Insertion Loss
- Good Shielding effectiveness



WCA204 Raw Cable Electrical Specification

Cut-Off Frequency	40GHz								
Operating Frequency	40GHz								
Frequency	1	3	6	10	12.4	18	26.5	40GHz	
Attenuation	0.38	0.66	0.94	1.22	1.36	1.65	2.03	2.52	dB/m
Power	505	289	203	156	139	115	94	75	W
Velocity of Propagation	76%								
Shielding Effectiveness	90dB(Min.)								
Phase Stability	$\pm 5^\circ@40\text{GHz}$								
Amplitude stability	± 0.1 dB								
Impedance	50 ohm								
Min. Static Bending Radius	18.2mm								
Min. Dynamic Bending Radius	35.5mm								

WCA204 Raw Cable Mechanical / Material Specification

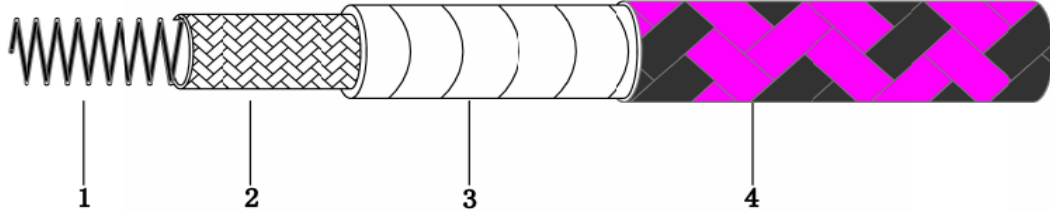
Description	Material	Diameter
Center Conductor	Silver Plated Copper	0.90 mm
Dielectric	PTFE	2.66 mm
Inner Shield	Silver Plated Copper Strip	2.86 mm
Interlayer	PTFE	3.10 mm
Outer Shield	Silver Plated Copper	3.53 mm
Jacket	FEP	4.50mm

WCA204 Raw Cable Environmental Specification

Operating Temperature	-55 ~+165°C
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WCA204 PS Type Armor Mechanical / Material Specification

Description	Material	Diameter
Spring	Stainless Steel	5.45 mm
Interlayer	Tinned wire	6.00mm
Wrap layer	Waterproof material	6.15mm
Outer Jacket	PTFE	6.65 mm



WCA204 PS Type Armor Environmental Specification

Operating Temperature	-40 ~+165°C
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Cable Assembly Specification

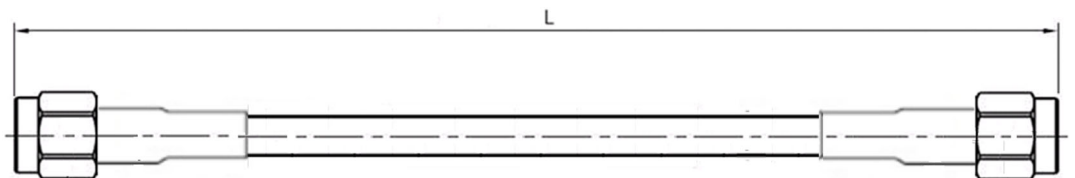
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Phase match $<\pm 1\text{ps}@40\text{GHz}$ ($<\pm 15^\circ@40\text{GHz}$)

Part No.	WCBA-WCA20429M.29MXXX.PS (XXX:Length,Unit: Meters)
Frequency	40GHz (max.)
Connection 1	2.92mm Male
Connection 2	2.92mm Male
VSWR	1.25:1(max.)
Phase Match	$<\pm 1\text{ps}@40\text{GHz}$ ($<\pm 15^\circ@40\text{GHz}$)

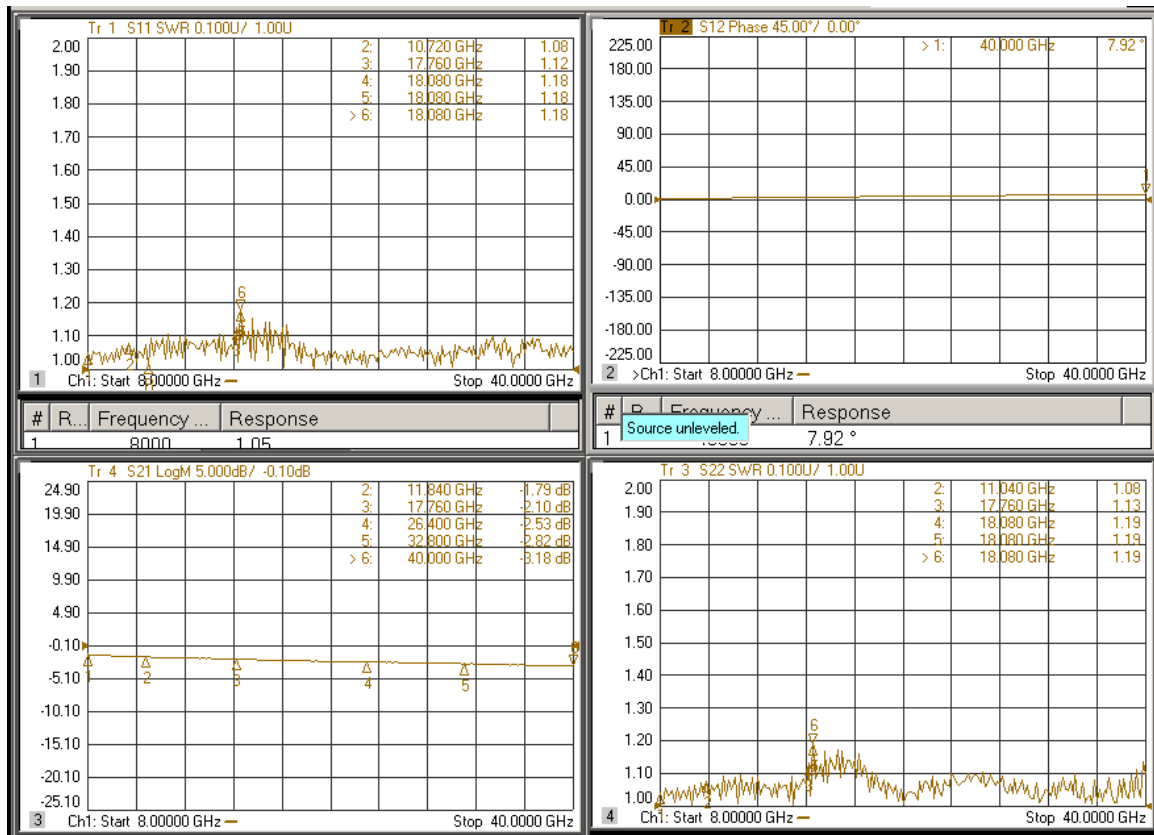
Outline

(Unit: Meters)

Unless Otherwise Specified
Linearity Tolerance:
100~200mm: $\pm 8\text{mm}$
>200mm: $\pm 1.5\%$



Test Report



2.92mm(M)-2.92mm(M) 1M