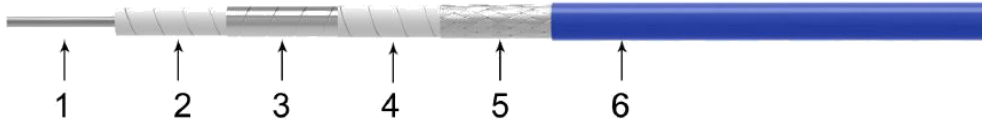


40GHz Phase Stable, Low loss Cable Assembly

Cable Assembly, P5, 2.92mm male to 2.92mm male 1.0Meter

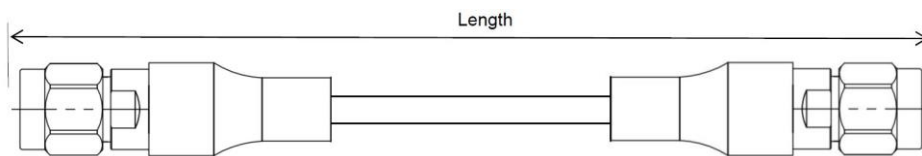
P.N. : B-P529.2900.3

Cable Structure



Structure	Diameter (mm)	Material
1. Center Conductor	0.72 ±0.02	Solid silver plated copper
2. Dielectric	2.15 ±0.05	Ultra-Low density PTFE
3. Outer conductor	2.30 ±0.05	Silver plated copper tape wrap
4. Interlayer	2.60 ±0.05	Low density PTFE
5. Outer shield	3.05 ±0.10	Silver plated copper wire braid
6. Jacket	3.60 ±0.10	FEP

Cable Assembly

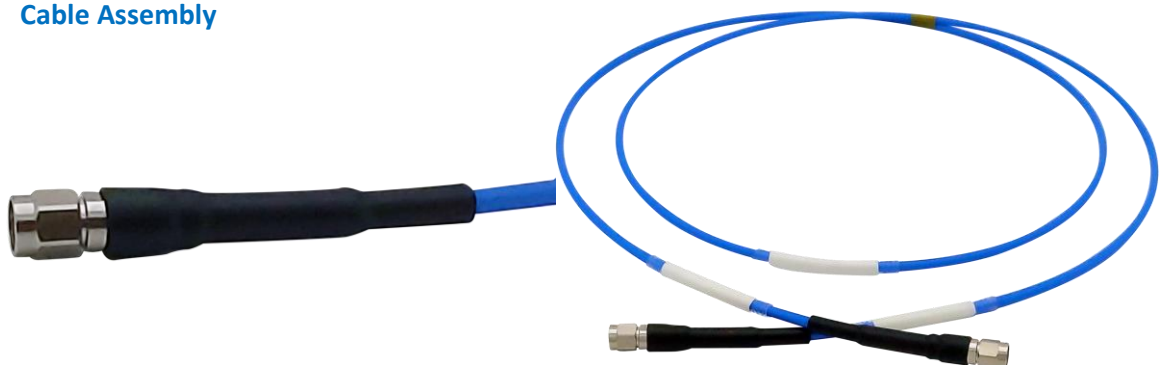


- Length is measured from one connector end to the other connector end as shown above. For RA connectors, use the pin center-line.

Cable Assembly Configuration

Connector (Right)	2.92mm male, straight
Body/Coupling Nut/Contact Material	Passivated s/steel, Gold plated BeCu contacts
Connector (Left)	2.92mm male, straight
Body/Coupling Nut/Contact Material	Passivated s/steel, Gold plated BeCu contacts
Cable Type	P5-360

Cable Assembly



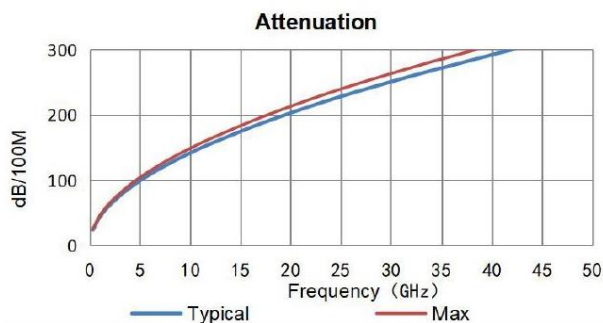
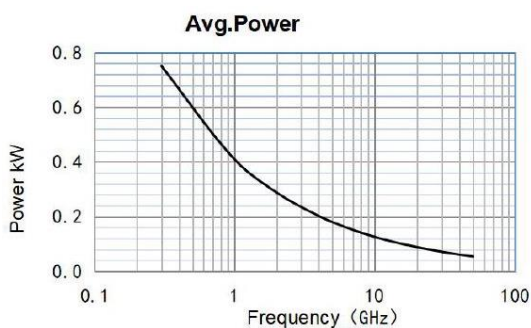
40GHz Phase Stable, Low loss Cable Assembly

Cable Assembly, P5, 2.92mm male to 2.92mm male 1.0Meter

P.N. : B-P529.2900.3

Electrical Specification

Frequency Range	DC-40GHz				
Impedance	50 ohm				
VSWR Max	1.35:1 (DC ~ 50GHz)				
V. P	74%				
Withstanding Volt	1000V DC				
Shielding effectiveness	>90dB				
Mechanical Phase Stability	$\pm 6^\circ @ 40\text{GHz}$, $\pm 7^\circ @ 50\text{GHz}$				
Temperature Phase Stability	500PPM(-50°C to +80 °C)				
Mechanical Amplitude Stability	$\pm 0.06\text{dB} @ 40\text{GHz}$, $\pm 0.07\text{dB} @ 50\text{GHz}$				
Max Attenuation vs Frequency dB/M (*With two connectors) @ 25°C	6GHz	12GHz	18GHz	26GHz	40GHz
	2.06dB	2.55dB	2.91dB	3.34dB	3.91dB
Avg Power at sea level @ 40°C	165W	115W	93W	76W	61W



Environmental Specification

Operating Temperature	-65°C to +165 °C
Storage Temperature	-55°C to +165 °C

Mechanical Specification

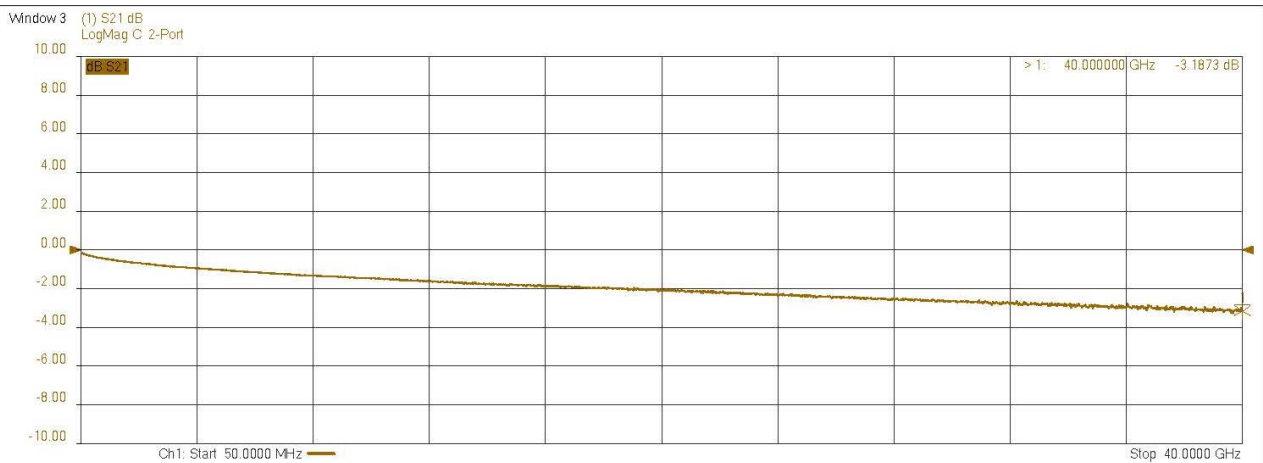
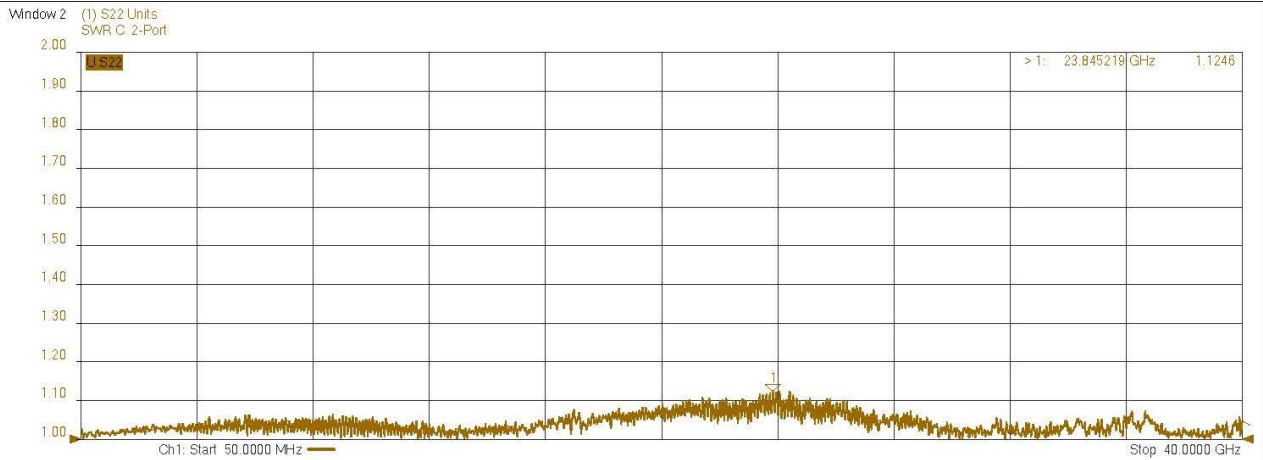
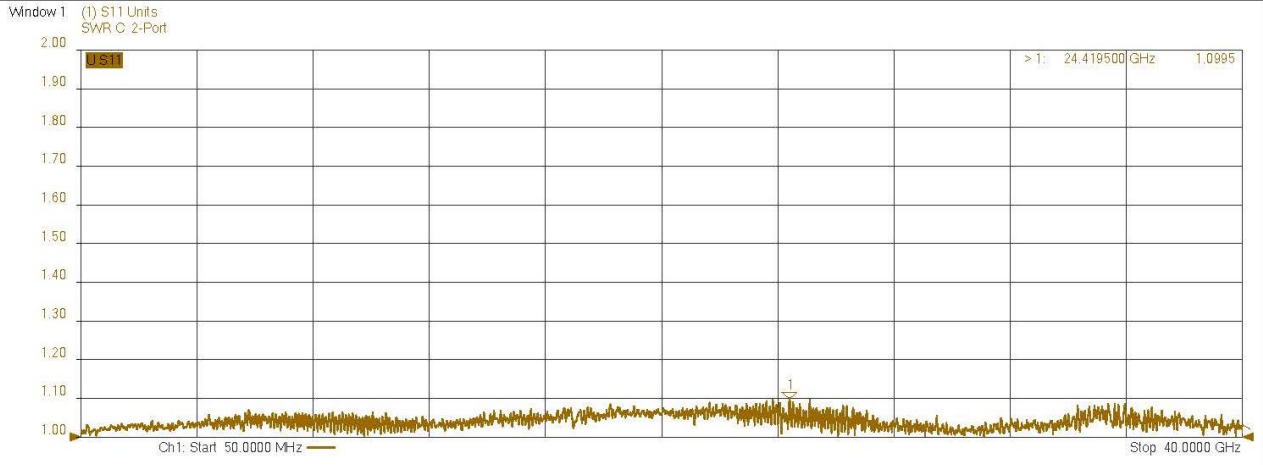
Min Bending Radius static	18mm
Min Bending Radius repeated	36mm
Weight	34 gram / Meter (Cable itself)

40GHz Phase Stable, Low loss Cable Assembly

Cable Assembly, P5, 2.92mm male to 2.92mm male 1.0Meter

P.N. : B-P529.2900.3

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Channel Settings								
Channel	Sweep Type	Points	Start (MHz)	Stop (GHz)	IF BW (kHz)	Sweep Time (s)	Pow 1 (dBm)	Pow 2 (dBm)
1	LinFreq	1601	50.000000	40.000000	10.000000	1.000000	-15.000000	-15.000000

Trace Attributes								
Window	ID	Trace	Channel	Correction	Options	Marker	Position	Response
1	1	S11	1	C 2-Port		1	24419.5 MHz	1.0998
2	1	S22	1	C 2-Port		1	23845.219 MHz	1.1240
3	1	S21	1	C 2-Port		1	40000 MHz	-3.1781 dB