

SMPM Cable Assemblies

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

WithWave offers **SMPM 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 26.5,40,50 & 67 GHz
- Push-On and Snap-On for Quick Installation
- High Speed Interconnection Test
- Available with SMA, 2.92 mm, 2.4 mm & 1.85 mm Connectors (Male, Female type)

■ Application

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



■ Cable Specification

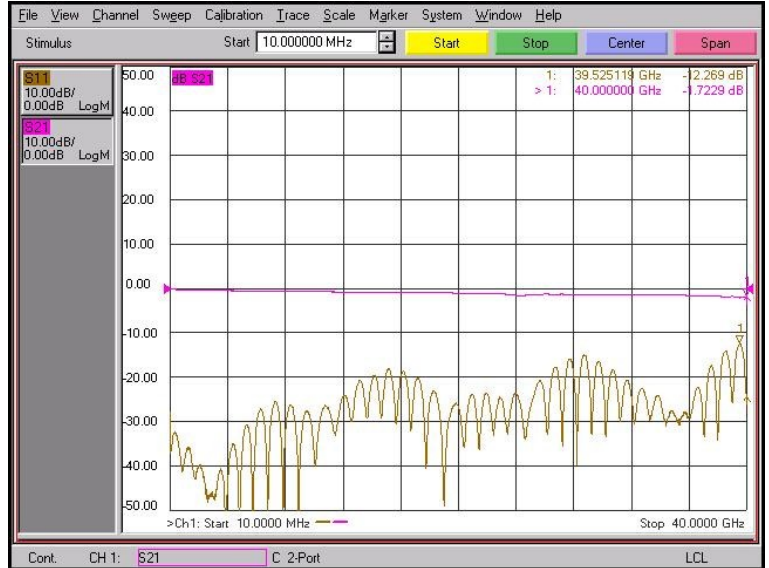
Scope	Specification	SR047	SF047	FX047
Physical	Center Conductor (mm)	0.29	0.29	0.29
	Dielectric (mm)	0.92	0.92	0.92
	Jacket (mm)	1.19	1.19	1.53
Electrical	Impedance (Ohm)		50	
	Operation Freq.(GHz)		40	
	Velocity of propagation(%)		69.5	70
	Shielding Effectiveness (dB)		100	90
Mechanical & Environmental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

■ Test Results

Flexible .047

Part No: FX047-PF1PF1-100mm

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



Flexible .047

Part No: FX047-PF1KF1-100mm

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

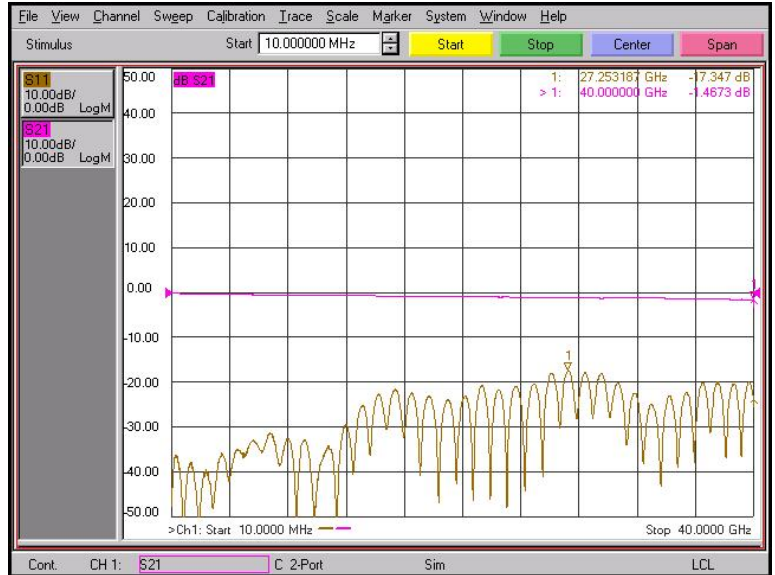


■ Test Results

Flexible .047

Part No: FX047-PF1KM1-100mm

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

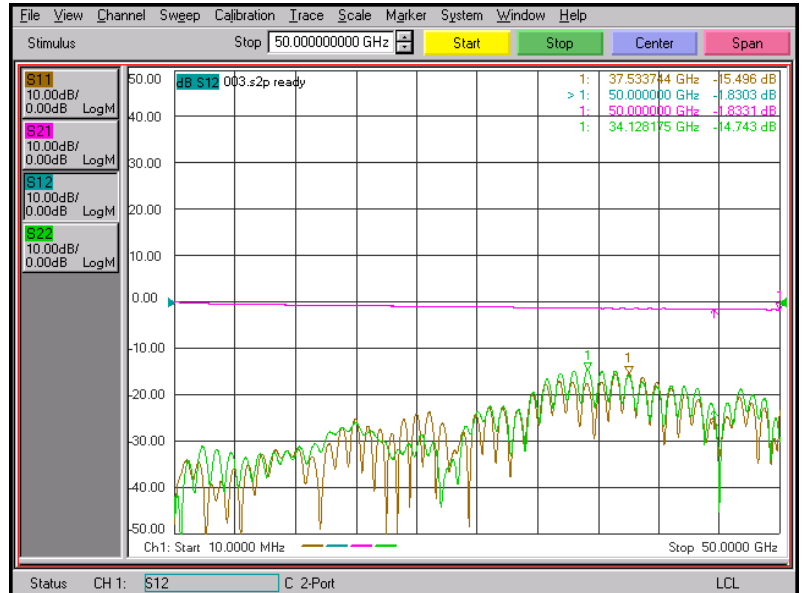


■ Test Results

Flexible .047

Part No: FX047-PF22F1-100mm

- Frequency : DC to 50 GHz
- Connector : SMPM(Female)
2.4 mm(Female)
- Cable Length : 100 mm

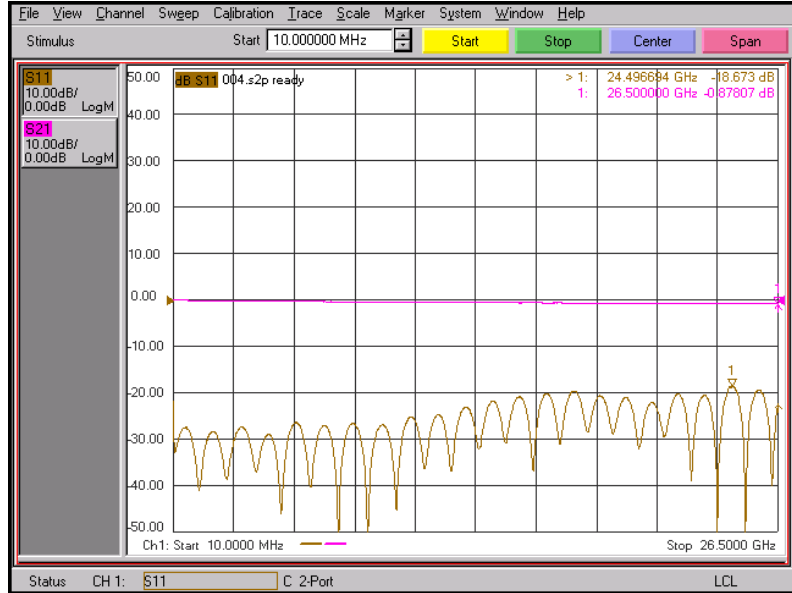


■ Test Results

Semi-Flexible .047

Part No: SF047-PF1SF2-100mm

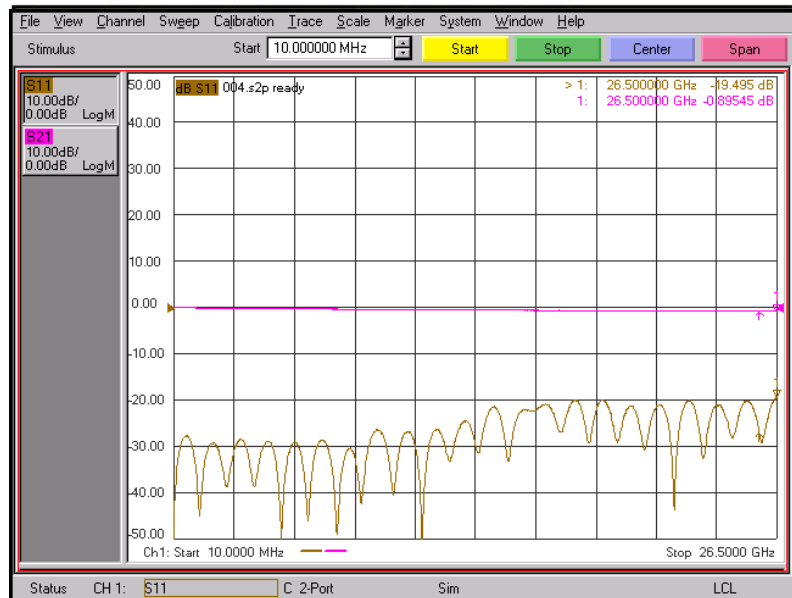
- Frequency : DC to 26.5 GHz
- Connector : SMPM(Female)
SMA(Female)
- Cable Length : 100 mm



Semi-Flexible .047

Part No: SF047-PF1SM2-100mm

- Frequency : DC to 26.5 GHz
- Connector : SMPM(Female)
SMA(Male)
- Cable Length : 100 mm



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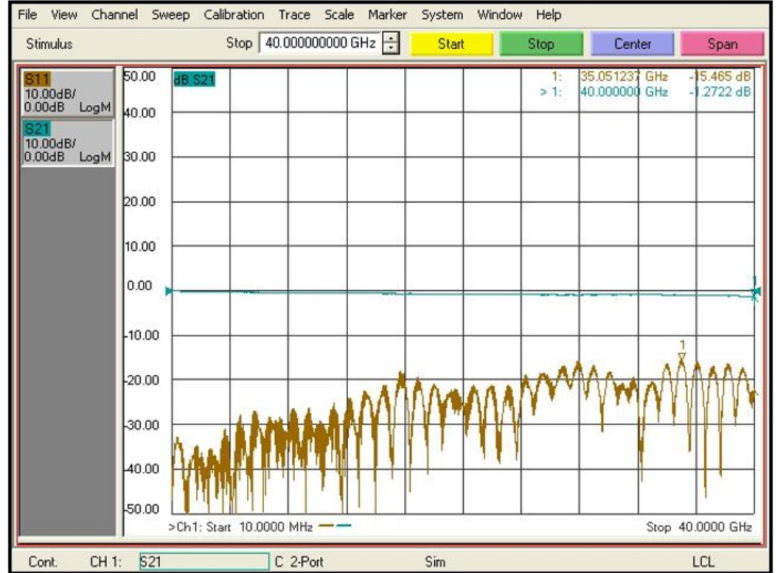
Φ .047 Cable types (Flexible, Semi-Rigid, Semi-Flexible)

■ Test Results

Semi-Flexible .047

Part No: SF047-PF1KM1-100mm

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



SMPM Cable Assemblies

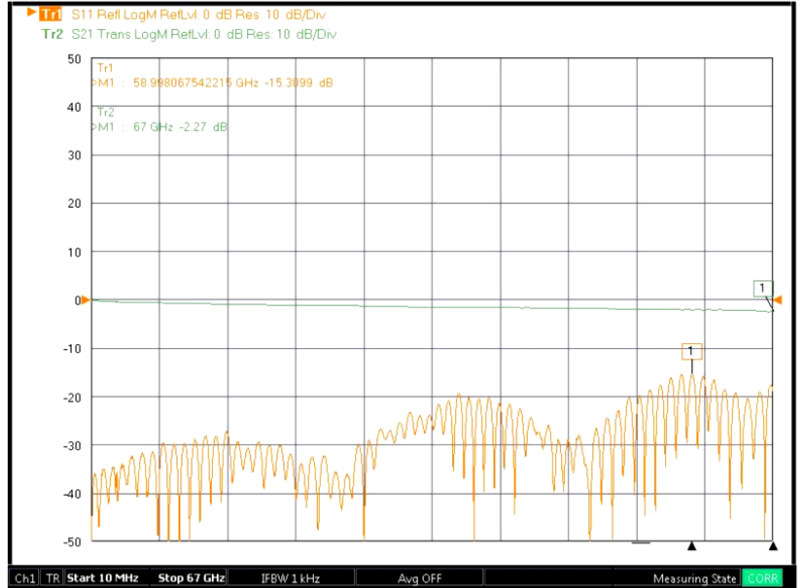
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■ Test Results (67 GHz)

Flexible .047

Part No: FX047-PF2PF2-100mm

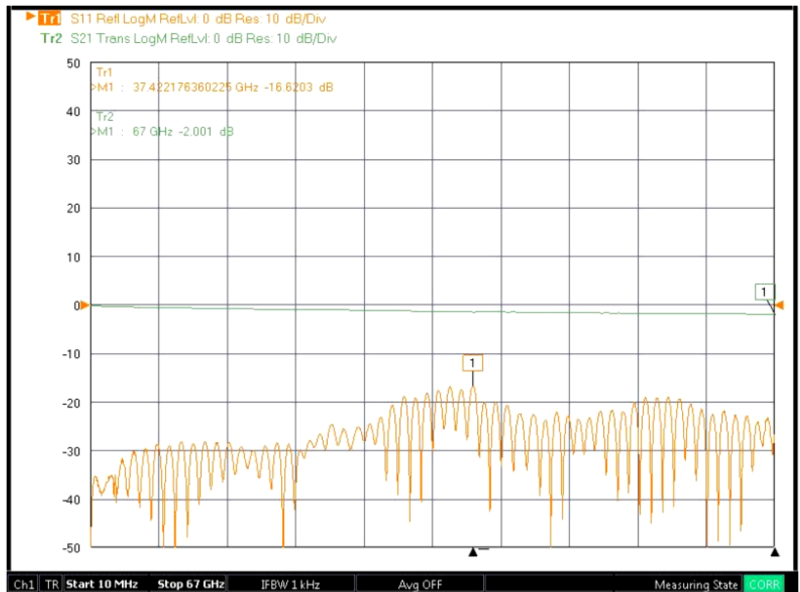
- Frequency : DC to 67 GHz
- Connector : SMPM(Female)
- Cable Length : 100 mm



Flexible .047

Part No: FX047-PF2VM1-100mm

- Frequency : DC to 67 GHz
- Connector : SMPM(Female)
1.85 mm(Male)
- Cable Length : 100 mm

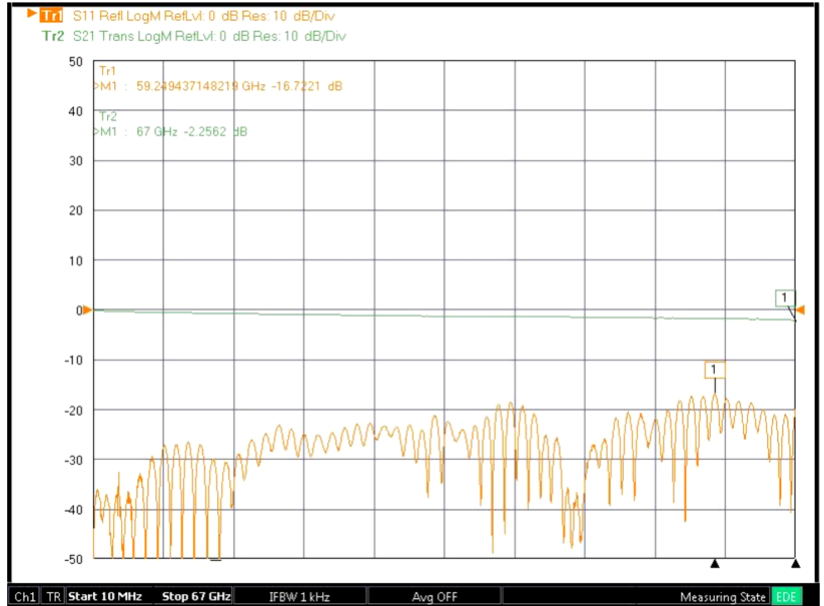


■ Test Results (67 GHz)

Flexible .047

Part No: FX047-PF2VF1-100mm

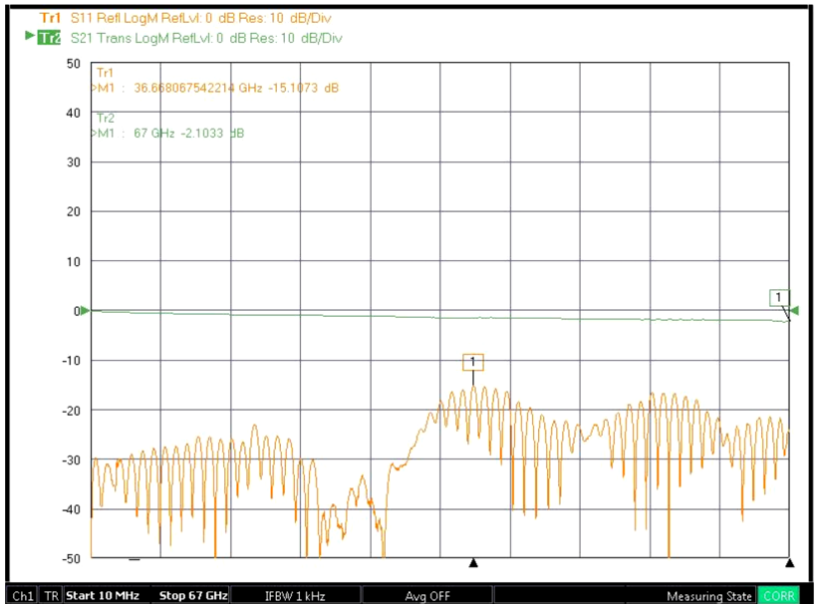
- Frequency : DC to 67 GHz
- Connector : SMPM(Female)
1.85 mm(Female)
- Cable Length : 100 mm



Semi-Flexible .047

Part No: SF047-PF2PF2-100mm

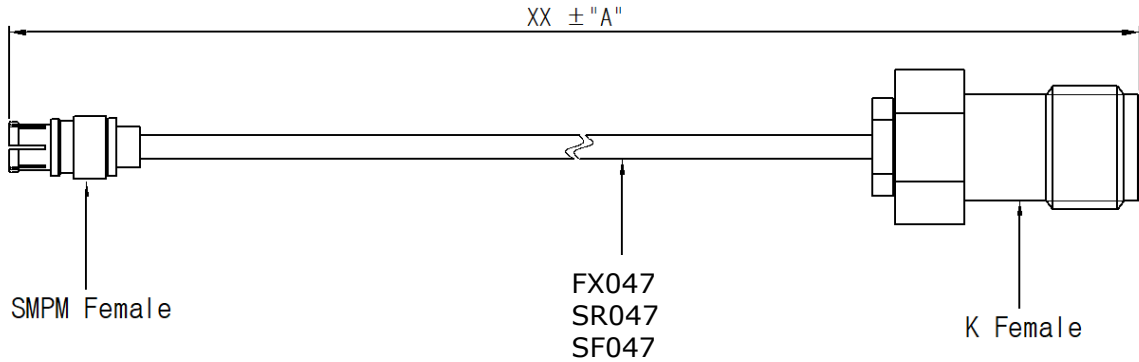
- Frequency : DC to 67 GHz
- Connector : SMPM(Female)
- Cable Length : 100 mm



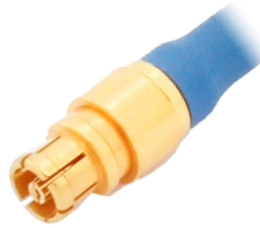
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■ Drawing



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



■ Selection Guide

FX047 - PF1KF1 - 0.1M

Cable Type

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

Connector Type

PF1 : SMPM (Female) :40 GHz
PF2 : SMPM (Female): 67 GHz
SF1 : SMA (Female) FX047
SM1 : SMA (Male) FX047
SF2 : SMA (Female) SF047, SR047
SM2 : SMA (Male) SF047, SR047
KF1 : 2.92 mm (Female)
KM1: 2.92 mm (Male)
2F1 : 2.4 mm (Female)
2M1: 2.4 mm (Male)
VF1 : 1.85 mm (Female)
VM1: 1.85 mm (Male)

Cable Length

Unit : Meter



SMPM Cable Assemblies

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■ Revision History

Revision	Date	Changes
Ver 1.0	2019-09-01	Released SMPM Cable Assembly
Ver 1.1	2020-07-28	Add 67 GHz types
Ver 1.2	2022-04-29	Add 26.5 GHz types (Semi-Flexible 047 Cable)