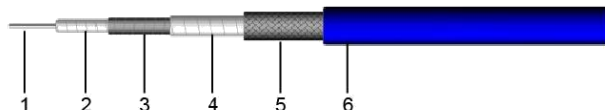


# 50GHz Phase Stable, Low loss Cable Assembly

Cable Assembly, P533, 2.4mm male to 2.4mm male 0.6Meter

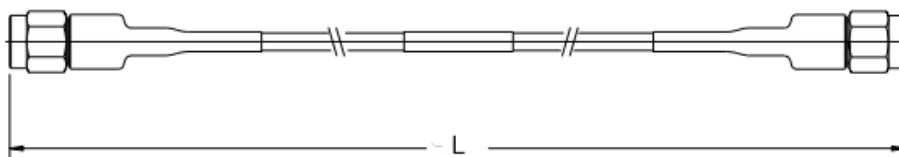
P.N. : B-P524.2400.2

## Cable Structure



Structure	Diameter (mm)	Material
1. Center Conductor	0.72 ±0.02	Solid silver plated copper
2. Dielectric	2.21 ±0.05	Low Density PTFE
3. Outer conductor	2.38 ±0.07	Silver plated copper tape wrap
4. Interlayer	2.68 ±0.07	Low density PTFE
5. Outer shield	3.14 ±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)	2.4mm male, straight
Body/Coupling Nut/Contact Material	Passivated s/steel, Gold plated BeCu contacts
Connector (Left)	2.4mm male, straight
Body/Coupling Nut/Contact Material	Passivated s/steel, Gold plated BeCu contacts
Cable Type	P533

## Cable Assembly



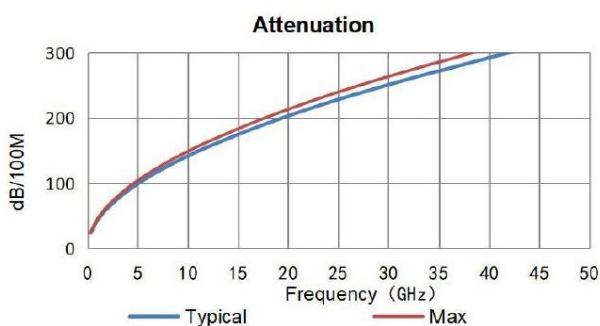
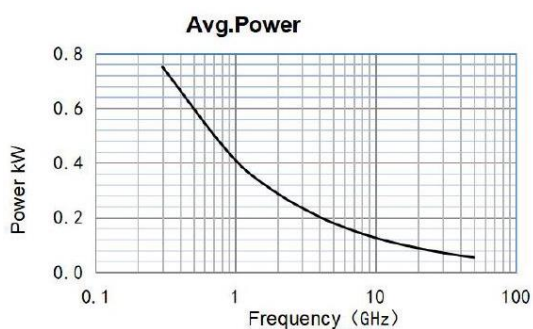
# 50GHz Phase Stable, Low loss Cable Assembly

Cable Assembly, P533, 2.4mm male to 2.4mm male 0.6Meter

P.N. : B-P524.2400.2

## Electrical Specification – cable spec only

Frequency Range	DC-50GHz					
Impedance	50 ohm					
VSWR Max	1.35:1 (DC ~ 50GHz)					
V. P	74%					
Withstanding Volt	1000V DC					
Shielding effectiveness	>90dB					
Max Attenuation vs Frequency dB/M (*Without two connectors) @ 25°C	6GHz	12GHz	18GHz	26GHz	40GHz	50GHz
	1.09dB	1.86dB	1.90dB	2.35dB	2.92 dB	3.28dB
Avg Power at sea level @ 40°C	165W	115W	93W	76W	61W	55W



## Environmental Specification

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

## Mechanical Specification

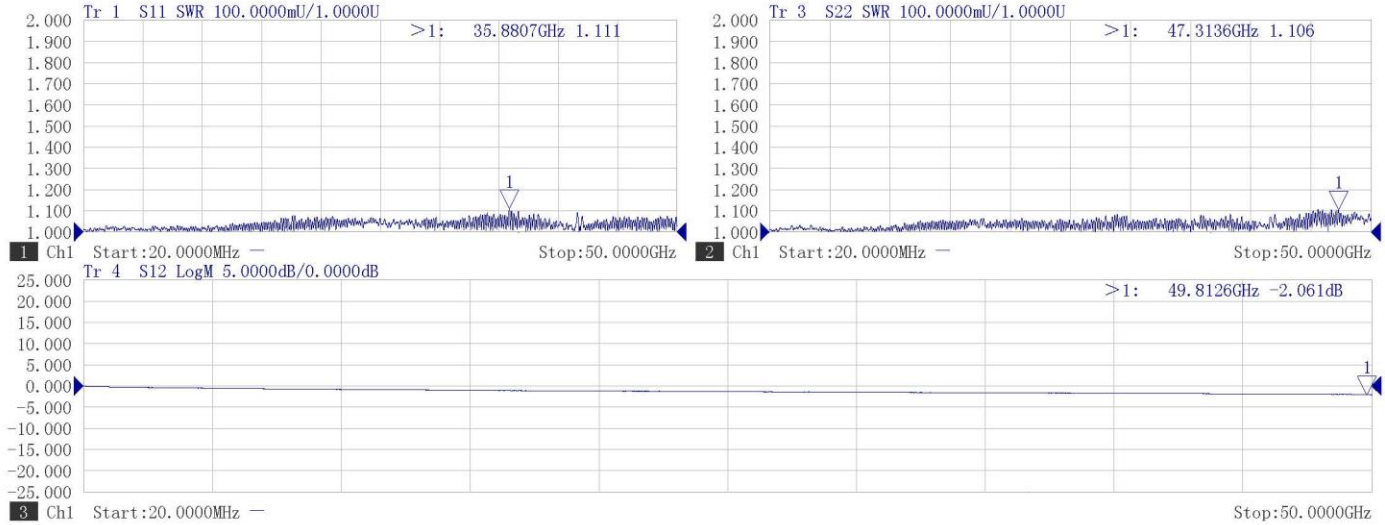
Min Bending Radius static	14mm
Min Bending Radius repeated	36mm
Weight	34 gram / Meter ( Cable itself)

# 50GHz Phase Stable, Low loss Cable Assembly

Cable Assembly, P533, 2.4mm male to 2.4mm male 0.6Meter

P.N. : B-P524.2400.2

## Test Data



Ch1	SweepType	Start Frequency	Stop Frequency	Points	IF BW (Hz)	SweepTime (s)	Port1, 2Power (dBm)
Ch1	LIN_SWEEP	0.020000000GHz	50.000000000GHz	1601	10000	1.000000	0.0, 0.0

Win1	Marker	Delta	Stimulus	Response
Trace1--S11	1		35.8806GHz	1.111
Trace3--S22	1		47.3135GHz	1.106
Trace4--S12	1		49.8125GHz	-2.061dB