

SMP Cable Assemblies

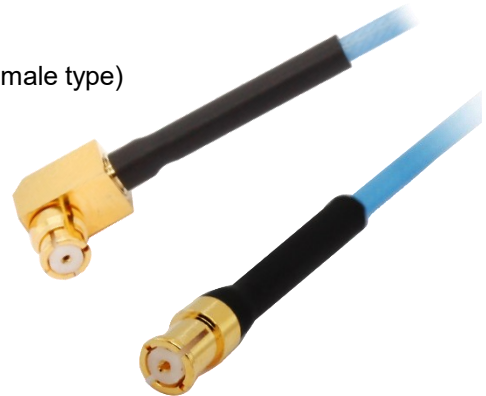
Φ.047 Cable types (Flexible, Semi-Rigid, Semi-Flexible)

Withwave offers **SMP Cable Assemblies** with 0.047" cable diameter (Flexible, Semi-Rigid & Semi-Flexible) for various kinds of interconnection solutions such as High Speed Testing, Surface Mount Interconnection and Telecommunication applications.



■ Features

- DC to 40 GHz
- Push-On and Snap-On for Quick Installation
- High Speed Interconnection Test
- Available with SMA, 2.92 mm, 2.4 mm Connectors (Male, Female type)



■ Application

- Telecommunication
- High Speed Applications
- Surface Mount Connection
- Broadband

■ Cable Specification

Scope	Specification	SR047	SF047	FX047
Physical	Center Conductor (mm)	0.29	0.29	0.29
	Dielectric (mm)	0.92	0.92	0.92
	Jacket (mm)	1.19	1.19	1.53
Electrical	Impedance (Ohm)	50		
	Operation Freq.(GHz)	40		
	Velocity of propagation(%)	69.5		70
	Shielding Effectiveness (dB)	100		90
Mechanical & Environmental	Weight (g/M)	5.7	5.7	7.2
	Operation Temperature	-40~ +125°C		-55~ +125°C

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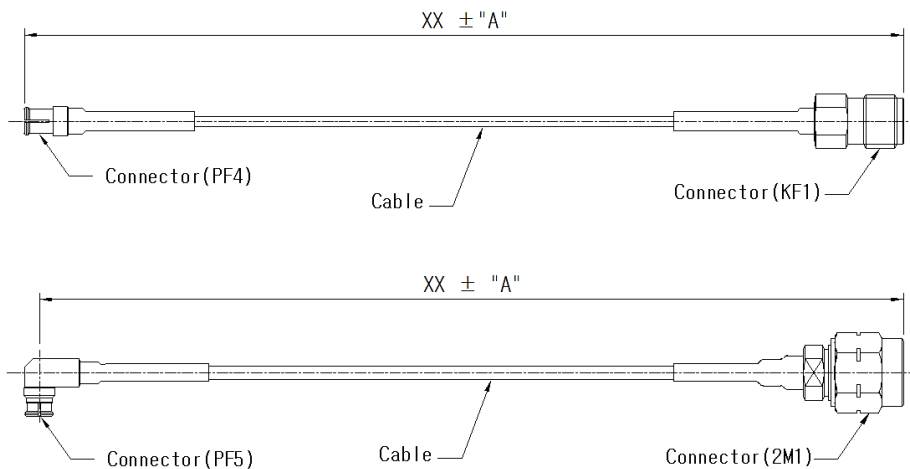
Φ.047 Cable types (Flexible, Semi-Rigid, Semi-Flexible)

■ Specification (SMP)

Scope	Items	Specification	
Electrical	Impedance (Ohm)	50	
	Operation Freq.(GHz)	40	
	VSWR(Max.)	SMP(Straight)	1.43 @ 40GHz
		SMP(Right Angle)	1.30 @ 26.5 GHz 1.45 @ 40.0 GHz
Material	Connector type	SMP	
	Body	BeCu with Gold Plated	
	Center Contact	BeCu with Gold Plated	
	Dielectric	PTFE	

* RoHS Compliant

■ Selection Guide



XX (Cable length)	'A' (Tolerance)
0.1M ~ 0.29M	+5.0mm / -0.0
0.3M ~ 0.99M	+15.0mm / -0.0
1.0M ~ 2.99M	+30.0mm / -0.0
3.0M ~ 9.99M	+50.0mm / -0.0
10.0M ~ 100.0M	+100.0mm / -0.0

FX047 - PF42M1 - 0.1M

Cable Type

FX047 : Flexible
SF047 : Semi-Flexible
SR047 : Semi-Rigid

Connector Type

PF4 : SMP (Female) Straight
PF5: SMP (Female) Right angle
SF2 : SMA (Female)
SM2 : SMA (Male)
KF1 : 2.92 mm (Female)
KM1: 2.92 mm (Male)
2F1 : 2.4 mm (Female)
2M1: 2.4 mm (Male)

Cable Length

Unit : Meter

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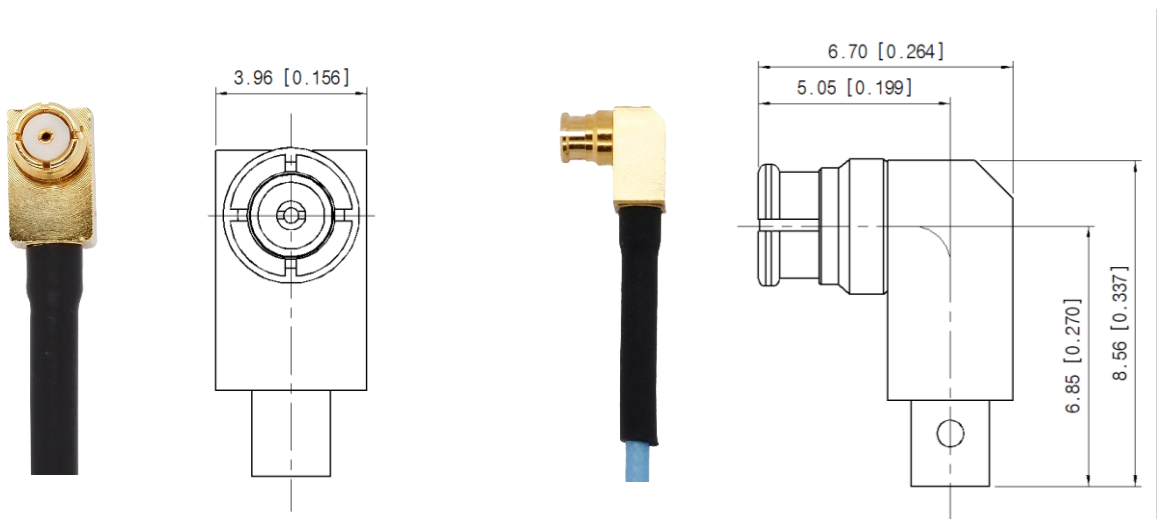
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■ Connector Drawing



Part No.	Description
PF4	SMP Straight Female



Part No.	Description
PF5	SMP Right angle Female

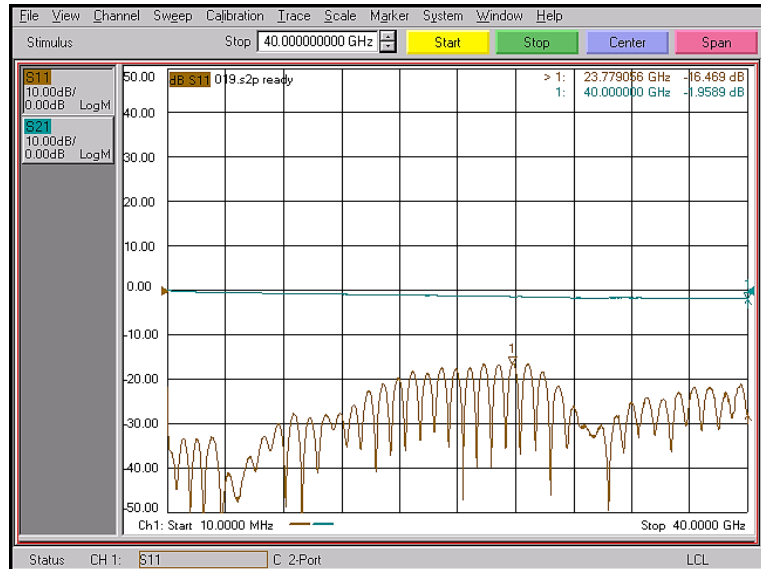
Straight Type

■ Test Results

Flexible .047

Part No: FX047-PF4PF4-100mm

- Frequency : DC to 40 GHz
- Connector : SMP(Female)
SMP(Female)
- Cable Length : 100 mm



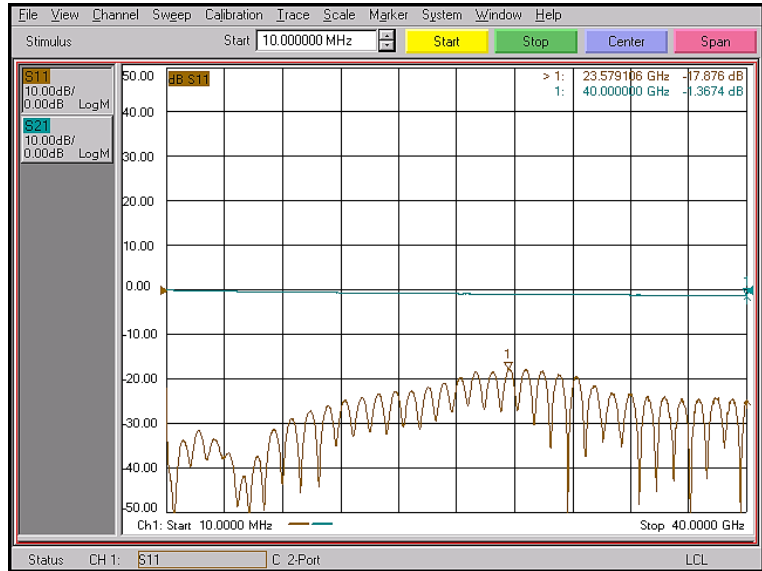
Straight Type

Test Results

Flexible .047

Part No: FX047-PF4KF1-100mm

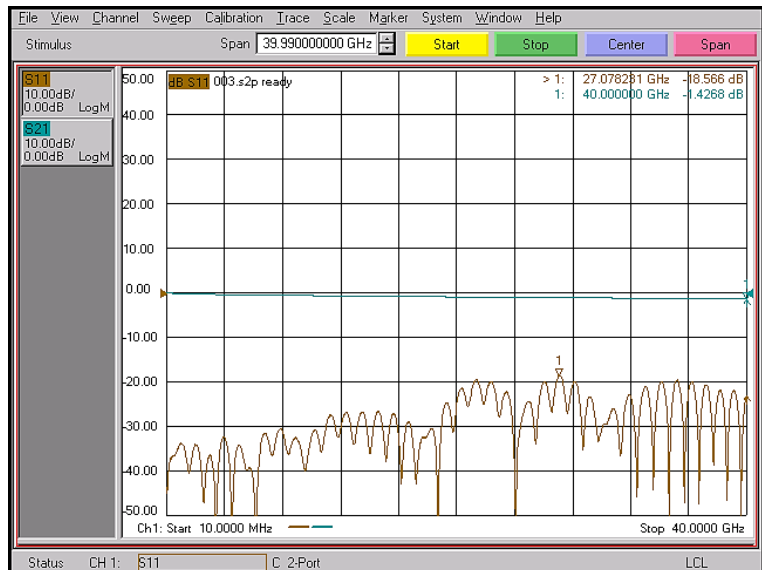
- Frequency : DC to 40 GHz
- Connector : SMP(Female)
2.92 mm(Female)
- Cable Length : 100 mm



Flexible .047

Part No: FX047-PF42F1-100mm

- Frequency : DC to 40 GHz
- Connector : SMP(Female)
2.4 mm(Female)
- Cable Length : 100 mm



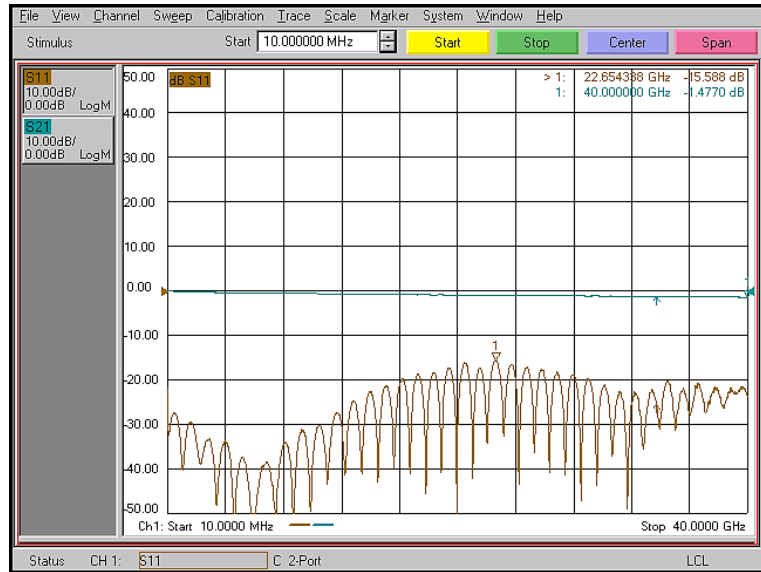
Straight Type

■ Test Results

Semi-Flexible .047

Part No: SF047-PF4PF4-100mm

- Frequency : DC to 40 GHz
- Connector : SMP(Female)
SMP(Female)
- Cable Length : 100 mm



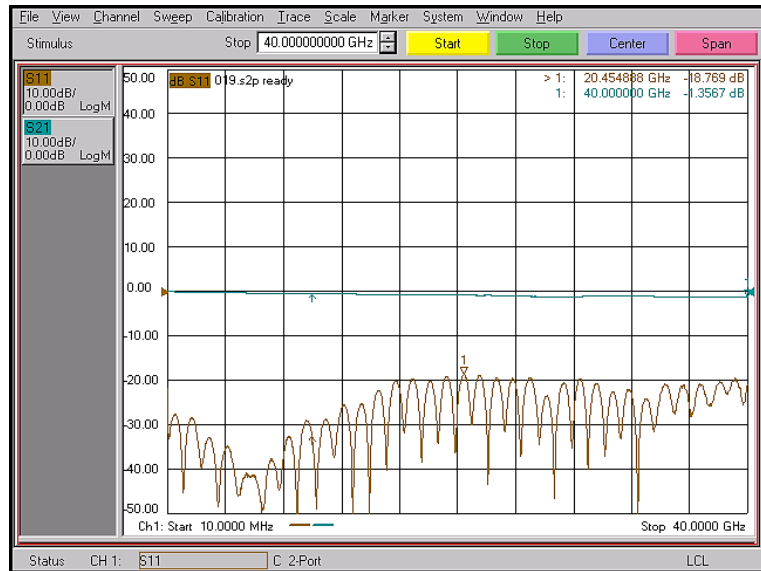
Straight Type

■ Test Results

Semi-Flexible .047

Part No: SF047-PF4KF1-100mm

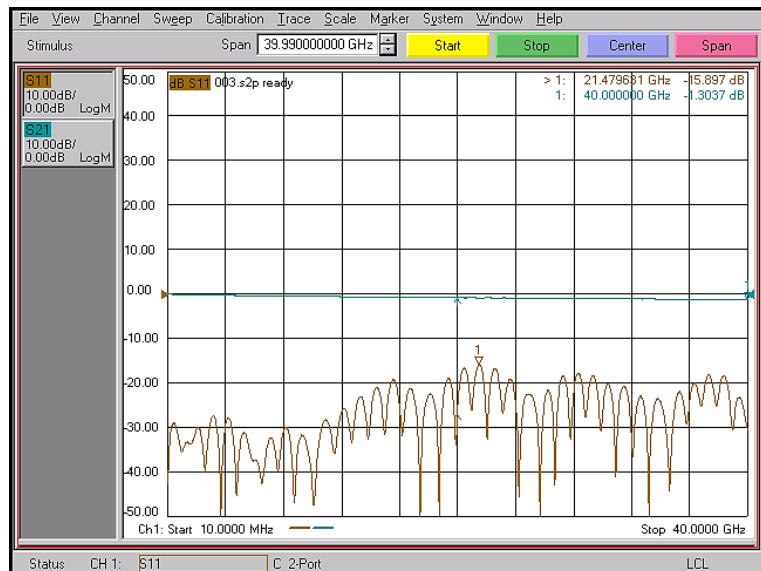
- Frequency : DC to 40 GHz
- Connector : SMP(Female)
2.92 mm(Female)
- Cable Length : 100 mm



Semi-Flexible .047

Part No: SF047-PF42F1-100mm

- Frequency : DC to 40 GHz
- Connector : SMP(Female)
2.4 mm(Female)
- Cable Length : 100 mm



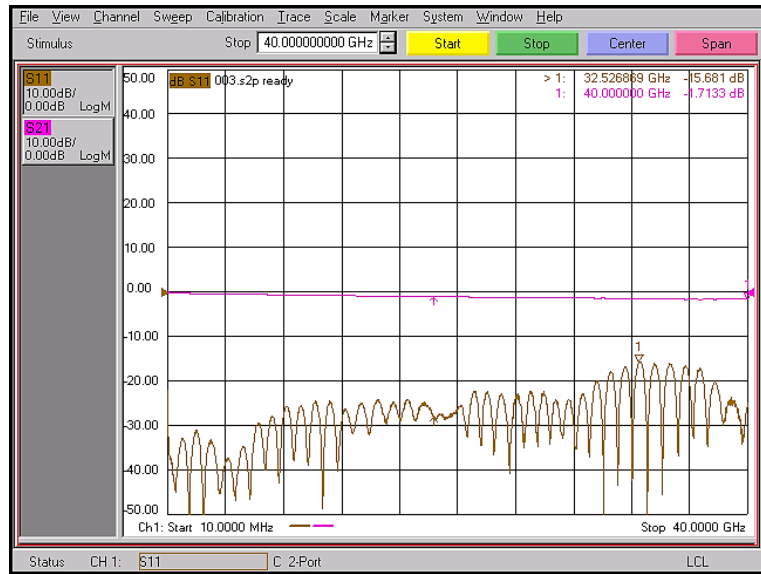
Right Angle Type

■ Test Results

Flexible .047

Part No: FX047-PF5PF5-100mm

- Frequency : DC to 40 GHz
- Connector : SMP(Female) R/A
SMP(Female) R/A
- Cable Length : 100 mm



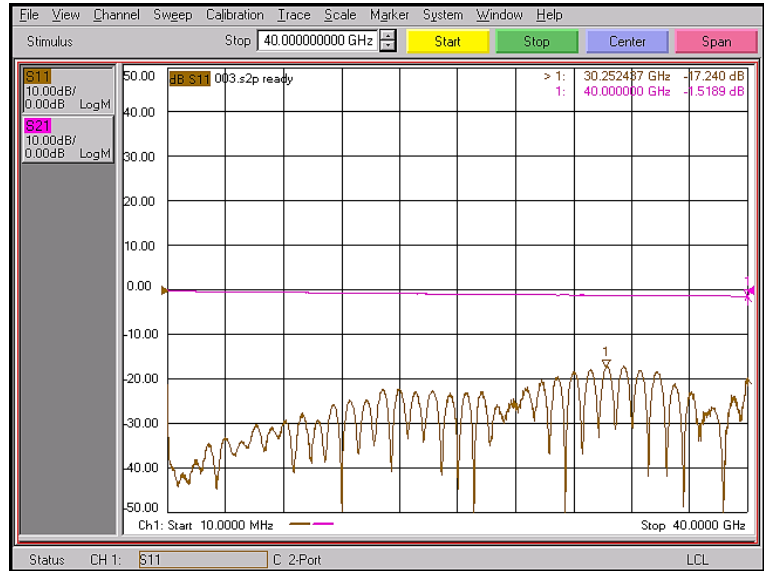
Right Angle Type

■ Test Results

Flexible .047

Part No: FX047-PF5KF1-100mm

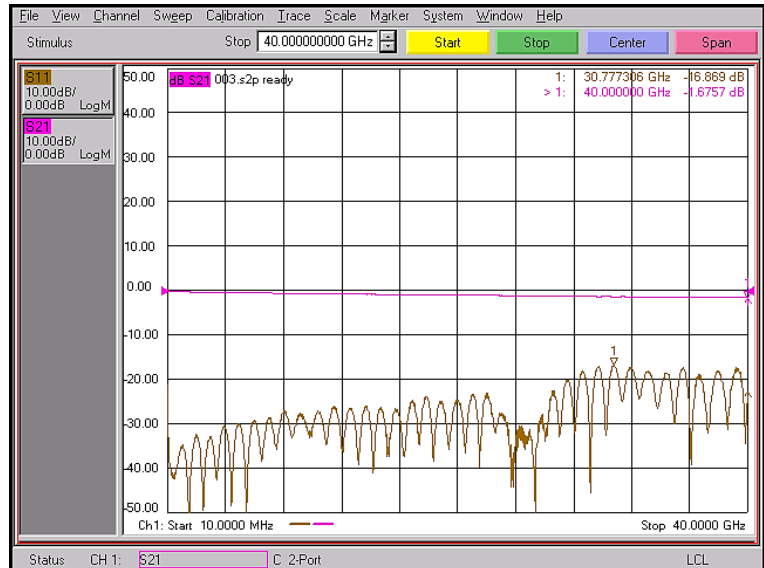
- Frequency : DC to 40 GHz
- Connector : SMP(Female) R/A
2.92 mm(Female)
- Cable Length : 100 mm



Flexible .047

Part No: FX047-PF52F1-100mm

- Frequency : DC to 40 GHz
- Connector : SMP(Female) R/A
2.4 mm(Female)
- Cable Length : 100 mm



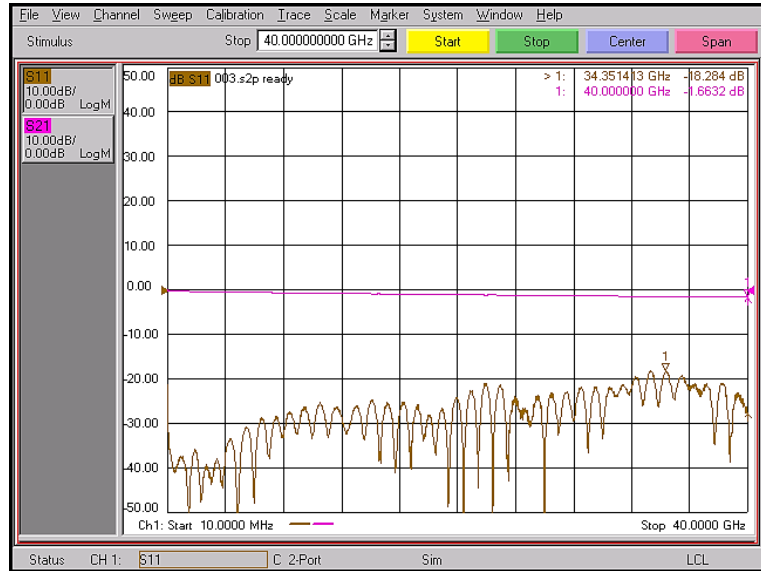
Right Angle Type

■ Test Results

Flexible .047

Part No: FX047-PF5KM1-100mm

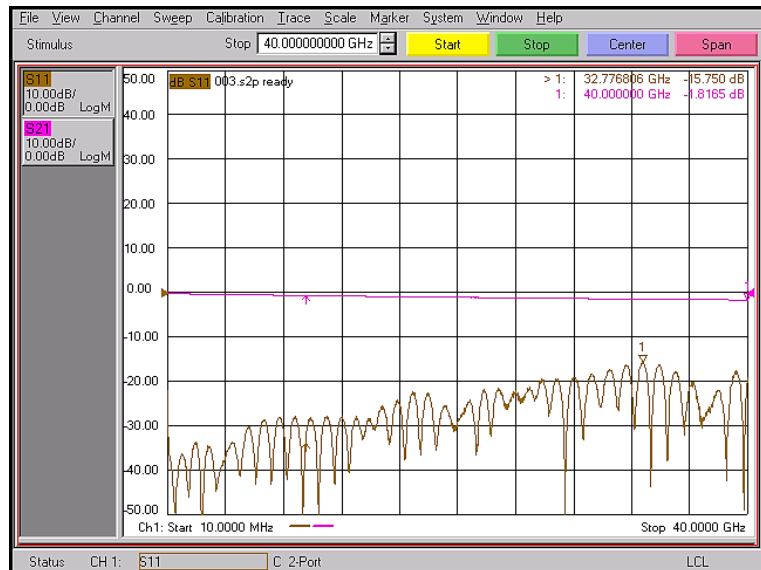
- Frequency : DC to 40 GHz
- Connector : SMP(Female) R/A
2.92 mm(Male)
- Cable Length : 100 mm



Flexible .047

Part No: FX047-PF52M1-100mm

- Frequency : DC to 40 GHz
- Connector : SMP(Female) R/A
2.4 mm(Male)
- Cable Length : 100 mm



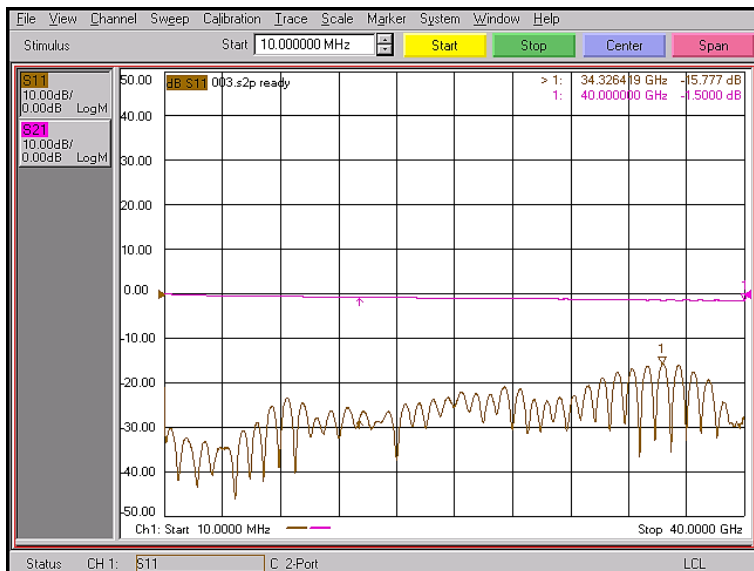
Right Angle Type

■ Test Results

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SMP(Female) R/A
- Cable Length : 100 mm



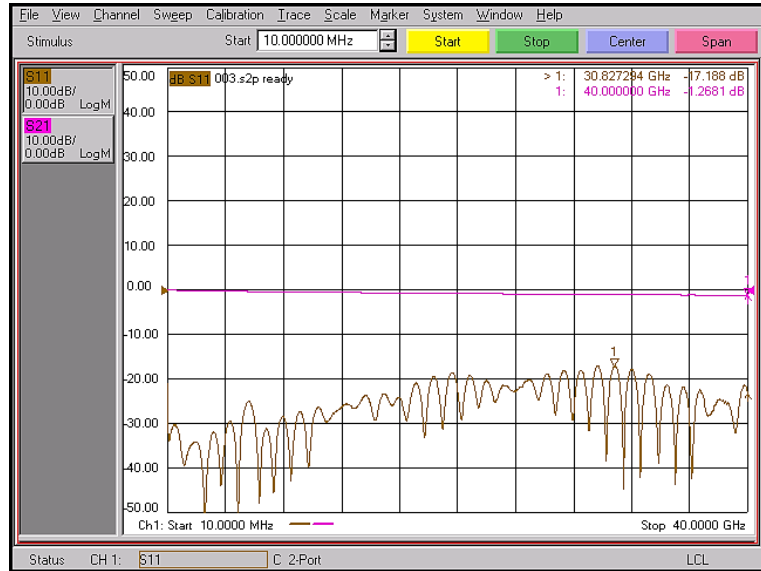
Right Angle Type

■ Test Results

Semi-Flexible .047

Part No: SF047-PF5KF1-100mm

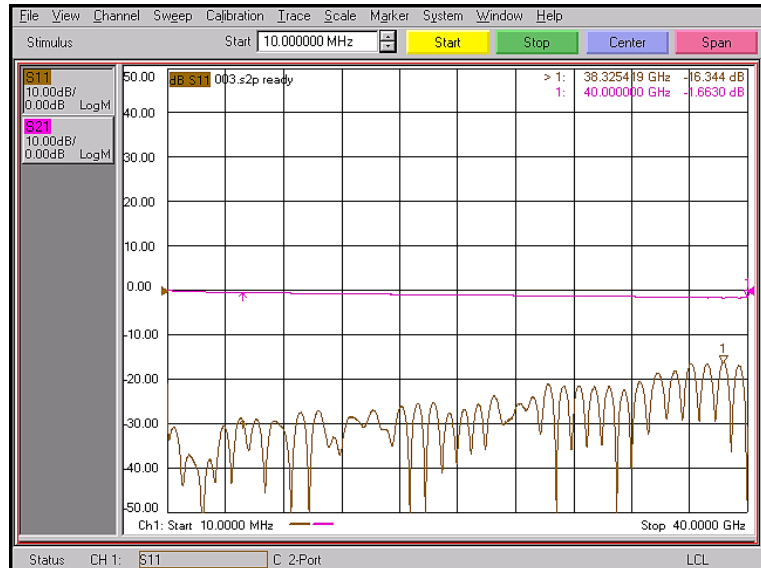
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- Connector : SMP(Female) R/A
2.92 mm(Female)
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Part No: SF047-PF52F1-100mm

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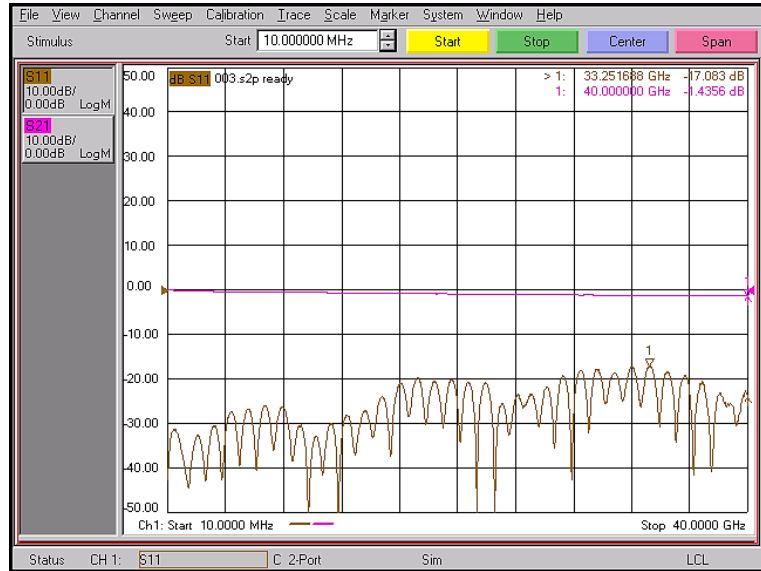
Right Angle Type

■ Test Results

Semi-Flexible .047

Part No: SF047-PF5KM1-100mm

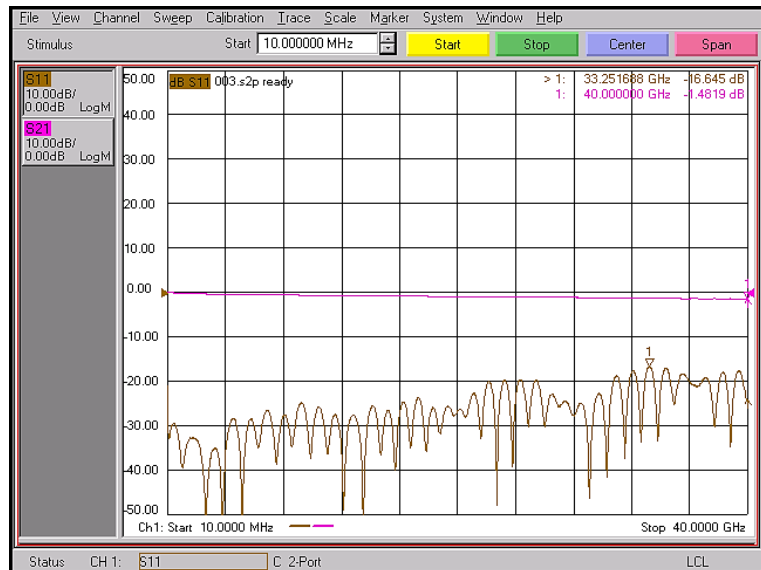
- Frequency : DC to 40 GHz
- Connector : SMP(Female) R/A
2.92 mm(Male)
- Cable Length : 100 mm



Semi-Flexible .047

Part No: SF047-PF52M1-100mm

- Frequency : DC to 40 GHz
- Connector : SMP(Female) R/A
2.4 mm(Male)
- Cable Length : 100 mm



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■ Revision History

Revision	Date	Changes
Ver 1.0 Ver 1.1	2022-06-03 2023-06-20	Released SMP Cable Assembly Released SMP Right angle Cable Assembly