

Withwave offers **High Performance Cable Assemblies** with 0.047”cable diameter (Flexible, Semi-Rigid & Semi-Flexible) for various kinds of interconnection solutions such as High Speed Testing, Short range and Telecommunication applications.



■ **Features**

- DC to 26.5, 40, 50 & 67 GHz
- Standard and custom cable options available
- Available interface : SMA, 2.92 mm, SMPM, 2.4 mm & 1.85 mm types

■ **Applications**

- Telecommunication Systems
- High Speed Testing
- Short range interconnection

■ **Cable Specifications**

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

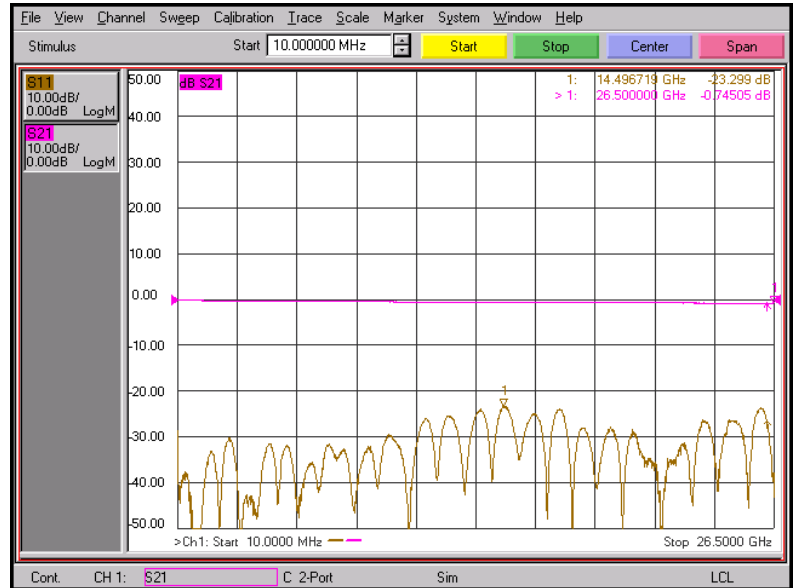
■ Test Results

SMA type

Flexible .047

Part No: FX047-SM1SM1-100mm

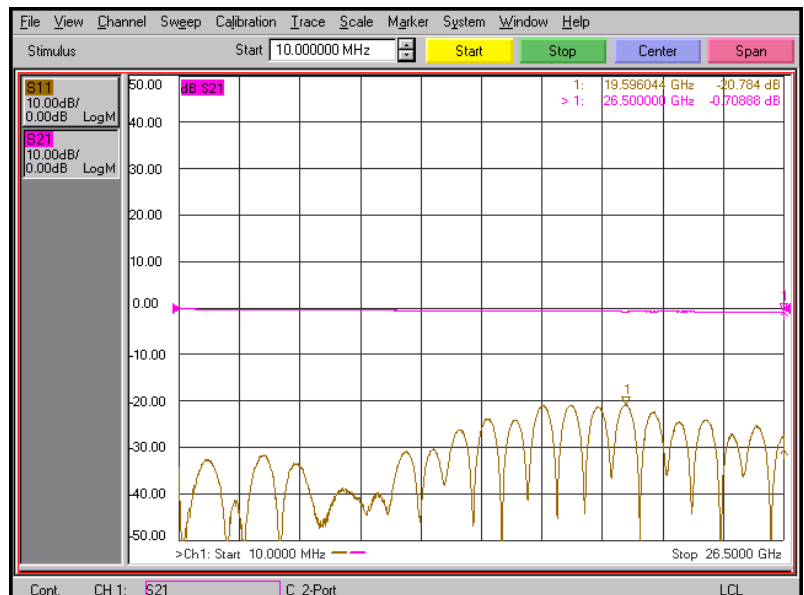
- Frequency : DC to 26.5 GHz
- Connector : SMA(Male)
- Cable Length : 100 mm



Flexible .047

Part No: FX047-SF1SF1-100mm

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



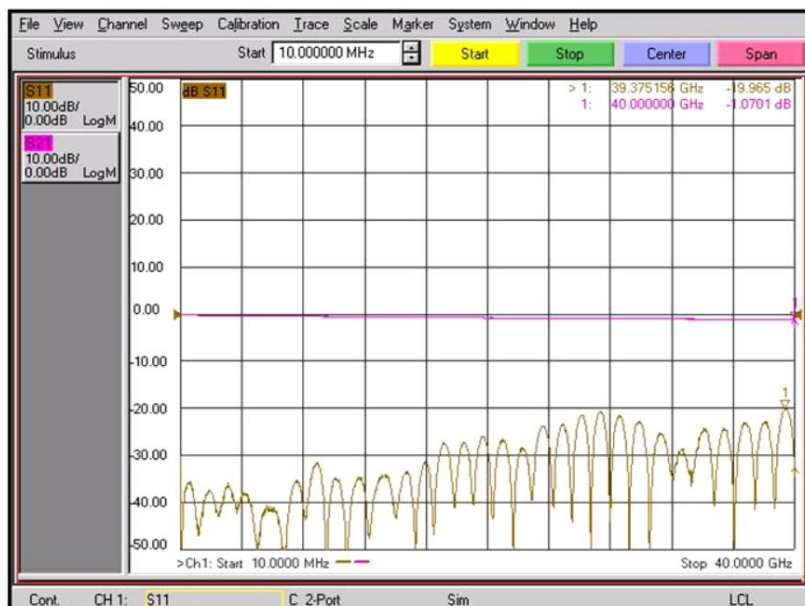
■ Test Results

2.92 mm type

Flexible .047

Part No: FX047-KM1KM1-100mm

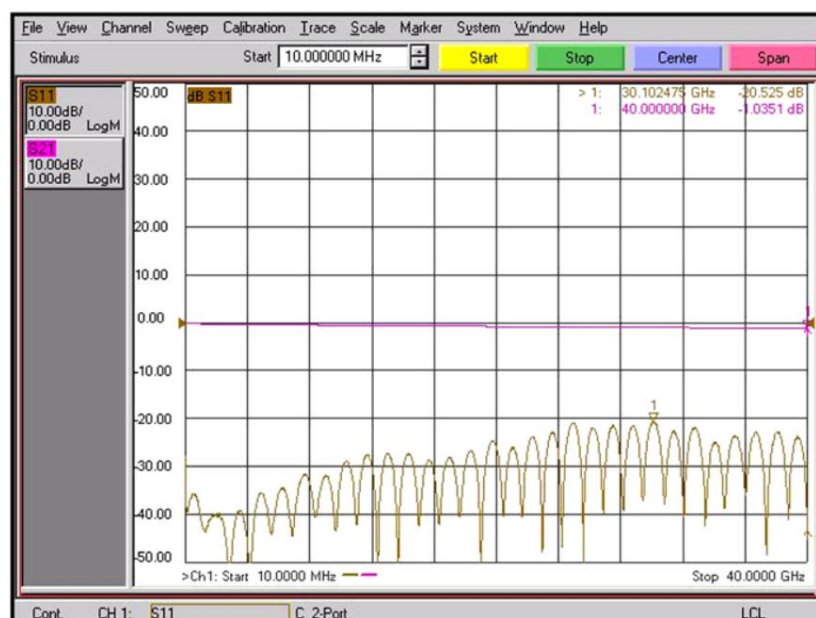
- Frequency : DC to 40 GHz
- Connector : 2.92 mm(Male)
- Cable Length : 100 mm



Flexible .047

Part No: FX047-KF1KF1-100mm

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



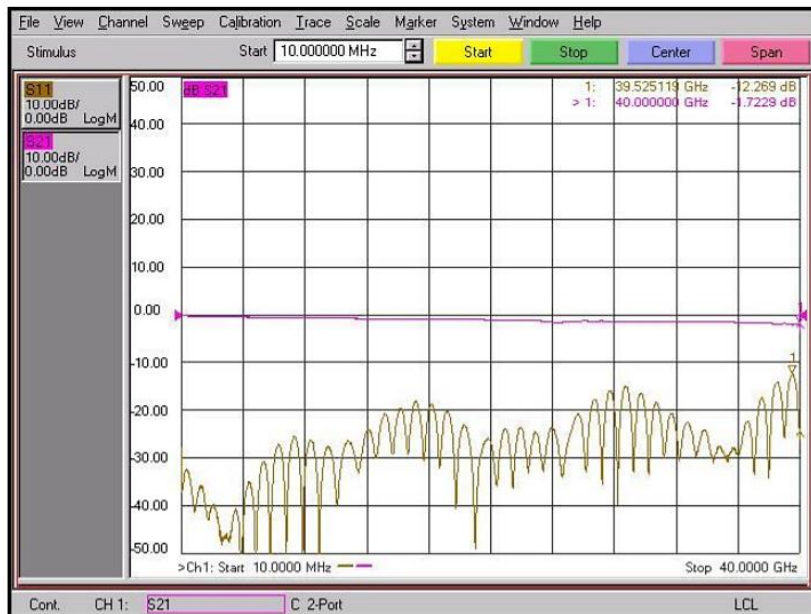
■ Test Results

SMPM type

Flexible .047

Part No: FX047-PF1PF1-100mm

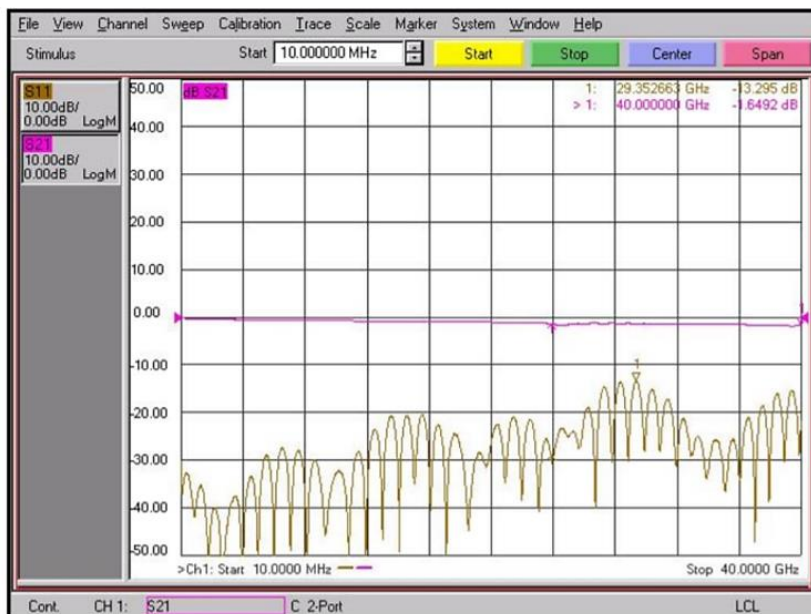
- Frequency : DC to 40 GHz
- Connector : SMPM (Female)
- Cable Length : 100 mm



Semi-Flexible .047

Part No: SF047-PF1PF1-100mm

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



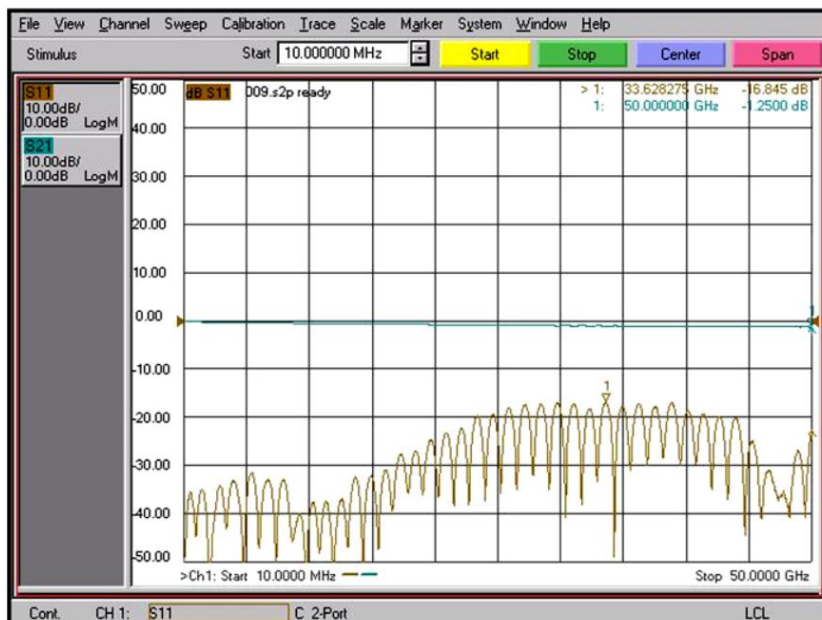
■ Test Results

2.4 mm type

Flexible .047

Part No: FX047-2M12M1-100mm

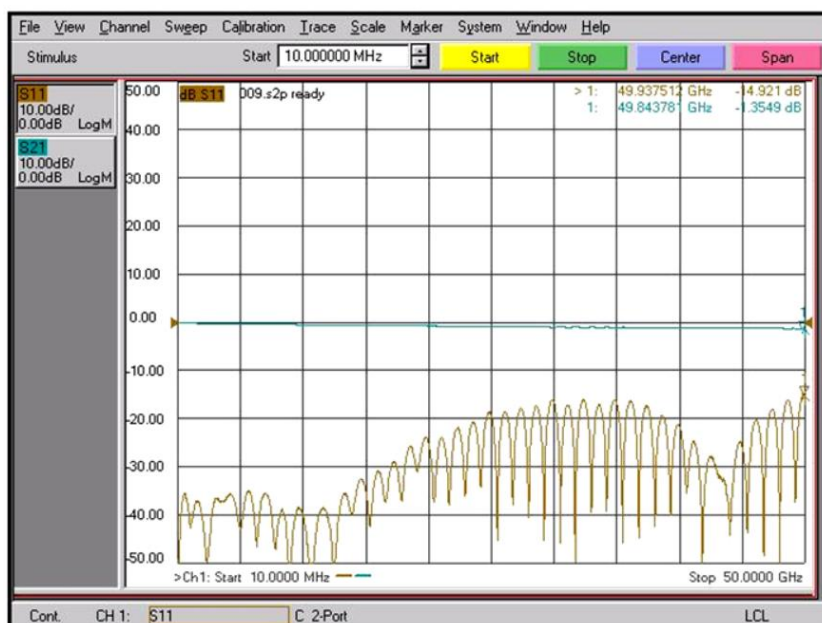
- Frequency : DC to 50 GHz
- Connector : 2.4 mm(Male)
- Cable Length : 100 mm



Flexible .047

Part No: FX047-2F12F1-100mm

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



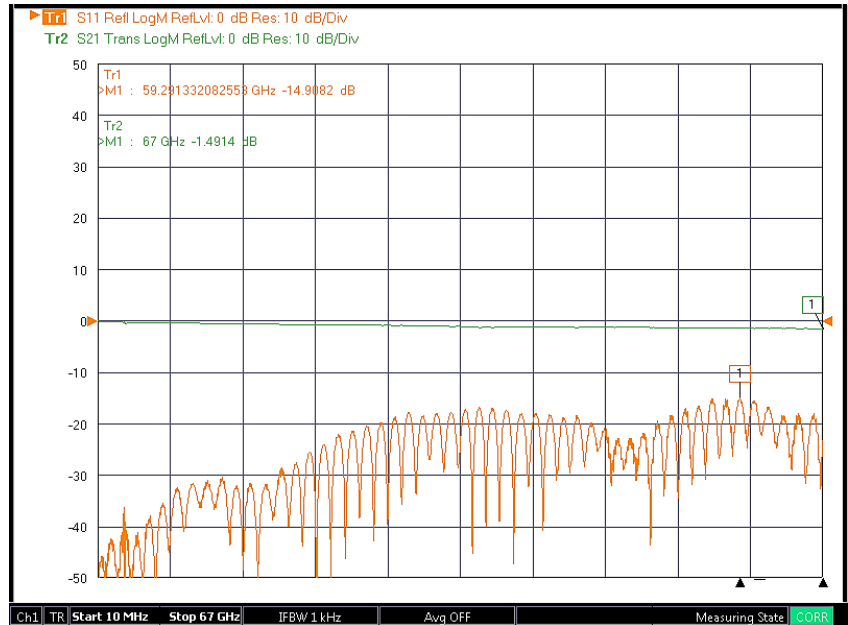
■ Test Results

1.85 mm type

Flexible .047

Part No: FX047-VM1VM1-100mm

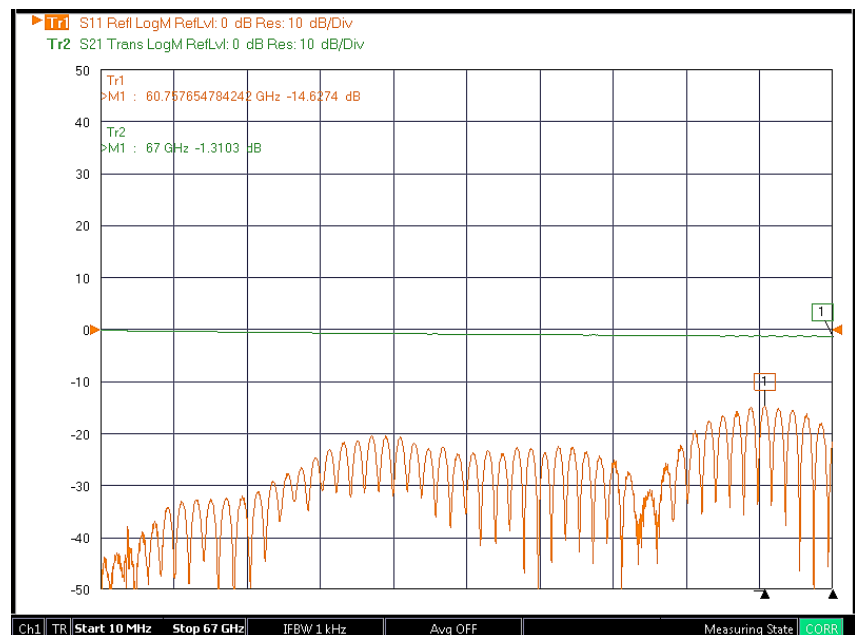
- Frequency : DC to 67 GHz
- Connector : 1.85 mm(Male)
- Cable Length : 100 mm



Flexible .047

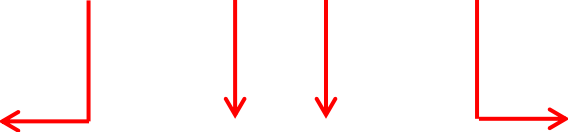
Part No: FX047-VF1VF1-100mm

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



■ **Selection Guide**

FX047 – KM1KM1 – 0.1M



Cable Type

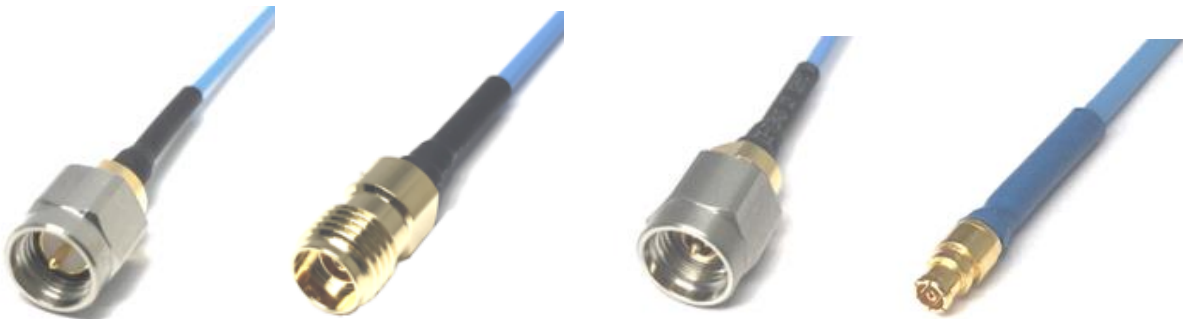
- FX047 : Flexible
- SR047 : Semi-Rigid
- SF047 : Semi-Flexible

Connector Type

- SM1: SMA(Male)
- SF1 : SMA(Female)
- PM1: SMPM(Female)
- KF1 : 2.92 mm(Female)
- KM1: 2.92 mm(Male)
- 2M1 2.4 mm(Male)
- 2F1 : 2.4 mm(Female)
- VM1: 1.85 mm(Male)
- VF1 : 1.85 mm(Female)

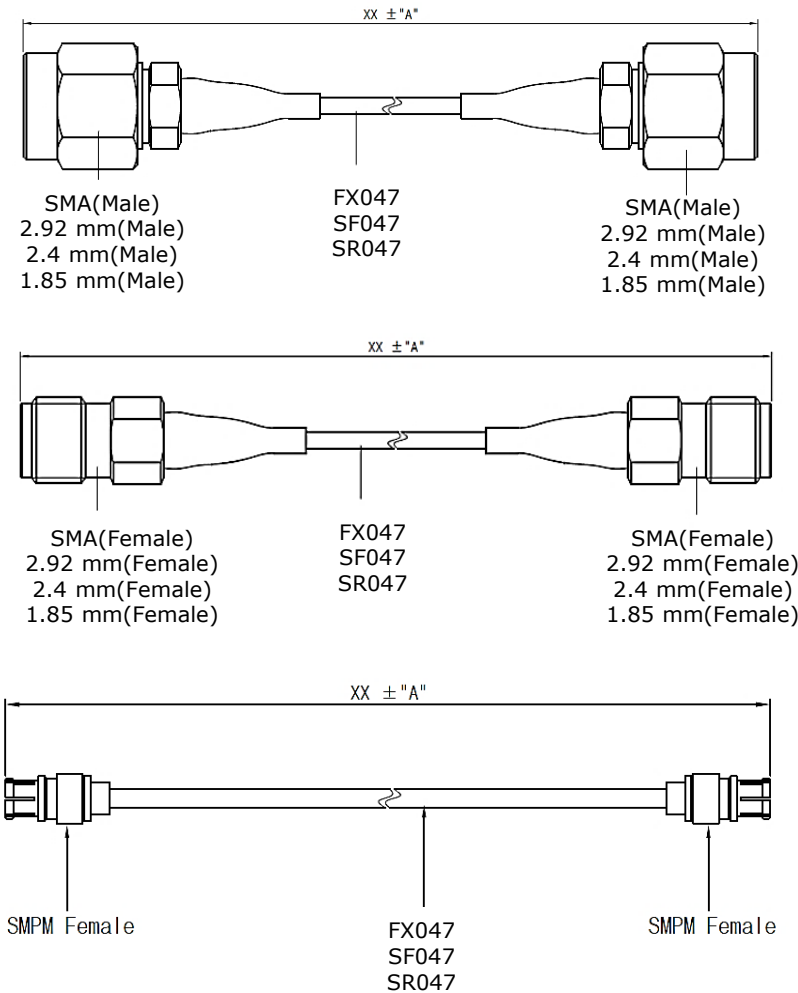
Cable Length

Unit : Meter



Drawing

Unit : mm



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

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

■ *Revision History*

Revision	Date	Changes
Ver 1.0	2020-07-01	Released High Performance Cable Assembly (047 type)