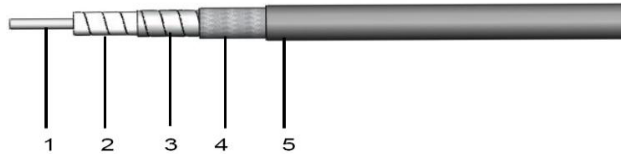


40GHz Phase Stable, Low loss Cable Assembly

Cable Assembly, P4, 2.92mm male to 2.92mm male 1.0Meter

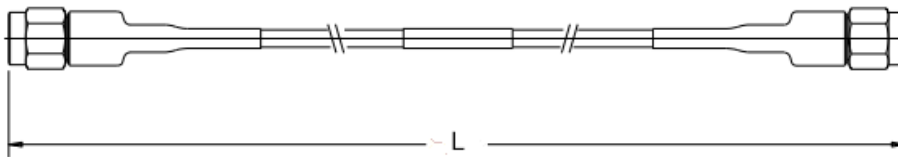
P.N. : B-P429.2900.4

Cable Structure



Structure	Diameter (mm)	Material
1. Center Conductor	0.91 ±0.03	Solid silver plated copper
2. Dielectric	2.50 ±0.05	Low density PTFE
3. Outer conductor	2.66 ±0.05	Silver plated copper tape wrap
4. Outer shield	3.06 ±0.05	Silver plated copper wire braid
5. 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	P4L360

Cable Assembly



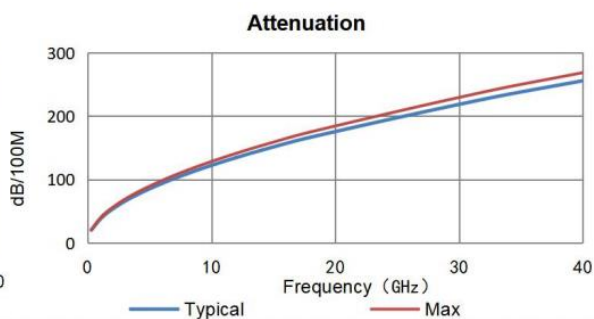
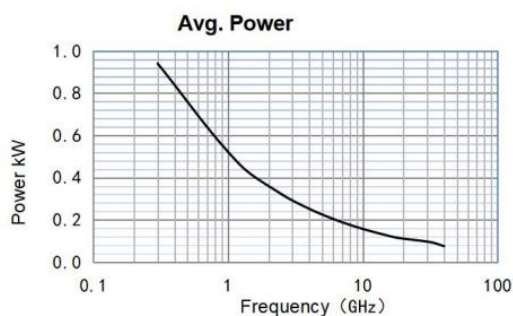
40GHz Phase Stable, Low loss Cable Assembly

Cable Assembly, P4, 2.92mm male to 2.92mm male 1.0Meter

P.N. : B-P429.2900.4

Electrical Specification

Frequency Range	DC-40GHz					
Impedance	50 ohm					
VSWR Max	1.30:1 (DC ~ 40GHz)					
V. P	82%					
Withstanding Volt	1000V DC					
Shielding effectiveness	>90dB					
Mechanical Phase Stability	±6°@40GHz (360° wrap around φ55mm mandrel)					
Temperature Phase Stability	500PPM(-50°C to +80 °C)					
Mechanical Amplitude Stability	±0.08dB@40GHz (360° wrap around φ55mm mandrel)					
Max Attenuation vs Frequency dB/M (*With two connectors) @ 25°C	3GHz	6GHz	12GHz	18GHz	26GHz	40GHz
	0.81dB	1.15dB	1.65dB	2.05dB	2.51dB	3.13dB
Avg Power at sea level @ 40°C	292W	204W	142W	115W	94W	75W



Environmental Specification

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

Mechanical Specification

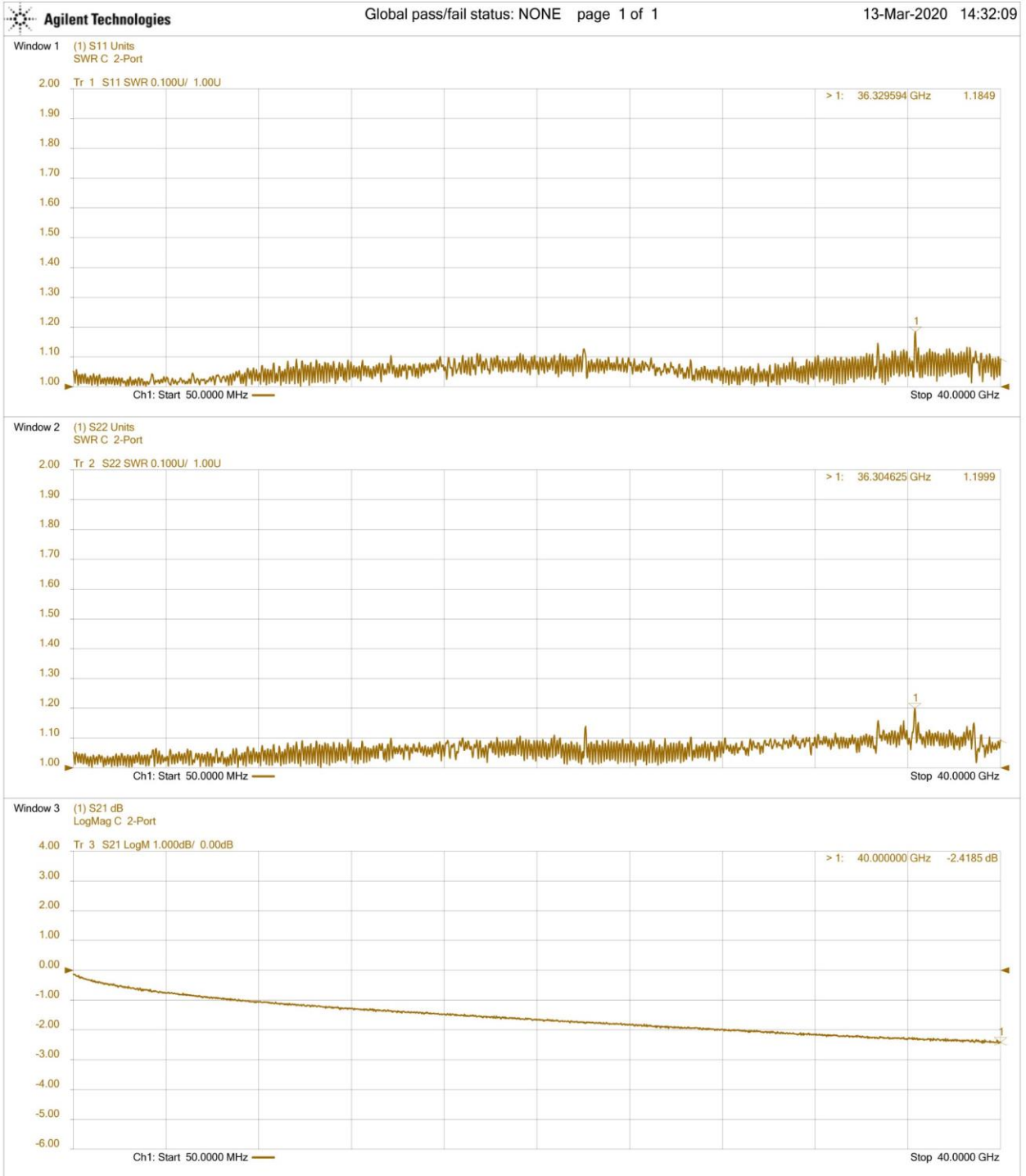
Min Bending Radius static	18mm
Min Bending Radius repeated	36mm
Weight	33 gram / Meter

40GHz Phase Stable, Low loss Cable Assembly

Cable Assembly, P4, 2.92mm male to 2.92mm male 1.0Meter

P.N. : B-P429.2900.4

Test Data



Channel Settings									
Channel	Sweep	Type	Points	Start (MHz)	Stop (GHz)	IF BW (kHz)	Sweep Time (s)	Pow 1 (dBm)	Pow 2 (dBm)
1	Lin	Freq	1601	50.000000	40.000000	35.000000	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	36304.625 MHz	1.1818	
2	1	S22	1	C 2-Port		1	36304.625 MHz	1.1997	
3	1	S21	1	C 2-Port		1	40000 MHz	-2.4274 dB	